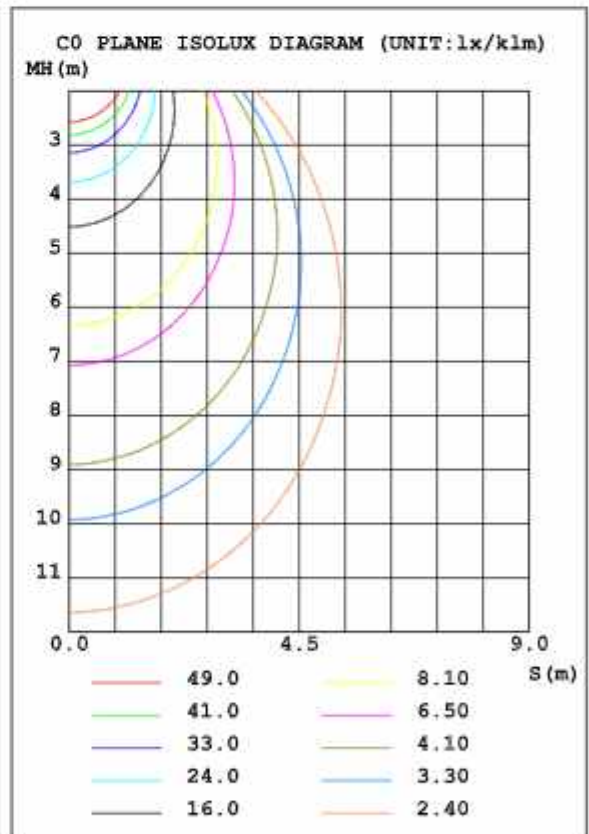
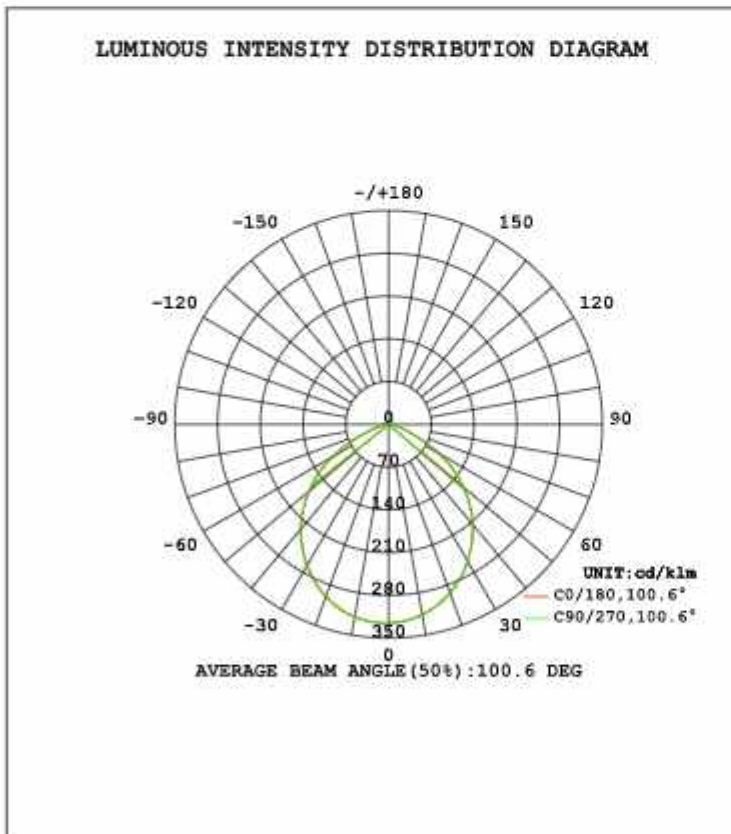


## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 325.9  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 22           | LOR (%)             | 77.6   | S/MH (C90/270)           | 1.18      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 775.87 | $\eta$ UP, DN (C0-180)   | 1.0, 36.9 |
| NOMINAL FLUX (lm) | 3105.14      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.7, 39.0 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 1.7    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 75.9   | CIBSE SHR MAX            | 1.35      |



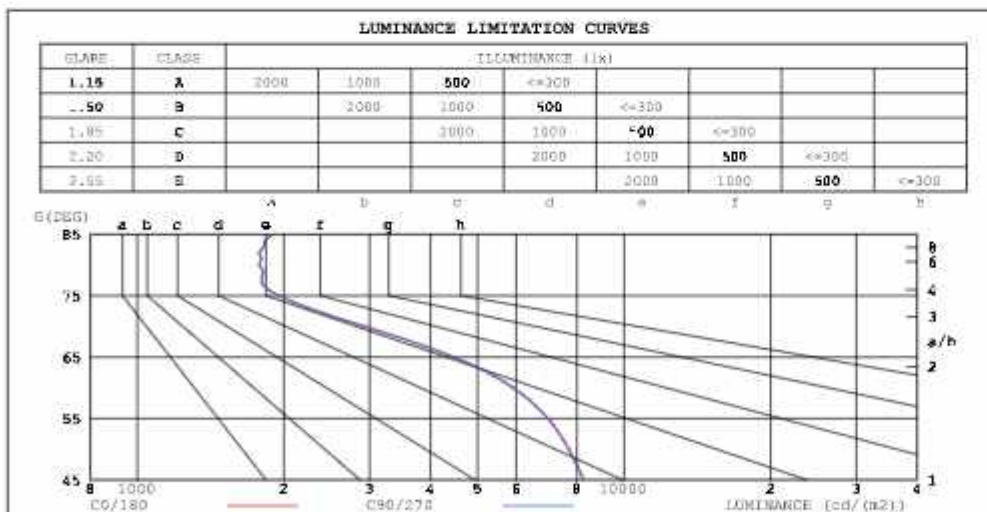
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                        | C90   | C180  | C270  |  |  |  | γ           | Φ zone | Φ total | Δlum, lamp |
|-----|---------------------------|-------|-------|-------|--|--|--|-------------|--------|---------|------------|
| 10  | 316.5                     | 316.6 | 320.0 | 320.6 |  |  |  | 0- 10       | 30.74  | 30.74   | 3.96,3.07  |
| 20  | 294.0                     | 293.6 | 300.2 | 301.2 |  |  |  | 10- 20      | 87.25  | 118.0   | 15.2,11.8  |
| 30  | 258.6                     | 258.0 | 266.4 | 268.1 |  |  |  | 20- 30      | 129.6  | 247.6   | 31.9,24.8  |
| 40  | 214.5                     | 213.8 | 223.4 | 225.2 |  |  |  | 30- 40      | 151.3  | 398.8   | 51.4,39.9  |
| 50  | 159.7                     | 158.8 | 169.2 | 170.9 |  |  |  | 40- 50      | 148.7  | 547.5   | 70.6,54.7  |
| 60  | 95.58                     | 95.01 | 105.9 | 107.2 |  |  |  | 50- 60      | 119.4  | 666.9   | 86,66.7    |
| 70  | 32.55                     | 32.04 | 38.48 | 39.79 |  |  |  | 60- 70      | 65.90  | 732.8   | 94.4,73.3  |
| 80  | 9.949                     | 9.938 | 9.757 | 9.773 |  |  |  | 70- 80      | 20.24  | 753.0   | 97.1,75.3  |
| 90  | 2.990                     | 2.957 | 1.525 | 1.480 |  |  |  | 80- 90      | 5.958  | 759.0   | 97.8,75.9  |
| 100 | 2.987                     | 2.990 | 1.412 | 1.401 |  |  |  | 90-100      | 2.327  | 761.3   | 98.1,76.1  |
| 110 | 3.034                     | 3.042 | 1.738 | 1.723 |  |  |  | 100-110     | 2.419  | 763.7   | 98.4,76.4  |
| 120 | 3.114                     | 3.122 | 2.082 | 2.065 |  |  |  | 110-120     | 2.468  | 766.2   | 98.8,76.6  |
| 130 | 3.220                     | 3.210 | 2.414 | 2.389 |  |  |  | 120-130     | 2.423  | 768.6   | 99.1,76.9  |
| 140 | 3.344                     | 3.340 | 2.724 | 2.706 |  |  |  | 130-140     | 2.256  | 770.9   | 99.4,77.1  |
| 150 | 3.523                     | 3.517 | 3.050 | 3.043 |  |  |  | 140-150     | 1.977  | 772.9   | 99.6,77.3  |
| 160 | 3.735                     | 3.749 | 3.402 | 3.408 |  |  |  | 150-160     | 1.583  | 774.5   | 99.8,77.4  |
| 170 | 3.894                     | 3.923 | 3.717 | 3.727 |  |  |  | 160-170     | 1.046  | 775.5   | 100,77.5   |
| 180 | 3.917                     | 3.939 | 3.913 | 3.934 |  |  |  | 170-180     | 0.3691 | 775.9   | 100,77.6   |
| DEG | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |        |         |            |



| LUMINANCE cd/ (m2) |        |         |
|--------------------|--------|---------|
| G (DEG)            | C0/180 | C90/270 |
| 85                 | 1907   | 1887    |
| 80                 | 1779   | 1777    |
| 75                 | 1953   | 1949    |
| 70                 | 2956   | 2809    |
| 65                 | 4488   | 4428    |
| 60                 | 5936   | 5900    |
| 55                 | 6991   | 6953    |
| 50                 | 7714   | 7669    |
| 45                 | 8266   | 8224    |

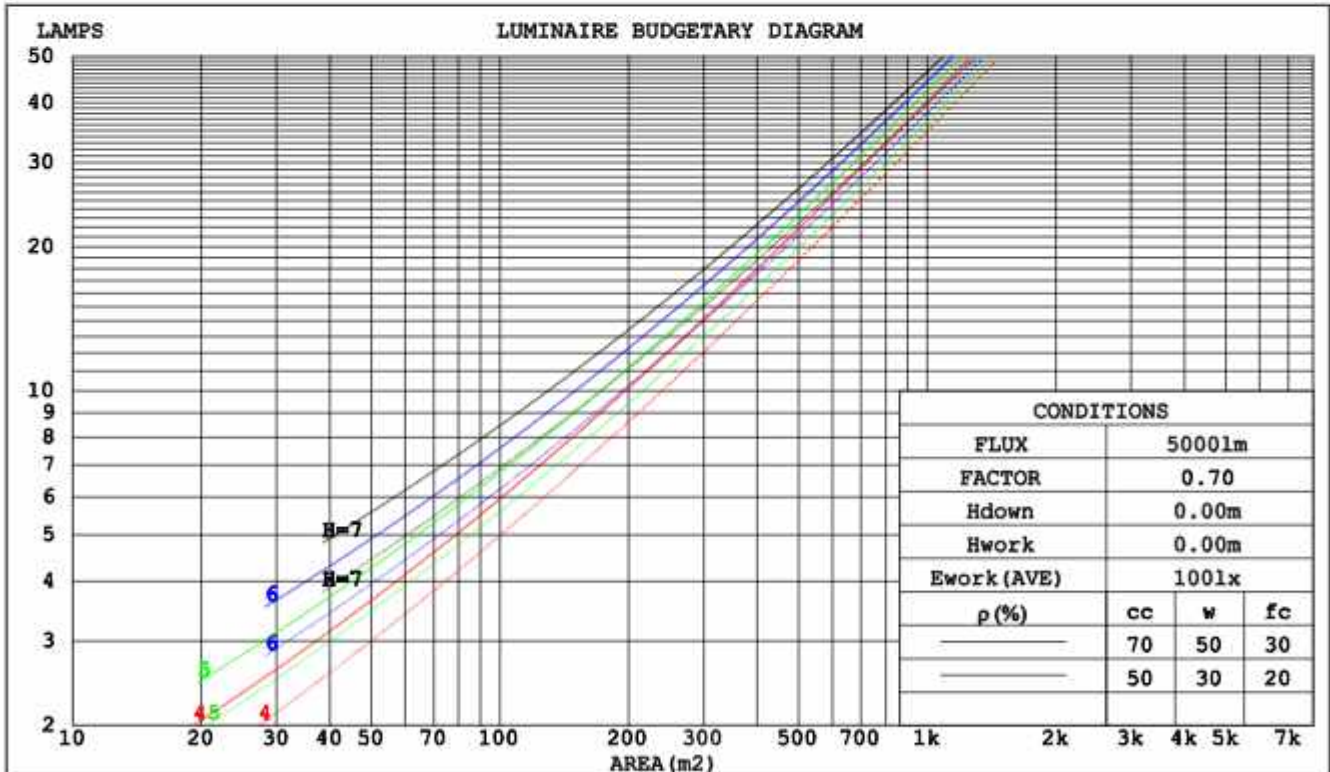
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |     |     | 70% |     |     | 50%                             |     |     | 30% |     |     | 10% |     |     | 0   |
|------|-----------------------|-----|-----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| pw   | 50%                   | 30% | 10% | 50% | 30% | 10% | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |     |     | 20% |     |     | 20%                             |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |     |     |     |     |     | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |
| 0.0  | .92                   | .92 | .92 | .90 | .90 | .90 | .85                             | .85 | .85 | .81 | .81 | .81 | .78 | .78 | .78 | .76 |
| 1.0  | .82                   | .79 | .77 | .80 | .78 | .75 | .77                             | .74 | .73 | .73 | .72 | .70 | .70 | .69 | .68 | .66 |
| 2.0  | .73                   | .68 | .64 | .71 | .67 | .63 | .68                             | .65 | .61 | .65 | .62 | .60 | .63 | .60 | .58 | .57 |
| 3.0  | .65                   | .59 | .54 | .63 | .58 | .54 | .61                             | .56 | .53 | .58 | .55 | .51 | .56 | .53 | .50 | .49 |
| 4.0  | .58                   | .51 | .47 | .57 | .51 | .46 | .54                             | .49 | .45 | .53 | .48 | .45 | .51 | .47 | .44 | .42 |
| 5.0  | .52                   | .45 | .41 | .51 | .45 | .40 | .49                             | .44 | .40 | .47 | .43 | .39 | .46 | .42 | .39 | .37 |
| 6.0  | .47                   | .40 | .36 | .46 | .40 | .36 | .45                             | .39 | .35 | .43 | .38 | .35 | .42 | .38 | .34 | .33 |
| 7.0  | .43                   | .36 | .32 | .42 | .36 | .32 | .41                             | .35 | .31 | .39 | .35 | .31 | .38 | .34 | .31 | .29 |
| 8.0  | .39                   | .33 | .28 | .38 | .32 | .28 | .37                             | .32 | .28 | .36 | .31 | .28 | .35 | .31 | .28 | .26 |
| 9.0  | .36                   | .30 | .26 | .35 | .30 | .26 | .34                             | .29 | .25 | .33 | .29 | .25 | .33 | .28 | .25 | .24 |
| 10.0 | .33                   | .27 | .23 | .33 | .27 | .23 | .32                             | .27 | .23 | .31 | .26 | .23 | .30 | .26 | .23 | .21 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .205                  | .117 | .037 | .200 | .114 | .036 | .188                            | .108 | .035 | .178 | .103 | .033 | .169 | .098 | .032 |   |
| 2.0  | .199                  | .109 | .033 | .193 | .106 | .033 | .184                            | .102 | .032 | .175 | .098 | .031 | .166 | .094 | .030 |   |
| 3.0  | .188                  | .100 | .030 | .183 | .098 | .030 | .174                            | .095 | .029 | .166 | .091 | .028 | .159 | .088 | .027 |   |
| 4.0  | .176                  | .091 | .027 | .172 | .090 | .027 | .164                            | .087 | .026 | .157 | .084 | .025 | .151 | .082 | .025 |   |
| 5.0  | .165                  | .084 | .024 | .161 | .083 | .024 | .154                            | .080 | .024 | .148 | .078 | .023 | .142 | .076 | .023 |   |
| 6.0  | .154                  | .077 | .022 | .151 | .076 | .022 | .145                            | .074 | .022 | .139 | .072 | .021 | .134 | .071 | .021 |   |
| 7.0  | .145                  | .072 | .020 | .142 | .071 | .020 | .137                            | .069 | .020 | .131 | .067 | .020 | .127 | .066 | .019 |   |
| 8.0  | .136                  | .067 | .019 | .134 | .066 | .019 | .129                            | .064 | .018 | .124 | .063 | .018 | .120 | .061 | .018 |   |
| 9.0  | .128                  | .062 | .017 | .126 | .061 | .017 | .122                            | .060 | .017 | .117 | .059 | .017 | .113 | .058 | .017 |   |
| 10.0 | .121                  | .058 | .016 | .119 | .058 | .016 | .115                            | .056 | .016 | .111 | .055 | .016 | .108 | .054 | .016 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .161                  | .161 | .161 | .137 | .137 | .137 | .094                                       | .094 | .094 | .054 | .054 | .054 | .017 | .017 | .017 |   |
| 1.0  | .150                  | .134 | .120 | .129 | .115 | .103 | .088                                       | .079 | .071 | .051 | .046 | .042 | .016 | .015 | .013 |   |
| 2.0  | .143                  | .116 | .092 | .122 | .099 | .080 | .084                                       | .069 | .056 | .048 | .040 | .033 | .016 | .013 | .011 |   |
| 3.0  | .137                  | .102 | .074 | .117 | .088 | .064 | .080                                       | .061 | .045 | .046 | .036 | .026 | .015 | .012 | .009 |   |
| 4.0  | .131                  | .091 | .061 | .112 | .079 | .053 | .077                                       | .055 | .037 | .045 | .032 | .022 | .014 | .010 | .007 |   |
| 5.0  | .125                  | .083 | .052 | .107 | .072 | .045 | .074                                       | .050 | .032 | .043 | .029 | .019 | .014 | .010 | .006 |   |
| 6.0  | .120                  | .076 | .045 | .103 | .066 | .039 | .071                                       | .046 | .028 | .041 | .027 | .017 | .013 | .009 | .005 |   |
| 7.0  | .115                  | .071 | .040 | .099 | .062 | .035 | .068                                       | .043 | .025 | .040 | .025 | .015 | .013 | .008 | .005 |   |
| 8.0  | .110                  | .067 | .037 | .095 | .058 | .032 | .066                                       | .041 | .023 | .038 | .024 | .013 | .012 | .008 | .004 |   |
| 9.0  | .106                  | .063 | .034 | .091 | .054 | .029 | .063                                       | .038 | .021 | .037 | .023 | .012 | .012 | .007 | .004 |   |
| 10.0 | .102                  | .059 | .031 | .088 | .052 | .027 | .061                                       | .036 | .019 | .035 | .021 | .012 | .011 | .007 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 15.2             | 16.5   | 15.5 | 16.8 | 17.0 | 15.1           | 16.5              | 15.4 | 16.8 | 17.0 |  |
| 3H   | 15.6             | 16.9   | 15.9 | 17.2 | 17.4 | 15.6           | 16.9              | 15.9 | 17.1 | 17.4 |  |
| 4H   | 15.7             | 16.9   | 16.0 | 17.1 | 17.4 | 15.6           | 16.8              | 16.0 | 17.1 | 17.4 |  |
| 6H   | 15.7             | 16.8   | 16.0 | 17.1 | 17.4 | 15.6           | 16.8              | 16.0 | 17.1 | 17.4 |  |
| 8H   | 15.7             | 16.7   | 16.0 | 17.1 | 17.4 | 15.6           | 16.7              | 16.0 | 17.0 | 17.4 |  |
| 12H  | 15.7             | 16.7   | 16.0 | 17.0 | 17.4 | 15.6           | 16.7              | 16.0 | 17.0 | 17.3 |  |
| 4H 2H  | 15.4             | 16.6   | 15.8 | 16.9 | 17.2 | 15.4           | 16.6              | 15.8 | 16.9 | 17.2 |  |
| 3H   | 16.0             | 17.0   | 16.4 | 17.3 | 17.7 | 16.0           | 17.0              | 16.3 | 17.3 | 17.7 |  |
| 4H   | 16.1             | 17.0   | 16.5 | 17.3 | 17.7 | 16.0           | 17.0              | 16.4 | 17.3 | 17.7 |  |
| 6H   | 16.1             | 16.9   | 16.5 | 17.3 | 17.7 | 16.1           | 16.9              | 16.5 | 17.3 | 17.7 |  |
| 8H   | 16.1             | 16.9   | 16.6 | 17.3 | 17.7 | 16.1           | 16.9              | 16.6 | 17.3 | 17.7 |  |
| 12H  | 16.2             | 16.9   | 16.6 | 17.3 | 17.7 | 16.1           | 16.8              | 16.6 | 17.3 | 17.7 |  |
| 8H 4H  | 16.0             | 16.8   | 16.5 | 17.2 | 17.6 | 16.0           | 16.8              | 16.4 | 17.2 | 17.6 |  |
| 6H   | 16.1             | 16.8   | 16.6 | 17.2 | 17.7 | 16.1           | 16.8              | 16.6 | 17.2 | 17.7 |  |
| 8H   | 16.2             | 16.8   | 16.7 | 17.2 | 17.7 | 16.2           | 16.7              | 16.7 | 17.2 | 17.7 |  |
| 12H  | 16.3             | 16.8   | 16.8 | 17.2 | 17.8 | 16.3           | 16.7              | 16.8 | 17.2 | 17.7 |  |
| 12H 4H   | 16.0             | 16.7   | 16.4 | 17.1 | 17.6 | 16.0           | 16.7              | 16.4 | 17.1 | 17.5 |  |
| 6H   | 16.1             | 16.7   | 16.6 | 17.1 | 17.6 | 16.1           | 16.7              | 16.6 | 17.1 | 17.6 |  |
| 8H   | 16.2             | 16.7   | 16.7 | 17.2 | 17.7 | 16.2           | 16.7              | 16.7 | 17.2 | 17.7 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.6    |        |      |      |      | + 0.3 / - 0.6  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 1.0  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

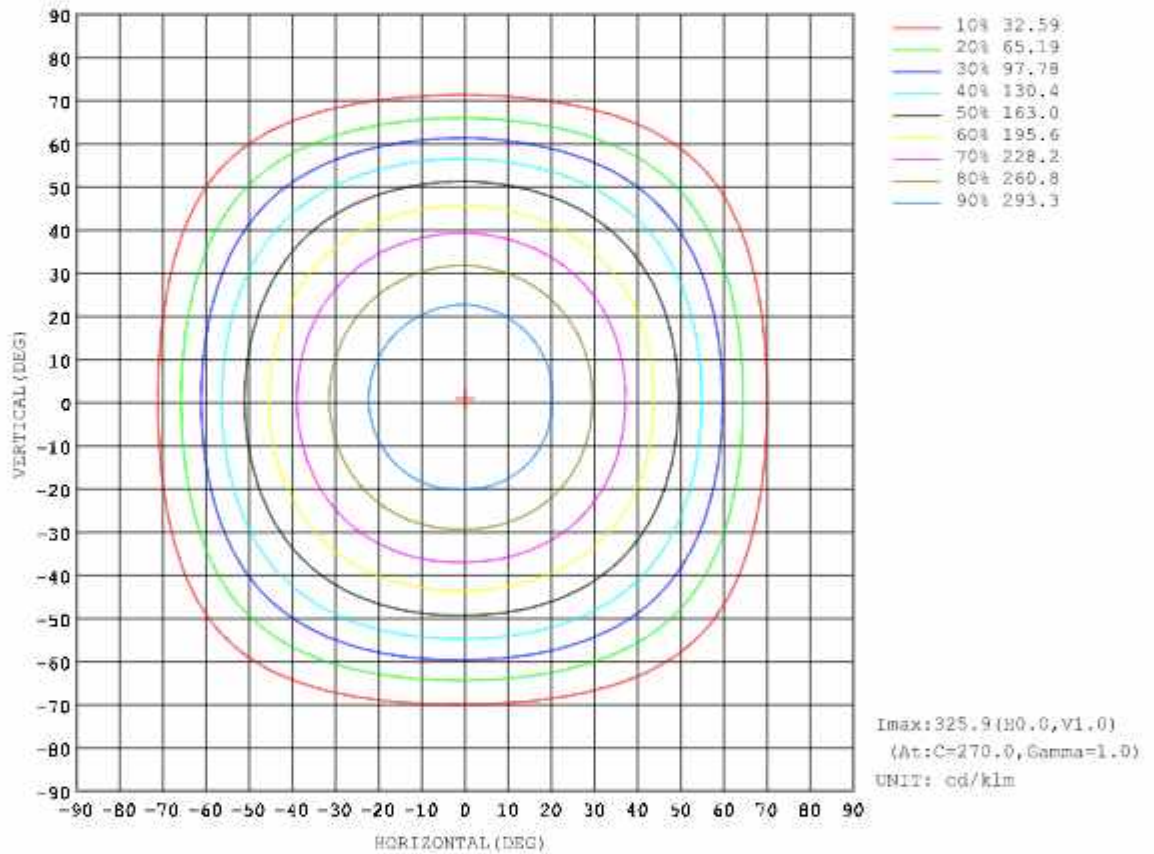
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| $k = 0.60$                       | 47   | 39  | 34        | 47  | 39  | 34  | 46            | 38  | 33  | 29     |
| 0.80                             | 55   | 47  | 42        | 54  | 47  | 42  | 53            | 46  | 41  | 36     |
| 1.00                             | 62   | 54  | 49        | 61  | 54  | 49  | 59            | 54  | 48  | 43     |
| 1.25                             | 67   | 60  | 55        | 66  | 60  | 55  | 64            | 58  | 54  | 49     |
| 1.50                             | 71   | 64  | 59        | 70  | 64  | 59  | 67            | 62  | 58  | 53     |
| 2.00                             | 76   | 70  | 66        | 74  | 69  | 65  | 72            | 67  | 64  | 58     |
| 2.50                             | 79   | 73  | 69        | 77  | 72  | 68  | 74            | 70  | 67  | 60     |
| 3.00                             | 81   | 76  | 73        | 79  | 75  | 72  | 76            | 73  | 70  | 63     |
| 4.00                             | 84   | 80  | 77        | 82  | 78  | 75  | 78            | 75  | 73  | 66     |
| 5.00                             | 85   | 82  | 79        | 83  | 80  | 78  | 79            | 77  | 75  | 68     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

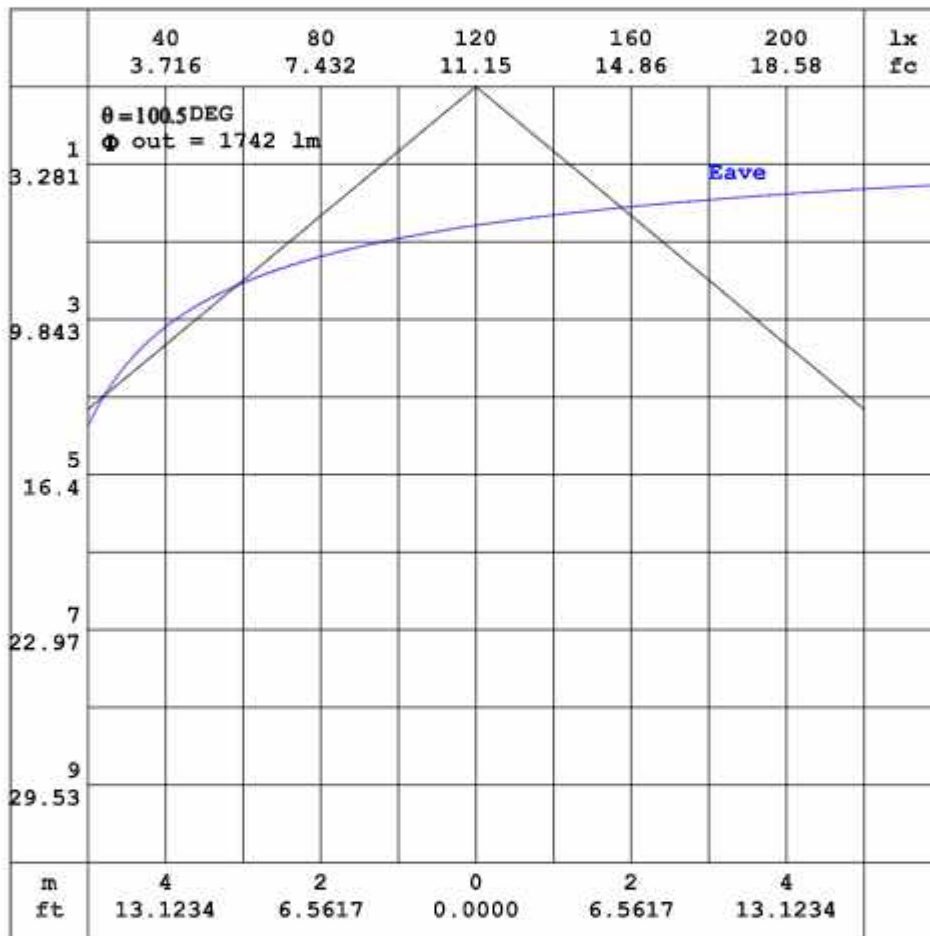


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

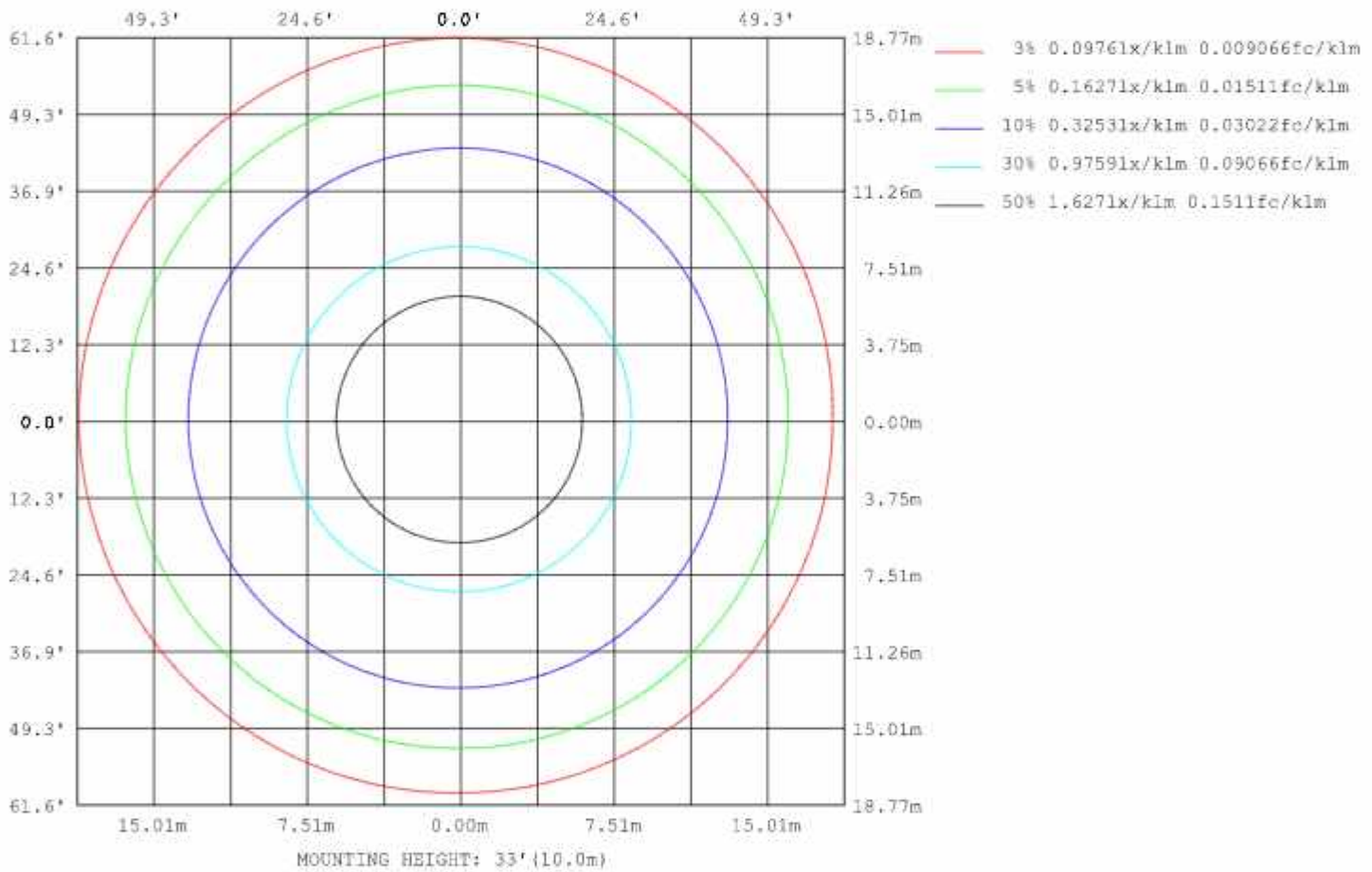
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

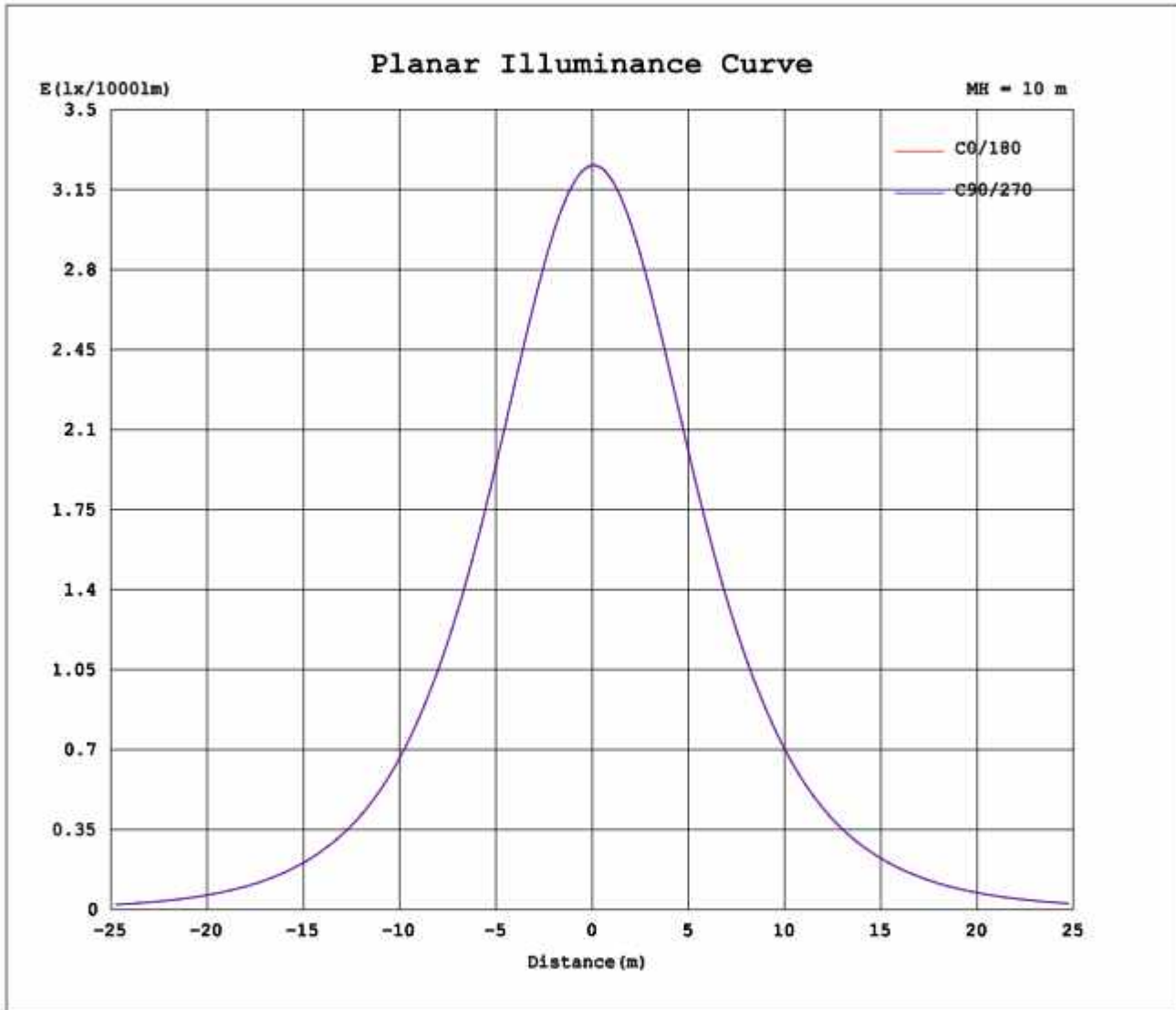
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 325  | 326  | 325  | 326  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 323  | 323  | 324  | 325  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 316  | 317  | 320  | 321  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 307  | 307  | 312  | 313  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 294  | 294  | 300  | 301  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 278  | 277  | 285  | 286  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 259  | 258  | 266  | 268  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 238  | 237  | 246  | 248  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 215  | 214  | 223  | 225  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 188  | 187  | 198  | 199  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 160  | 159  | 169  | 171  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 129  | 128  | 139  | 141  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 95.6 | 95.0 | 106  | 107  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 61.1 | 60.3 | 70.9 | 72.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 32.6 | 32.0 | 38.5 | 39.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 16.3 | 16.2 | 18.2 | 18.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 9.95 | 9.94 | 9.76 | 9.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 5.35 | 5.30 | 5.22 | 5.17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 2.99 | 2.96 | 1.53 | 1.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 2.97 | 2.97 | 1.27 | 1.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 2.99 | 2.99 | 1.41 | 1.40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 3.00 | 3.01 | 1.57 | 1.56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 3.03 | 3.04 | 1.74 | 1.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 3.07 | 3.08 | 1.91 | 1.89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 3.11 | 3.12 | 2.08 | 2.07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 3.17 | 3.17 | 2.25 | 2.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 3.22 | 3.21 | 2.41 | 2.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 3.28 | 3.27 | 2.57 | 2.54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 3.34 | 3.34 | 2.72 | 2.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 3.43 | 3.42 | 2.88 | 2.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 3.52 | 3.52 | 3.05 | 3.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 3.63 | 3.63 | 3.23 | 3.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 3.73 | 3.73 | 3.40 | 3.41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 3.82 | 3.85 | 3.57 | 3.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 3.89 | 3.92 | 3.72 | 3.73 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 3.93 | 3.95 | 3.83 | 3.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 3.92 | 3.94 | 3.91 | 3.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

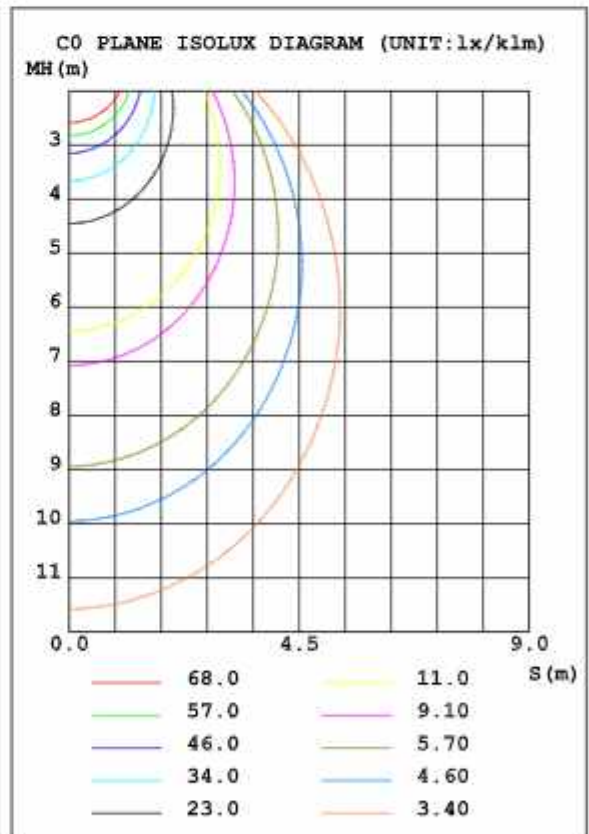
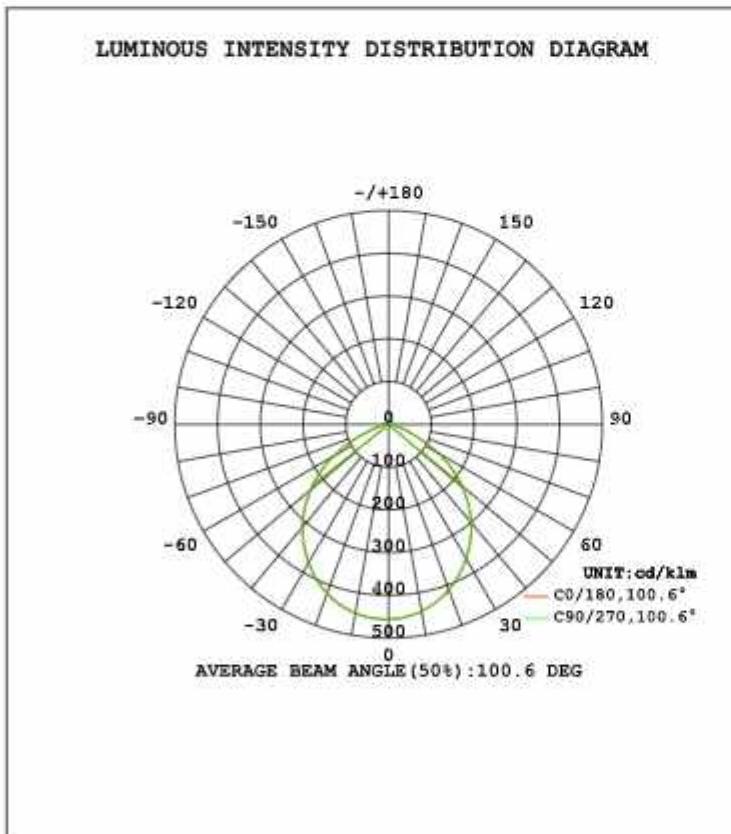
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 456.4  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 20           | LOR (%)             | 108.7  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1087.2 | $\eta$ UP, DN (C0-180)   | 1.4, 51.7 |
| NOMINAL FLUX (lm) | 2409.17      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.9, 54.6 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.3    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 106.4  | CIBSE SHR MAX            | 1.35      |



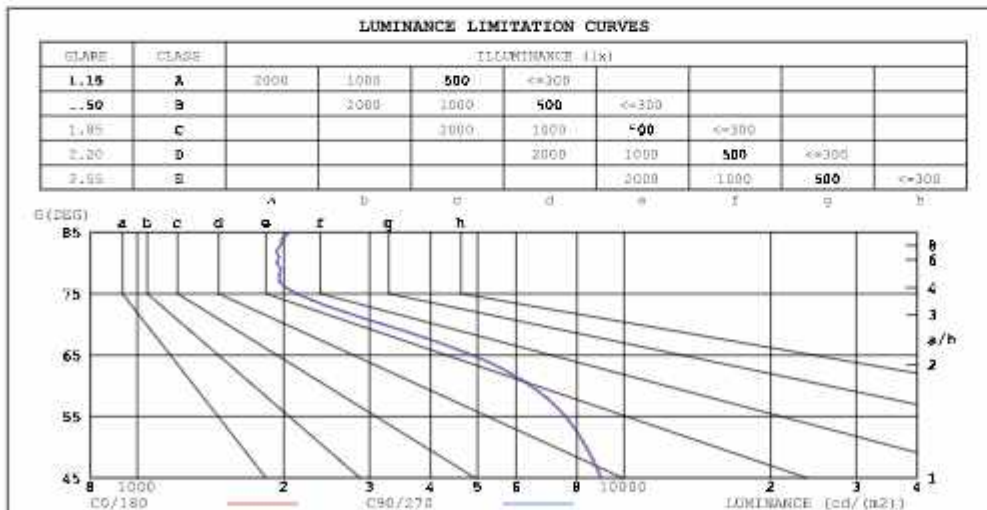
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\%lum, lamp$ |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|---------------|--|
| 10       | 443.5                     | 443.7 | 448.3 | 448.9 |  |  |  | 0- 10       | 43.06       | 43.06        | 3.96, 4.31    |  |
| 20       | 412.0                     | 411.5 | 420.3 | 422.0 |  |  |  | 10- 20      | 122.2       | 165.3        | 13.2, 16.5    |  |
| 30       | 362.9                     | 361.4 | 373.7 | 375.5 |  |  |  | 20- 30      | 181.6       | 346.9        | 31.9, 34.7    |  |
| 40       | 301.0                     | 299.7 | 313.2 | 315.4 |  |  |  | 30- 40      | 212.0       | 558.9        | 51.4, 55.9    |  |
| 50       | 223.9                     | 222.2 | 237.2 | 239.0 |  |  |  | 40- 50      | 268.3       | 767.2        | 70.6, 76.7    |  |
| 60       | 133.8                     | 133.0 | 148.3 | 150.0 |  |  |  | 50- 60      | 167.2       | 934.4        | 85.9, 93.4    |  |
| 70       | 45.68                     | 45.25 | 54.48 | 56.05 |  |  |  | 60- 70      | 92.51       | 1027         | 94.5, 103     |  |
| 80       | 13.91                     | 13.95 | 13.66 | 13.68 |  |  |  | 70- 80      | 28.50       | 1055         | 97.1, 106     |  |
| 90       | 4.115                     | 4.122 | 2.126 | 2.043 |  |  |  | 80- 90      | 8.323       | 1064         | 97.8, 106     |  |
| 100      | 4.154                     | 4.170 | 1.965 | 1.944 |  |  |  | 90-100      | 3.232       | 1067         | 98.1, 107     |  |
| 110      | 4.221                     | 4.238 | 2.421 | 2.392 |  |  |  | 100-110     | 3.368       | 1070         | 98.4, 107     |  |
| 120      | 4.338                     | 4.349 | 2.900 | 2.870 |  |  |  | 110-120     | 3.437       | 1074         | 98.8, 107     |  |
| 130      | 4.487                     | 4.480 | 3.361 | 3.327 |  |  |  | 120-130     | 3.375       | 1077         | 99.1, 108     |  |
| 140      | 4.670                     | 4.655 | 3.797 | 3.762 |  |  |  | 130-140     | 3.143       | 1080         | 99.4, 108     |  |
| 150      | 4.917                     | 4.903 | 4.253 | 4.243 |  |  |  | 140-150     | 2.756       | 1083         | 99.6, 108     |  |
| 160      | 5.211                     | 5.216 | 4.748 | 4.760 |  |  |  | 150-160     | 2.207       | 1085         | 99.8, 109     |  |
| 170      | 5.435                     | 5.457 | 5.182 | 5.198 |  |  |  | 160-170     | 1.458       | 1087         | 100, 109      |  |
| 180      | 5.471                     | 5.486 | 5.453 | 5.489 |  |  |  | 170-180     | 0.5146      | 1087         | 100, 109      |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |               |  |



| LUMINANCE cd / (m2) |        |         |
|---------------------|--------|---------|
| $\theta$ (DEG)      | C0/180 | C90/270 |
| 85                  | 2067   | 2049    |
| 80                  | 1930   | 1935    |
| 75                  | 2124   | 2122    |
| 70                  | 3218   | 3187    |
| 65                  | 4883   | 4862    |
| 60                  | 6447   | 6409    |
| 55                  | 7596   | 7544    |
| 50                  | 8392   | 8329    |
| 45                  | 8998   | 8944    |

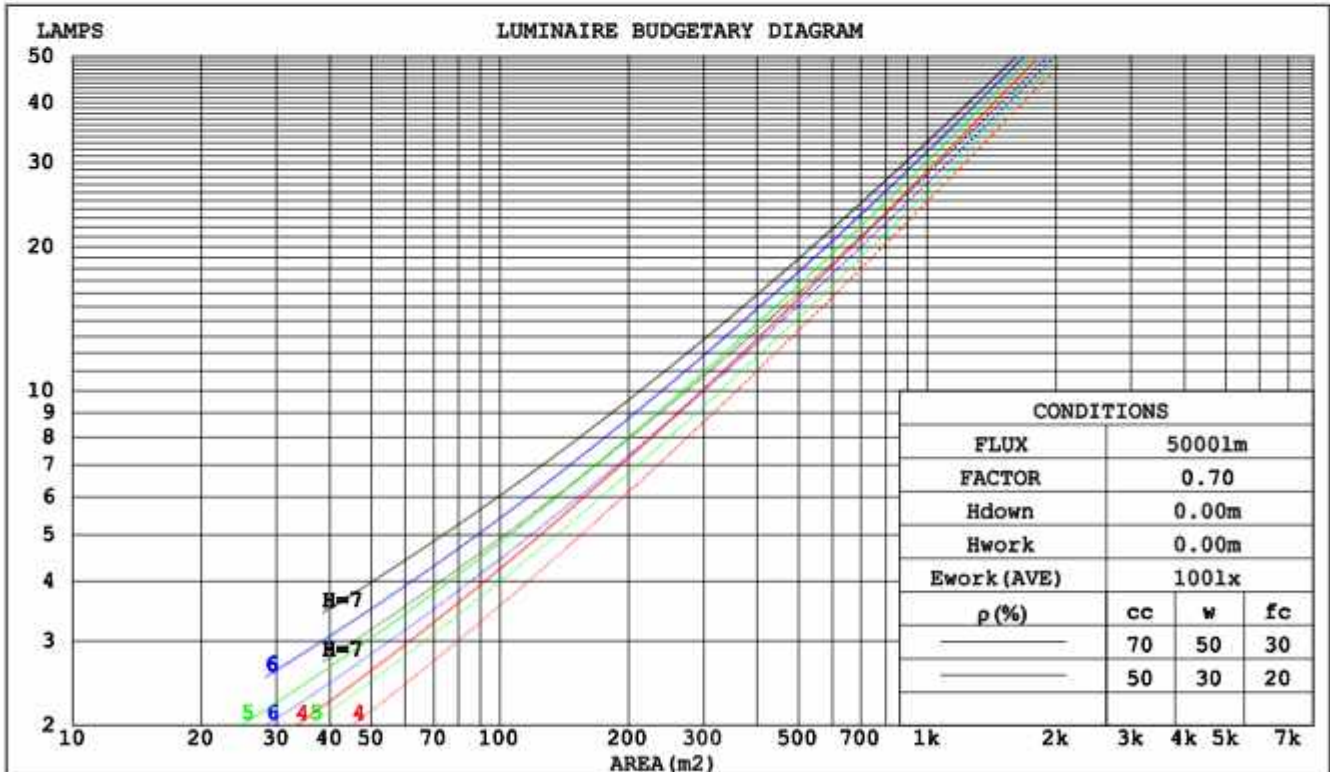
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0    |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| pw   | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0.0  | 1.29                            | 1.29 | 1.29 | 1.26 | 1.26 | 1.26 | 1.19 | 1.19 | 1.19 | 1.14 | 1.14 | 1.14 | 1.09 | 1.09 | 1.09 | 1.06 |
| 1.0  | 1.15                            | 1.11 | 1.07 | 1.12 | 1.09 | 1.05 | 1.07 | 1.04 | 1.02 | 1.03 | 1.00 | .98  | .98  | .97  | .95  | .93  |
| 2.0  | 1.02                            | .95  | .90  | .90  | .94  | .89  | .95  | .90  | .86  | .92  | .88  | .84  | .88  | .85  | .82  | .79  |
| 3.0  | .90                             | .82  | .76  | .89  | .81  | .75  | .85  | .79  | .74  | .82  | .77  | .72  | .79  | .74  | .71  | .68  |
| 4.0  | .81                             | .72  | .65  | .79  | .71  | .65  | .76  | .69  | .64  | .74  | .68  | .63  | .71  | .66  | .62  | .59  |
| 5.0  | .73                             | .64  | .57  | .71  | .63  | .56  | .69  | .61  | .56  | .67  | .60  | .55  | .64  | .59  | .54  | .52  |
| 6.0  | .66                             | .57  | .50  | .65  | .56  | .50  | .62  | .55  | .49  | .60  | .54  | .49  | .59  | .53  | .48  | .46  |
| 7.0  | .60                             | .51  | .44  | .59  | .50  | .44  | .57  | .49  | .44  | .55  | .48  | .43  | .54  | .48  | .43  | .41  |
| 8.0  | .55                             | .46  | .40  | .54  | .45  | .40  | .52  | .45  | .39  | .51  | .44  | .39  | .49  | .43  | .39  | .37  |
| 9.0  | .50                             | .42  | .36  | .50  | .41  | .36  | .48  | .41  | .36  | .47  | .40  | .35  | .46  | .39  | .35  | .33  |
| 10.0 | .46                             | .38  | .33  | .46  | .38  | .33  | .45  | .37  | .32  | .43  | .37  | .32  | .42  | .36  | .32  | .30  |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .288                  | .164 | .052 | .280 | .160 | .051 | .264                            | .152 | .048 | .250 | .144 | .046 | .237 | .137 | .044 |   |
| 2.0  | .278                  | .152 | .047 | .271 | .149 | .046 | .257                            | .143 | .044 | .245 | .137 | .043 | .233 | .132 | .042 |   |
| 3.0  | .263                  | .140 | .042 | .257 | .137 | .041 | .244                            | .132 | .040 | .233 | .128 | .039 | .223 | .123 | .038 |   |
| 4.0  | .247                  | .128 | .038 | .241 | .126 | .037 | .230                            | .122 | .036 | .220 | .118 | .036 | .211 | .115 | .035 |   |
| 5.0  | .231                  | .118 | .034 | .226 | .116 | .034 | .216                            | .113 | .033 | .208 | .109 | .033 | .199 | .106 | .032 |   |
| 6.0  | .216                  | .108 | .031 | .212 | .107 | .031 | .203                            | .104 | .030 | .195 | .102 | .030 | .188 | .099 | .029 |   |
| 7.0  | .203                  | .100 | .028 | .199 | .099 | .028 | .191                            | .097 | .028 | .184 | .094 | .027 | .177 | .092 | .027 |   |
| 8.0  | .191                  | .093 | .026 | .187 | .092 | .026 | .180                            | .090 | .026 | .174 | .088 | .025 | .168 | .086 | .025 |   |
| 9.0  | .180                  | .087 | .024 | .177 | .086 | .024 | .170                            | .084 | .024 | .164 | .082 | .024 | .159 | .081 | .023 |   |
| 10.0 | .170                  | .081 | .023 | .167 | .081 | .022 | .161                            | .079 | .022 | .156 | .077 | .022 | .151 | .076 | .022 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .225                  | .225 | .225 | .192 | .192 | .192 | .131                                       | .131 | .131 | .075 | .075 | .075 | .024 | .024 | .024 |   |
| 1.0  | .211                  | .188 | .168 | .180 | .162 | .145 | .123                                       | .111 | .100 | .071 | .064 | .058 | .023 | .021 | .019 |   |
| 2.0  | .200                  | .162 | .129 | .171 | .139 | .112 | .118                                       | .096 | .078 | .068 | .056 | .046 | .022 | .018 | .015 |   |
| 3.0  | .191                  | .142 | .103 | .164 | .123 | .090 | .113                                       | .085 | .063 | .065 | .050 | .037 | .021 | .016 | .012 |   |
| 4.0  | .183                  | .128 | .085 | .157 | .110 | .074 | .108                                       | .077 | .052 | .062 | .045 | .031 | .020 | .015 | .010 |   |
| 5.0  | .175                  | .116 | .073 | .150 | .100 | .063 | .104                                       | .070 | .045 | .060 | .041 | .026 | .019 | .013 | .009 |   |
| 6.0  | .168                  | .107 | .063 | .144 | .093 | .055 | .099                                       | .065 | .039 | .058 | .038 | .023 | .019 | .012 | .008 |   |
| 7.0  | .161                  | .099 | .056 | .138 | .086 | .049 | .096                                       | .060 | .035 | .056 | .036 | .021 | .018 | .012 | .007 |   |
| 8.0  | .154                  | .093 | .051 | .133 | .081 | .045 | .092                                       | .057 | .032 | .053 | .033 | .019 | .017 | .011 | .006 |   |
| 9.0  | .148                  | .088 | .047 | .128 | .076 | .041 | .088                                       | .054 | .029 | .051 | .032 | .017 | .017 | .010 | .006 |   |
| 10.0 | .142                  | .083 | .044 | .123 | .072 | .038 | .085                                       | .051 | .027 | .050 | .030 | .016 | .016 | .010 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |        | TYPE:            |      |      |      |      | WEIGHT:           |      |      |      |      |
|--|--------|------------------|------|------|------|------|-------------------|------|------|------|------|
| DIM.:  |        | SPEC.:           |      |      |      |      | SERIAL No.:       |      |      |      |      |
| MFR.: HXD  |        | SUR.:            |      |      |      |      | PROTECTION ANGLE: |      |      |      |      |
| ceiling/cavity                                     |        | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7               | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  |        | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5               | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      |        | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    |        | Viewed crosswise |      |      |      |      | Viewed endwise    |      |      |      |      |
| x = 2H   | y = 2H | 16.3             | 17.7 | 16.6 | 18.0 | 18.2 | 16.3              | 17.7 | 16.6 | 17.9 | 18.2 |
|  | 3H     | 16.8             | 18.1 | 17.1 | 18.3 | 18.6 | 16.8              | 18.0 | 17.1 | 18.3 | 18.6 |
|  | 4H     | 16.8             | 18.0 | 17.2 | 18.3 | 18.6 | 16.8              | 18.0 | 17.1 | 18.3 | 18.6 |
|  | 6H     | 16.8             | 18.0 | 17.2 | 18.3 | 18.6 | 16.8              | 17.9 | 17.2 | 18.2 | 18.6 |
|  | 8H     | 16.8             | 17.9 | 17.2 | 18.2 | 18.6 | 16.8              | 17.9 | 17.2 | 18.2 | 18.5 |
|  | 12H    | 16.8             | 17.9 | 17.2 | 18.2 | 18.5 | 16.8              | 17.8 | 17.2 | 18.2 | 18.5 |
| 4H   | 2H     | 16.6             | 17.8 | 17.0 | 18.1 | 18.4 | 16.6              | 17.8 | 16.9 | 18.1 | 18.4 |
|  | 3H     | 17.2             | 18.2 | 17.5 | 18.5 | 18.9 | 17.1              | 18.2 | 17.5 | 18.5 | 18.8 |
|  | 4H     | 17.2             | 18.2 | 17.6 | 18.5 | 18.9 | 17.2              | 18.2 | 17.6 | 18.5 | 18.9 |
|  | 6H     | 17.3             | 18.1 | 17.7 | 18.5 | 18.9 | 17.3              | 18.1 | 17.7 | 18.5 | 18.9 |
|  | 8H     | 17.3             | 18.1 | 17.8 | 18.5 | 18.9 | 17.3              | 18.1 | 17.7 | 18.5 | 18.9 |
|  | 12H    | 17.3             | 18.0 | 17.8 | 18.5 | 18.9 | 17.3              | 18.0 | 17.8 | 18.4 | 18.9 |
| 8H   | 4H     | 17.2             | 18.0 | 17.6 | 18.4 | 18.8 | 17.2              | 17.9 | 17.6 | 18.3 | 18.8 |
|  | 6H     | 17.3             | 18.0 | 17.8 | 18.4 | 18.9 | 17.3              | 17.9 | 17.8 | 18.4 | 18.8 |
|  | 8H     | 17.4             | 17.9 | 17.9 | 18.4 | 18.9 | 17.4              | 17.9 | 17.9 | 18.4 | 18.9 |
|  | 12H    | 17.5             | 17.9 | 18.0 | 18.4 | 18.9 | 17.4              | 17.9 | 17.9 | 18.4 | 18.9 |
| 12H  | 4H     | 17.2             | 17.9 | 17.6 | 18.3 | 18.7 | 17.1              | 17.8 | 17.6 | 18.3 | 18.7 |
|  | 6H     | 17.3             | 17.9 | 17.8 | 18.3 | 18.8 | 17.3              | 17.8 | 17.8 | 18.3 | 18.8 |
|  | 8H     | 17.4             | 17.9 | 17.9 | 18.4 | 18.9 | 17.4              | 17.8 | 17.9 | 18.3 | 18.9 |
| Variations with the observer position at spacings: |        |                  |      |      |      |      |                   |      |      |      |      |
| S = 1.0H   |        | + 0.4 / - 0.5    |      |      |      |      | + 0.4 / - 0.5     |      |      |      |      |
| 1.5H   |        | + 0.3 / - 0.5    |      |      |      |      | + 0.3 / - 0.6     |      |      |      |      |
| 2.0H   |        | + 0.8 / - 1.0    |      |      |      |      | + 0.8 / - 1.0     |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

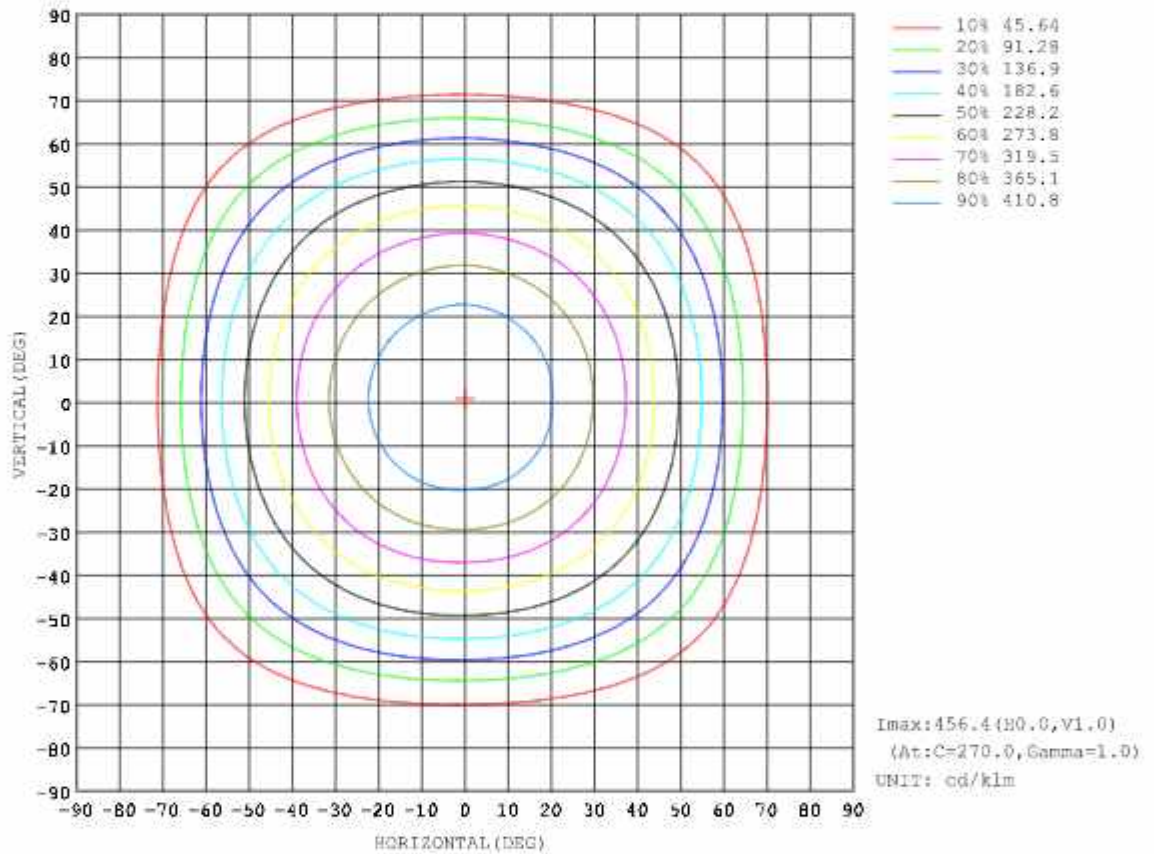
| REFLECTANCE                      |  |     |           |     |     |     |              |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|--------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5          | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7          | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2          | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |              |     |     |        |
| $k = 0.60$                       | 66   | 54  | 47        | 65  | 54  | 47  | 64           | 53  | 47  | 40     |
| 0.80                             | 77   | 66  | 58        | 76  | 65  | 58  | 74           | 64  | 58  | 51     |
| 1.00                             | 87   | 76  | 69        | 86  | 75  | 68  | 83           | 76  | 68  | 60     |
| 1.25                             | 94   | 84  | 77        | 93  | 83  | 77  | 90           | 82  | 76  | 68     |
| 1.50                             | 100  | 90  | 83        | 98  | 89  | 83  | 94           | 87  | 81  | 74     |
| 2.00                             | 106  | 98  | 92        | 104 | 97  | 91  | 101          | 94  | 89  | 81     |
| 2.50                             | 110  | 103 | 97        | 108 | 101 | 96  | 104          | 98  | 94  | 85     |
| 3.00                             | 113  | 107 | 102       | 111 | 105 | 100 | 106          | 102 | 98  | 88     |
| 4.00                             | 117  | 112 | 107       | 114 | 110 | 106 | 110          | 106 | 102 | 93     |
| 5.00                             | 119  | 115 | 111       | 117 | 112 | 109 | 111          | 108 | 105 | 95     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |              |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

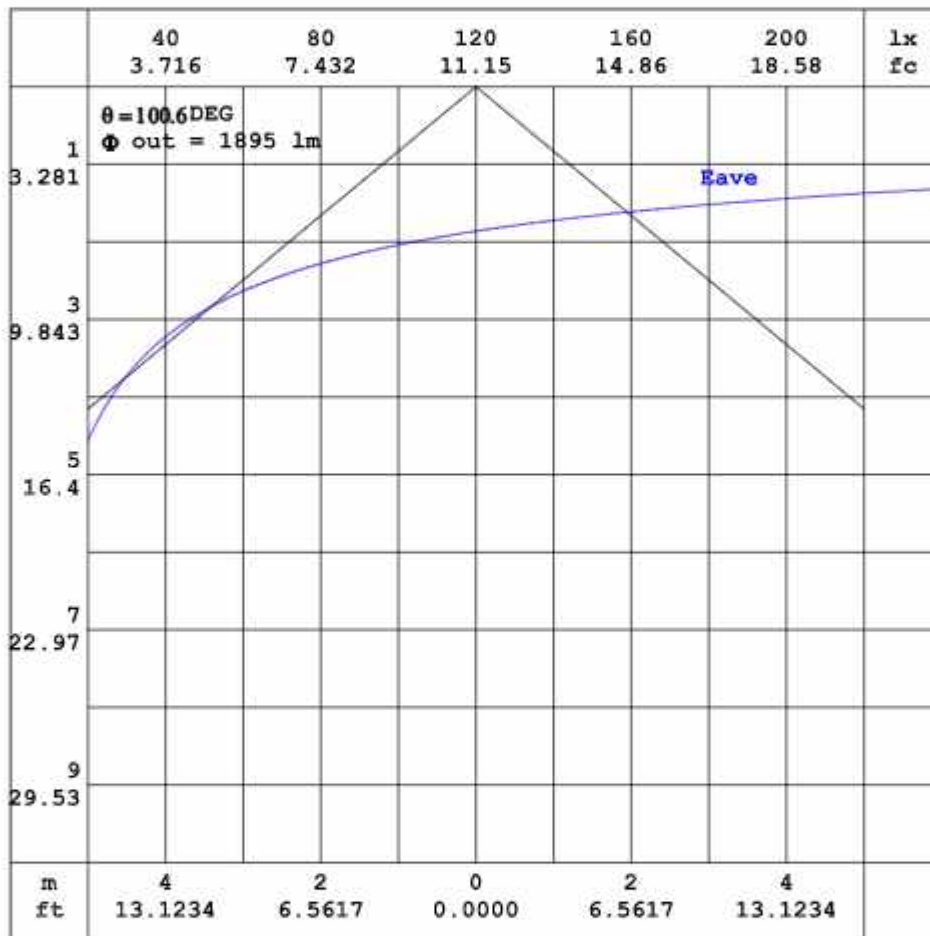


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**AAI CURVES**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



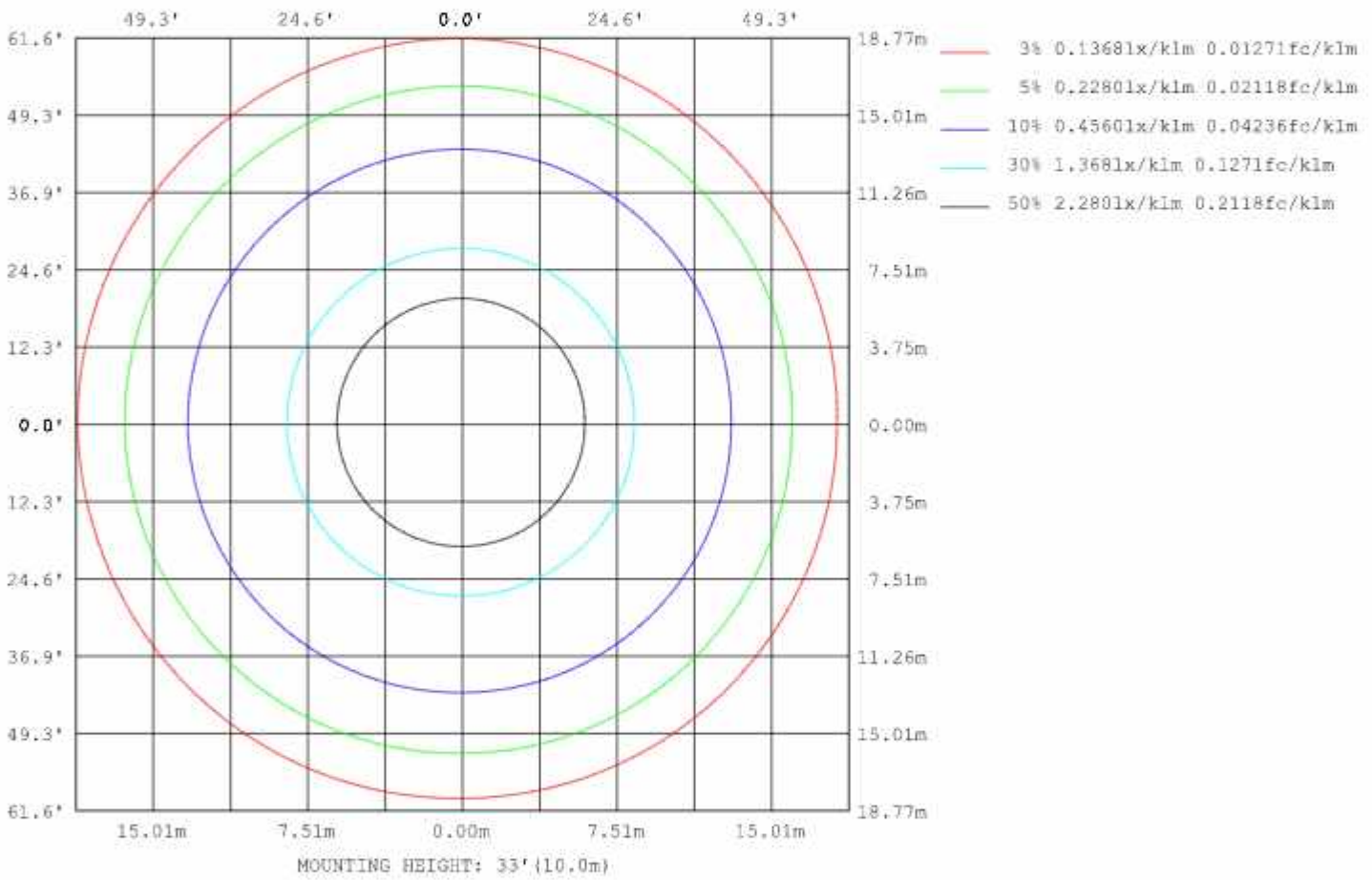
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

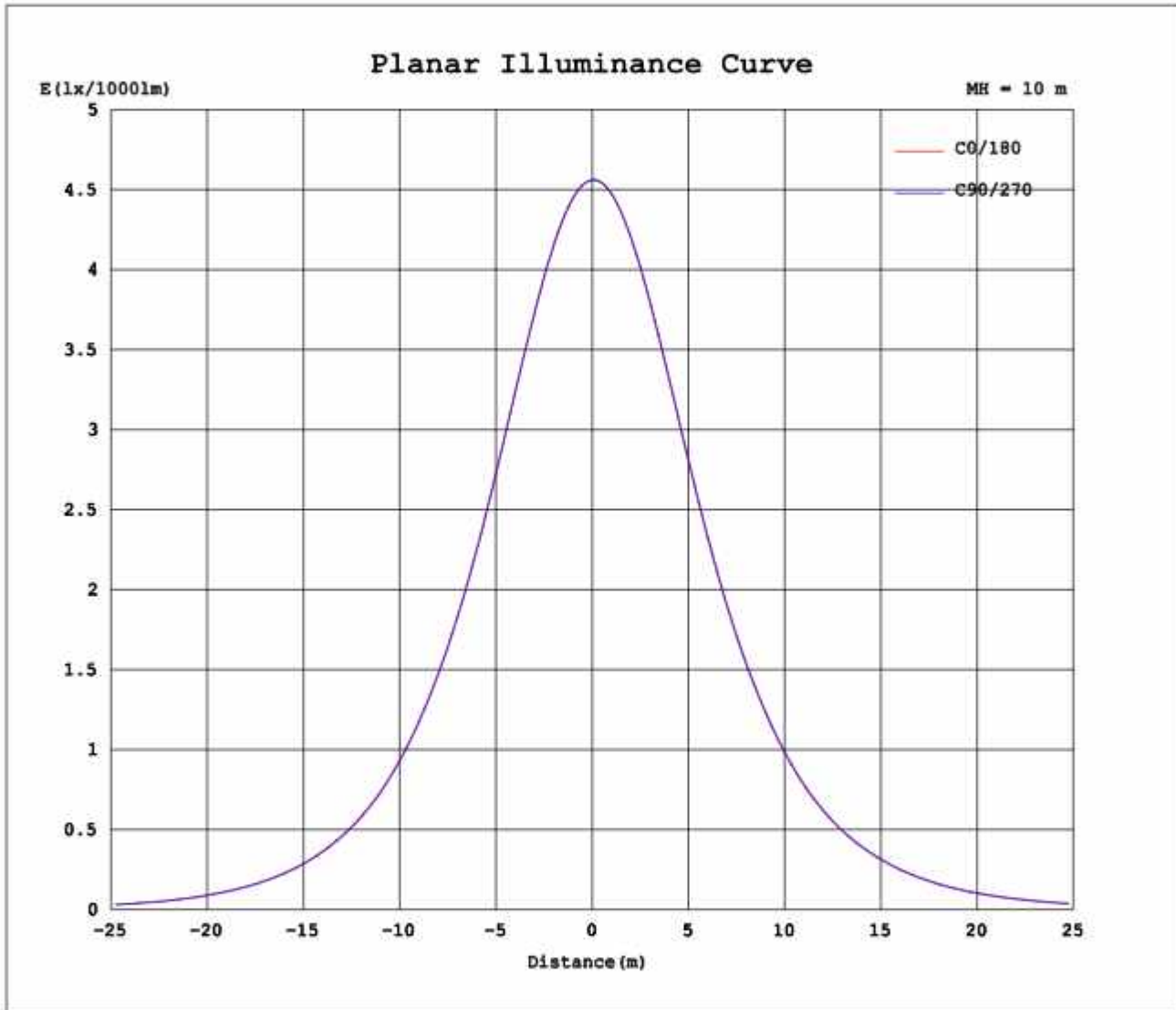
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 456  | 456  | 456  | 456  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 452  | 452  | 455  | 455  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 443  | 444  | 448  | 449  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 430  | 430  | 437  | 438  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 412  | 412  | 420  | 422  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 389  | 389  | 399  | 401  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 363  | 361  | 374  | 376  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 333  | 332  | 345  | 347  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 301  | 300  | 313  | 315  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 264  | 263  | 277  | 279  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 224  | 222  | 237  | 239  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 181  | 180  | 195  | 197  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 134  | 133  | 148  | 150  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 85.6 | 85.3 | 99.5 | 101  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 45.7 | 45.2 | 54.5 | 56.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 22.8 | 22.8 | 25.8 | 26.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 13.9 | 13.9 | 13.7 | 13.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 7.48 | 7.41 | 7.31 | 7.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 4.12 | 4.12 | 2.13 | 2.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 4.14 | 4.15 | 1.76 | 1.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 4.15 | 4.17 | 1.97 | 1.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 4.19 | 4.20 | 2.18 | 2.16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 4.22 | 4.24 | 2.42 | 2.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 4.27 | 4.29 | 2.66 | 2.63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 4.34 | 4.35 | 2.90 | 2.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 4.41 | 4.41 | 3.14 | 3.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 4.49 | 4.48 | 3.36 | 3.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 4.57 | 4.56 | 3.58 | 3.54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 4.67 | 4.65 | 3.80 | 3.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 4.79 | 4.77 | 4.02 | 4.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 4.92 | 4.90 | 4.25 | 4.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 5.06 | 5.06 | 4.50 | 4.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 5.21 | 5.22 | 4.75 | 4.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 5.34 | 5.35 | 4.98 | 4.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 5.43 | 5.46 | 5.18 | 5.20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 5.49 | 5.51 | 5.35 | 5.37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 5.47 | 5.49 | 5.45 | 5.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

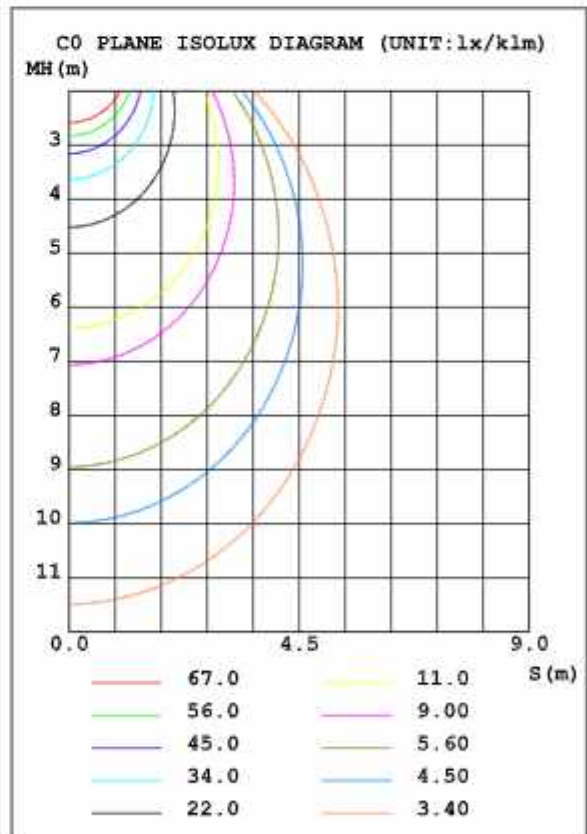
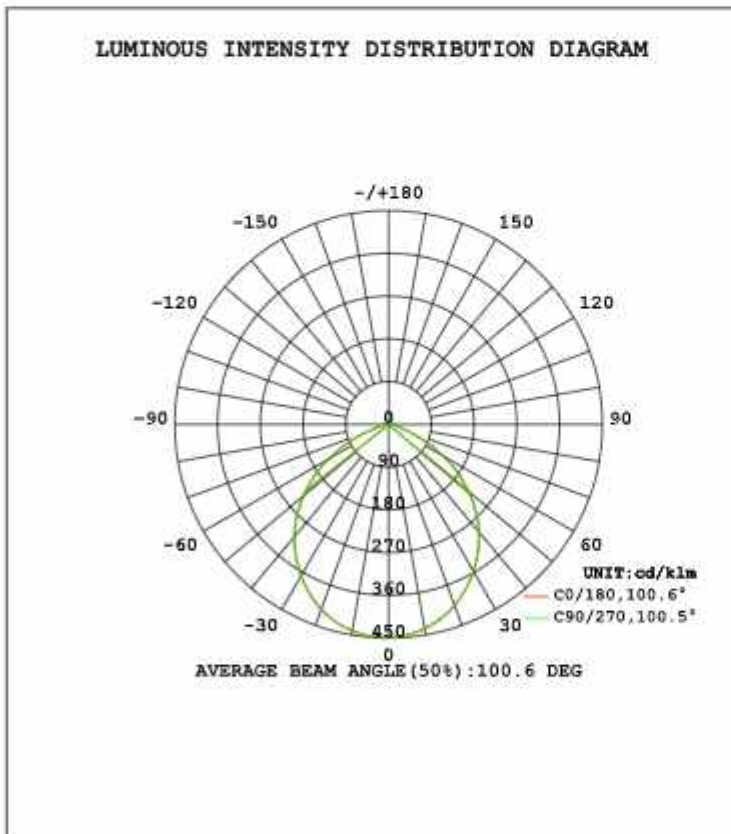
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 449.5  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 20           | LOR (%)             | 107.1  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1070.7 | $\eta$ UP, DN (C0-180)   | 1.4, 50.9 |
| NOMINAL FLUX (lm) | 2619.23      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.9, 53.8 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.3    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 104.8  | CIBSE SHR MAX            | 1.35      |



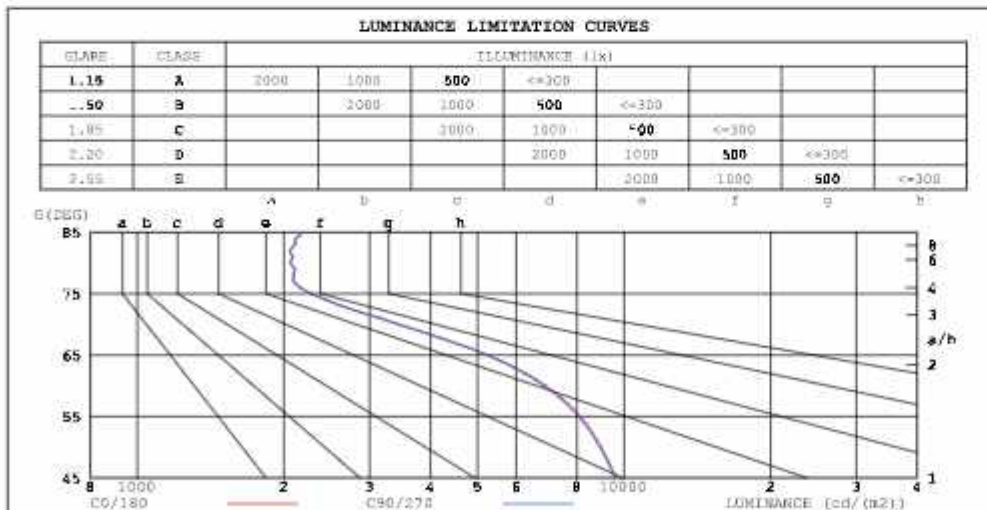
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|--|
| 10       | 436.8                     | 436.7 | 441.5 | 441.9 |  |  |  | 0- 10       | 42.40       | 42.40        | 3.96, 4.24       |  |
| 20       | 405.9                     | 405.4 | 414.1 | 415.3 |  |  |  | 10- 20      | 120.4       | 162.8        | 13.2, 16.3       |  |
| 30       | 357.4                     | 356.2 | 367.9 | 369.9 |  |  |  | 20- 30      | 178.8       | 341.6        | 31.9, 34.2       |  |
| 40       | 296.7                     | 295.2 | 308.6 | 310.6 |  |  |  | 30- 40      | 268.8       | 550.4        | 51.4, 55         |  |
| 50       | 220.2                     | 218.7 | 233.7 | 235.3 |  |  |  | 40- 50      | 265.2       | 755.6        | 70.6, 75.6       |  |
| 60       | 131.7                     | 130.6 | 145.8 | 147.6 |  |  |  | 50- 60      | 164.5       | 920.1        | 85.9, 92         |  |
| 70       | 45.13                     | 44.68 | 54.00 | 55.73 |  |  |  | 60- 70      | 91.24       | 1011         | 94.5, 101        |  |
| 80       | 13.66                     | 13.67 | 13.47 | 13.49 |  |  |  | 70- 80      | 28.17       | 1039         | 97.1, 104        |  |
| 90       | 4.044                     | 4.041 | 2.075 | 2.006 |  |  |  | 80- 90      | 8.180       | 1048         | 97.8, 105        |  |
| 100      | 4.090                     | 4.089 | 1.916 | 1.904 |  |  |  | 90-100      | 3.170       | 1051         | 98.1, 105        |  |
| 110      | 4.151                     | 4.155 | 2.371 | 2.344 |  |  |  | 100-110     | 3.302       | 1054         | 98.5, 105        |  |
| 120      | 4.267                     | 4.265 | 2.841 | 2.815 |  |  |  | 110-120     | 3.372       | 1058         | 98.8, 106        |  |
| 130      | 4.420                     | 4.394 | 3.298 | 3.260 |  |  |  | 120-130     | 3.314       | 1061         | 99.1, 106        |  |
| 140      | 4.590                     | 4.564 | 3.725 | 3.692 |  |  |  | 130-140     | 3.087       | 1064         | 99.4, 106        |  |
| 150      | 4.829                     | 4.813 | 4.174 | 4.174 |  |  |  | 140-150     | 2.707       | 1067         | 99.6, 107        |  |
| 160      | 5.124                     | 5.116 | 4.660 | 4.676 |  |  |  | 150-160     | 2.167       | 1069         | 99.8, 107        |  |
| 170      | 5.336                     | 5.355 | 5.089 | 5.109 |  |  |  | 160-170     | 1.432       | 1070         | 100, 107         |  |
| 180      | 5.370                     | 5.383 | 5.358 | 5.390 |  |  |  | 170-180     | 0.5052      | 1071         | 100, 107         |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |  |



| LUMINANCE cd / (m2) |        |         |
|---------------------|--------|---------|
| G (DEG)             | C0/180 | C90/270 |
| 85                  | 2203   | 2193    |
| 80                  | 2061   | 2062    |
| 75                  | 2275   | 2271    |
| 70                  | 3456   | 3422    |
| 65                  | 5243   | 5231    |
| 60                  | 6898   | 6843    |
| 55                  | 8121   | 8065    |
| 50                  | 8972   | 8910    |
| 45                  | 9629   | 9569    |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

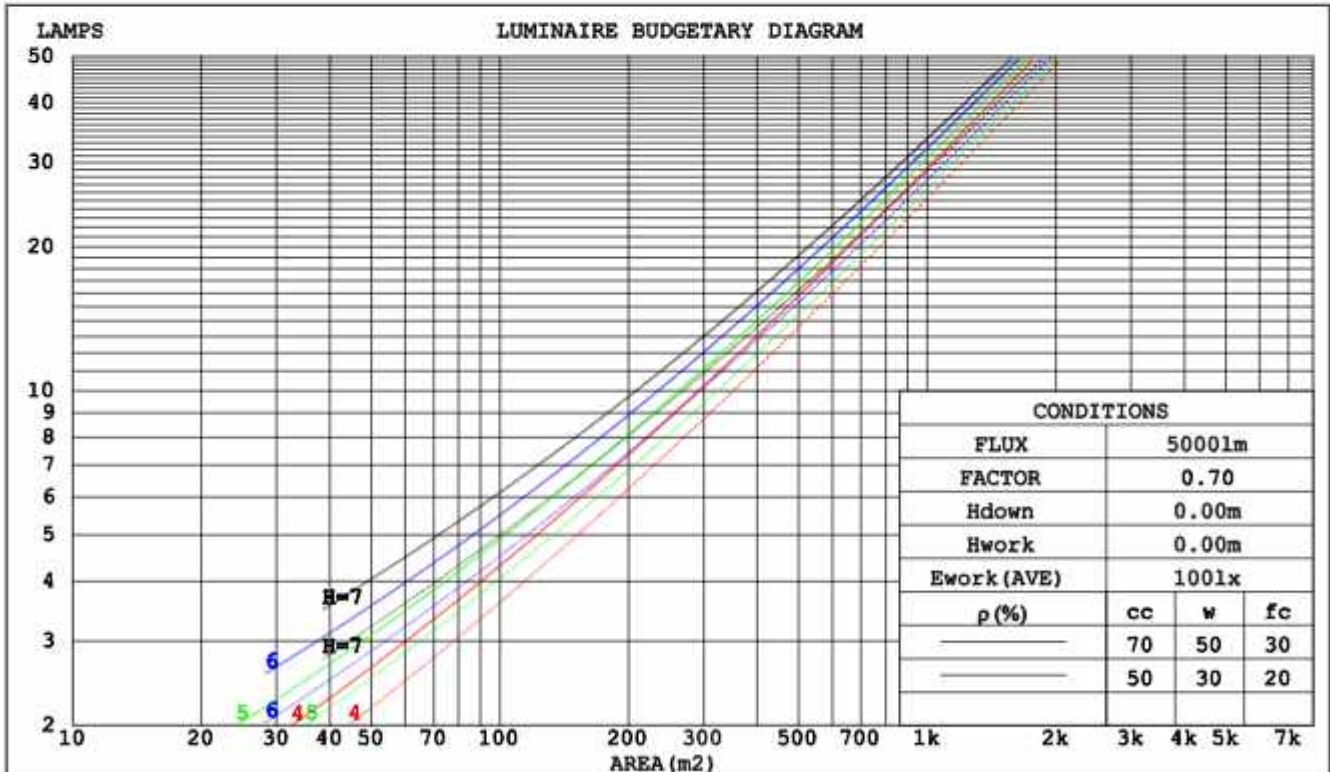
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:



## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0    |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| pw   | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0.0  | 1.27                            | 1.27 | 1.27 | 1.24 | 1.24 | 1.24 | 1.18 | 1.18 | 1.18 | 1.12 | 1.12 | 1.12 | 1.07 | 1.07 | 1.07 | 1.05 |
| 1.0  | 1.13                            | 1.09 | 1.06 | 1.11 | 1.07 | 1.04 | 1.06 | 1.03 | 1.00 | 1.01 | .99  | .97  | .97  | .95  | .93  | .91  |
| 2.0  | 1.00                            | .94  | .88  | .98  | .92  | .87  | .94  | .89  | .85  | .90  | .86  | .83  | .87  | .83  | .80  | .78  |
| 3.0  | .89                             | .81  | .75  | .87  | .80  | .74  | .84  | .78  | .73  | .81  | .75  | .71  | .78  | .73  | .70  | .67  |
| 4.0  | .80                             | .71  | .64  | .78  | .70  | .64  | .75  | .68  | .63  | .73  | .67  | .62  | .70  | .65  | .61  | .58  |
| 5.0  | .72                             | .63  | .56  | .70  | .62  | .56  | .68  | .60  | .55  | .66  | .59  | .54  | .63  | .58  | .53  | .51  |
| 6.0  | .65                             | .56  | .49  | .64  | .55  | .49  | .62  | .54  | .48  | .60  | .53  | .48  | .58  | .52  | .47  | .45  |
| 7.0  | .59                             | .50  | .44  | .58  | .50  | .44  | .56  | .49  | .43  | .54  | .48  | .43  | .53  | .47  | .42  | .40  |
| 8.0  | .54                             | .45  | .39  | .53  | .45  | .39  | .51  | .44  | .39  | .50  | .43  | .38  | .49  | .43  | .38  | .36  |
| 9.0  | .50                             | .41  | .35  | .49  | .41  | .35  | .47  | .40  | .35  | .46  | .40  | .35  | .45  | .39  | .34  | .33  |
| 10.0 | .46                             | .38  | .32  | .45  | .37  | .32  | .44  | .37  | .32  | .43  | .36  | .32  | .42  | .36  | .31  | .30  |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .284                  | .161 | .051 | .275 | .157 | .050 | .260                            | .149 | .048 | .246 | .142 | .046 | .233 | .135 | .044 |   |
| 2.0  | .274                  | .150 | .046 | .267 | .147 | .045 | .254                            | .141 | .044 | .241 | .135 | .042 | .230 | .130 | .041 |   |
| 3.0  | .259                  | .138 | .041 | .253 | .135 | .041 | .241                            | .131 | .040 | .230 | .126 | .039 | .220 | .122 | .038 |   |
| 4.0  | .243                  | .126 | .037 | .237 | .124 | .037 | .227                            | .120 | .036 | .217 | .117 | .035 | .208 | .113 | .034 |   |
| 5.0  | .228                  | .116 | .034 | .223 | .114 | .033 | .213                            | .111 | .033 | .204 | .108 | .032 | .196 | .105 | .032 |   |
| 6.0  | .213                  | .107 | .031 | .209 | .105 | .030 | .200                            | .103 | .030 | .192 | .100 | .029 | .185 | .097 | .029 |   |
| 7.0  | .200                  | .099 | .028 | .196 | .098 | .028 | .188                            | .095 | .027 | .181 | .093 | .027 | .175 | .091 | .027 |   |
| 8.0  | .188                  | .092 | .026 | .184 | .091 | .026 | .178                            | .089 | .025 | .171 | .087 | .025 | .165 | .085 | .025 |   |
| 9.0  | .177                  | .086 | .024 | .174 | .085 | .024 | .168                            | .083 | .024 | .162 | .081 | .023 | .156 | .079 | .023 |   |
| 10.0 | .167                  | .080 | .022 | .164 | .079 | .022 | .159                            | .078 | .022 | .154 | .076 | .022 | .149 | .075 | .021 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .222                  | .222 | .222 | .189 | .189 | .189 | .129                                       | .129 | .129 | .074 | .074 | .074 | .024 | .024 | .024 |   |
| 1.0  | .207                  | .185 | .165 | .177 | .159 | .142 | .121                                       | .109 | .098 | .070 | .063 | .057 | .022 | .020 | .019 |   |
| 2.0  | .197                  | .159 | .127 | .169 | .137 | .110 | .116                                       | .095 | .077 | .067 | .055 | .045 | .021 | .018 | .015 |   |
| 3.0  | .188                  | .140 | .102 | .161 | .121 | .088 | .111                                       | .084 | .062 | .064 | .049 | .036 | .021 | .016 | .012 |   |
| 4.0  | .180                  | .126 | .084 | .155 | .109 | .073 | .106                                       | .076 | .051 | .061 | .044 | .030 | .020 | .014 | .010 |   |
| 5.0  | .172                  | .114 | .071 | .148 | .099 | .062 | .102                                       | .069 | .044 | .059 | .041 | .026 | .019 | .013 | .009 |   |
| 6.0  | .165                  | .105 | .062 | .142 | .091 | .054 | .098                                       | .064 | .038 | .057 | .038 | .023 | .018 | .012 | .008 |   |
| 7.0  | .158                  | .098 | .055 | .136 | .085 | .048 | .094                                       | .059 | .034 | .055 | .035 | .020 | .018 | .011 | .007 |   |
| 8.0  | .152                  | .092 | .050 | .131 | .079 | .044 | .090                                       | .056 | .031 | .053 | .033 | .019 | .017 | .011 | .006 |   |
| 9.0  | .146                  | .086 | .046 | .126 | .075 | .040 | .087                                       | .053 | .029 | .051 | .031 | .017 | .016 | .010 | .006 |   |
| 10.0 | .140                  | .082 | .043 | .121 | .071 | .038 | .084                                       | .050 | .027 | .049 | .030 | .016 | .016 | .010 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 16.3             | 17.7   | 16.6 | 17.9 | 18.1 | 16.3           | 17.6              | 16.5 | 17.9 | 18.1 |  |
| 3H   | 16.7             | 18.0   | 17.1 | 18.3 | 18.5 | 16.7           | 18.0              | 17.0 | 18.2 | 18.5 |  |
| 4H   | 16.8             | 18.0   | 17.1 | 18.3 | 18.6 | 16.8           | 18.0              | 17.1 | 18.2 | 18.5 |  |
| 6H   | 16.8             | 17.9   | 17.1 | 18.2 | 18.5 | 16.8           | 17.9              | 17.1 | 18.2 | 18.5 |  |
| 8H   | 16.8             | 17.9   | 17.1 | 18.2 | 18.5 | 16.8           | 17.8              | 17.1 | 18.2 | 18.5 |  |
| 12H  | 16.8             | 17.8   | 17.2 | 18.1 | 18.5 | 16.7           | 17.8              | 17.1 | 18.1 | 18.5 |  |
| 4H 2H  | 16.6             | 17.8   | 16.9 | 18.0 | 18.3 | 16.5           | 17.7              | 16.9 | 18.0 | 18.3 |  |
| 3H   | 17.1             | 18.1   | 17.5 | 18.5 | 18.8 | 17.1           | 18.1              | 17.5 | 18.4 | 18.8 |  |
| 4H   | 17.2             | 18.1   | 17.6 | 18.5 | 18.8 | 17.2           | 18.1              | 17.6 | 18.5 | 18.8 |  |
| 6H   | 17.2             | 18.1   | 17.7 | 18.5 | 18.9 | 17.2           | 18.0              | 17.6 | 18.4 | 18.8 |  |
| 8H   | 17.3             | 18.0   | 17.7 | 18.4 | 18.9 | 17.2           | 18.0              | 17.7 | 18.4 | 18.8 |  |
| 12H  | 17.3             | 18.0   | 17.7 | 18.4 | 18.9 | 17.3           | 18.0              | 17.7 | 18.4 | 18.8 |  |
| 8H 4H  | 17.2             | 17.9   | 17.6 | 18.3 | 18.7 | 17.1           | 17.9              | 17.6 | 18.3 | 18.7 |  |
| 6H   | 17.3             | 17.9   | 17.7 | 18.3 | 18.8 | 17.3           | 17.9              | 17.7 | 18.3 | 18.8 |  |
| 8H   | 17.3             | 17.9   | 17.8 | 18.4 | 18.8 | 17.3           | 17.9              | 17.8 | 18.3 | 18.8 |  |
| 12H  | 17.4             | 17.9   | 17.9 | 18.4 | 18.9 | 17.4           | 17.9              | 17.9 | 18.3 | 18.9 |  |
| 12H 4H   | 17.1             | 17.8   | 17.6 | 18.2 | 18.7 | 17.1           | 17.8              | 17.6 | 18.2 | 18.7 |  |
| 6H   | 17.3             | 17.8   | 17.8 | 18.3 | 18.8 | 17.2           | 17.8              | 17.7 | 18.3 | 18.7 |  |
| 8H   | 17.3             | 17.8   | 17.9 | 18.3 | 18.8 | 17.3           | 17.8              | 17.8 | 18.3 | 18.8 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.5    |        |      |      |      | + 0.3 / - 0.6  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 1.0  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

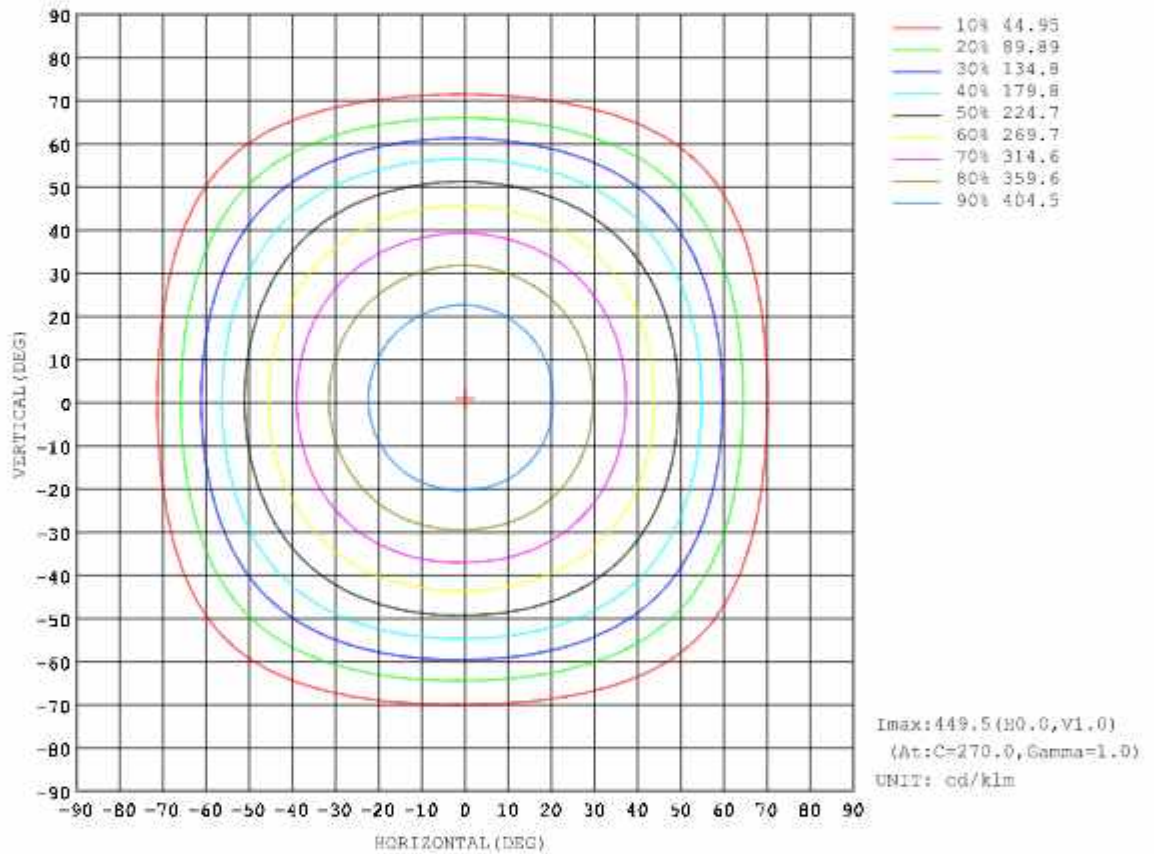
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 65  | 54  | 47        | 64  | 53  | 46  | 63            | 53  | 46  | 40     |
| 0.80                             | 76  | 65  | 58        | 75  | 64  | 57  | 73            | 63  | 57  | 50     |
| 1.00                             | 86  | 75  | 68        | 84  | 74  | 67  | 82            | 75  | 67  | 59     |
| 1.25                             | 93  | 83  | 76        | 91  | 82  | 76  | 88            | 80  | 75  | 67     |
| 1.50                             | 98  | 89  | 82        | 96  | 88  | 81  | 93            | 86  | 80  | 72     |
| 2.00                             | 105   | 97  | 91        | 103 | 95  | 90  | 99            | 93  | 88  | 80     |
| 2.50                             | 108   | 101 | 96        | 106 | 100 | 94  | 102           | 97  | 92  | 83     |
| 3.00                             | 112   | 105 | 100       | 109 | 103 | 99  | 105           | 100 | 96  | 87     |
| 4.00                             | 115   | 110 | 106       | 113 | 108 | 104 | 108           | 104 | 101 | 91     |
| 5.00                             | 117   | 113 | 109       | 115 | 111 | 107 | 110           | 107 | 104 | 94     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

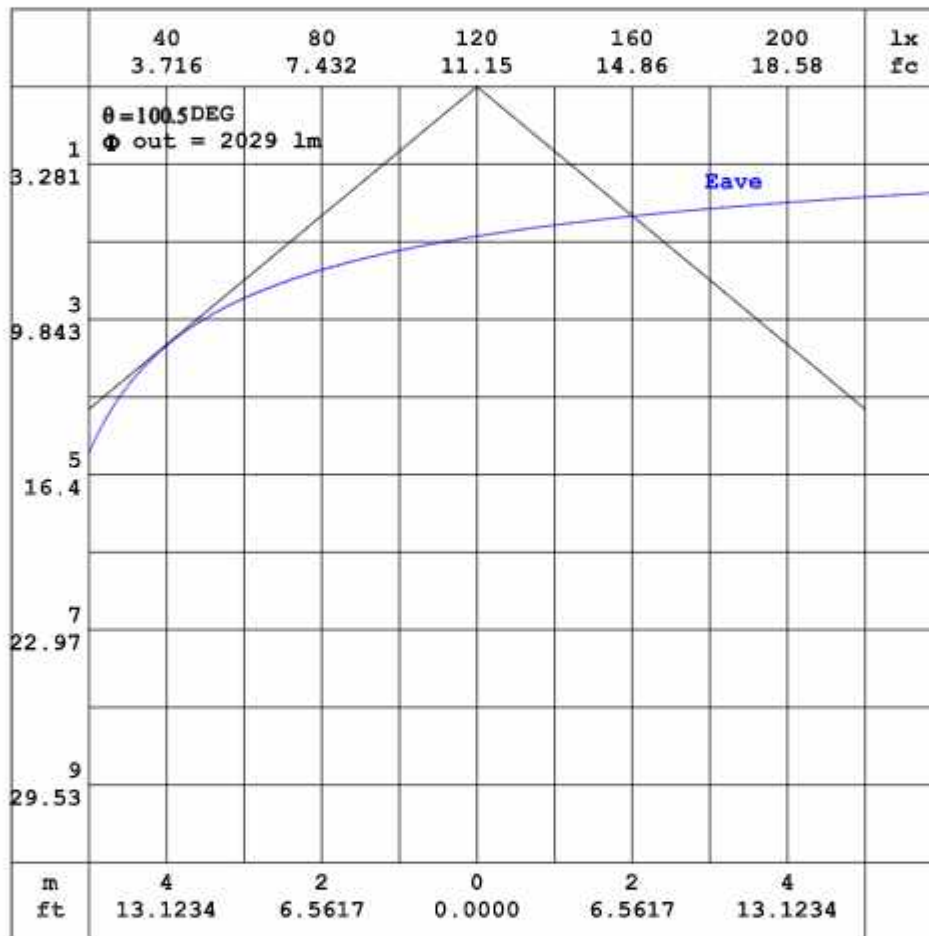


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



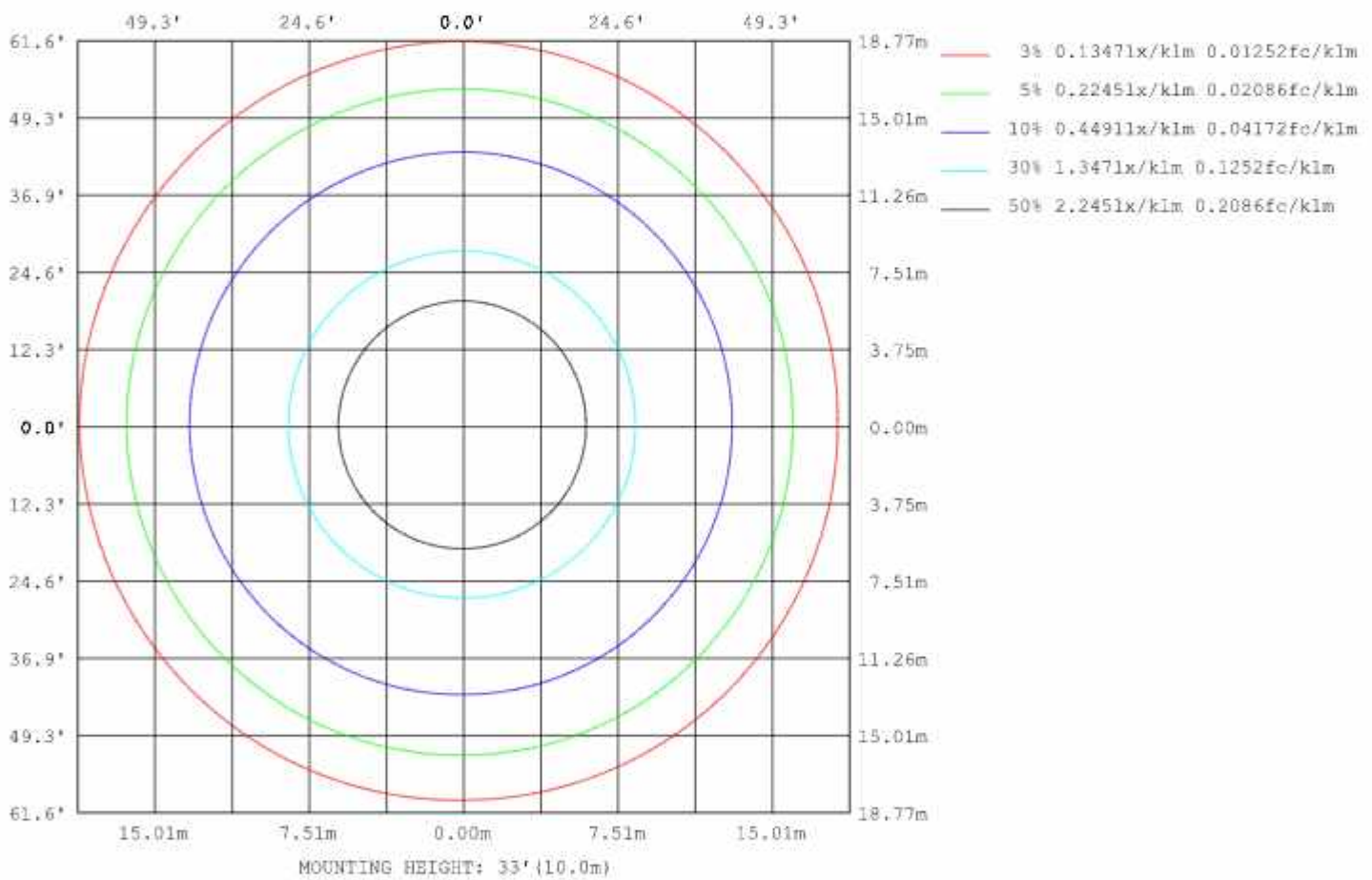
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

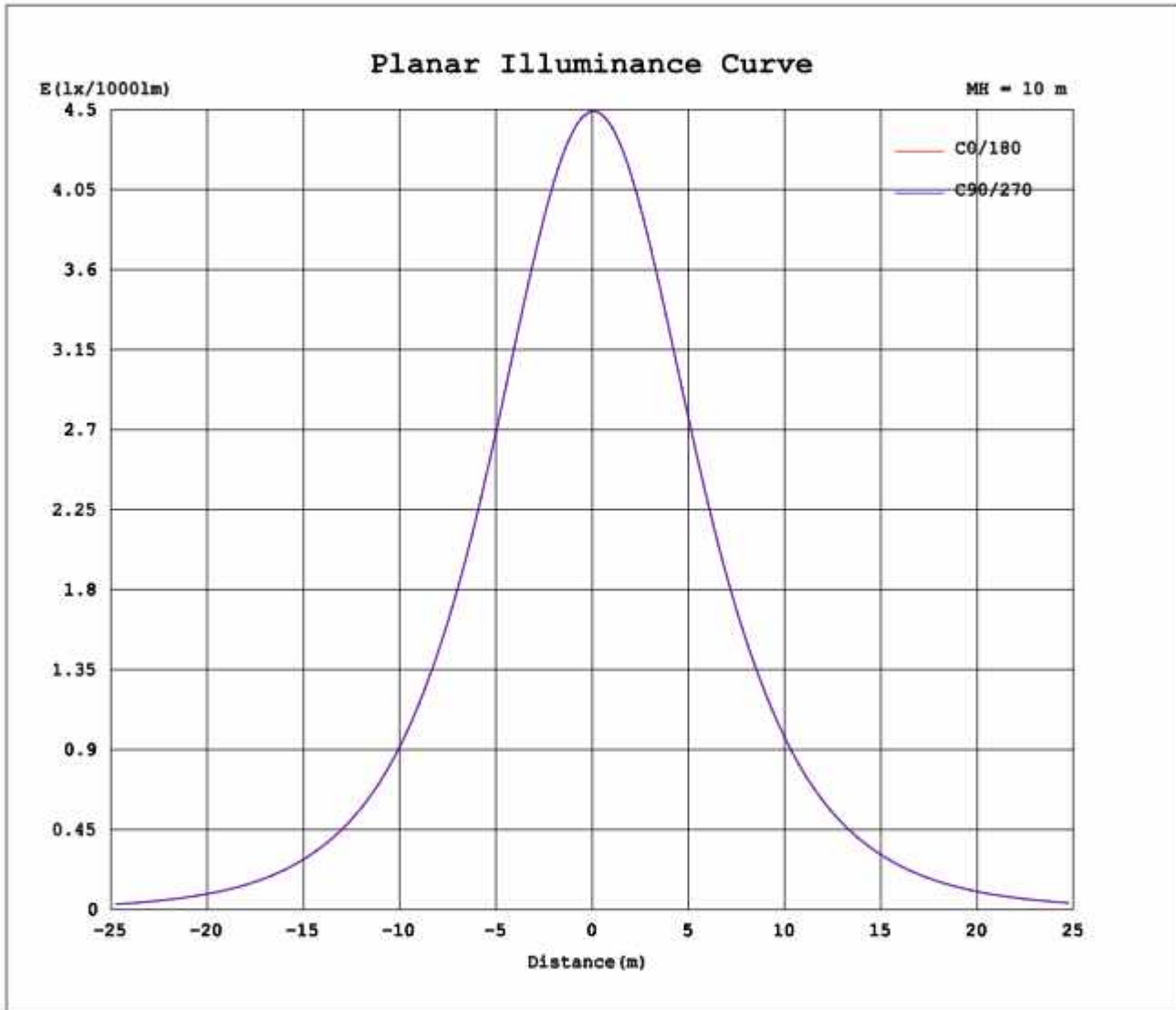
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:



## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 449  | 449  | 449  | 449  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 445  | 445  | 448  | 448  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 437  | 437  | 441  | 442  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 424  | 424  | 430  | 431  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 406  | 405  | 414  | 415  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 384  | 383  | 393  | 395  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 357  | 356  | 368  | 370  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 328  | 327  | 340  | 341  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 297  | 295  | 309  | 311  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 260  | 258  | 273  | 275  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 220  | 219  | 234  | 235  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 178  | 177  | 192  | 193  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 132  | 131  | 146  | 148  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 84.6 | 84.4 | 98.0 | 99.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 45.1 | 44.7 | 54.0 | 55.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 22.5 | 22.4 | 25.5 | 25.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 13.7 | 13.7 | 13.5 | 13.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 7.33 | 7.27 | 7.19 | 7.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 4.04 | 4.04 | 2.08 | 2.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 4.06 | 4.06 | 1.72 | 1.70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 4.09 | 4.09 | 1.92 | 1.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 4.11 | 4.12 | 2.13 | 2.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 4.15 | 4.16 | 2.37 | 2.34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 4.21 | 4.20 | 2.60 | 2.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 4.27 | 4.26 | 2.84 | 2.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 4.35 | 4.33 | 3.07 | 3.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 4.42 | 4.39 | 3.30 | 3.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 4.50 | 4.47 | 3.51 | 3.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 4.59 | 4.56 | 3.73 | 3.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 4.70 | 4.68 | 3.94 | 3.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 4.83 | 4.81 | 4.17 | 4.17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 4.98 | 4.96 | 4.42 | 4.43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 5.12 | 5.12 | 4.66 | 4.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 5.24 | 5.26 | 4.89 | 4.91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 5.34 | 5.36 | 5.09 | 5.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 5.39 | 5.40 | 5.25 | 5.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 5.37 | 5.38 | 5.36 | 5.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

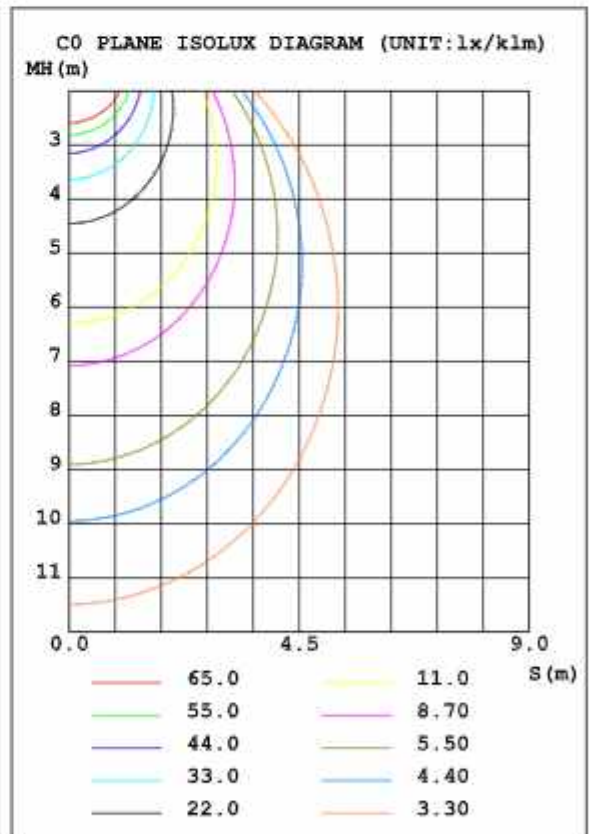
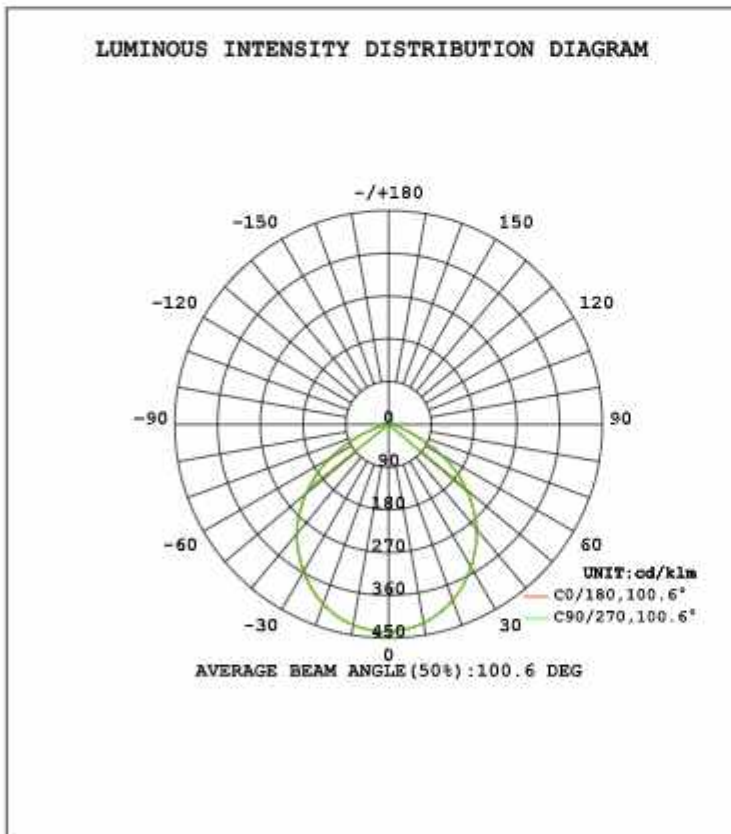
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 436.3  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 20           | LOR (%)             | 104.1  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1040.5 | $\eta$ UP, DN (C0-180)   | 1.3, 49.5 |
| NOMINAL FLUX (lm) | 2804.47      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.9, 52.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.2    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 101.8  | CIBSE SHR MAX            | 1.35      |



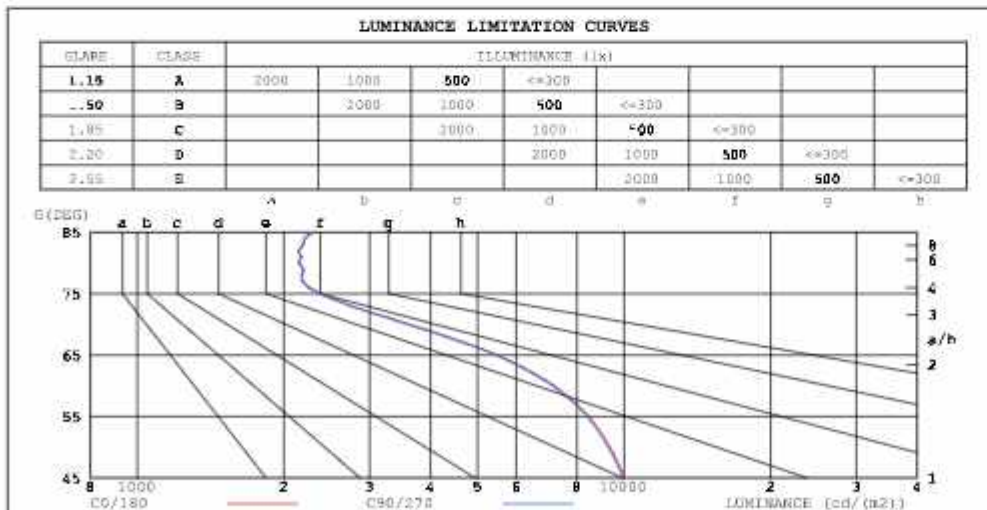
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                        | C90   | C180  | C270  |  |  |  | γ           | Φ zone | Φ total | Φlum, lamp |  |
|-----|---------------------------|-------|-------|-------|--|--|--|-------------|--------|---------|------------|--|
| 10  | 424.3                     | 424.1 | 428.7 | 429.0 |  |  |  | 0- 10       | 41.18  | 41.18   | 3.96, 4.12 |  |
| 20  | 394.3                     | 393.7 | 402.3 | 403.1 |  |  |  | 10- 20      | 116.9  | 158.1   | 13.2, 15.8 |  |
| 30  | 347.4                     | 346.2 | 357.5 | 359.2 |  |  |  | 20- 30      | 173.7  | 331.8   | 31.9, 33.2 |  |
| 40  | 288.4                     | 287.0 | 299.8 | 301.7 |  |  |  | 30- 40      | 202.9  | 534.7   | 51.4, 53.5 |  |
| 50  | 214.1                     | 212.5 | 227.0 | 228.6 |  |  |  | 40- 50      | 199.4  | 734.1   | 70.6, 73.4 |  |
| 60  | 127.9                     | 127.0 | 141.6 | 143.3 |  |  |  | 50- 60      | 159.7  | 893.9   | 85.9, 89.4 |  |
| 70  | 44.18                     | 43.72 | 52.70 | 54.46 |  |  |  | 60- 70      | 88.85  | 982.7   | 94.4, 98.3 |  |
| 80  | 13.29                     | 13.30 | 13.08 | 13.11 |  |  |  | 70- 80      | 27.51  | 1010    | 97.1, 101  |  |
| 90  | 3.916                     | 3.913 | 2.014 | 1.941 |  |  |  | 80- 90      | 7.953  | 1018    | 97.9, 102  |  |
| 100 | 3.956                     | 3.959 | 1.859 | 1.836 |  |  |  | 90-100      | 3.069  | 1021    | 98.1, 102  |  |
| 110 | 4.021                     | 4.024 | 2.294 | 2.272 |  |  |  | 100-110     | 3.198  | 1024    | 98.5, 102  |  |
| 120 | 4.127                     | 4.129 | 2.751 | 2.723 |  |  |  | 110-120     | 3.266  | 1028    | 98.8, 103  |  |
| 130 | 4.267                     | 4.254 | 3.196 | 3.168 |  |  |  | 120-130     | 3.209  | 1031    | 99.1, 103  |  |
| 140 | 4.444                     | 4.425 | 3.626 | 3.586 |  |  |  | 130-140     | 2.993  | 1034    | 99.4, 103  |  |
| 150 | 4.677                     | 4.665 | 4.050 | 4.030 |  |  |  | 140-150     | 2.623  | 1037    | 99.6, 104  |  |
| 160 | 4.959                     | 4.959 | 4.519 | 4.519 |  |  |  | 150-160     | 2.098  | 1039    | 99.8, 104  |  |
| 170 | 5.169                     | 5.185 | 4.936 | 4.938 |  |  |  | 160-170     | 1.386  | 1040    | 100, 104   |  |
| 180 | 5.204                     | 5.211 | 5.198 | 5.214 |  |  |  | 170-180     | 0.4895 | 1041    | 100, 104   |  |
| DEG | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |        |         |            |  |



| LUMINANCE cd / (m2) |        |         |
|---------------------|--------|---------|
| C (DEG)             | C0/180 | C90/270 |
| 85                  | 2299   | 2280    |
| 80                  | 2147   | 2147    |
| 75                  | 2377   | 2370    |
| 70                  | 3622   | 3583    |
| 65                  | 5480   | 5460    |
| 60                  | 7176   | 7123    |
| 55                  | 8454   | 8388    |
| 50                  | 9343   | 9270    |
| 45                  | 10022  | 9961    |

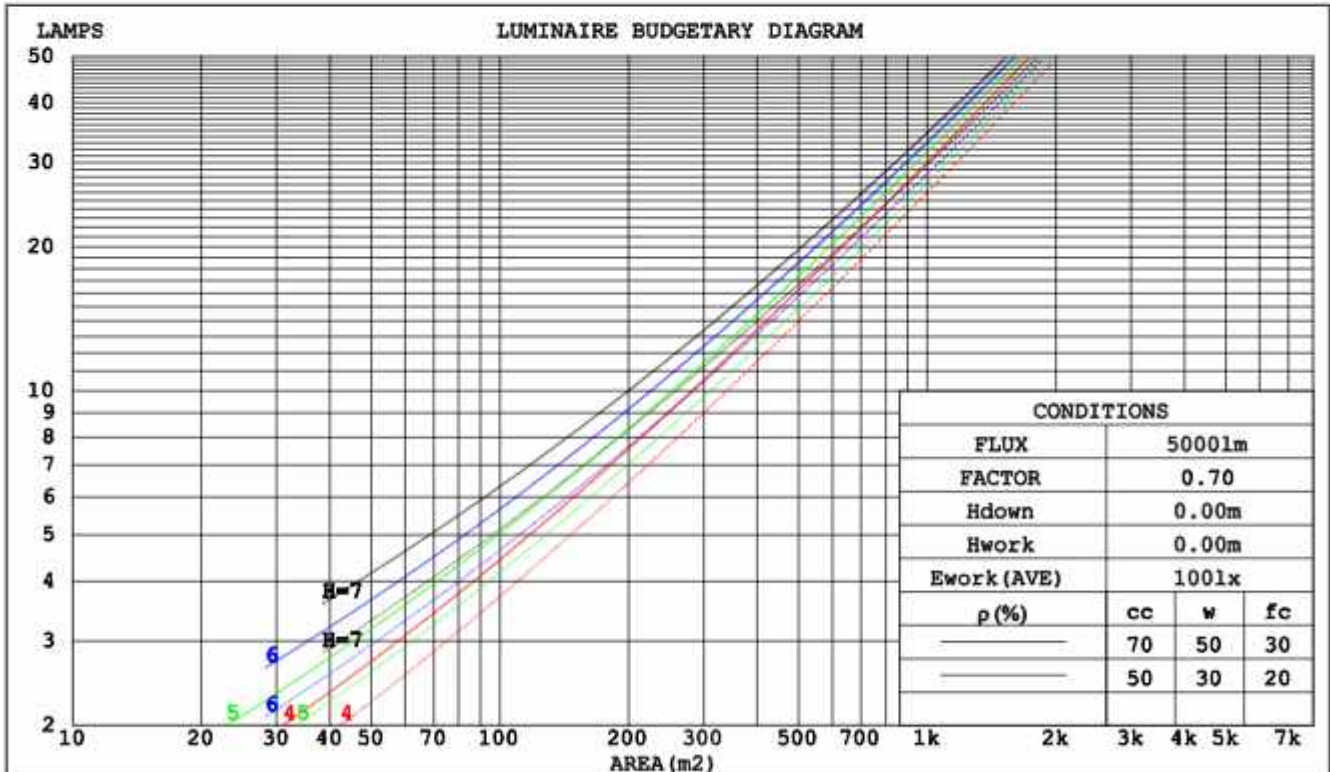
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0    |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |
| 0.0  | 1.23                  | 1.23 | 1.23 | 1.20 | 1.20 | 1.20 | 1.14                            | 1.14 | 1.14 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | 1.02 |
| 1.0  | 1.10                  | 1.06 | 1.03 | 1.07 | 1.04 | 1.01 | 1.03                            | .90  | .97  | .98  | .96  | .94  | .94  | .92  | .91  | .89  |
| 2.0  | .97                   | .91  | .86  | .95  | .90  | .85  | .91                             | .87  | .82  | .88  | .84  | .80  | .84  | .81  | .78  | .76  |
| 3.0  | .87                   | .79  | .73  | .85  | .78  | .72  | .81                             | .75  | .71  | .78  | .73  | .69  | .76  | .71  | .68  | .65  |
| 4.0  | .77                   | .69  | .63  | .76  | .68  | .62  | .73                             | .66  | .61  | .70  | .65  | .60  | .68  | .63  | .59  | .57  |
| 5.0  | .70                   | .61  | .54  | .68  | .60  | .54  | .66                             | .59  | .53  | .64  | .57  | .53  | .62  | .56  | .52  | .50  |
| 6.0  | .63                   | .54  | .48  | .62  | .54  | .48  | .60                             | .52  | .47  | .58  | .51  | .46  | .56  | .50  | .46  | .44  |
| 7.0  | .57                   | .49  | .43  | .56  | .48  | .42  | .55                             | .47  | .42  | .53  | .46  | .41  | .51  | .45  | .41  | .39  |
| 8.0  | .52                   | .44  | .38  | .52  | .44  | .38  | .50                             | .43  | .38  | .49  | .42  | .37  | .47  | .41  | .37  | .35  |
| 9.0  | .48                   | .40  | .34  | .47  | .40  | .34  | .46                             | .39  | .34  | .45  | .38  | .34  | .44  | .38  | .33  | .32  |
| 10.0 | .44                   | .37  | .31  | .44  | .36  | .31  | .43                             | .36  | .31  | .42  | .35  | .31  | .41  | .35  | .31  | .29  |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:6.500m [K=1.0000]  
Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .276                  | .157 | .050 | .268 | .153 | .049 | .253                            | .145 | .046 | .239 | .138 | .044 | .227 | .131 | .042 |   |
| 2.0  | .266                  | .146 | .045 | .259 | .143 | .044 | .246                            | .137 | .043 | .234 | .132 | .041 | .223 | .126 | .040 |   |
| 3.0  | .252                  | .134 | .040 | .246 | .132 | .040 | .234                            | .127 | .039 | .223 | .122 | .038 | .214 | .118 | .037 |   |
| 4.0  | .236                  | .123 | .036 | .231 | .121 | .036 | .221                            | .117 | .035 | .211 | .113 | .034 | .202 | .110 | .033 |   |
| 5.0  | .221                  | .113 | .033 | .216 | .111 | .032 | .207                            | .108 | .032 | .199 | .105 | .031 | .191 | .102 | .031 |   |
| 6.0  | .207                  | .104 | .030 | .203 | .102 | .029 | .195                            | .100 | .029 | .187 | .097 | .029 | .180 | .095 | .028 |   |
| 7.0  | .194                  | .096 | .027 | .191 | .095 | .027 | .183                            | .093 | .027 | .176 | .090 | .026 | .170 | .088 | .026 |   |
| 8.0  | .183                  | .089 | .025 | .179 | .088 | .025 | .173                            | .086 | .025 | .166 | .084 | .024 | .161 | .082 | .024 |   |
| 9.0  | .172                  | .083 | .023 | .169 | .082 | .023 | .163                            | .081 | .023 | .157 | .079 | .023 | .152 | .077 | .022 |   |
| 10.0 | .163                  | .078 | .022 | .160 | .077 | .022 | .154                            | .076 | .021 | .149 | .074 | .021 | .144 | .073 | .021 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .215                  | .215 | .215 | .184 | .184 | .184 | .126                                       | .126 | .126 | .072 | .072 | .072 | .023 | .023 | .023 |   |
| 1.0  | .202                  | .180 | .161 | .172 | .155 | .138 | .118                                       | .106 | .096 | .068 | .062 | .056 | .022 | .020 | .018 |   |
| 2.0  | .192                  | .155 | .124 | .164 | .133 | .107 | .112                                       | .092 | .075 | .065 | .054 | .044 | .021 | .017 | .014 |   |
| 3.0  | .183                  | .136 | .099 | .157 | .117 | .086 | .108                                       | .082 | .060 | .062 | .048 | .035 | .020 | .015 | .012 |   |
| 4.0  | .175                  | .122 | .082 | .150 | .105 | .071 | .103                                       | .073 | .050 | .060 | .043 | .030 | .019 | .014 | .010 |   |
| 5.0  | .168                  | .111 | .069 | .144 | .096 | .060 | .099                                       | .067 | .043 | .057 | .039 | .025 | .018 | .013 | .008 |   |
| 6.0  | .160                  | .102 | .060 | .138 | .089 | .053 | .095                                       | .062 | .037 | .055 | .036 | .022 | .018 | .012 | .007 |   |
| 7.0  | .154                  | .095 | .054 | .132 | .082 | .047 | .091                                       | .058 | .033 | .053 | .034 | .020 | .017 | .011 | .007 |   |
| 8.0  | .148                  | .089 | .049 | .127 | .077 | .043 | .088                                       | .054 | .030 | .051 | .032 | .018 | .017 | .010 | .006 |   |
| 9.0  | .142                  | .084 | .045 | .122 | .073 | .039 | .085                                       | .051 | .028 | .049 | .030 | .017 | .016 | .010 | .005 |   |
| 10.0 | .136                  | .079 | .042 | .117 | .069 | .037 | .081                                       | .049 | .026 | .047 | .029 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

|  |                  |        |      |      |      |                |                   |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| NAME: 10寸商照筒灯                                      |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 16.2             | 17.6   | 16.5 | 17.8 | 18.0 | 16.2           | 17.5              | 16.4 | 17.8 | 18.0 |  |
| 3H   | 16.7             | 17.9   | 17.0 | 18.2 | 18.5 | 16.6           | 17.9              | 16.9 | 18.2 | 18.4 |  |
| 4H   | 16.7             | 17.9   | 17.0 | 18.2 | 18.5 | 16.7           | 17.9              | 17.0 | 18.1 | 18.4 |  |
| 6H   | 16.7             | 17.8   | 17.1 | 18.1 | 18.4 | 16.7           | 17.8              | 17.0 | 18.1 | 18.4 |  |
| 8H   | 16.7             | 17.8   | 17.1 | 18.1 | 18.4 | 16.7           | 17.7              | 17.0 | 18.1 | 18.4 |  |
| 12H  | 16.7             | 17.7   | 17.1 | 18.0 | 18.4 | 16.7           | 17.7              | 17.0 | 18.0 | 18.4 |  |
| 4H 2H  | 16.5             | 17.7   | 16.8 | 17.9 | 18.2 | 16.4           | 17.6              | 16.8 | 17.9 | 18.2 |  |
| 3H   | 17.0             | 18.1   | 17.4 | 18.4 | 18.7 | 17.0           | 18.0              | 17.4 | 18.4 | 18.7 |  |
| 4H   | 17.1             | 18.0   | 17.5 | 18.4 | 18.8 | 17.1           | 18.0              | 17.5 | 18.4 | 18.7 |  |
| 6H   | 17.2             | 18.0   | 17.6 | 18.4 | 18.8 | 17.1           | 18.0              | 17.6 | 18.3 | 18.8 |  |
| 8H   | 17.2             | 17.9   | 17.6 | 18.3 | 18.8 | 17.2           | 17.9              | 17.6 | 18.3 | 18.8 |  |
| 12H  | 17.2             | 17.9   | 17.7 | 18.3 | 18.8 | 17.2           | 17.9              | 17.6 | 18.3 | 18.7 |  |
| 8H 4H  | 17.1             | 17.8   | 17.5 | 18.2 | 18.7 | 17.0           | 17.8              | 17.5 | 18.2 | 18.6 |  |
| 6H   | 17.2             | 17.8   | 17.7 | 18.3 | 18.7 | 17.2           | 17.8              | 17.6 | 18.2 | 18.7 |  |
| 8H   | 17.3             | 17.8   | 17.7 | 18.3 | 18.8 | 17.2           | 17.8              | 17.7 | 18.2 | 18.7 |  |
| 12H  | 17.3             | 17.8   | 17.8 | 18.3 | 18.8 | 17.3           | 17.8              | 17.8 | 18.3 | 18.8 |  |
| 12H 4H   | 17.0             | 17.7   | 17.5 | 18.2 | 18.6 | 17.0           | 17.7              | 17.5 | 18.1 | 18.6 |  |
| 6H   | 17.2             | 17.7   | 17.7 | 18.2 | 18.7 | 17.2           | 17.7              | 17.6 | 18.2 | 18.7 |  |
| 8H   | 17.3             | 17.7   | 17.8 | 18.2 | 18.7 | 17.2           | 17.7              | 17.7 | 18.2 | 18.7 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.5    |        |      |      |      | + 0.3 / - 0.6  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 1.0  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

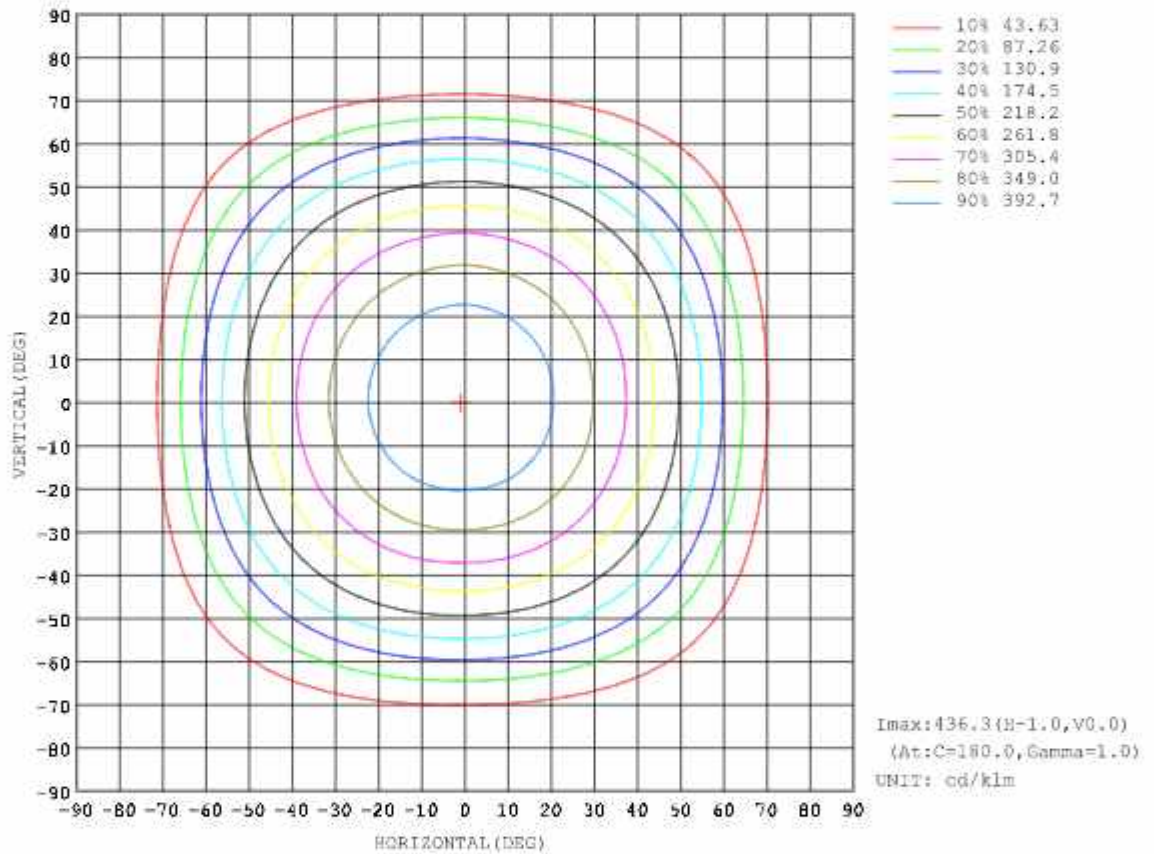
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 63  | 52  | 45        | 63  | 52  | 45  | 61            | 51  | 45  | 39     |
| 0.80                             | 74  | 63  | 56        | 73  | 63  | 56  | 71            | 62  | 55  | 48     |
| 1.00                             | 83  | 73  | 66        | 82  | 72  | 65  | 79            | 73  | 65  | 58     |
| 1.25                             | 90  | 81  | 74        | 89  | 80  | 73  | 86            | 78  | 72  | 65     |
| 1.50                             | 95  | 86  | 80        | 94  | 85  | 79  | 90            | 83  | 78  | 70     |
| 2.00                             | 102   | 94  | 88        | 100 | 93  | 87  | 96            | 90  | 86  | 78     |
| 2.50                             | 105   | 98  | 93        | 103 | 97  | 92  | 99            | 94  | 90  | 81     |
| 3.00                             | 108   | 102 | 97        | 106 | 101 | 96  | 102           | 97  | 93  | 85     |
| 4.00                             | 112   | 107 | 103       | 109 | 105 | 101 | 105           | 101 | 98  | 89     |
| 5.00                             | 114   | 110 | 106       | 112 | 108 | 104 | 107           | 104 | 101 | 91     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



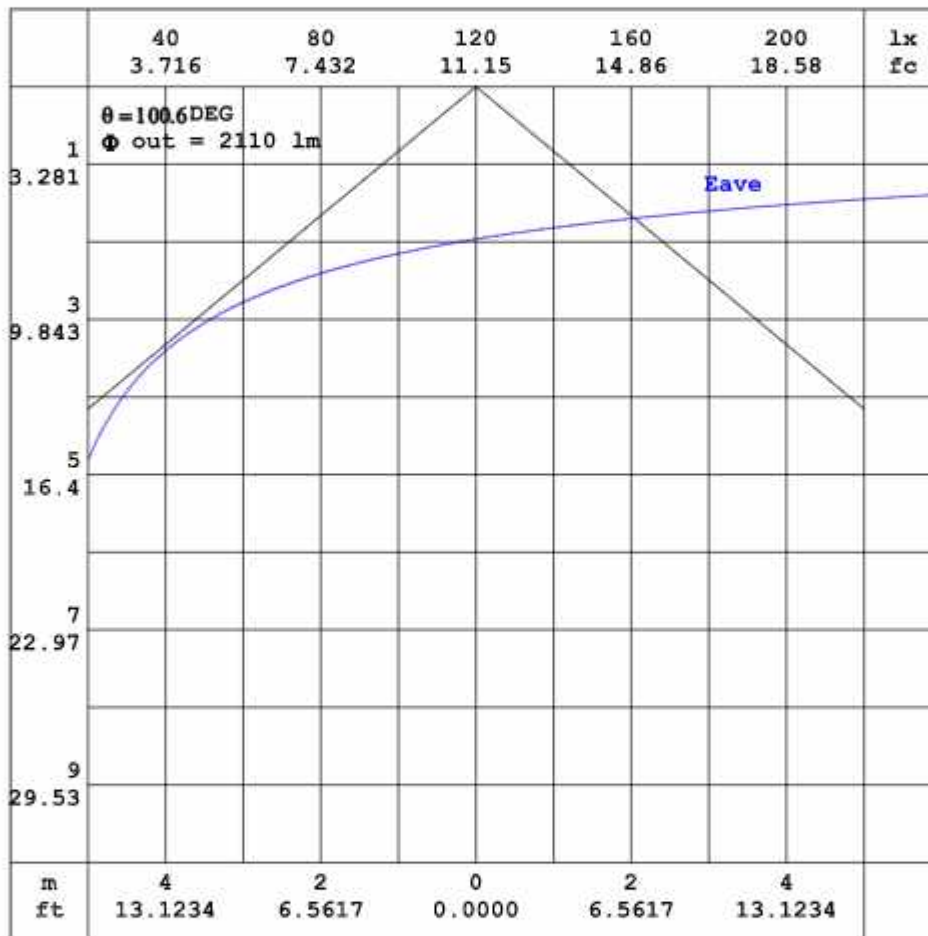
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:



## AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



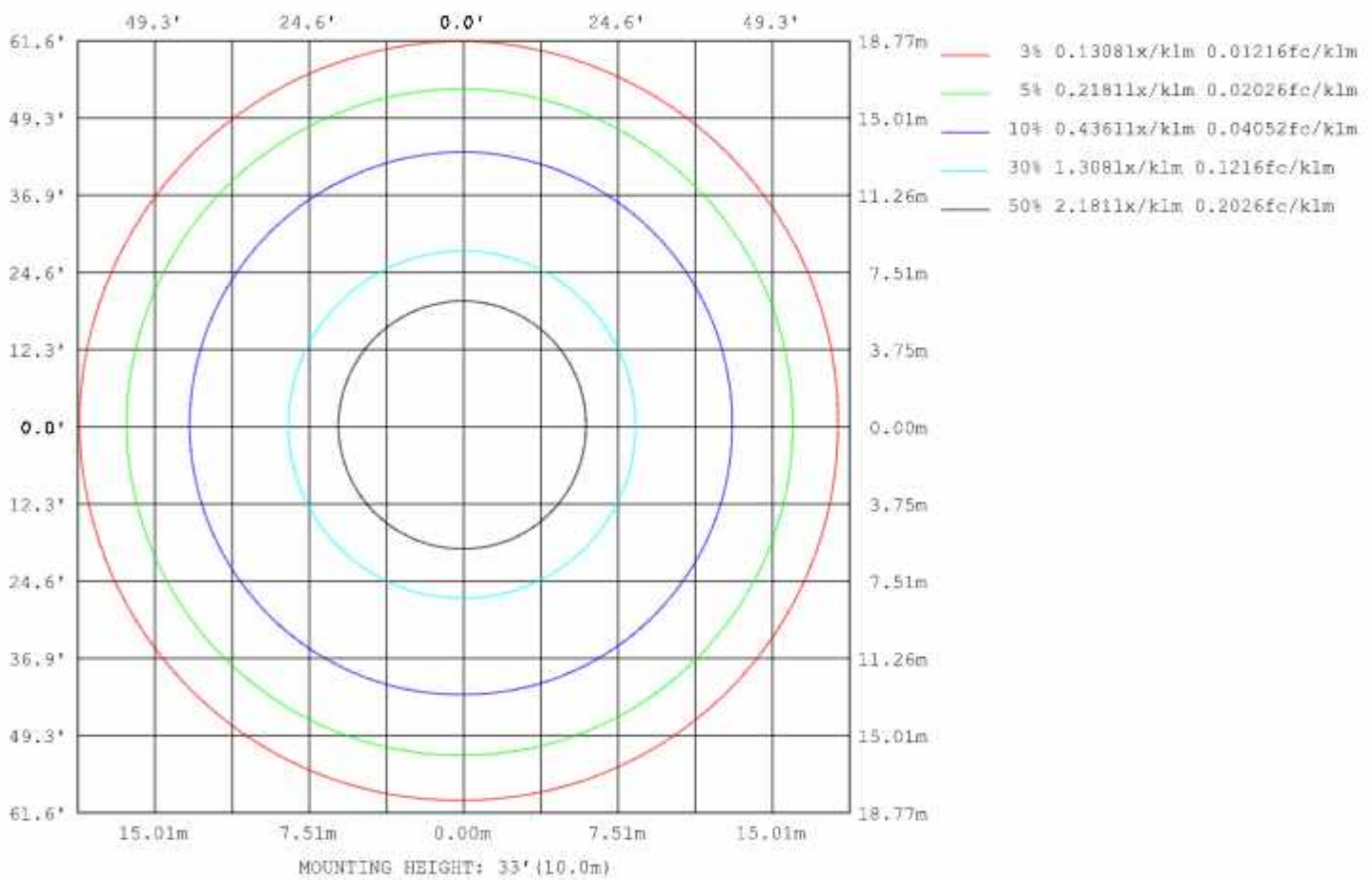
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

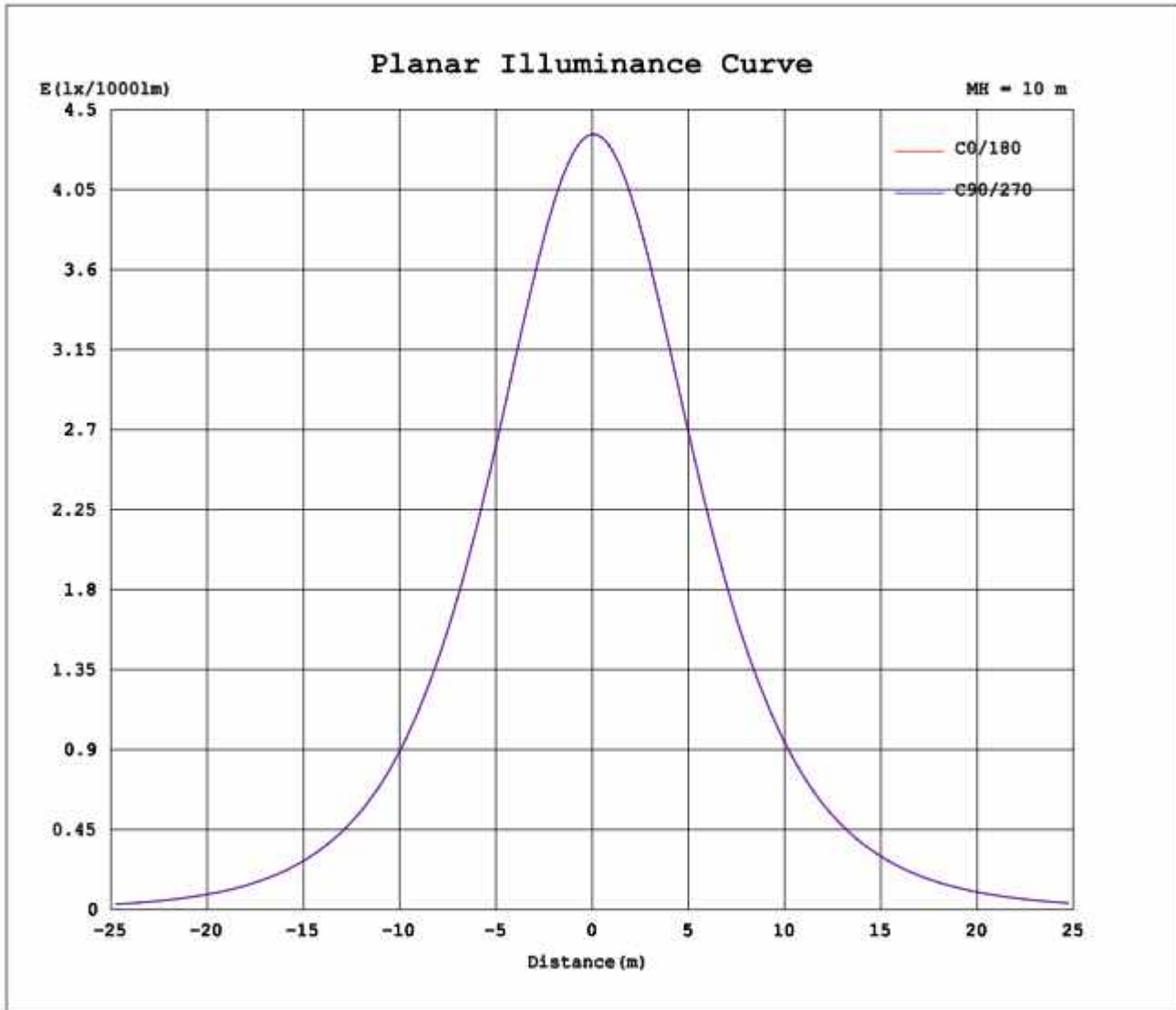
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 436  | 436  | 436  | 436  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 433  | 433  | 435  | 435  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 424  | 424  | 429  | 429  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 412  | 411  | 418  | 418  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 394  | 394  | 402  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 373  | 372  | 382  | 383  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 347  | 346  | 358  | 359  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 319  | 318  | 330  | 332  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 288  | 287  | 300  | 302  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 253  | 251  | 265  | 267  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 214  | 212  | 227  | 229  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 173  | 172  | 186  | 188  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 128  | 127  | 142  | 143  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 82.6 | 82.3 | 95.3 | 97.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 44.2 | 43.7 | 52.7 | 54.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 21.9 | 21.9 | 24.8 | 25.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 13.3 | 13.3 | 13.1 | 13.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 7.15 | 7.09 | 6.97 | 6.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 3.92 | 3.91 | 2.01 | 1.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 3.93 | 3.93 | 1.67 | 1.65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 3.96 | 3.96 | 1.86 | 1.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 3.99 | 3.99 | 2.07 | 2.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 4.02 | 4.02 | 2.29 | 2.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 4.07 | 4.08 | 2.52 | 2.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 4.13 | 4.13 | 2.75 | 2.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 4.20 | 4.19 | 2.98 | 2.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 4.27 | 4.25 | 3.20 | 3.17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 4.35 | 4.33 | 3.42 | 3.38 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 4.44 | 4.43 | 3.63 | 3.59 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 4.55 | 4.53 | 3.82 | 3.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 4.68 | 4.67 | 4.05 | 4.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 4.82 | 4.81 | 4.28 | 4.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 4.96 | 4.96 | 4.52 | 4.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 5.07 | 5.09 | 4.74 | 4.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 5.17 | 5.18 | 4.94 | 4.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 5.22 | 5.23 | 5.10 | 5.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 5.20 | 5.21 | 5.20 | 5.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

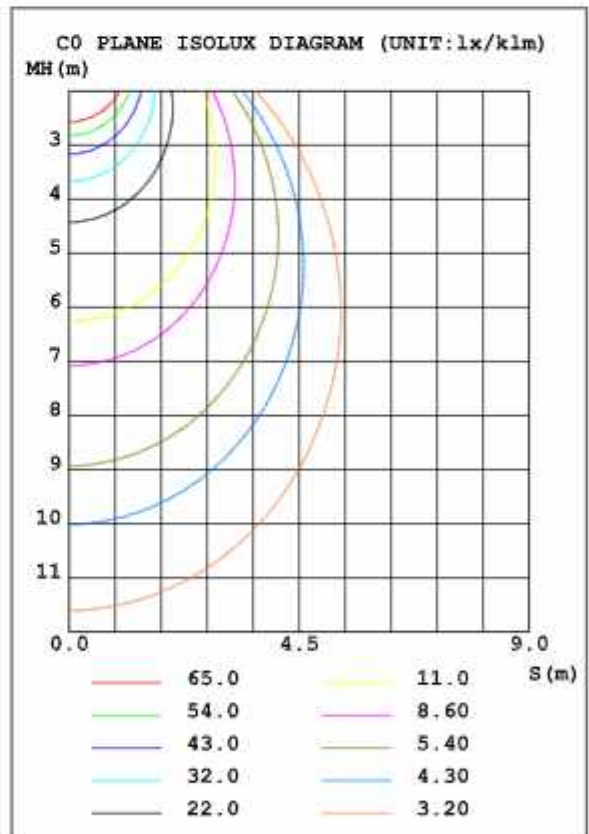
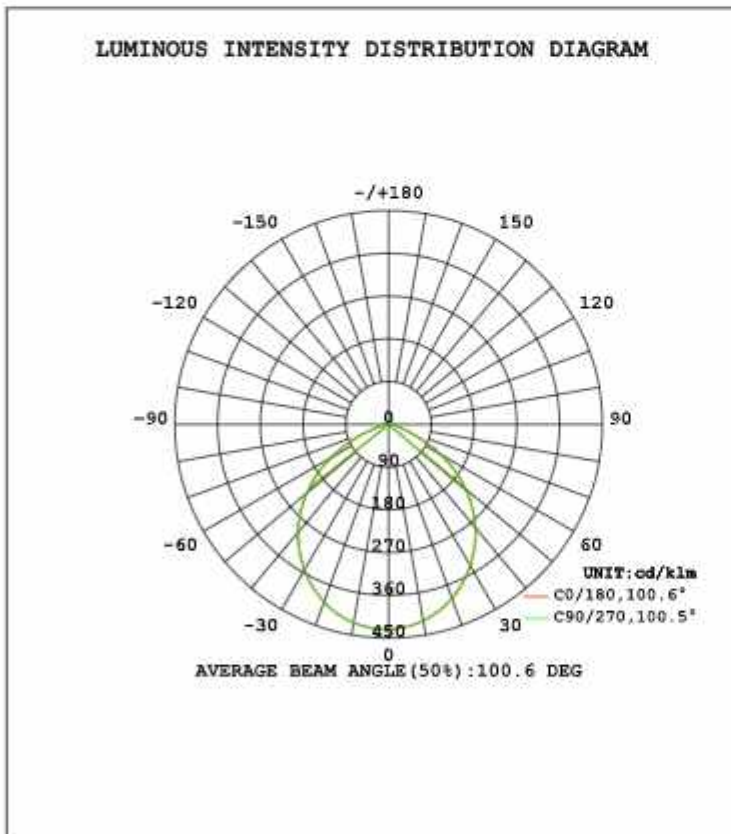
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 431.4  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 22           | LOR (%)             | 102.9  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1029.2 | $\eta$ UP, DN (C0-180)   | 1.3, 49.0 |
| NOMINAL FLUX (lm) | 2918.08      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.9, 51.7 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.2    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 100.7  | CIBSE SHR MAX            | 1.35      |



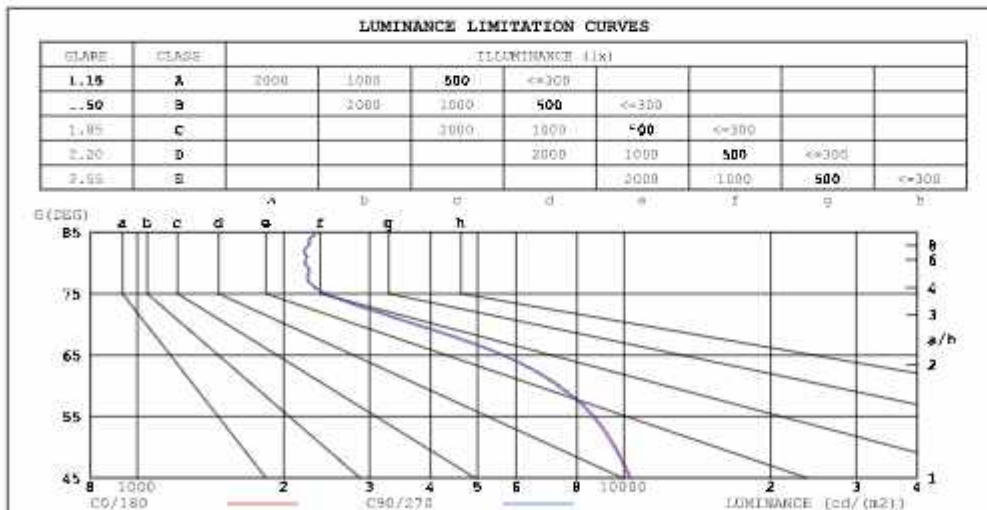
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|--|
| 10       | 419.9                     | 419.4 | 423.9 | 424.2 |  |  |  | 0- 10       | 40.72       | 40.72        | 3.96, 4.07       |  |
| 20       | 390.1                     | 389.3 | 397.8 | 398.7 |  |  |  | 10- 20      | 115.6       | 156.4        | 15.2, 15.6       |  |
| 30       | 343.9                     | 342.4 | 353.5 | 355.1 |  |  |  | 20- 30      | 171.8       | 328.2        | 31.9, 32.8       |  |
| 40       | 285.6                     | 283.9 | 296.7 | 298.4 |  |  |  | 30- 40      | 200.8       | 529.0        | 51.4, 52.9       |  |
| 50       | 211.8                     | 209.8 | 224.3 | 226.0 |  |  |  | 40- 50      | 197.2       | 726.2        | 70.6, 72.6       |  |
| 60       | 126.5                     | 125.1 | 139.7 | 141.6 |  |  |  | 50- 60      | 157.8       | 884.0        | 85.9, 88.4       |  |
| 70       | 43.97                     | 43.42 | 52.56 | 54.44 |  |  |  | 60- 70      | 88.00       | 972.0        | 94.4, 97.2       |  |
| 80       | 13.13                     | 13.11 | 12.96 | 12.99 |  |  |  | 70- 80      | 27.37       | 999.3        | 97.1, 99.9       |  |
| 90       | 3.865                     | 3.864 | 1.980 | 1.919 |  |  |  | 80- 90      | 7.856       | 1007         | 97.9, 101        |  |
| 100      | 3.903                     | 3.909 | 1.833 | 1.813 |  |  |  | 90-100      | 3.029       | 1010         | 98.2, 101        |  |
| 110      | 3.966                     | 3.976 | 2.260 | 2.240 |  |  |  | 100-110     | 3.156       | 1013         | 98.5, 101        |  |
| 120      | 4.075                     | 4.078 | 2.713 | 2.690 |  |  |  | 110-120     | 3.222       | 1017         | 98.8, 102        |  |
| 130      | 4.223                     | 4.200 | 3.151 | 3.117 |  |  |  | 120-130     | 3.166       | 1020         | 99.1, 102        |  |
| 140      | 4.397                     | 4.369 | 3.559 | 3.530 |  |  |  | 130-140     | 2.951       | 1023         | 99.4, 102        |  |
| 150      | 4.631                     | 4.602 | 3.989 | 3.977 |  |  |  | 140-150     | 2.586       | 1025         | 99.6, 103        |  |
| 160      | 4.904                     | 4.893 | 4.458 | 4.454 |  |  |  | 150-160     | 2.071       | 1027         | 99.8, 103        |  |
| 170      | 5.112                     | 5.120 | 4.871 | 4.868 |  |  |  | 160-170     | 1.368       | 1029         | 100, 103         |  |
| 180      | 5.135                     | 5.154 | 5.130 | 5.147 |  |  |  | 170-180     | 0.4831      | 1029         | 100, 103         |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |  |



| LUMINANCE cd / (m2) |        |         |
|---------------------|--------|---------|
| G (DEG)             | C0/180 | C90/270 |
| 85                  | 2360   | 2330    |
| 80                  | 2206   | 2204    |
| 75                  | 2453   | 2438    |
| 70                  | 3752   | 3705    |
| 65                  | 5655   | 5618    |
| 60                  | 7381   | 7302    |
| 55                  | 8689   | 8607    |
| 50                  | 9615   | 9523    |
| 45                  | 10329  | 10248   |

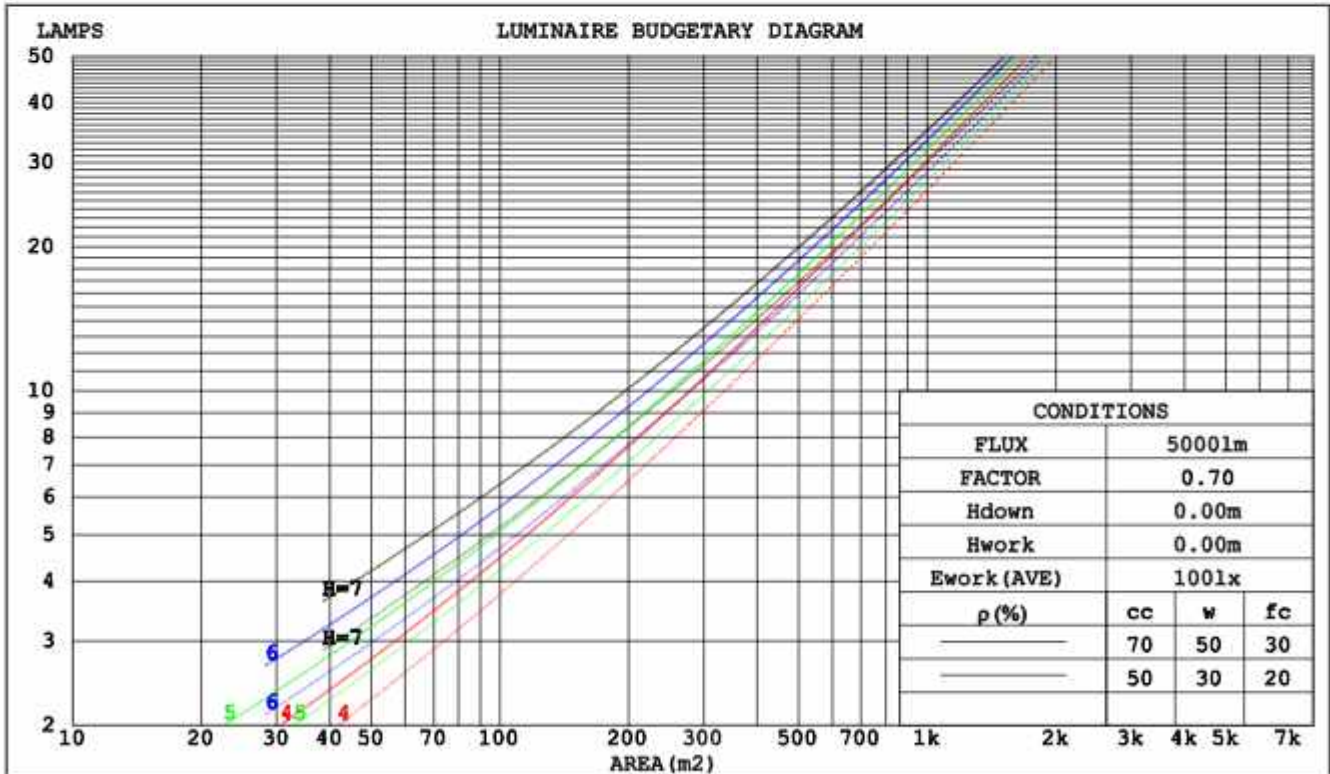
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0    |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |
| 0.0  | 1.22                  | 1.22 | 1.22 | 1.19 | 1.19 | 1.19 | 1.13                            | 1.13 | 1.13 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 1.01 |
| 1.0  | 1.09                  | 1.05 | 1.02 | 1.06 | 1.03 | .00  | 1.02                            | .99  | .96  | .97  | .95  | .93  | .93  | .91  | .90  | .88  |
| 2.0  | .96                   | .90  | .85  | .94  | .89  | .84  | .90                             | .86  | .82  | .87  | .83  | .79  | .83  | .80  | .77  | .75  |
| 3.0  | .86                   | .78  | .72  | .84  | .77  | .71  | .81                             | .75  | .70  | .78  | .73  | .68  | .75  | .71  | .67  | .65  |
| 4.0  | .77                   | .68  | .62  | .75  | .67  | .61  | .72                             | .66  | .60  | .70  | .64  | .59  | .67  | .62  | .58  | .56  |
| 5.0  | .69                   | .60  | .54  | .68  | .59  | .53  | .65                             | .58  | .53  | .63  | .57  | .52  | .61  | .56  | .51  | .49  |
| 6.0  | .62                   | .54  | .47  | .61  | .53  | .47  | .59                             | .52  | .47  | .57  | .51  | .46  | .55  | .50  | .45  | .43  |
| 7.0  | .57                   | .48  | .42  | .56  | .48  | .42  | .54                             | .47  | .41  | .52  | .46  | .41  | .51  | .45  | .41  | .39  |
| 8.0  | .52                   | .43  | .38  | .51  | .43  | .38  | .49                             | .42  | .37  | .48  | .42  | .37  | .47  | .41  | .37  | .35  |
| 9.0  | .48                   | .40  | .34  | .47  | .39  | .34  | .46                             | .39  | .34  | .44  | .38  | .33  | .43  | .37  | .33  | .31  |
| 10.0 | .44                   | .36  | .31  | .43  | .36  | .31  | .42                             | .35  | .31  | .41  | .35  | .30  | .40  | .34  | .30  | .28  |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .273                  | .155 | .049 | .265 | .151 | .048 | .250                            | .144 | .046 | .237 | .137 | .044 | .224 | .130 | .042 |   |
| 2.0  | .264                  | .144 | .044 | .257 | .141 | .044 | .244                            | .136 | .042 | .232 | .130 | .041 | .221 | .125 | .039 |   |
| 3.0  | .249                  | .133 | .040 | .243 | .130 | .039 | .232                            | .126 | .038 | .221 | .121 | .037 | .211 | .117 | .036 |   |
| 4.0  | .234                  | .121 | .036 | .228 | .119 | .035 | .218                            | .116 | .035 | .209 | .112 | .034 | .200 | .109 | .033 |   |
| 5.0  | .219                  | .111 | .032 | .214 | .110 | .032 | .205                            | .107 | .031 | .197 | .104 | .031 | .189 | .101 | .030 |   |
| 6.0  | .205                  | .103 | .029 | .201 | .101 | .029 | .193                            | .099 | .029 | .185 | .096 | .028 | .178 | .094 | .028 |   |
| 7.0  | .192                  | .095 | .027 | .188 | .094 | .027 | .181                            | .092 | .026 | .174 | .089 | .026 | .168 | .087 | .026 |   |
| 8.0  | .181                  | .088 | .025 | .177 | .087 | .025 | .171                            | .085 | .024 | .165 | .083 | .024 | .159 | .082 | .024 |   |
| 9.0  | .170                  | .082 | .023 | .167 | .082 | .023 | .161                            | .080 | .023 | .156 | .078 | .022 | .150 | .076 | .022 |   |
| 10.0 | .161                  | .077 | .021 | .158 | .076 | .021 | .153                            | .075 | .021 | .148 | .073 | .021 | .143 | .072 | .021 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .213                  | .213 | .213 | .182 | .182 | .182 | .124                                       | .124 | .124 | .071 | .071 | .071 | .023 | .023 | .023 |   |
| 1.0  | .199                  | .178 | .159 | .171 | .153 | .137 | .117                                       | .105 | .095 | .067 | .061 | .055 | .022 | .020 | .018 |   |
| 2.0  | .189                  | .153 | .122 | .162 | .132 | .106 | .111                                       | .091 | .074 | .064 | .053 | .043 | .021 | .017 | .014 |   |
| 3.0  | .181                  | .135 | .098 | .155 | .116 | .085 | .106                                       | .081 | .059 | .061 | .047 | .035 | .020 | .015 | .011 |   |
| 4.0  | .173                  | .121 | .081 | .148 | .104 | .070 | .102                                       | .073 | .049 | .059 | .043 | .029 | .019 | .014 | .010 |   |
| 5.0  | .166                  | .110 | .069 | .142 | .095 | .060 | .098                                       | .066 | .042 | .057 | .039 | .025 | .018 | .013 | .008 |   |
| 6.0  | .159                  | .101 | .060 | .136 | .088 | .052 | .094                                       | .061 | .037 | .055 | .036 | .022 | .018 | .012 | .007 |   |
| 7.0  | .152                  | .094 | .053 | .131 | .081 | .046 | .090                                       | .057 | .033 | .053 | .034 | .020 | .017 | .011 | .006 |   |
| 8.0  | .146                  | .088 | .048 | .126 | .076 | .042 | .087                                       | .054 | .030 | .051 | .032 | .018 | .016 | .010 | .006 |   |
| 9.0  | .140                  | .083 | .044 | .121 | .072 | .039 | .084                                       | .051 | .027 | .049 | .030 | .016 | .016 | .010 | .005 |   |
| 10.0 | .135                  | .079 | .041 | .116 | .068 | .036 | .080                                       | .048 | .026 | .047 | .028 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:



## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 16.1             | 17.5   | 16.4 | 17.8 | 18.0 | 16.1           | 17.5              | 16.4 | 17.7 | 18.0 |  |
| 3H   | 16.6             | 17.9   | 16.9 | 18.2 | 18.4 | 16.6           | 17.9              | 16.9 | 18.1 | 18.4 |  |
| 4H   | 16.7             | 17.9   | 17.0 | 18.1 | 18.4 | 16.6           | 17.8              | 17.0 | 18.1 | 18.4 |  |
| 6H   | 16.7             | 17.8   | 17.0 | 18.1 | 18.4 | 16.6           | 17.7              | 17.0 | 18.1 | 18.4 |  |
| 8H   | 16.7             | 17.7   | 17.0 | 18.1 | 18.4 | 16.6           | 17.7              | 17.0 | 18.0 | 18.3 |  |
| 12H  | 16.7             | 17.7   | 17.0 | 18.0 | 18.4 | 16.6           | 17.6              | 17.0 | 18.0 | 18.3 |  |
| 4H 2H  | 16.4             | 17.6   | 16.8 | 17.9 | 18.2 | 16.4           | 17.6              | 16.7 | 17.9 | 18.2 |  |
| 3H   | 17.0             | 18.0   | 17.4 | 18.3 | 18.7 | 16.9           | 18.0              | 17.3 | 18.3 | 18.7 |  |
| 4H   | 17.1             | 18.0   | 17.5 | 18.4 | 18.7 | 17.0           | 18.0              | 17.4 | 18.3 | 18.7 |  |
| 6H   | 17.1             | 18.0   | 17.6 | 18.3 | 18.7 | 17.1           | 17.9              | 17.5 | 18.3 | 18.7 |  |
| 8H   | 17.1             | 17.9   | 17.6 | 18.3 | 18.7 | 17.1           | 17.9              | 17.6 | 18.3 | 18.7 |  |
| 12H  | 17.2             | 17.9   | 17.6 | 18.3 | 18.7 | 17.1           | 17.8              | 17.6 | 18.3 | 18.7 |  |
| 8H 4H  | 17.0             | 17.8   | 17.5 | 18.2 | 18.6 | 17.0           | 17.8              | 17.4 | 18.2 | 18.6 |  |
| 6H   | 17.2             | 17.8   | 17.6 | 18.2 | 18.7 | 17.1           | 17.8              | 17.6 | 18.2 | 18.7 |  |
| 8H   | 17.2             | 17.8   | 17.7 | 18.2 | 18.7 | 17.2           | 17.7              | 17.7 | 18.2 | 18.7 |  |
| 12H  | 17.3             | 17.8   | 17.8 | 18.2 | 18.8 | 17.3           | 17.7              | 17.8 | 18.2 | 18.7 |  |
| 12H 4H   | 17.0             | 17.7   | 17.5 | 18.1 | 18.6 | 17.0           | 17.7              | 17.4 | 18.1 | 18.5 |  |
| 6H   | 17.1             | 17.7   | 17.6 | 18.2 | 18.6 | 17.1           | 17.7              | 17.6 | 18.1 | 18.6 |  |
| 8H   | 17.2             | 17.7   | 17.7 | 18.2 | 18.7 | 17.2           | 17.7              | 17.7 | 18.2 | 18.7 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.5    |        |      |      |      | + 0.3 / - 0.5  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 0.9  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

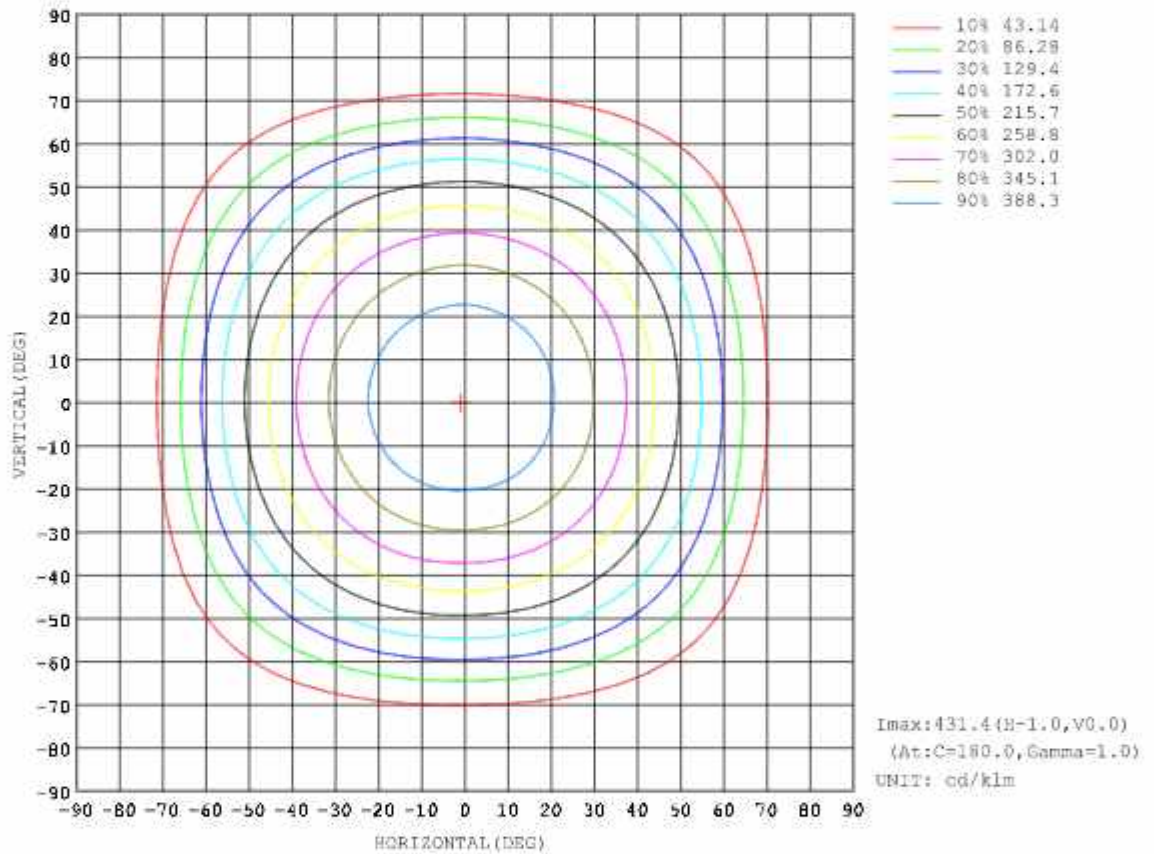
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 63  | 51  | 45        | 62  | 51  | 45  | 61            | 51  | 44  | 38     |
| 0.80                             | 73  | 62  | 55        | 72  | 62  | 55  | 70            | 61  | 55  | 48     |
| 1.00                             | 82  | 72  | 65        | 81  | 71  | 65  | 79            | 72  | 64  | 57     |
| 1.25                             | 89  | 80  | 73        | 88  | 79  | 73  | 85            | 77  | 72  | 65     |
| 1.50                             | 94  | 85  | 79        | 92  | 84  | 78  | 89            | 82  | 77  | 70     |
| 2.00                             | 101   | 93  | 87        | 99  | 92  | 86  | 95            | 89  | 85  | 77     |
| 2.50                             | 104   | 97  | 92        | 102 | 96  | 91  | 98            | 93  | 89  | 80     |
| 3.00                             | 107   | 101 | 96        | 105 | 99  | 95  | 101           | 96  | 92  | 84     |
| 4.00                             | 111   | 106 | 102       | 108 | 104 | 100 | 104           | 100 | 97  | 88     |
| 5.00                             | 113   | 109 | 105       | 110 | 106 | 103 | 105           | 102 | 100 | 90     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

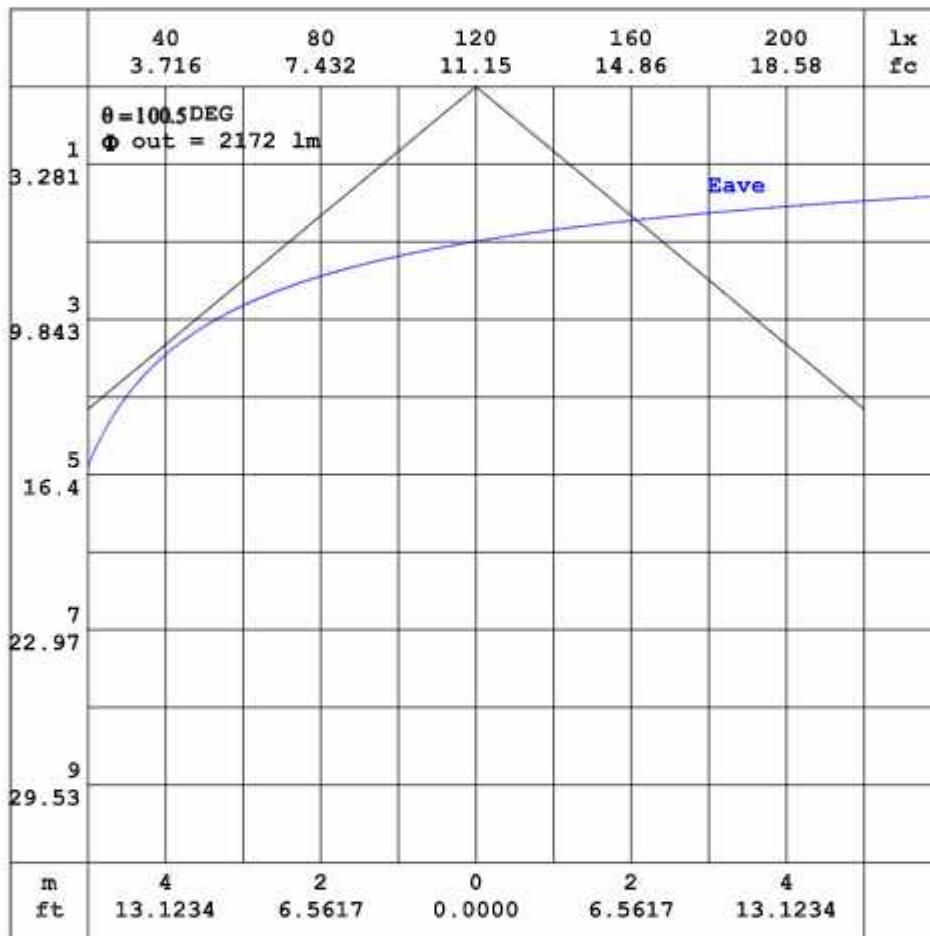


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



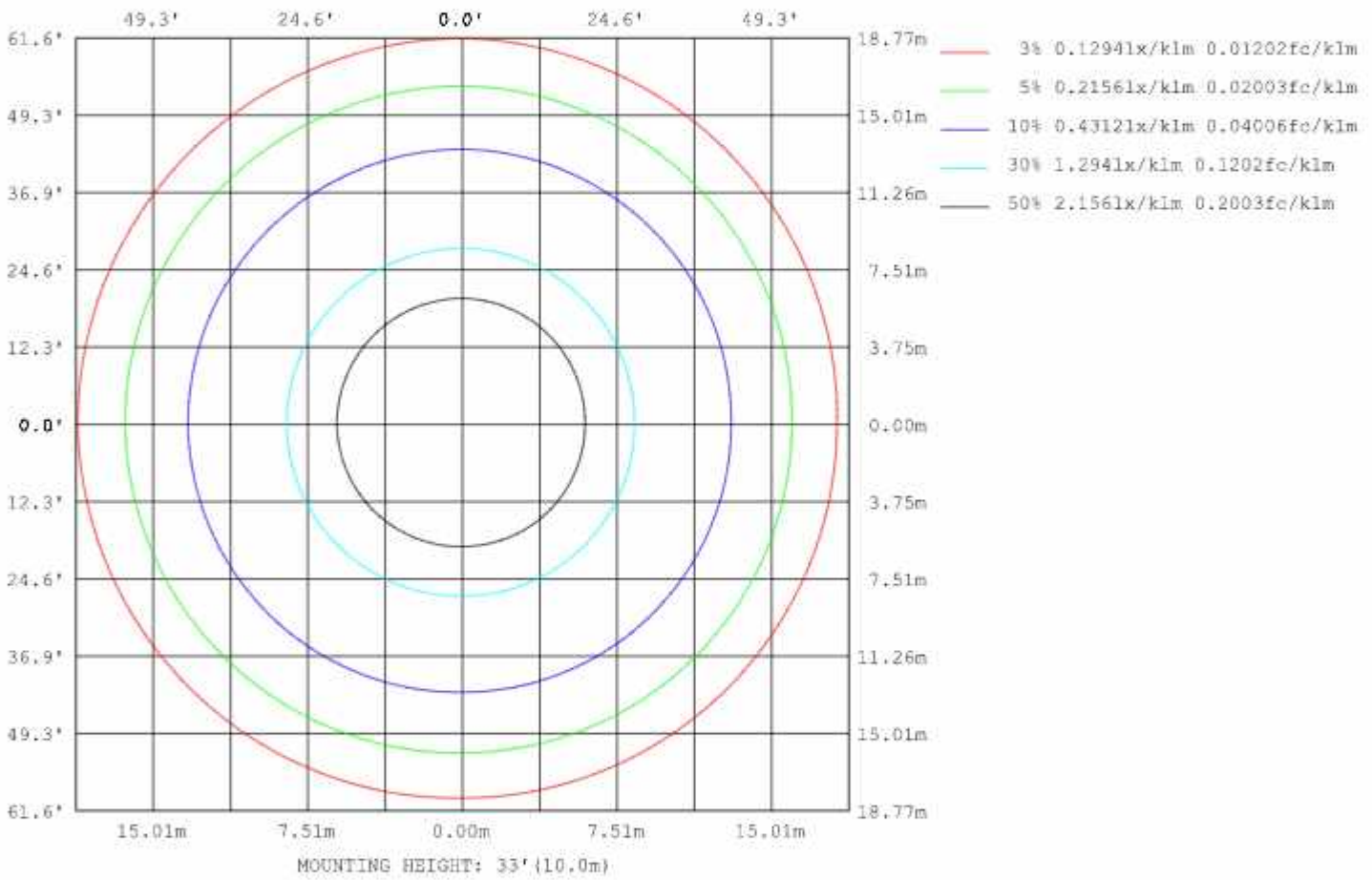
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

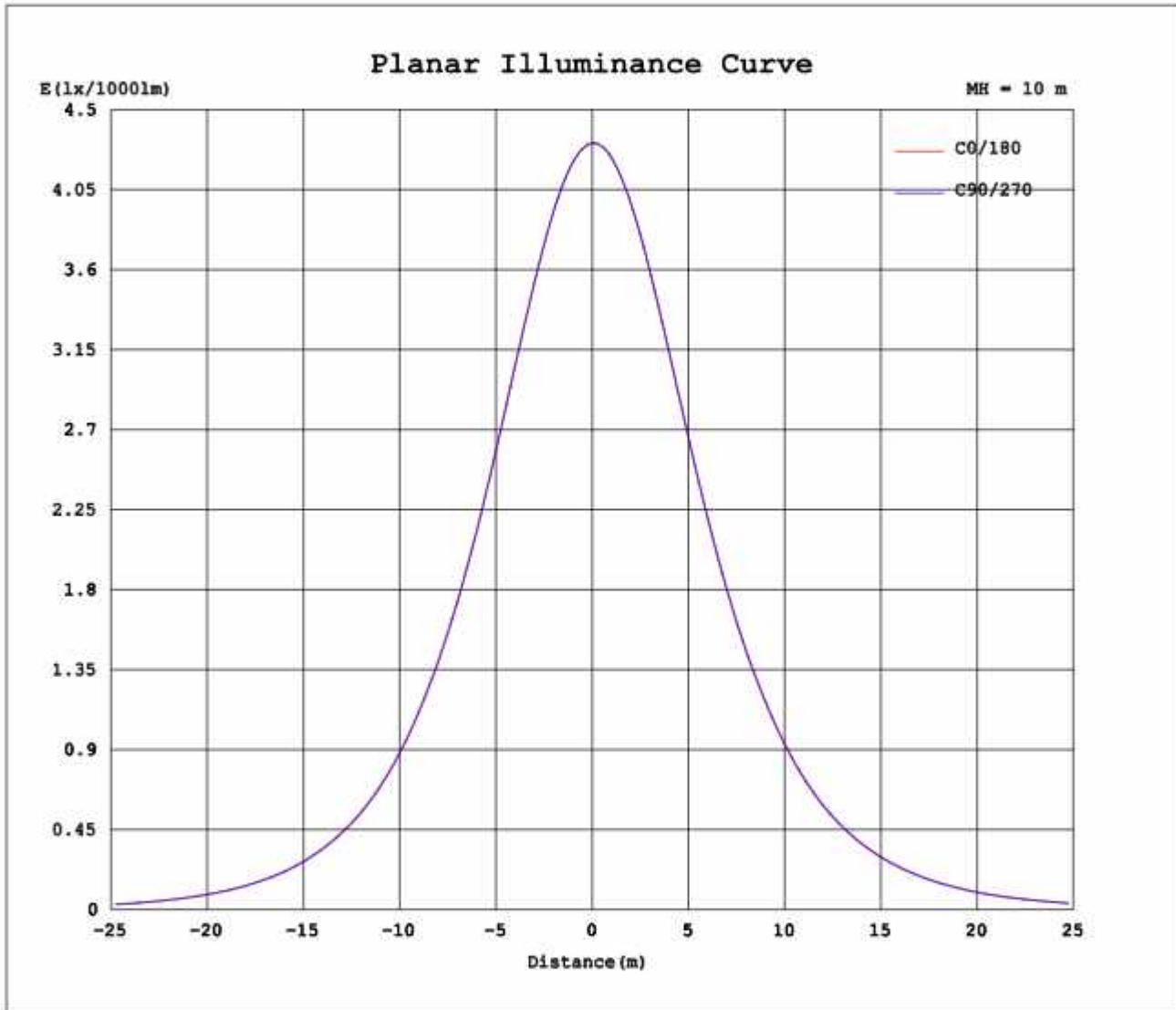
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 431  | 431  | 431  | 431  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 428  | 428  | 430  | 430  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 420  | 419  | 424  | 424  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 407  | 407  | 413  | 414  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 390  | 389  | 398  | 399  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 369  | 368  | 378  | 379  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 344  | 342  | 353  | 355  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 316  | 314  | 326  | 328  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 286  | 284  | 297  | 298  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 250  | 248  | 262  | 264  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 212  | 210  | 224  | 226  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 171  | 169  | 184  | 186  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 126  | 125  | 140  | 142  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 81.9 | 81.4 | 94.4 | 96.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 44.0 | 43.4 | 52.6 | 54.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 21.8 | 21.6 | 24.8 | 25.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 13.1 | 13.1 | 13.0 | 13.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 7.05 | 6.96 | 6.90 | 6.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.86 | 3.86 | 1.98 | 1.92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.88 | 3.89 | 1.64 | 1.62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.90 | 3.91 | 1.83 | 1.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.93 | 3.94 | 2.04 | 2.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.97 | 3.98 | 2.26 | 2.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 4.02 | 4.02 | 2.48 | 2.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 4.07 | 4.08 | 2.71 | 2.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 4.14 | 4.14 | 2.93 | 2.91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 4.22 | 4.20 | 3.15 | 3.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 4.30 | 4.27 | 3.36 | 3.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.40 | 4.37 | 3.56 | 3.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.51 | 4.48 | 3.77 | 3.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.63 | 4.60 | 3.99 | 3.98 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.75 | 4.74 | 4.23 | 4.22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.90 | 4.89 | 4.46 | 4.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 5.02 | 5.02 | 4.68 | 4.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 5.11 | 5.12 | 4.87 | 4.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 5.15 | 5.16 | 5.03 | 5.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 5.13 | 5.13 | 5.13 | 5.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

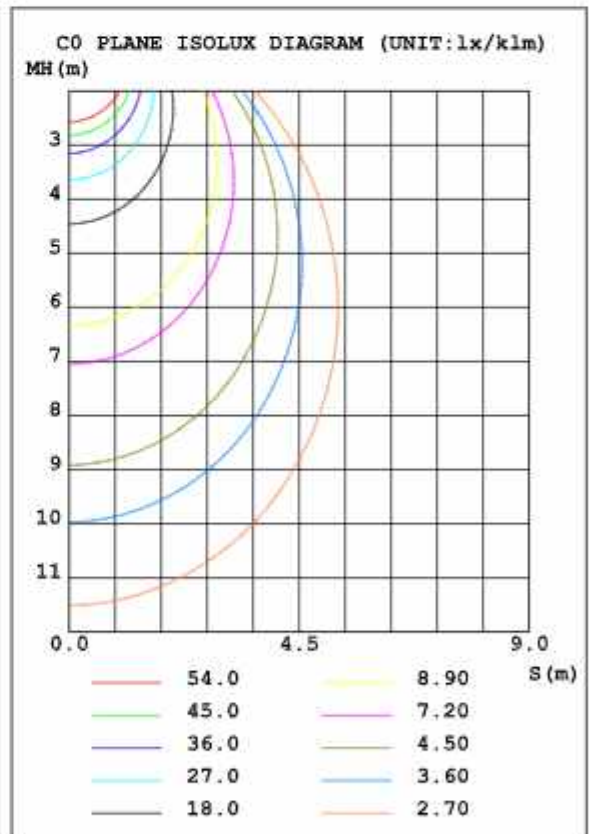
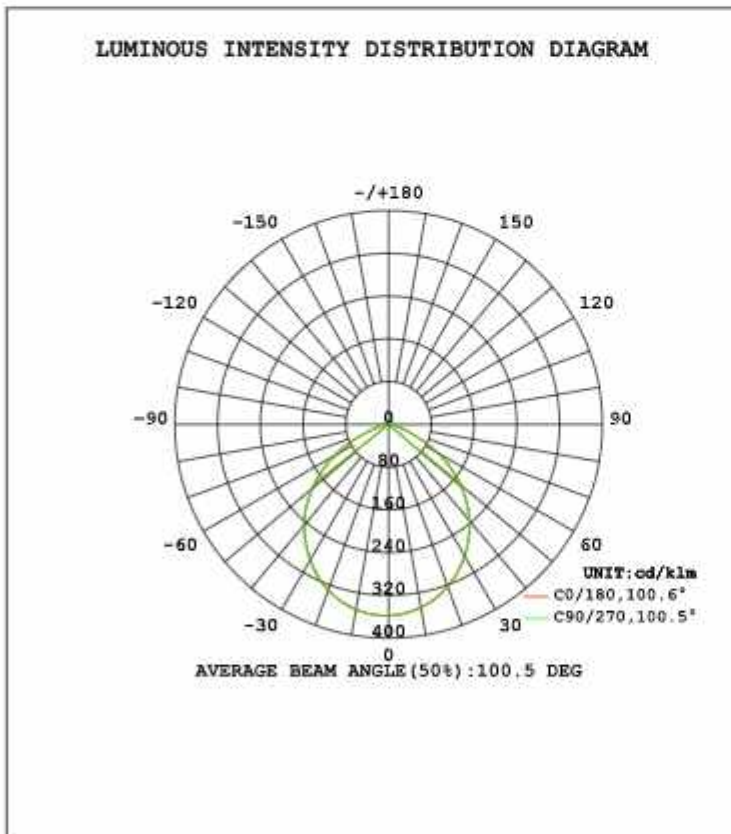
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 358.1  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 28           | LOR (%)             | 85.2   | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 852.28 | $\eta$ UP, DN (C0-180)   | 1.1, 40.6 |
| NOMINAL FLUX (lm) | 3643.33      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.7, 42.8 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 1.8    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 83.4   | CIBSE SHR MAX            | 1.35      |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

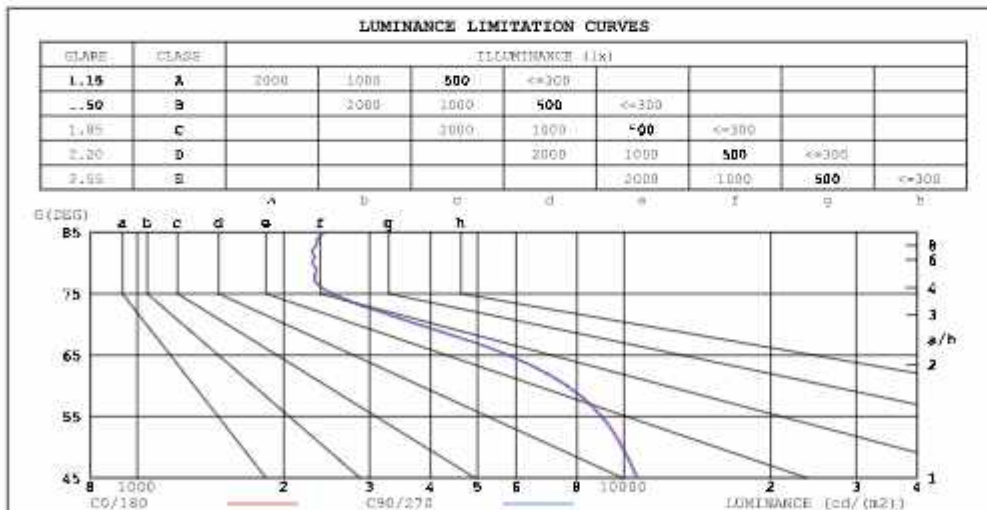
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                         | C90   | C180  | C270  |  |  |  | γ            | Φ zone | Φ total | Φlum, lamp |
|-----|----------------------------|-------|-------|-------|--|--|--|--------------|--------|---------|------------|
| 10  | 348.1                      | 347.7 | 351.9 | 352.1 |  |  |  | 0- 10        | 33.78  | 33.78   | 3.96, 3.38 |
| 20  | 323.3                      | 322.6 | 330.3 | 330.7 |  |  |  | 10- 20       | 95.90  | 129.7   | 15.2, 13   |
| 30  | 284.7                      | 283.4 | 293.2 | 294.3 |  |  |  | 20- 30       | 142.4  | 272.1   | 31.9, 27.2 |
| 40  | 236.0                      | 234.8 | 245.8 | 247.1 |  |  |  | 30- 40       | 166.2  | 438.3   | 51.4, 43.8 |
| 50  | 175.5                      | 174.3 | 186.3 | 187.4 |  |  |  | 40- 50       | 163.4  | 601.7   | 70.6, 60.2 |
| 60  | 105.0                      | 104.4 | 116.4 | 117.6 |  |  |  | 50- 60       | 131.2  | 732.9   | 86, 73.3   |
| 70  | 35.55                      | 35.21 | 42.38 | 43.48 |  |  |  | 60- 70       | 72.41  | 805.3   | 94.5, 80.5 |
| 80  | 10.89                      | 10.89 | 10.68 | 10.67 |  |  |  | 70- 80       | 22.22  | 827.5   | 97.1, 82.8 |
| 90  | 3.205                      | 3.199 | 1.640 | 1.571 |  |  |  | 80- 90       | 6.496  | 834.0   | 97.9, 83.4 |
| 100 | 3.239                      | 3.238 | 1.514 | 1.490 |  |  |  | 90-100       | 2.505  | 836.5   | 98.2, 83.7 |
| 110 | 3.289                      | 3.293 | 1.872 | 1.847 |  |  |  | 100-110      | 2.612  | 839.1   | 98.5, 83.9 |
| 120 | 3.381                      | 3.380 | 2.250 | 2.221 |  |  |  | 110-120      | 2.668  | 841.8   | 98.8, 84.2 |
| 130 | 3.492                      | 3.481 | 2.616 | 2.577 |  |  |  | 120-130      | 2.623  | 844.4   | 99.1, 84.4 |
| 140 | 3.638                      | 3.620 | 2.958 | 2.921 |  |  |  | 130-140      | 2.445  | 846.9   | 99.4, 84.7 |
| 150 | 3.830                      | 3.814 | 3.313 | 3.296 |  |  |  | 140-150      | 2.145  | 849.0   | 99.6, 84.9 |
| 160 | 4.065                      | 4.063 | 3.702 | 3.698 |  |  |  | 150-160      | 1.718  | 850.7   | 99.8, 85.1 |
| 170 | 4.235                      | 4.252 | 4.046 | 4.049 |  |  |  | 160-170      | 1.136  | 851.9   | 100, 85.2  |
| 180 | 4.261                      | 4.266 | 4.263 | 4.275 |  |  |  | 170-180      | 0.4010 | 852.3   | 100, 85.2  |
| DEG | LUMINOUS INTENSITY: cd/klm |       |       |       |  |  |  | UNIT: lm/klm |        |         |            |



| LUMINANCE cd / (m²) |        |         |
|---------------------|--------|---------|
| θ (DEG)             | C0/180 | C90/270 |
| 85                  | 2441   | 2414    |
| 80                  | 2284   | 2284    |
| 75                  | 2516   | 2508    |
| 70                  | 3787   | 3751    |
| 65                  | 5781   | 5766    |
| 60                  | 7650   | 7605    |
| 55                  | 9019   | 8957    |
| 50                  | 9949   | 9879    |
| 45                  | 10666  | 10698   |

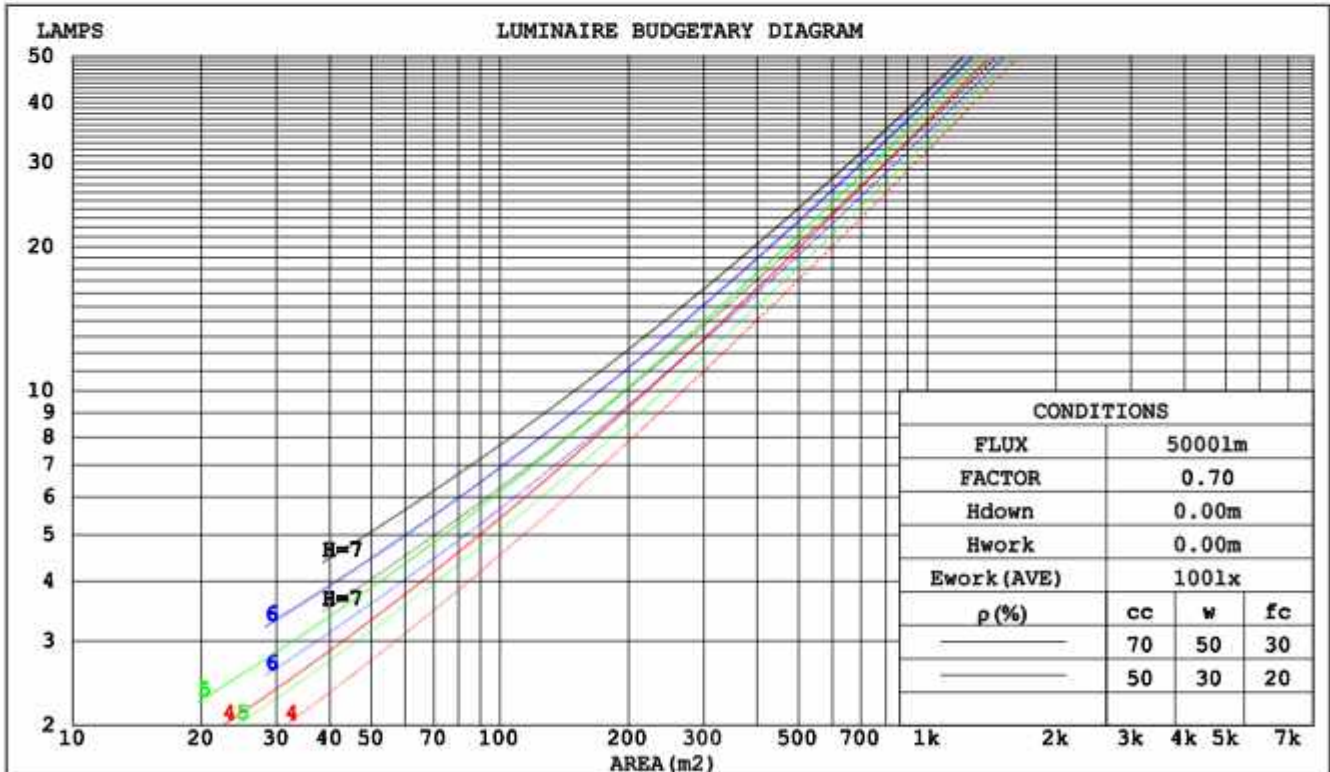
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70% |     |     | 50%                             |     |     | 30% |     |     | 10% |     |     | 0   |
|------|-----------------------|------|------|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| pw   | 50%                   | 30%  | 10%  | 50% | 30% | 10% | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |      |      | 20% |     |     | 20%                             |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |     |     |     | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |
| 0.0  | 1.01                  | 1.01 | 1.01 | .98 | .98 | .98 | .94                             | .94 | .94 | .89 | .89 | .89 | .85 | .85 | .85 | .83 |
| 1.0  | .90                   | .87  | .84  | .88 | .85 | .83 | .84                             | .82 | .80 | .81 | .79 | .77 | .77 | .76 | .74 | .73 |
| 2.0  | .80                   | .75  | .70  | .78 | .73 | .69 | .75                             | .71 | .68 | .72 | .69 | .66 | .69 | .66 | .64 | .62 |
| 3.0  | .71                   | .65  | .60  | .70 | .64 | .59 | .67                             | .62 | .58 | .64 | .60 | .57 | .62 | .58 | .55 | .54 |
| 4.0  | .63                   | .57  | .51  | .62 | .56 | .51 | .60                             | .54 | .50 | .58 | .53 | .49 | .56 | .52 | .48 | .47 |
| 5.0  | .57                   | .50  | .45  | .56 | .49 | .44 | .54                             | .48 | .44 | .52 | .47 | .43 | .50 | .46 | .42 | .41 |
| 6.0  | .52                   | .44  | .39  | .51 | .44 | .39 | .49                             | .43 | .39 | .47 | .42 | .38 | .46 | .41 | .38 | .36 |
| 7.0  | .47                   | .40  | .35  | .46 | .39 | .35 | .45                             | .39 | .34 | .43 | .38 | .34 | .42 | .37 | .34 | .32 |
| 8.0  | .43                   | .36  | .31  | .42 | .36 | .31 | .41                             | .35 | .31 | .40 | .34 | .31 | .39 | .34 | .30 | .29 |
| 9.0  | .39                   | .33  | .28  | .39 | .32 | .28 | .38                             | .32 | .28 | .37 | .31 | .28 | .36 | .31 | .27 | .26 |
| 10.0 | .36                   | .30  | .26  | .36 | .30 | .26 | .35                             | .29 | .25 | .34 | .29 | .25 | .33 | .28 | .25 | .24 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .226                  | .128 | .041 | .219 | .125 | .040 | .207                            | .119 | .038 | .196 | .113 | .036 | .186 | .108 | .035 |   |
| 2.0  | .218                  | .119 | .037 | .212 | .117 | .036 | .202                            | .112 | .035 | .192 | .108 | .034 | .183 | .103 | .033 |   |
| 3.0  | .206                  | .110 | .033 | .201 | .108 | .032 | .192                            | .104 | .032 | .183 | .100 | .031 | .175 | .097 | .030 |   |
| 4.0  | .193                  | .100 | .030 | .189 | .099 | .029 | .180                            | .096 | .029 | .173 | .093 | .028 | .165 | .090 | .027 |   |
| 5.0  | .181                  | .092 | .027 | .177 | .091 | .026 | .170                            | .088 | .026 | .163 | .086 | .026 | .156 | .083 | .025 |   |
| 6.0  | .170                  | .085 | .024 | .166 | .084 | .024 | .159                            | .082 | .024 | .153 | .080 | .023 | .147 | .078 | .023 |   |
| 7.0  | .159                  | .079 | .022 | .156 | .078 | .022 | .150                            | .076 | .022 | .144 | .074 | .022 | .139 | .072 | .021 |   |
| 8.0  | .150                  | .073 | .021 | .147 | .072 | .020 | .141                            | .071 | .020 | .136 | .069 | .020 | .131 | .068 | .020 |   |
| 9.0  | .141                  | .068 | .019 | .138 | .067 | .019 | .134                            | .066 | .019 | .129 | .065 | .018 | .125 | .063 | .018 |   |
| 10.0 | .133                  | .064 | .018 | .131 | .063 | .018 | .126                            | .062 | .017 | .122 | .061 | .017 | .118 | .059 | .017 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .176                  | .176 | .176 | .151 | .151 | .151 | .103                                       | .103 | .103 | .059 | .059 | .059 | .019 | .019 | .019 |   |
| 1.0  | .165                  | .147 | .132 | .141 | .127 | .113 | .097                                       | .087 | .078 | .056 | .050 | .046 | .018 | .016 | .015 |   |
| 2.0  | .157                  | .127 | .101 | .134 | .109 | .088 | .092                                       | .075 | .061 | .053 | .044 | .036 | .017 | .014 | .012 |   |
| 3.0  | .150                  | .111 | .081 | .128 | .096 | .070 | .088                                       | .067 | .049 | .051 | .039 | .029 | .016 | .013 | .010 |   |
| 4.0  | .143                  | .100 | .067 | .123 | .086 | .058 | .085                                       | .060 | .041 | .049 | .035 | .024 | .016 | .011 | .008 |   |
| 5.0  | .137                  | .091 | .057 | .118 | .079 | .049 | .081                                       | .055 | .035 | .047 | .032 | .021 | .015 | .011 | .007 |   |
| 6.0  | .131                  | .084 | .049 | .113 | .072 | .043 | .078                                       | .051 | .030 | .045 | .030 | .018 | .015 | .010 | .006 |   |
| 7.0  | .126                  | .078 | .044 | .108 | .067 | .038 | .075                                       | .047 | .027 | .043 | .028 | .016 | .014 | .009 | .005 |   |
| 8.0  | .121                  | .073 | .040 | .104 | .063 | .035 | .072                                       | .044 | .025 | .042 | .026 | .015 | .014 | .009 | .005 |   |
| 9.0  | .116                  | .069 | .037 | .100 | .060 | .032 | .069                                       | .042 | .023 | .040 | .025 | .014 | .013 | .008 | .004 |   |
| 10.0 | .111                  | .065 | .034 | .096 | .057 | .030 | .067                                       | .040 | .021 | .039 | .024 | .013 | .013 | .008 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |        | TYPE:            |      |      |      |      | WEIGHT:           |      |      |      |      |
|--|--------|------------------|------|------|------|------|-------------------|------|------|------|------|
| DIM.:  |        | SPEC.:           |      |      |      |      | SERIAL No.:       |      |      |      |      |
| MFR.: HXD  |        | SUR.:            |      |      |      |      | PROTECTION ANGLE: |      |      |      |      |
| ceiling/cavity                                     |        | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7               | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  |        | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5               | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      |        | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    |        | Viewed crosswise |      |      |      |      | Viewed endwise    |      |      |      |      |
| x = 2H   | y = 2H | 15.5             | 16.9 | 15.8 | 17.1 | 17.3 | 15.5              | 16.9 | 15.8 | 17.1 | 17.3 |
|  | 3H     | 16.0             | 17.2 | 16.3 | 17.5 | 17.8 | 15.9              | 17.2 | 16.2 | 17.5 | 17.7 |
|  | 4H     | 16.0             | 17.2 | 16.3 | 17.5 | 17.8 | 16.0              | 17.2 | 16.3 | 17.4 | 17.7 |
|  | 6H     | 16.0             | 17.1 | 16.4 | 17.4 | 17.7 | 16.0              | 17.1 | 16.3 | 17.4 | 17.7 |
|  | 8H     | 16.0             | 17.1 | 16.4 | 17.4 | 17.7 | 16.0              | 17.0 | 16.3 | 17.4 | 17.7 |
|  | 12H    | 16.0             | 17.0 | 16.4 | 17.3 | 17.7 | 16.0              | 17.0 | 16.3 | 17.3 | 17.7 |
| 4H   | 2H     | 15.8             | 17.0 | 16.1 | 17.3 | 17.5 | 15.8              | 17.0 | 16.1 | 17.2 | 17.5 |
|  | 3H     | 16.3             | 17.3 | 16.7 | 17.7 | 18.0 | 16.3              | 17.3 | 16.7 | 17.6 | 18.0 |
|  | 4H     | 16.4             | 17.3 | 16.8 | 17.7 | 18.1 | 16.4              | 17.3 | 16.8 | 17.7 | 18.0 |
|  | 6H     | 16.4             | 17.3 | 16.9 | 17.7 | 18.1 | 16.4              | 17.3 | 16.9 | 17.6 | 18.0 |
|  | 8H     | 16.5             | 17.2 | 16.9 | 17.6 | 18.1 | 16.5              | 17.2 | 16.9 | 17.6 | 18.0 |
|  | 12H    | 16.5             | 17.2 | 16.9 | 17.6 | 18.1 | 16.5              | 17.2 | 16.9 | 17.6 | 18.0 |
| 8H   | 4H     | 16.4             | 17.1 | 16.8 | 17.5 | 17.9 | 16.3              | 17.1 | 16.8 | 17.5 | 17.9 |
|  | 6H     | 16.5             | 17.1 | 16.9 | 17.5 | 18.0 | 16.5              | 17.1 | 16.9 | 17.5 | 18.0 |
|  | 8H     | 16.5             | 17.1 | 17.0 | 17.6 | 18.0 | 16.5              | 17.1 | 17.0 | 17.5 | 18.0 |
|  | 12H    | 16.6             | 17.1 | 17.1 | 17.6 | 18.1 | 16.6              | 17.1 | 17.1 | 17.5 | 18.1 |
| 12H  | 4H     | 16.3             | 17.0 | 16.8 | 17.4 | 17.9 | 16.3              | 17.0 | 16.8 | 17.4 | 17.9 |
|  | 6H     | 16.5             | 17.0 | 17.0 | 17.5 | 18.0 | 16.4              | 17.0 | 16.9 | 17.5 | 18.0 |
|  | 8H     | 16.5             | 17.0 | 17.1 | 17.5 | 18.0 | 16.5              | 17.0 | 17.0 | 17.5 | 18.0 |
| Variations with the observer position at spacings: |        |                  |      |      |      |      |                   |      |      |      |      |
| S = 1.0H   |        | + 0.4 / - 0.5    |      |      |      |      | + 0.4 / - 0.5     |      |      |      |      |
| 1.5H   |        | + 0.3 / - 0.6    |      |      |      |      | + 0.3 / - 0.5     |      |      |      |      |
| 2.0H   |        | + 0.8 / - 1.0    |      |      |      |      | + 0.8 / - 1.0     |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

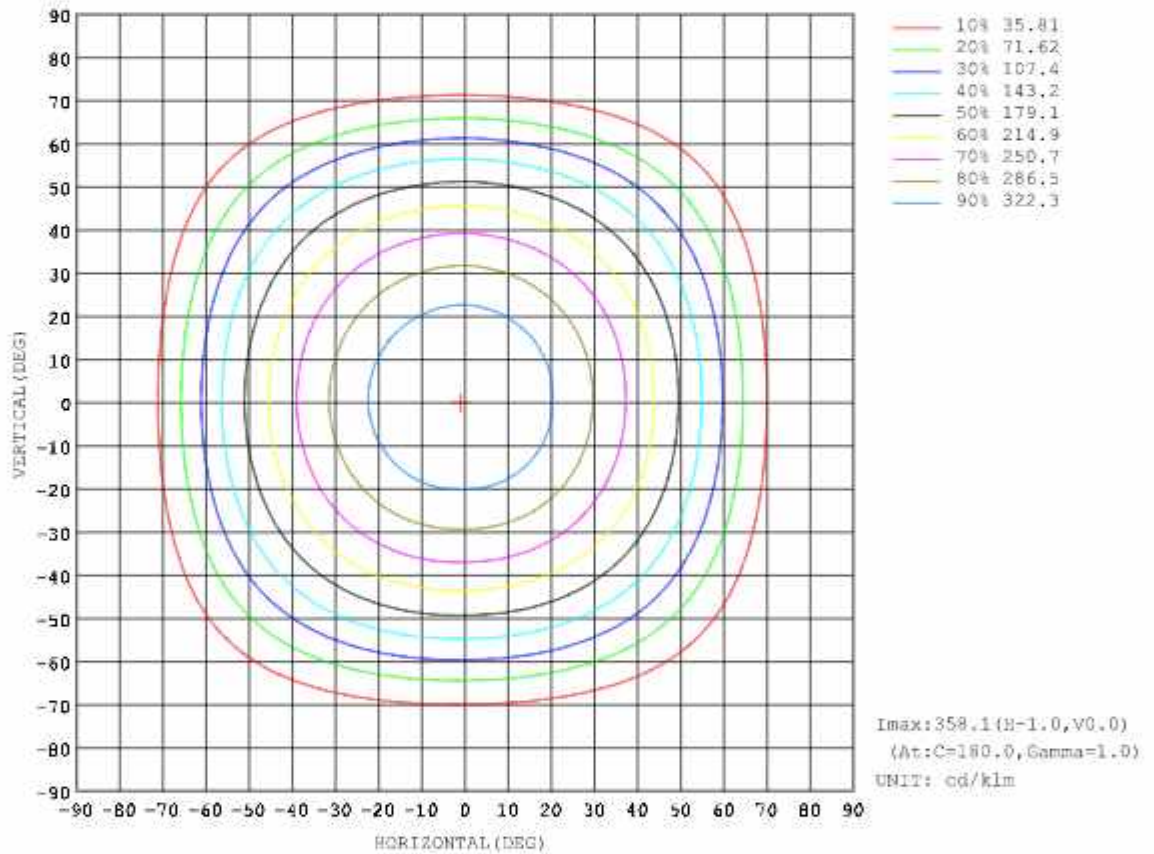
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| $k = 0.60$                       | 52   | 43  | 37        | 51  | 42  | 37  | 50            | 42  | 37  | 32     |
| 0.80                             | 61   | 52  | 46        | 60  | 51  | 46  | 58            | 50  | 45  | 40     |
| 1.00                             | 68   | 60  | 54        | 67  | 59  | 54  | 65            | 60  | 53  | 47     |
| 1.25                             | 74   | 66  | 61        | 73  | 65  | 60  | 70            | 64  | 59  | 54     |
| 1.50                             | 78   | 71  | 65        | 77  | 70  | 65  | 74            | 68  | 64  | 58     |
| 2.00                             | 83   | 77  | 72        | 82  | 76  | 72  | 79            | 74  | 70  | 64     |
| 2.50                             | 86   | 81  | 76        | 85  | 79  | 75  | 81            | 77  | 73  | 66     |
| 3.00                             | 89   | 84  | 80        | 87  | 82  | 79  | 83            | 80  | 77  | 69     |
| 4.00                             | 92   | 88  | 84        | 90  | 86  | 83  | 86            | 83  | 80  | 73     |
| 5.00                             | 94   | 90  | 87        | 91  | 88  | 85  | 87            | 85  | 83  | 75     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

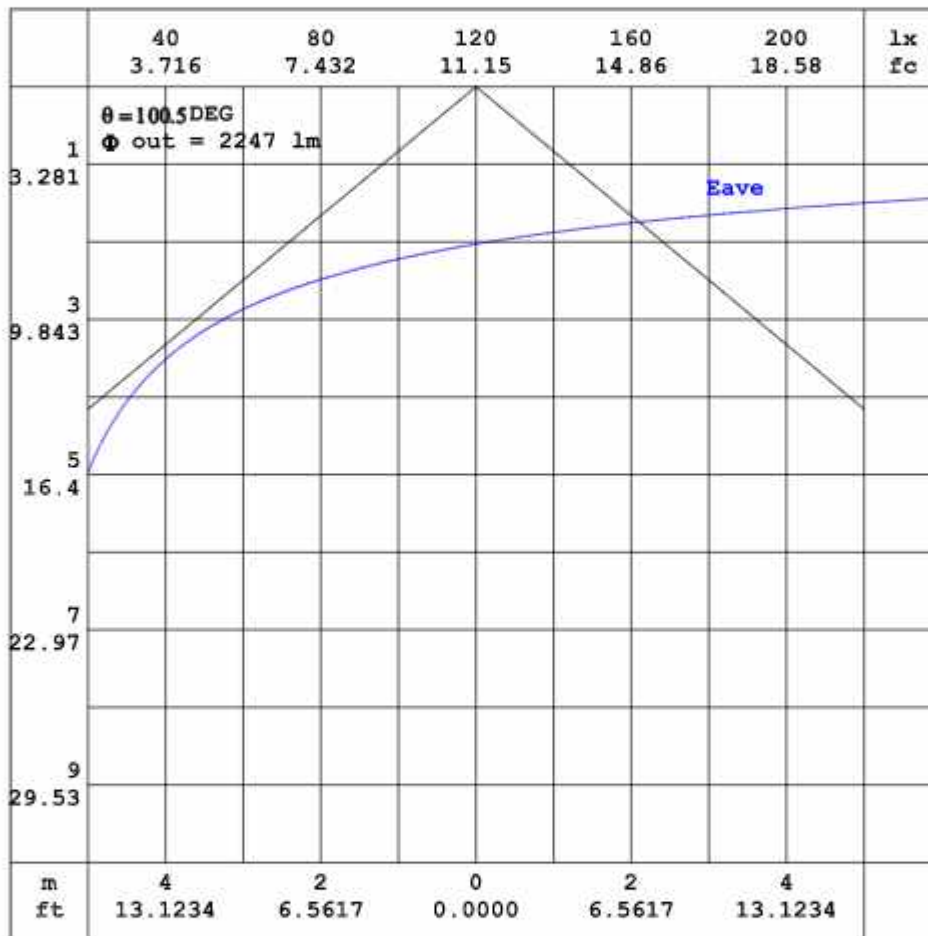


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



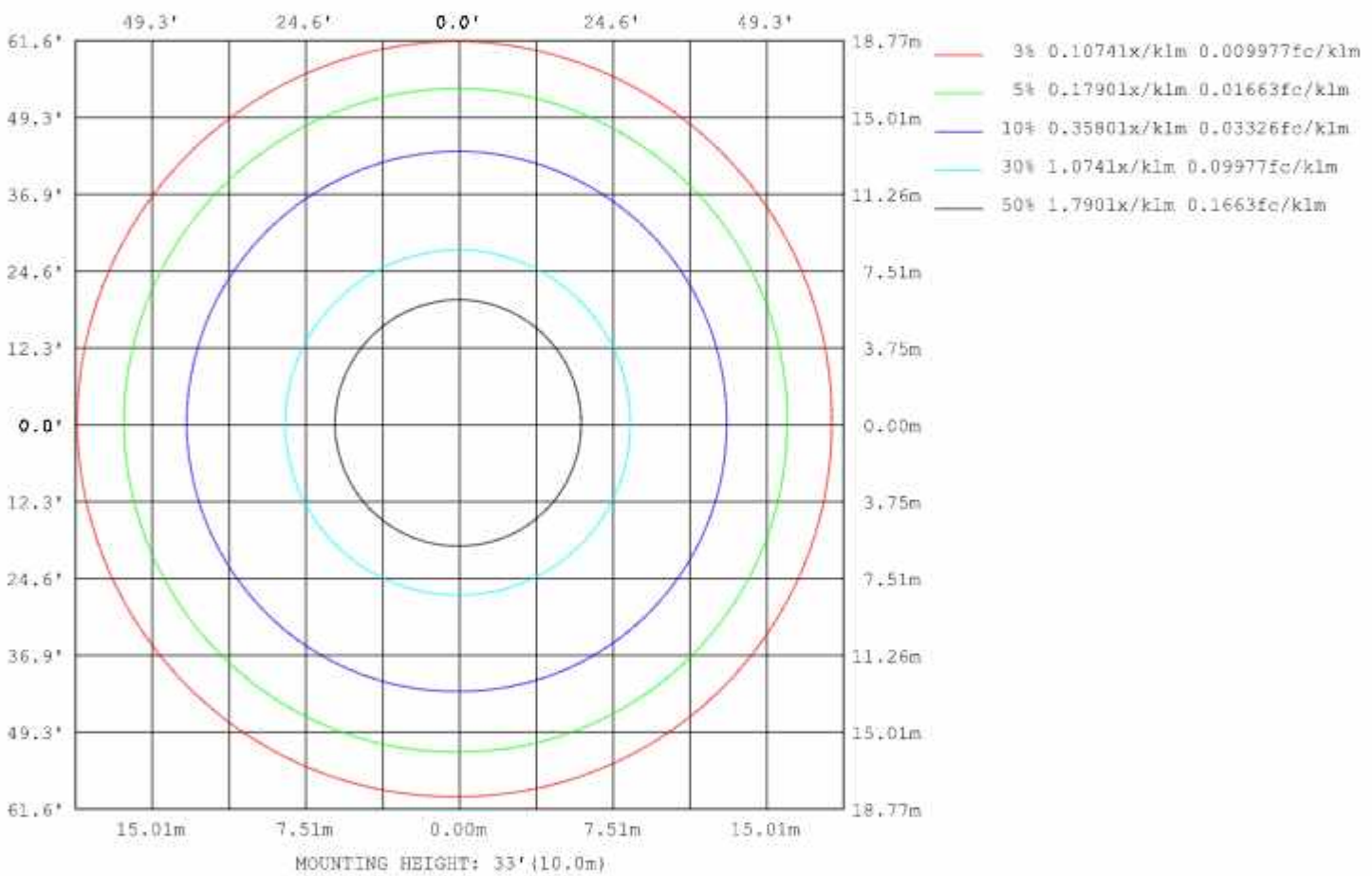
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

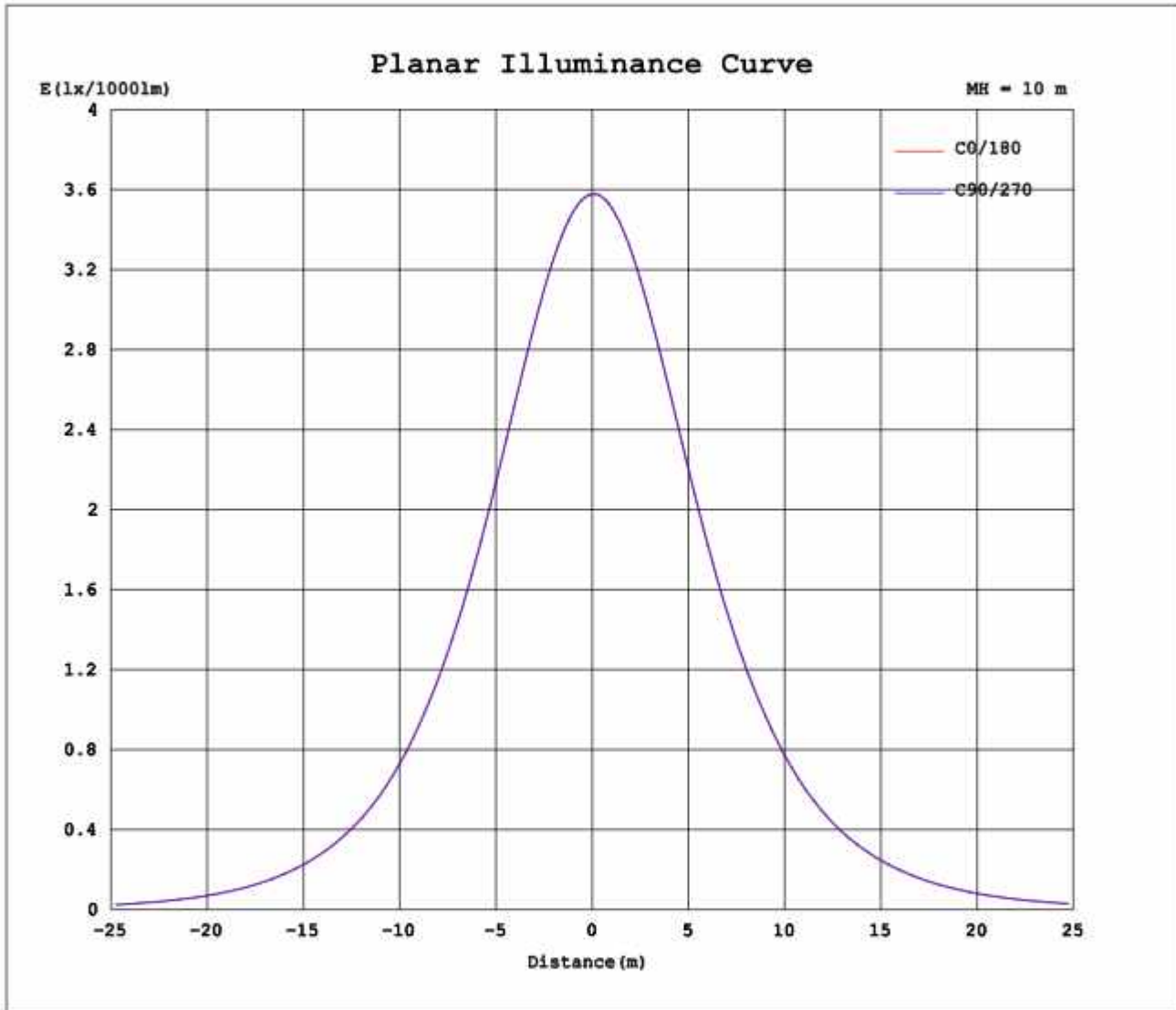


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 358  | 358  | 358  | 358  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 355  | 355  | 357  | 357  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 348  | 348  | 352  | 352  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 338  | 337  | 343  | 343  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 323  | 323  | 330  | 331  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 305  | 305  | 313  | 314  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 285  | 283  | 293  | 294  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 261  | 260  | 271  | 272  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 236  | 235  | 246  | 247  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 207  | 206  | 218  | 219  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 176  | 174  | 186  | 187  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 142  | 141  | 153  | 154  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 105  | 104  | 116  | 118  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 67.1 | 66.9 | 77.9 | 79.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 35.5 | 35.2 | 42.4 | 43.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 17.9 | 17.8 | 20.0 | 20.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 10.9 | 10.9 | 10.7 | 10.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 5.84 | 5.78 | 5.70 | 5.62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 3.21 | 3.20 | 1.64 | 1.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 3.22 | 3.22 | 1.36 | 1.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 3.24 | 3.24 | 1.51 | 1.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 3.26 | 3.26 | 1.69 | 1.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 3.29 | 3.29 | 1.87 | 1.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 3.33 | 3.33 | 2.06 | 2.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 3.38 | 3.38 | 2.25 | 2.22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 3.44 | 3.43 | 2.44 | 2.41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 3.49 | 3.48 | 2.62 | 2.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 3.56 | 3.54 | 2.79 | 2.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 3.64 | 3.62 | 2.96 | 2.92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 3.73 | 3.71 | 3.13 | 3.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 3.83 | 3.81 | 3.31 | 3.30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 3.95 | 3.93 | 3.51 | 3.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 4.06 | 4.06 | 3.70 | 3.70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 4.16 | 4.17 | 3.88 | 3.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 4.24 | 4.25 | 4.05 | 4.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 4.27 | 4.29 | 4.18 | 4.18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 4.26 | 4.27 | 4.26 | 4.28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

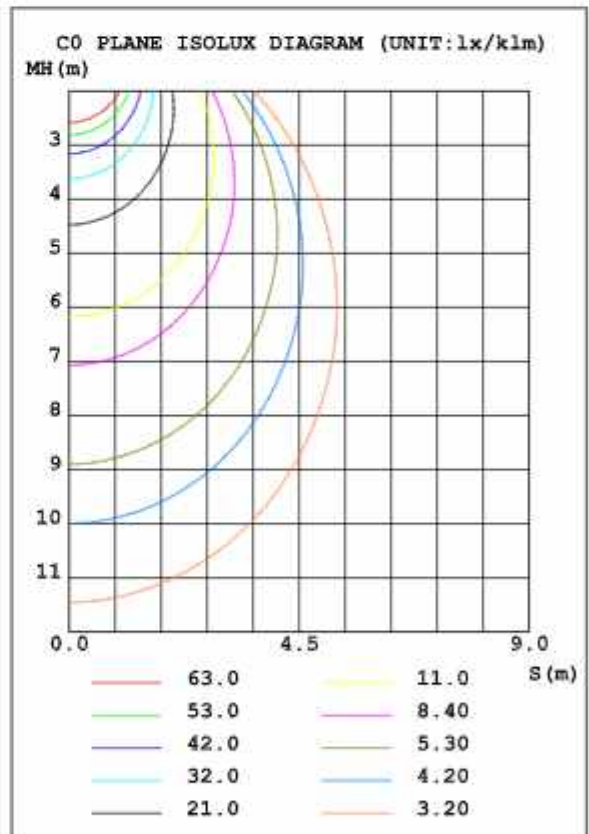
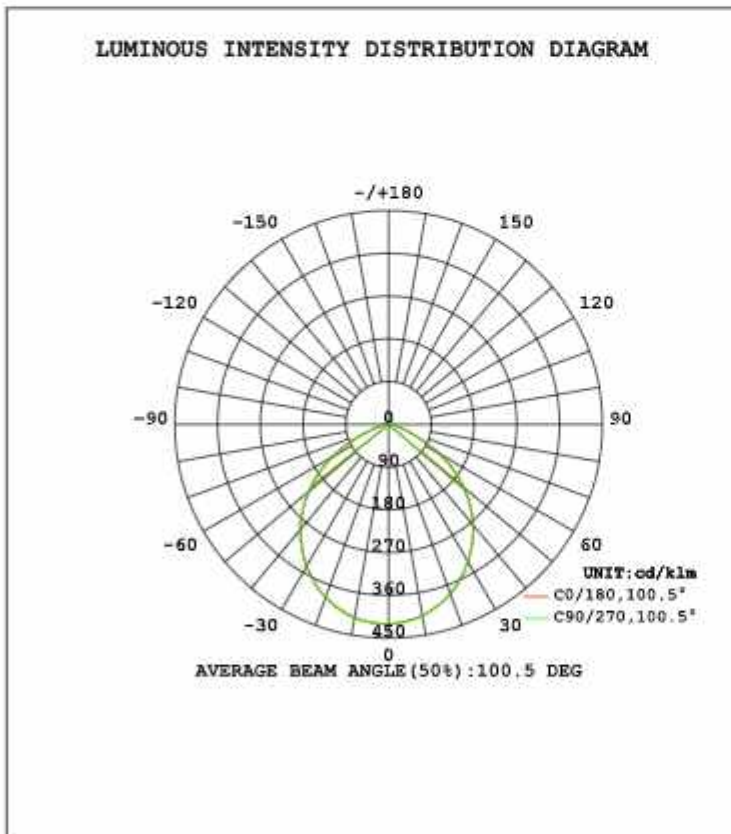
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 420.2  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 28           | LOR (%)             | 100.1  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1000.5 | $\eta$ UP, DN (C0-180)   | 1.3, 47.6 |
| NOMINAL FLUX (lm) | 3641.41      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 50.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.1    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 97.9   | CIBSE SHR MAX            | 1.35      |



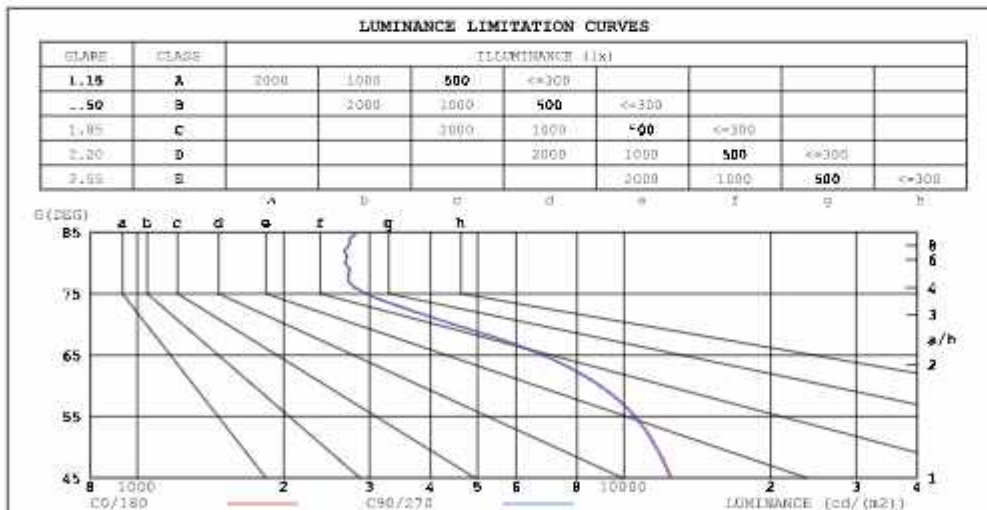
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|--|
| 10       | 408.7                     | 408.5 | 413.0 | 413.2 |  |  |  | 0- 10       | 39.66       | 39.66        | 3.96, 3.97       |  |
| 20       | 379.6                     | 379.0 | 387.4 | 388.3 |  |  |  | 10- 20      | 112.6       | 152.3        | 15.2, 15.2       |  |
| 30       | 334.3                     | 333.4 | 344.0 | 345.6 |  |  |  | 20- 30      | 167.2       | 319.5        | 31.9, 31.9       |  |
| 40       | 277.4                     | 276.2 | 288.5 | 290.3 |  |  |  | 30- 40      | 195.3       | 514.8        | 51.4, 51.5       |  |
| 50       | 205.9                     | 204.4 | 218.4 | 219.9 |  |  |  | 40- 50      | 191.8       | 706.6        | 70.6, 70.7       |  |
| 60       | 123.0                     | 122.1 | 136.2 | 137.8 |  |  |  | 50- 60      | 153.7       | 860.3        | 86, 86           |  |
| 70       | 42.15                     | 41.76 | 50.25 | 51.76 |  |  |  | 60- 70      | 85.20       | 945.5        | 94.5, 94.5       |  |
| 80       | 12.73                     | 12.75 | 12.52 | 12.52 |  |  |  | 70- 80      | 26.28       | 971.8        | 97.1, 97.2       |  |
| 90       | 3.756                     | 3.722 | 1.884 | 1.811 |  |  |  | 80- 90      | 7.584       | 979.3        | 97.9, 97.9       |  |
| 100      | 3.754                     | 3.764 | 1.737 | 1.722 |  |  |  | 90-100      | 2.901       | 982.2        | 98.2, 98.2       |  |
| 110      | 3.818                     | 3.828 | 2.159 | 2.140 |  |  |  | 100-110     | 3.026       | 985.3        | 98.5, 98.5       |  |
| 120      | 3.926                     | 3.930 | 2.600 | 2.578 |  |  |  | 110-120     | 3.096       | 988.4        | 98.8, 98.8       |  |
| 130      | 4.061                     | 4.050 | 3.027 | 2.994 |  |  |  | 120-130     | 3.046       | 991.4        | 99.1, 99.1       |  |
| 140      | 4.232                     | 4.211 | 3.429 | 3.399 |  |  |  | 130-140     | 2.841       | 994.2        | 99.4, 99.4       |  |
| 150      | 4.458                     | 4.442 | 3.850 | 3.837 |  |  |  | 140-150     | 2.494       | 996.7        | 99.6, 99.7       |  |
| 160      | 4.732                     | 4.727 | 4.300 | 4.306 |  |  |  | 150-160     | 1.999       | 998.7        | 99.8, 99.9       |  |
| 170      | 4.935                     | 4.950 | 4.707 | 4.713 |  |  |  | 160-170     | 1.322       | 1000         | 100, 100         |  |
| 180      | 4.965                     | 4.979 | 4.961 | 4.977 |  |  |  | 170-180     | 0.4672      | 1001         | 100, 100         |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |  |



| LUMINANCE cd/ (m2) |        |         |
|--------------------|--------|---------|
| G (DEG)            | C0/180 | C90/270 |
| 85                 | 2845   | 2815    |
| 80                 | 2670   | 2674    |
| 75                 | 2452   | 2448    |
| 70                 | 4488   | 4446    |
| 65                 | 6807   | 6782    |
| 60                 | 8960   | 8889    |
| 55                 | 10562  | 10486   |
| 50                 | 11667  | 11580   |
| 45                 | 12521  | 12444   |

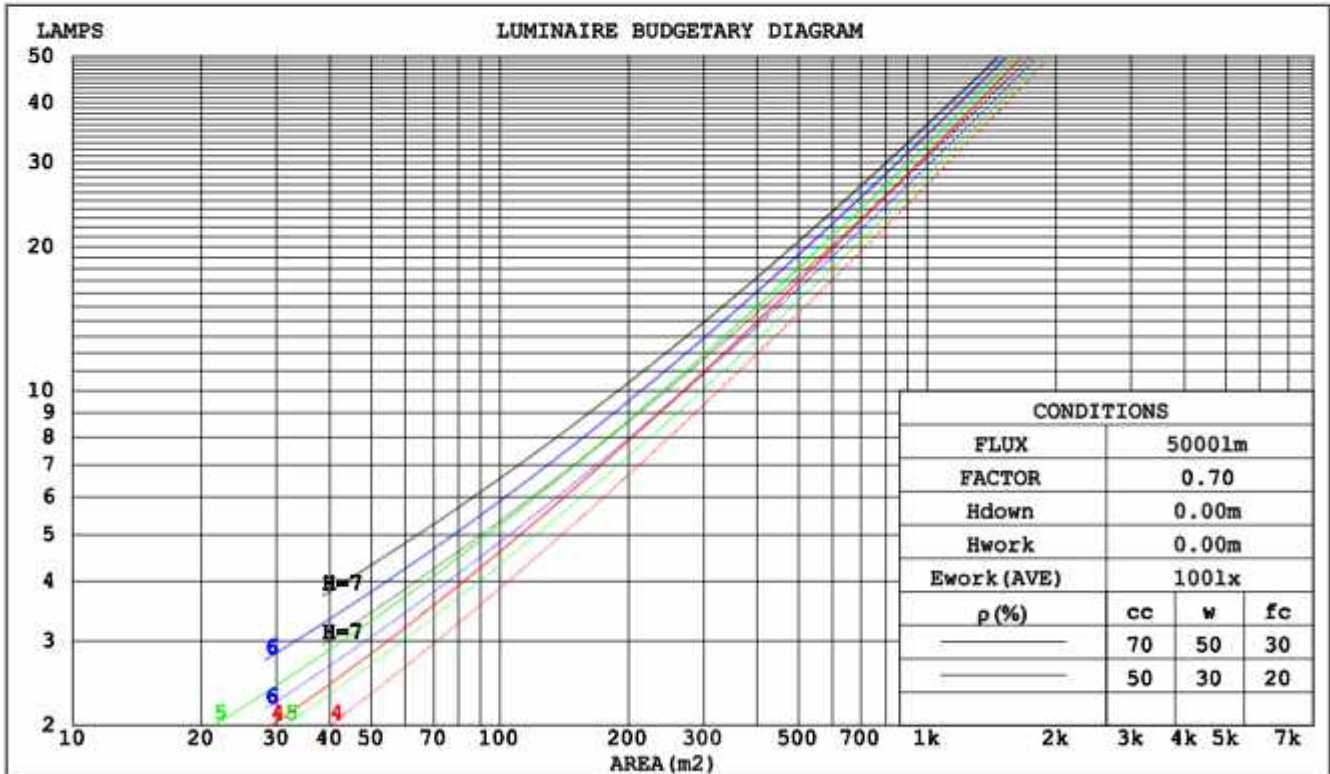
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Coefficients of Utilization(CU) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | 1.06                  | 1.02 | .99  | 1.03 | .90  | .97  | .99  | .96  | .94  | .95  | .92  | .90  | .91  | .89  | .87  | .85                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.0  | .94                   | .88  | .83  | .92  | .86  | .81  | .88  | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.0  | .83                   | .76  | .70  | .82  | .75  | .69  | .78  | .73  | .68  | .75  | .71  | .66  | .73  | .69  | .65  | .63                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.0  | .74                   | .66  | .60  | .73  | .65  | .60  | .70  | .64  | .59  | .68  | .62  | .58  | .65  | .61  | .57  | .55                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.0  | .67                   | .59  | .52  | .66  | .58  | .52  | .63  | .57  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .48                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.0  | .61                   | .52  | .46  | .59  | .52  | .46  | .57  | .50  | .45  | .56  | .49  | .45  | .54  | .48  | .44  | .42                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.0  | .55                   | .47  | .41  | .54  | .46  | .41  | .52  | .45  | .40  | .51  | .45  | .40  | .49  | .44  | .39  | .38                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.0  | .50                   | .42  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .40  | .36  | .45  | .40  | .36  | .34                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.0  | .46                   | .38  | .33  | .46  | .38  | .33  | .44  | .38  | .33  | .43  | .37  | .32  | .42  | .36  | .32  | .30                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.0 | .43                   | .35  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .39  | .33  | .29  | .28                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .265                  | .151 | .048 | .257 | .147 | .047 | .243                            | .139 | .045 | .230 | .133 | .043 | .218 | .126 | .041 |   |
| 2.0  | .256                  | .140 | .043 | .249 | .137 | .042 | .237                            | .132 | .041 | .225 | .126 | .040 | .215 | .121 | .038 |   |
| 3.0  | .242                  | .129 | .039 | .236 | .126 | .038 | .225                            | .122 | .037 | .215 | .118 | .036 | .205 | .114 | .035 |   |
| 4.0  | .227                  | .118 | .035 | .222 | .116 | .034 | .212                            | .112 | .034 | .203 | .109 | .033 | .194 | .106 | .032 |   |
| 5.0  | .213                  | .108 | .031 | .208 | .107 | .031 | .199                            | .104 | .031 | .191 | .101 | .030 | .183 | .098 | .029 |   |
| 6.0  | .199                  | .100 | .029 | .195 | .099 | .028 | .187                            | .096 | .028 | .180 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .187                  | .092 | .026 | .183 | .091 | .026 | .176                            | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 |   |
| 8.0  | .176                  | .086 | .024 | .172 | .085 | .024 | .166                            | .083 | .024 | .160 | .081 | .023 | .154 | .079 | .023 |   |
| 9.0  | .166                  | .080 | .022 | .163 | .079 | .022 | .157                            | .078 | .022 | .151 | .076 | .022 | .146 | .074 | .021 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .148                            | .073 | .020 | .143 | .071 | .020 | .139 | .070 | .020 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .207                  | .207 | .207 | .177 | .177 | .177 | .121                                       | .121 | .121 | .069 | .069 | .069 | .022 | .022 | .022 |   |
| 1.0  | .194                  | .173 | .154 | .166 | .148 | .133 | .113                                       | .102 | .092 | .065 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .149 | .119 | .158 | .128 | .103 | .108                                       | .088 | .072 | .062 | .051 | .042 | .020 | .017 | .014 |   |
| 3.0  | .176                  | .131 | .095 | .151 | .113 | .082 | .103                                       | .078 | .058 | .060 | .046 | .034 | .019 | .015 | .011 |   |
| 4.0  | .168                  | .117 | .078 | .144 | .101 | .068 | .099                                       | .071 | .048 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .161                  | .107 | .066 | .138 | .092 | .058 | .095                                       | .064 | .041 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0  | .154                  | .098 | .058 | .132 | .085 | .050 | .091                                       | .059 | .036 | .053 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .148                  | .091 | .052 | .127 | .079 | .045 | .088                                       | .055 | .032 | .051 | .033 | .019 | .016 | .011 | .006 |   |
| 8.0  | .142                  | .085 | .047 | .122 | .074 | .041 | .084                                       | .052 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0  | .136                  | .080 | .043 | .117 | .070 | .037 | .081                                       | .049 | .027 | .047 | .029 | .016 | .015 | .010 | .005 |   |
| 10.0 | .131                  | .076 | .040 | .113 | .066 | .035 | .078                                       | .047 | .025 | .046 | .028 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

|  |                  |      |      |      |        |                |      |      |      |                   |      |      |      |      |      |
|--|------------------|------|------|------|--------|----------------|------|------|------|-------------------|------|------|------|------|------|
| NAME: 10寸商照筒灯                                      |                  |      |      |      | TYPE:  |                |      |      |      | WEIGHT:           |      |      |      |      |      |
| DIM.:  |                  |      |      |      | SPEC.: |                |      |      |      | SERIAL No.:       |      |      |      |      |      |
| MFR.: HXD  |                  |      |      |      | SUR.:  |                |      |      |      | PROTECTION ANGLE: |      |      |      |      |      |
| ceiling/cavity                                     | 0.7              | 0.7  | 0.5  | 0.5  | 0.3    | 0.7            | 0.7  | 0.5  | 0.5  | 0.3               | 0.7  | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3    | 0.5            | 0.3  | 0.5  | 0.3  | 0.3               | 0.5  | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2    | 0.2            | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    | Viewed crosswise |      |      |      |        | Viewed endwise |      |      |      |                   |      |      |      |      |      |
| x = 2H y = 2H                                      | 16.1             | 17.4 | 16.3 | 17.7 | 17.9   | 16.0           | 17.4 | 16.3 | 17.6 | 17.9              | 16.1 | 17.4 | 16.3 | 17.7 | 17.9 |
| 3H   | 16.5             | 17.8 | 16.8 | 18.0 | 18.3   | 16.5           | 17.8 | 16.8 | 18.0 | 18.3              | 16.5 | 17.7 | 16.9 | 18.0 | 18.3 |
| 4H   | 16.6             | 17.8 | 16.9 | 18.0 | 18.3   | 16.5           | 17.7 | 16.9 | 18.0 | 18.3              | 16.5 | 17.7 | 16.9 | 18.0 | 18.3 |
| 6H   | 16.6             | 17.7 | 16.9 | 18.0 | 18.3   | 16.5           | 17.7 | 16.9 | 18.0 | 18.3              | 16.5 | 17.7 | 16.9 | 18.0 | 18.3 |
| 8H   | 16.6             | 17.6 | 16.9 | 17.9 | 18.3   | 16.5           | 17.6 | 16.9 | 17.9 | 18.2              | 16.5 | 17.6 | 16.9 | 17.9 | 18.2 |
| 12H  | 16.5             | 17.6 | 16.9 | 17.9 | 18.2   | 16.5           | 17.6 | 16.9 | 17.9 | 18.2              | 16.5 | 17.6 | 16.9 | 17.9 | 18.2 |
| 4H 2H  | 16.3             | 17.5 | 16.7 | 17.8 | 18.1   | 16.3           | 17.5 | 16.6 | 17.8 | 18.1              | 16.3 | 17.5 | 16.6 | 17.8 | 18.1 |
| 3H   | 16.9             | 17.9 | 17.2 | 18.2 | 18.6   | 16.9           | 17.9 | 17.2 | 18.2 | 18.6              | 16.9 | 17.9 | 17.2 | 18.2 | 18.6 |
| 4H   | 17.0             | 17.9 | 17.4 | 18.2 | 18.6   | 16.9           | 17.9 | 17.3 | 18.2 | 18.6              | 16.9 | 17.9 | 17.3 | 18.2 | 18.6 |
| 6H   | 17.0             | 17.8 | 17.4 | 18.2 | 18.6   | 17.0           | 17.8 | 17.4 | 18.2 | 18.6              | 17.0 | 17.8 | 17.4 | 18.2 | 18.6 |
| 8H   | 17.0             | 17.8 | 17.5 | 18.2 | 18.6   | 17.0           | 17.8 | 17.5 | 18.2 | 18.6              | 17.0 | 17.8 | 17.5 | 18.2 | 18.6 |
| 12H  | 17.1             | 17.8 | 17.5 | 18.2 | 18.6   | 17.0           | 17.7 | 17.5 | 18.2 | 18.6              | 17.0 | 17.7 | 17.5 | 18.2 | 18.6 |
| 8H 4H  | 16.9             | 17.7 | 17.4 | 18.1 | 18.5   | 16.9           | 17.7 | 17.3 | 18.1 | 18.5              | 16.9 | 17.7 | 17.3 | 18.1 | 18.5 |
| 6H   | 17.0             | 17.7 | 17.5 | 18.1 | 18.6   | 17.0           | 17.7 | 17.5 | 18.1 | 18.6              | 17.0 | 17.7 | 17.5 | 18.1 | 18.6 |
| 8H   | 17.1             | 17.7 | 17.6 | 18.1 | 18.6   | 17.1           | 17.6 | 17.6 | 18.1 | 18.6              | 17.1 | 17.6 | 17.6 | 18.1 | 18.6 |
| 12H  | 17.2             | 17.6 | 17.7 | 18.1 | 18.6   | 17.2           | 17.6 | 17.7 | 18.1 | 18.6              | 17.2 | 17.6 | 17.7 | 18.1 | 18.6 |
| 12H 4H   | 16.9             | 17.6 | 17.3 | 18.0 | 18.5   | 16.9           | 17.6 | 17.3 | 18.0 | 18.4              | 16.9 | 17.6 | 17.3 | 18.0 | 18.4 |
| 6H   | 17.0             | 17.6 | 17.5 | 18.0 | 18.5   | 17.0           | 17.6 | 17.5 | 18.0 | 18.5              | 17.0 | 17.6 | 17.5 | 18.0 | 18.5 |
| 8H   | 17.1             | 17.6 | 17.6 | 18.1 | 18.6   | 17.1           | 17.6 | 17.6 | 18.0 | 18.6              | 17.1 | 17.6 | 17.6 | 18.0 | 18.6 |
| Variations with the observer position at spacings: |                  |      |      |      |        |                |      |      |      |                   |      |      |      |      |      |
| S = 1.0H   | + 0.4 / - 0.5    |      |      |      |        | + 0.4 / - 0.5  |      |      |      |                   |      |      |      |      |      |
| 1.5H   | + 0.3 / - 0.5    |      |      |      |        | + 0.3 / - 0.5  |      |      |      |                   |      |      |      |      |      |
| 2.0H   | + 0.8 / - 1.0    |      |      |      |        | + 0.8 / - 1.0  |      |      |      |                   |      |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 61  | 50  | 43        | 60  | 50  | 43  | 59            | 49  | 43  | 37     |
| 0.80                             | 71  | 61  | 54        | 70  | 60  | 54  | 68            | 59  | 53  | 47     |
| 1.00                             | 80  | 70  | 63        | 79  | 69  | 63  | 76            | 70  | 62  | 56     |
| 1.25                             | 87  | 78  | 71        | 85  | 77  | 71  | 83            | 75  | 70  | 63     |
| 1.50                             | 92  | 83  | 77        | 90  | 82  | 76  | 87            | 80  | 75  | 68     |
| 2.00                             | 98  | 91  | 85        | 96  | 89  | 84  | 93            | 87  | 82  | 75     |
| 2.50                             | 101   | 95  | 89        | 99  | 93  | 88  | 95            | 90  | 86  | 78     |
| 3.00                             | 104   | 98  | 94        | 102 | 97  | 92  | 98            | 94  | 90  | 81     |
| 4.00                             | 108   | 103 | 99        | 105 | 101 | 97  | 101           | 97  | 94  | 85     |
| 5.00                             | 110   | 106 | 102       | 107 | 103 | 100 | 103           | 100 | 97  | 88     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

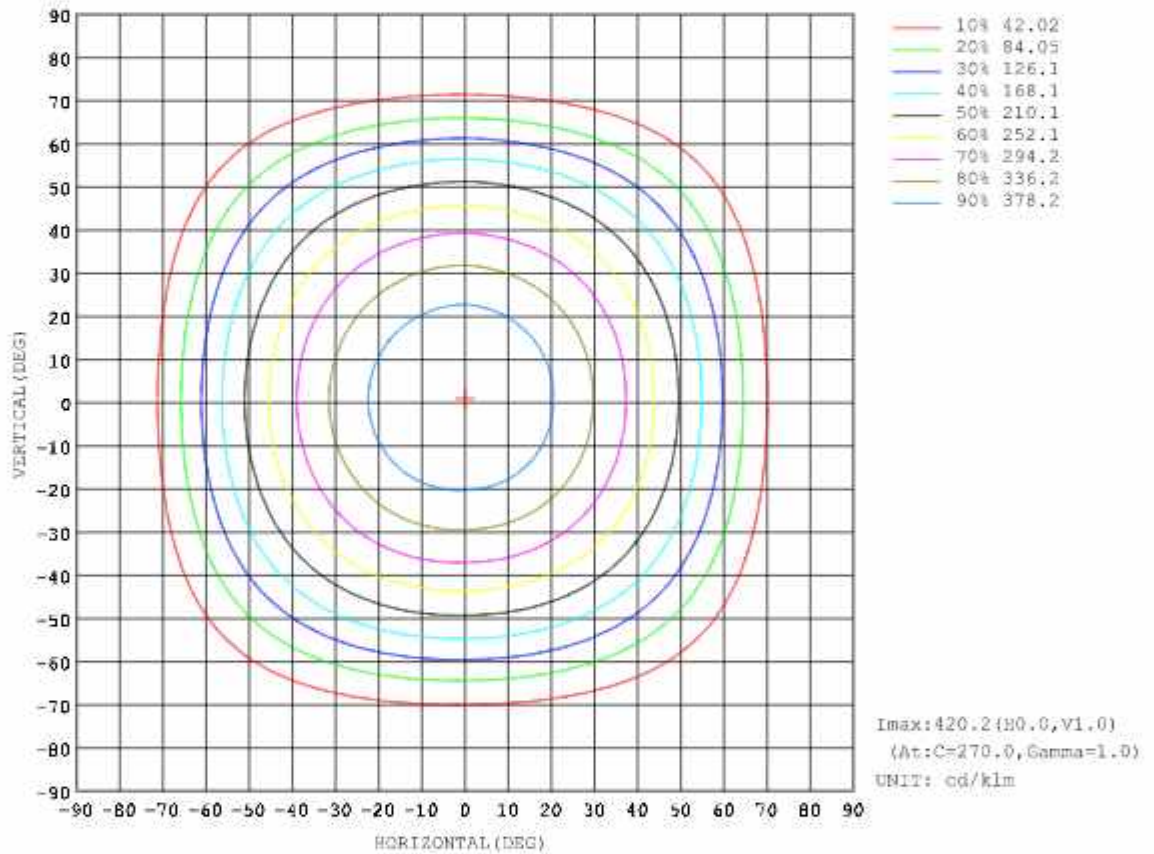
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

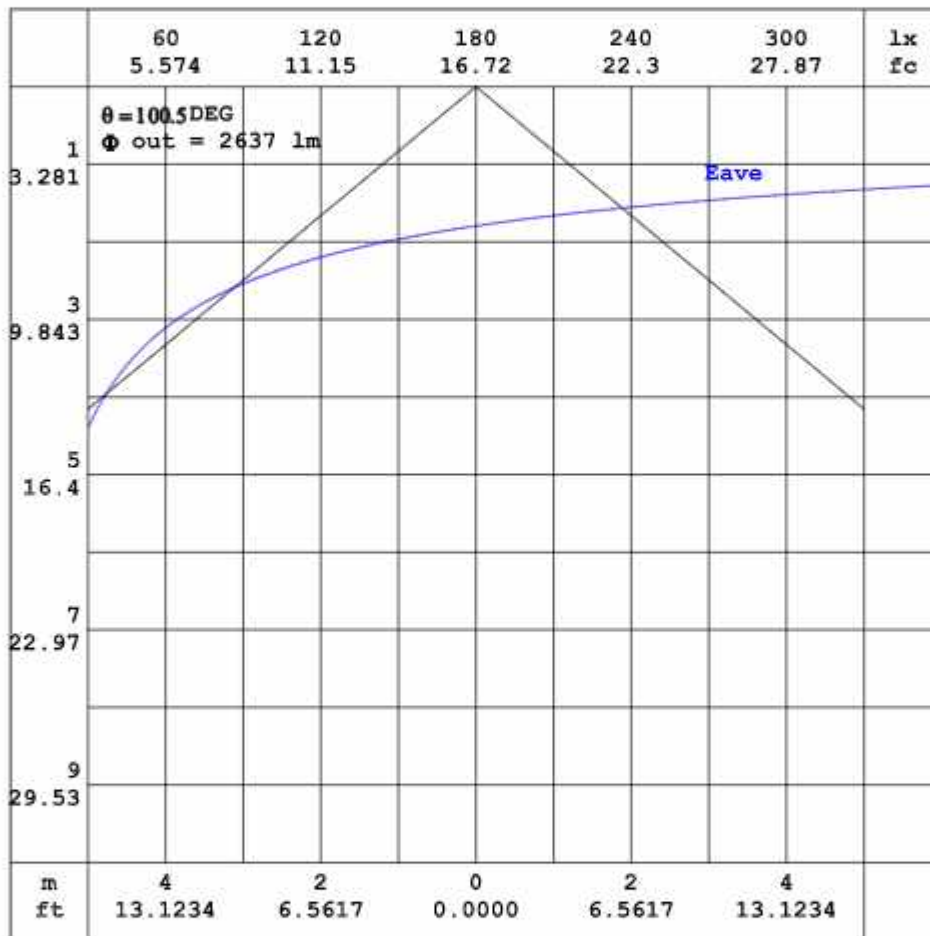


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



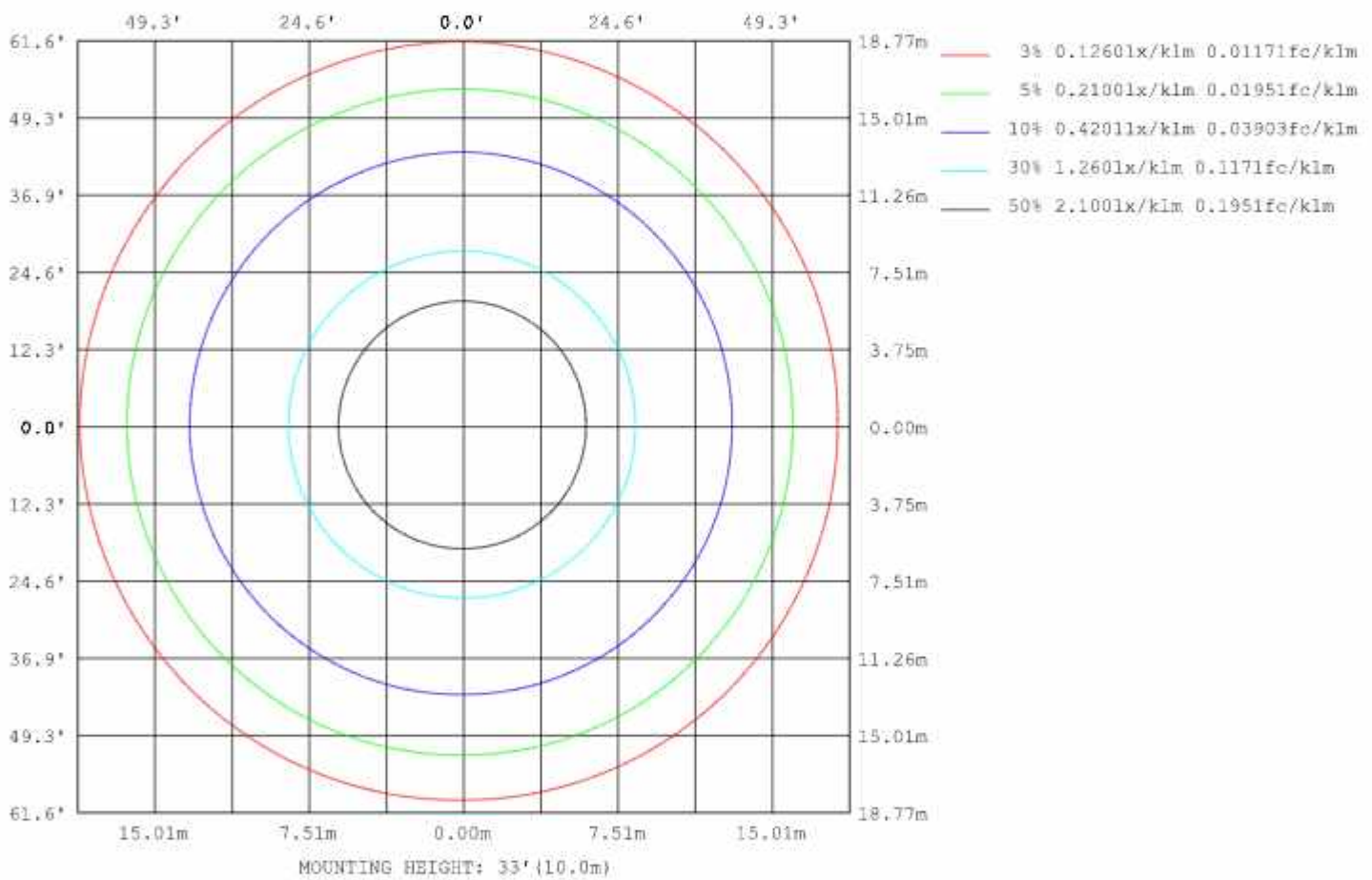
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

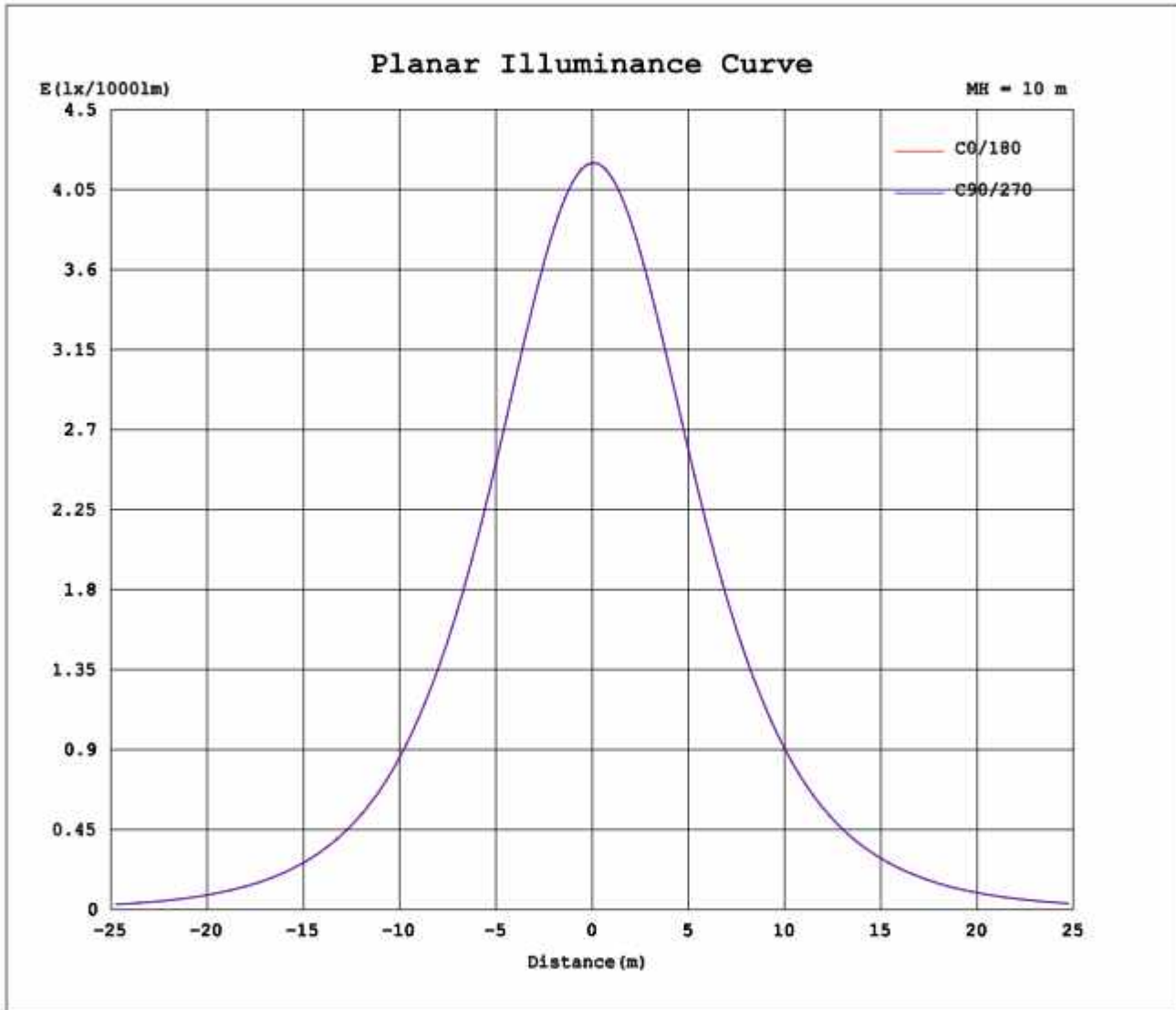
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 420  | 420  | 420  | 420  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 417  | 416  | 419  | 419  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 409  | 409  | 413  | 413  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 396  | 396  | 403  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 380  | 379  | 387  | 388  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 359  | 358  | 368  | 369  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 334  | 333  | 344  | 346  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 307  | 306  | 317  | 319  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 277  | 276  | 288  | 290  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 243  | 242  | 255  | 257  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 206  | 204  | 218  | 220  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 166  | 165  | 179  | 181  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 123  | 122  | 136  | 138  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 79.0 | 78.7 | 91.3 | 93.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 42.2 | 41.8 | 50.3 | 51.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 21.0 | 21.0 | 23.7 | 24.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 12.7 | 12.8 | 12.5 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.81 | 6.74 | 6.65 | 6.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.76 | 3.72 | 1.88 | 1.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.73 | 3.74 | 1.55 | 1.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.75 | 3.76 | 1.74 | 1.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.78 | 3.79 | 1.94 | 1.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.82 | 3.83 | 2.16 | 2.14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.87 | 3.87 | 2.38 | 2.36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 3.93 | 3.93 | 2.60 | 2.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 3.99 | 3.99 | 2.82 | 2.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 4.06 | 4.05 | 3.03 | 2.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 4.14 | 4.12 | 3.23 | 3.19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.23 | 4.21 | 3.43 | 3.40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.34 | 4.32 | 3.64 | 3.61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.46 | 4.44 | 3.85 | 3.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.60 | 4.58 | 4.07 | 4.07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.73 | 4.73 | 4.30 | 4.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 4.85 | 4.86 | 4.52 | 4.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 4.93 | 4.95 | 4.71 | 4.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 4.98 | 4.99 | 4.87 | 4.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 4.97 | 4.98 | 4.96 | 4.98 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

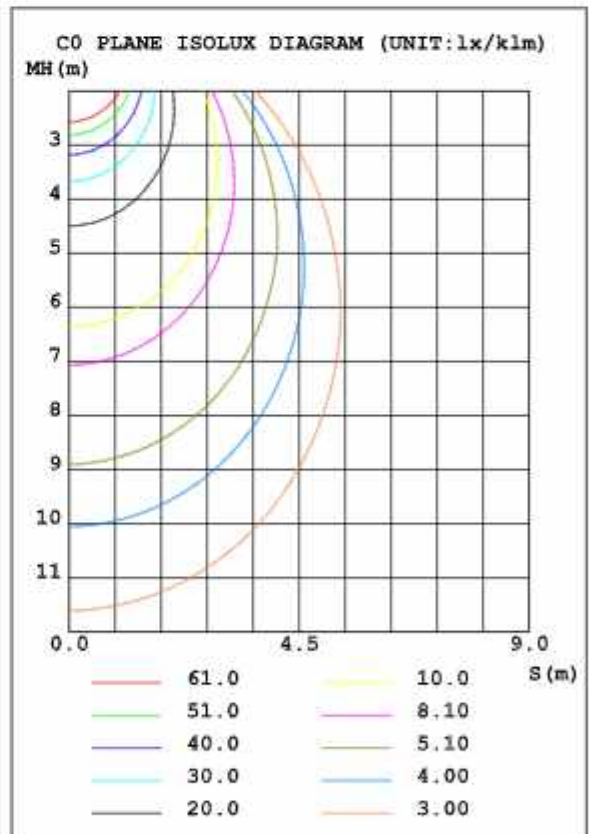
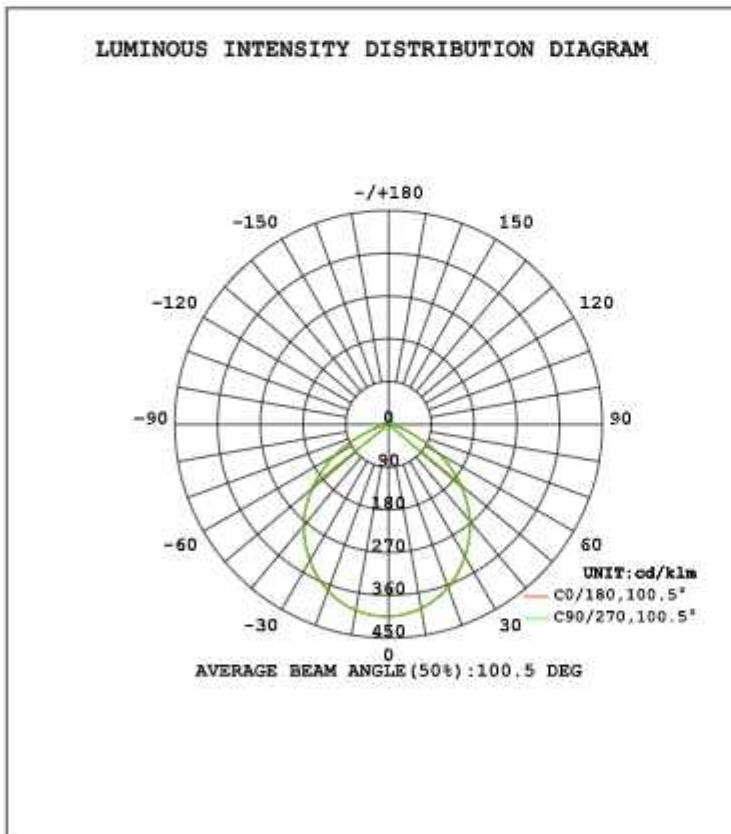
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 404.5  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 28           | LOR (%)             | 96.3   | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 962.80 | $\eta$ UP, DN (C0-180)   | 1.2, 45.8 |
| NOMINAL FLUX (lm) | 3782.11      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 48.4 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.0    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 94.2   | CIBSE SHR MAX            | 1.35      |



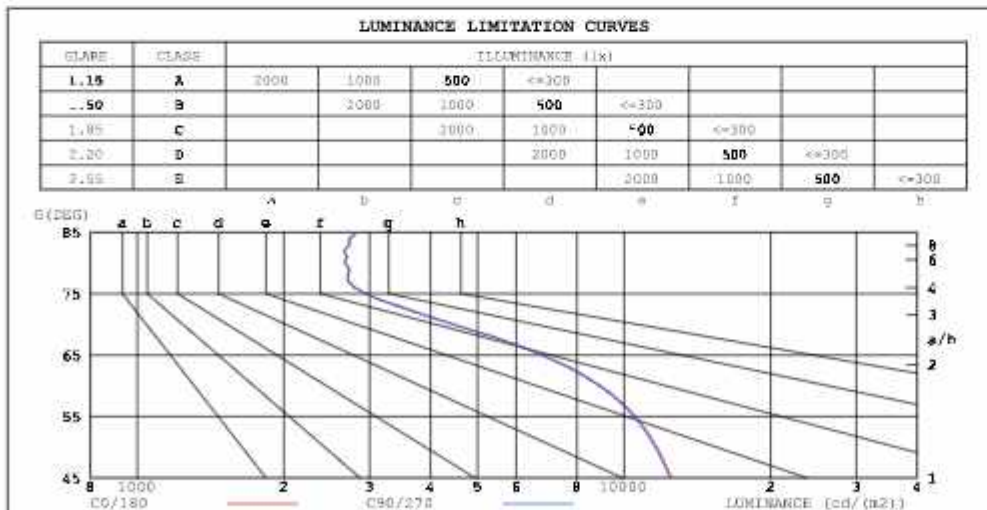
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                         | C90   | C180  | C270  |  |  |  | γ            | Φ zone | Φ total | Φlum, lamp |  |
|-----|----------------------------|-------|-------|-------|--|--|--|--------------|--------|---------|------------|--|
| 10  | 393.4                      | 393.0 | 397.5 | 397.8 |  |  |  | 0- 10        | 38.17  | 38.17   | 3.96, 3.02 |  |
| 20  | 365.4                      | 364.7 | 372.8 | 373.8 |  |  |  | 10- 20       | 108.4  | 146.5   | 13.2, 14.7 |  |
| 30  | 321.8                      | 320.5 | 331.2 | 332.8 |  |  |  | 20- 30       | 161.0  | 307.5   | 31.9, 30.7 |  |
| 40  | 267.0                      | 265.7 | 277.6 | 279.4 |  |  |  | 30- 40       | 187.9  | 495.4   | 51.5, 49.5 |  |
| 50  | 198.3                      | 196.7 | 210.1 | 211.6 |  |  |  | 40- 50       | 184.6  | 680.0   | 70.6, 68   |  |
| 60  | 118.0                      | 117.5 | 131.1 | 132.7 |  |  |  | 50- 60       | 147.9  | 827.9   | 86, 82.8   |  |
| 70  | 40.48                      | 40.08 | 48.36 | 49.86 |  |  |  | 60- 70       | 81.96  | 909.8   | 94.5, 91   |  |
| 80  | 12.23                      | 12.25 | 12.06 | 12.07 |  |  |  | 70- 80       | 25.28  | 935.1   | 97.1, 93.5 |  |
| 90  | 3.575                      | 3.581 | 1.807 | 1.745 |  |  |  | 80- 90       | 7.295  | 942.4   | 97.9, 94.2 |  |
| 100 | 3.611                      | 3.623 | 1.664 | 1.655 |  |  |  | 90-100       | 2.787  | 945.2   | 98.2, 94.5 |  |
| 110 | 3.671                      | 3.682 | 2.070 | 2.058 |  |  |  | 100-110      | 2.909  | 948.1   | 98.5, 94.8 |  |
| 120 | 3.776                      | 3.782 | 2.497 | 2.480 |  |  |  | 110-120      | 2.976  | 951.1   | 98.8, 95.1 |  |
| 130 | 3.902                      | 3.898 | 2.907 | 2.881 |  |  |  | 120-130      | 2.928  | 954.0   | 99.1, 95.4 |  |
| 140 | 4.066                      | 4.054 | 3.297 | 3.270 |  |  |  | 130-140      | 2.732  | 956.8   | 99.4, 95.7 |  |
| 150 | 4.287                      | 4.269 | 3.699 | 3.690 |  |  |  | 140-150      | 2.396  | 959.2   | 99.6, 95.9 |  |
| 160 | 4.546                      | 4.547 | 4.135 | 4.141 |  |  |  | 150-160      | 1.922  | 961.1   | 99.8, 96.1 |  |
| 170 | 4.745                      | 4.758 | 4.524 | 4.533 |  |  |  | 160-170      | 1.271  | 962.3   | 100, 96.2  |  |
| 180 | 4.774                      | 4.786 | 4.767 | 4.789 |  |  |  | 170-180      | 0.4491 | 962.8   | 100, 96.3  |  |
| DEG | LUMINOUS INTENSITY: cd/klm |       |       |       |  |  |  | UNIT: lm/klm |        |         |            |  |



| LUMINANCE cd/ (m²) |        |         |
|--------------------|--------|---------|
| θ (DEG)            | C0/180 | C90/270 |
| 85                 | 2841   | 2815    |
| 80                 | 2663   | 2667    |
| 75                 | 2950   | 2943    |
| 70                 | 4477   | 4432    |
| 65                 | 6780   | 6768    |
| 60                 | 8925   | 8888    |
| 55                 | 10551  | 10475   |
| 50                 | 11668  | 11575   |
| 45                 | 12526  | 12434   |

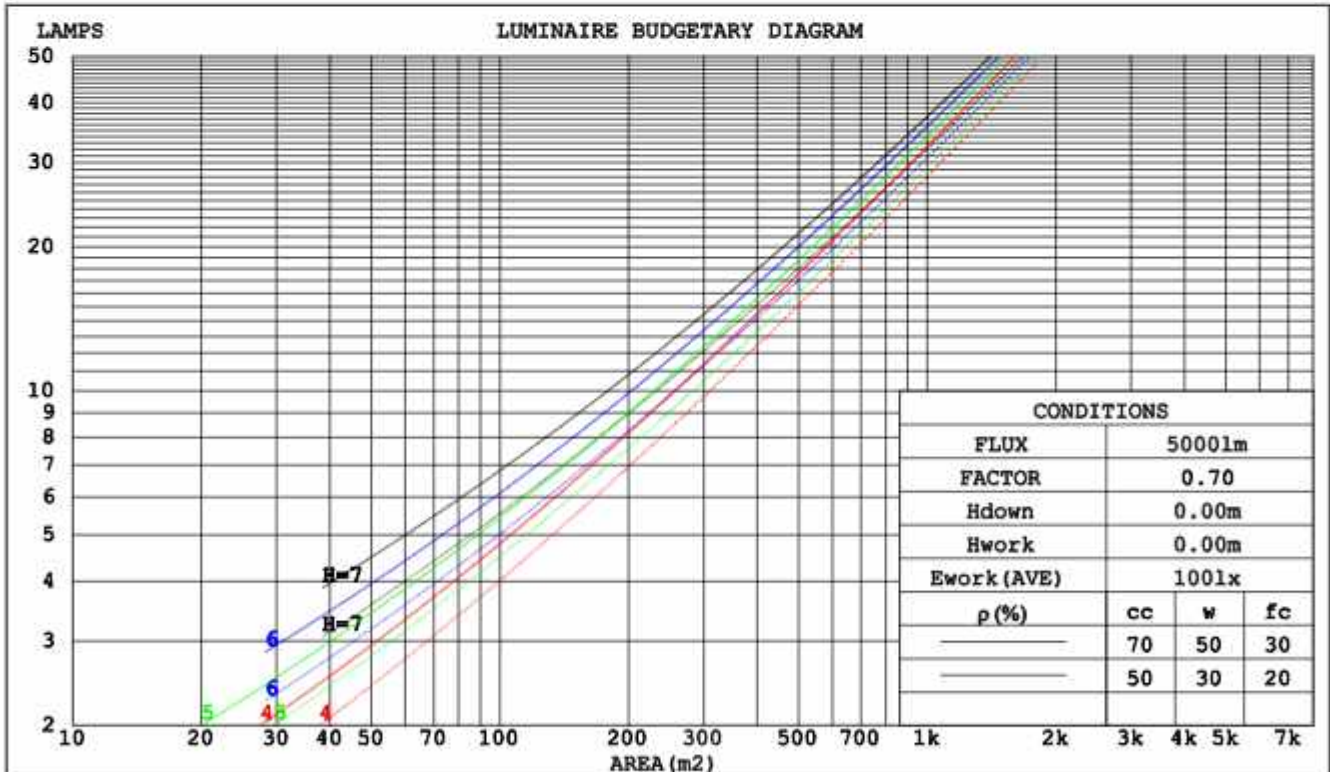
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10% |     |     | 0   |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.14                  | 1.14 | 1.14 | 1.11 | 1.11 | 1.11 | 1.06                            | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .96 | .96 | .96 | .94 |
| 1.0  | 1.02                  | .98  | .95  | .99  | .96  | .93  | .95                             | .92  | .90  | .91  | .89  | .87  | .87 | .86 | .84 | .82 |
| 2.0  | .90                   | .84  | .80  | .88  | .83  | .78  | .85                             | .80  | .76  | .81  | .78  | .74  | .78 | .75 | .72 | .70 |
| 3.0  | .80                   | .73  | .67  | .79  | .72  | .67  | .75                             | .70  | .65  | .73  | .68  | .64  | .70 | .66 | .63 | .61 |
| 4.0  | .72                   | .64  | .58  | .70  | .63  | .57  | .68                             | .61  | .56  | .65  | .60  | .55  | .63 | .58 | .55 | .53 |
| 5.0  | .64                   | .56  | .50  | .63  | .56  | .50  | .61                             | .54  | .49  | .59  | .53  | .49  | .57 | .52 | .48 | .46 |
| 6.0  | .58                   | .50  | .44  | .57  | .50  | .44  | .55                             | .49  | .44  | .54  | .48  | .43  | .52 | .47 | .43 | .41 |
| 7.0  | .53                   | .45  | .39  | .52  | .45  | .39  | .50                             | .44  | .39  | .49  | .43  | .38  | .48 | .42 | .38 | .36 |
| 8.0  | .48                   | .41  | .35  | .48  | .40  | .35  | .46                             | .40  | .35  | .45  | .39  | .35  | .44 | .38 | .34 | .32 |
| 9.0  | .45                   | .37  | .32  | .44  | .37  | .32  | .43                             | .36  | .32  | .42  | .36  | .31  | .40 | .35 | .31 | .29 |
| 10.0 | .41                   | .34  | .29  | .41  | .34  | .29  | .40                             | .33  | .29  | .39  | .33  | .28  | .38 | .32 | .28 | .27 |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:



## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .255                  | .145 | .046 | .248 | .141 | .045 | .234                            | .134 | .043 | .221 | .128 | .041 | .210 | .122 | .039 |   |
| 2.0  | .246                  | .135 | .041 | .240 | .132 | .041 | .228                            | .127 | .039 | .217 | .122 | .038 | .207 | .117 | .037 |   |
| 3.0  | .233                  | .124 | .037 | .227 | .122 | .037 | .216                            | .117 | .036 | .207 | .113 | .035 | .198 | .109 | .034 |   |
| 4.0  | .218                  | .114 | .033 | .213 | .112 | .033 | .204                            | .108 | .032 | .195 | .105 | .032 | .187 | .102 | .031 |   |
| 5.0  | .205                  | .104 | .030 | .200 | .103 | .030 | .192                            | .100 | .029 | .184 | .097 | .029 | .176 | .094 | .028 |   |
| 6.0  | .192                  | .096 | .028 | .188 | .095 | .027 | .180                            | .092 | .027 | .173 | .090 | .026 | .166 | .088 | .026 |   |
| 7.0  | .180                  | .089 | .025 | .176 | .088 | .025 | .169                            | .086 | .025 | .163 | .084 | .024 | .157 | .082 | .024 |   |
| 8.0  | .169                  | .083 | .023 | .166 | .082 | .023 | .160                            | .080 | .023 | .154 | .078 | .023 | .149 | .076 | .022 |   |
| 9.0  | .159                  | .077 | .022 | .156 | .076 | .021 | .151                            | .075 | .021 | .146 | .073 | .021 | .141 | .071 | .021 |   |
| 10.0 | .150                  | .072 | .020 | .148 | .071 | .020 | .143                            | .070 | .020 | .138 | .069 | .019 | .134 | .067 | .019 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .199                  | .199 | .199 | .170 | .170 | .170 | .116                                       | .116 | .116 | .067 | .067 | .067 | .021 | .021 | .021 |   |
| 1.0  | .186                  | .166 | .148 | .159 | .143 | .128 | .109                                       | .098 | .088 | .063 | .057 | .051 | .020 | .018 | .017 |   |
| 2.0  | .177                  | .143 | .114 | .152 | .123 | .099 | .104                                       | .085 | .069 | .060 | .050 | .040 | .019 | .016 | .013 |   |
| 3.0  | .169                  | .126 | .091 | .145 | .108 | .079 | .099                                       | .075 | .055 | .057 | .044 | .033 | .018 | .014 | .011 |   |
| 4.0  | .162                  | .113 | .075 | .139 | .097 | .065 | .095                                       | .068 | .046 | .055 | .040 | .027 | .018 | .013 | .009 |   |
| 5.0  | .155                  | .102 | .064 | .133 | .089 | .056 | .092                                       | .062 | .039 | .053 | .036 | .023 | .017 | .012 | .008 |   |
| 6.0  | .148                  | .094 | .056 | .127 | .082 | .049 | .088                                       | .057 | .034 | .051 | .034 | .020 | .016 | .011 | .007 |   |
| 7.0  | .142                  | .088 | .050 | .122 | .076 | .043 | .084                                       | .053 | .031 | .049 | .031 | .018 | .016 | .010 | .006 |   |
| 8.0  | .136                  | .082 | .045 | .117 | .071 | .039 | .081                                       | .050 | .028 | .047 | .030 | .017 | .015 | .010 | .005 |   |
| 9.0  | .131                  | .077 | .041 | .113 | .067 | .036 | .078                                       | .047 | .026 | .045 | .028 | .015 | .015 | .009 | .005 |   |
| 10.0 | .126                  | .073 | .038 | .108 | .064 | .034 | .075                                       | .045 | .024 | .044 | .026 | .014 | .014 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |        | TYPE:            |      |      |      |      | WEIGHT:           |      |      |      |      |
|--|--------|------------------|------|------|------|------|-------------------|------|------|------|------|
| DIM.:  |        | SPEC.:           |      |      |      |      | SERIAL No.:       |      |      |      |      |
| MFR.: HXD  |        | SUR.:            |      |      |      |      | PROTECTION ANGLE: |      |      |      |      |
| ceiling/cavity                                     |        | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7               | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  |        | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5               | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      |        | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    |        | Viewed crosswise |      |      |      |      | Viewed endwise    |      |      |      |      |
| x = 2H   | y = 2H | 15.9             | 17.3 | 16.2 | 17.5 | 17.8 | 15.9              | 17.3 | 16.2 | 17.5 | 17.7 |
|  | 3H     | 16.4             | 17.6 | 16.7 | 17.9 | 18.2 | 16.4              | 17.6 | 16.7 | 17.9 | 18.2 |
|  | 4H     | 16.4             | 17.6 | 16.8 | 17.9 | 18.2 | 16.4              | 17.6 | 16.7 | 17.9 | 18.2 |
|  | 6H     | 16.4             | 17.5 | 16.8 | 17.8 | 18.2 | 16.4              | 17.5 | 16.7 | 17.8 | 18.1 |
|  | 8H     | 16.4             | 17.5 | 16.8 | 17.8 | 18.1 | 16.4              | 17.5 | 16.8 | 17.8 | 18.1 |
|  | 12H    | 16.4             | 17.4 | 16.8 | 17.8 | 18.1 | 16.4              | 17.4 | 16.8 | 17.7 | 18.1 |
| 4H   | 2H     | 16.2             | 17.4 | 16.5 | 17.7 | 18.0 | 16.2              | 17.4 | 16.5 | 17.6 | 17.9 |
|  | 3H     | 16.7             | 17.8 | 17.1 | 18.1 | 18.4 | 16.7              | 17.7 | 17.1 | 18.1 | 18.4 |
|  | 4H     | 16.8             | 17.8 | 17.2 | 18.1 | 18.5 | 16.8              | 17.7 | 17.2 | 18.1 | 18.5 |
|  | 6H     | 16.9             | 17.7 | 17.3 | 18.1 | 18.5 | 16.9              | 17.7 | 17.3 | 18.1 | 18.5 |
|  | 8H     | 16.9             | 17.7 | 17.3 | 18.1 | 18.5 | 16.9              | 17.6 | 17.3 | 18.0 | 18.5 |
|  | 12H    | 16.9             | 17.6 | 17.4 | 18.0 | 18.5 | 16.9              | 17.6 | 17.4 | 18.0 | 18.5 |
| 8H   | 4H     | 16.8             | 17.5 | 17.2 | 17.9 | 18.4 | 16.8              | 17.5 | 17.2 | 17.9 | 18.4 |
|  | 6H     | 16.9             | 17.5 | 17.4 | 18.0 | 18.4 | 16.9              | 17.5 | 17.4 | 17.9 | 18.4 |
|  | 8H     | 17.0             | 17.5 | 17.5 | 18.0 | 18.5 | 16.9              | 17.5 | 17.4 | 18.0 | 18.5 |
|  | 12H    | 17.0             | 17.5 | 17.5 | 18.0 | 18.5 | 17.0              | 17.5 | 17.5 | 18.0 | 18.5 |
| 12H  | 4H     | 16.8             | 17.4 | 17.2 | 17.9 | 18.3 | 16.7              | 17.4 | 17.2 | 17.8 | 18.3 |
|  | 6H     | 16.9             | 17.4 | 17.4 | 17.9 | 18.4 | 16.9              | 17.4 | 17.4 | 17.9 | 18.4 |
|  | 8H     | 17.0             | 17.4 | 17.5 | 17.9 | 18.4 | 17.0              | 17.4 | 17.5 | 17.9 | 18.4 |
| Variations with the observer position at spacings: |        |                  |      |      |      |      |                   |      |      |      |      |
| S = 1.0H   |        | + 0.4 / - 0.5    |      |      |      |      | + 0.4 / - 0.5     |      |      |      |      |
| 1.5H   |        | + 0.3 / - 0.6    |      |      |      |      | + 0.3 / - 0.6     |      |      |      |      |
| 2.0H   |        | + 0.8 / - 1.0    |      |      |      |      | + 0.8 / - 1.0     |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

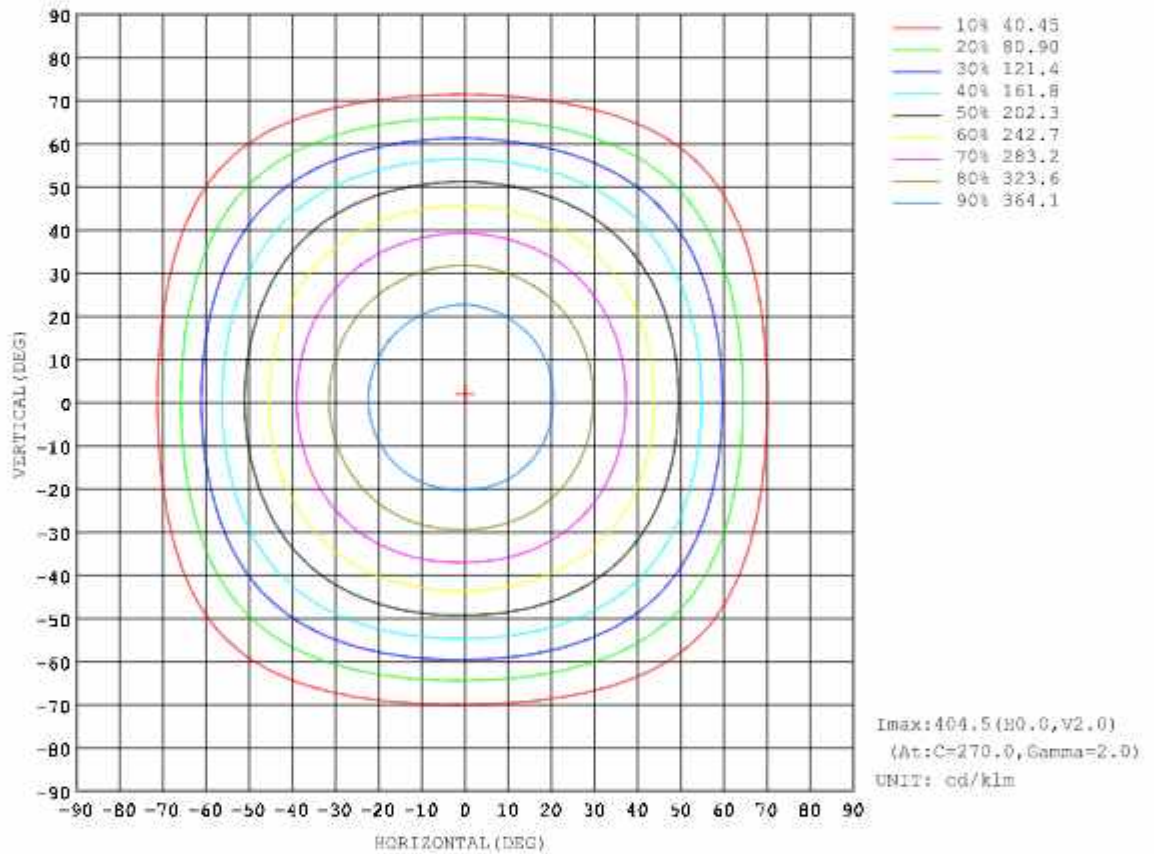
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 59  | 48  | 42        | 58  | 48  | 42  | 57            | 47  | 42  | 36     |
| 0.80                             | 69  | 58  | 52        | 68  | 58  | 52  | 66            | 57  | 51  | 45     |
| 1.00                             | 77  | 67  | 61        | 76  | 67  | 61  | 74            | 68  | 60  | 54     |
| 1.25                             | 84  | 75  | 68        | 82  | 74  | 68  | 80            | 72  | 67  | 61     |
| 1.50                             | 88  | 80  | 74        | 87  | 79  | 73  | 84            | 77  | 72  | 65     |
| 2.00                             | 94  | 87  | 82        | 92  | 86  | 81  | 89            | 84  | 79  | 72     |
| 2.50                             | 98  | 91  | 86        | 95  | 90  | 85  | 92            | 87  | 83  | 75     |
| 3.00                             | 100   | 95  | 90        | 98  | 93  | 89  | 94            | 90  | 87  | 78     |
| 4.00                             | 104   | 99  | 95        | 101 | 97  | 94  | 97            | 94  | 91  | 82     |
| 5.00                             | 106   | 102 | 98        | 103 | 100 | 97  | 99            | 96  | 93  | 84     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

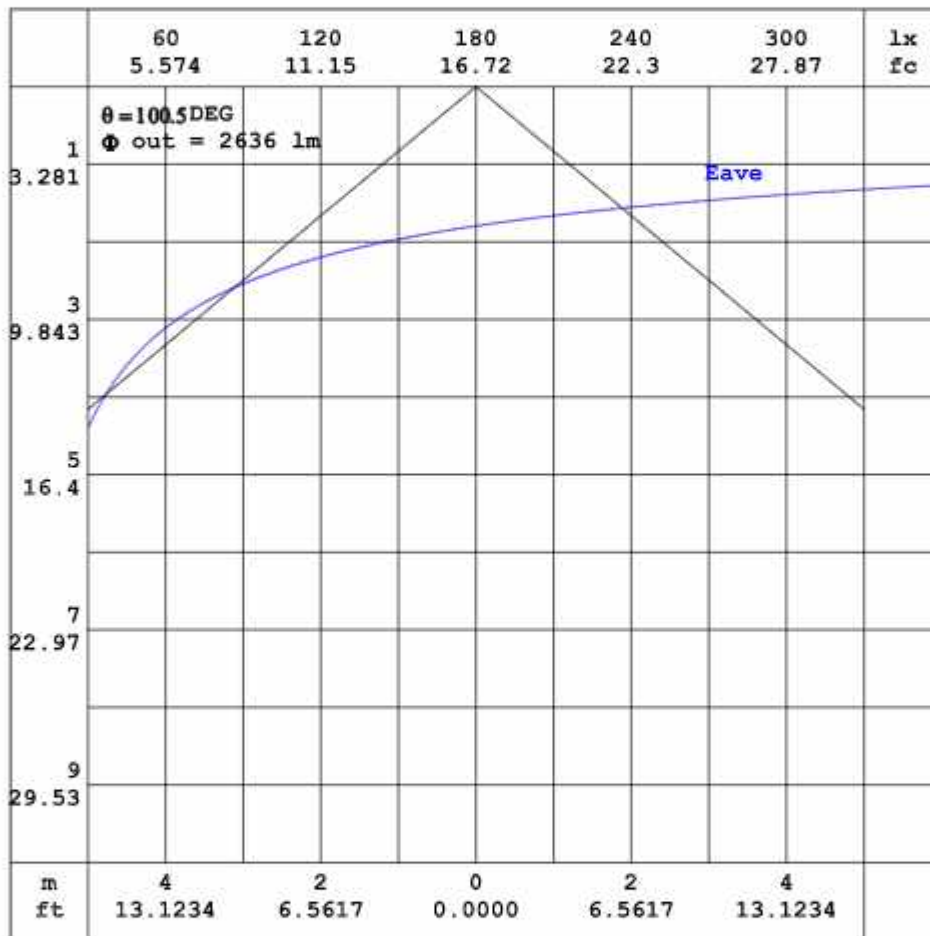


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



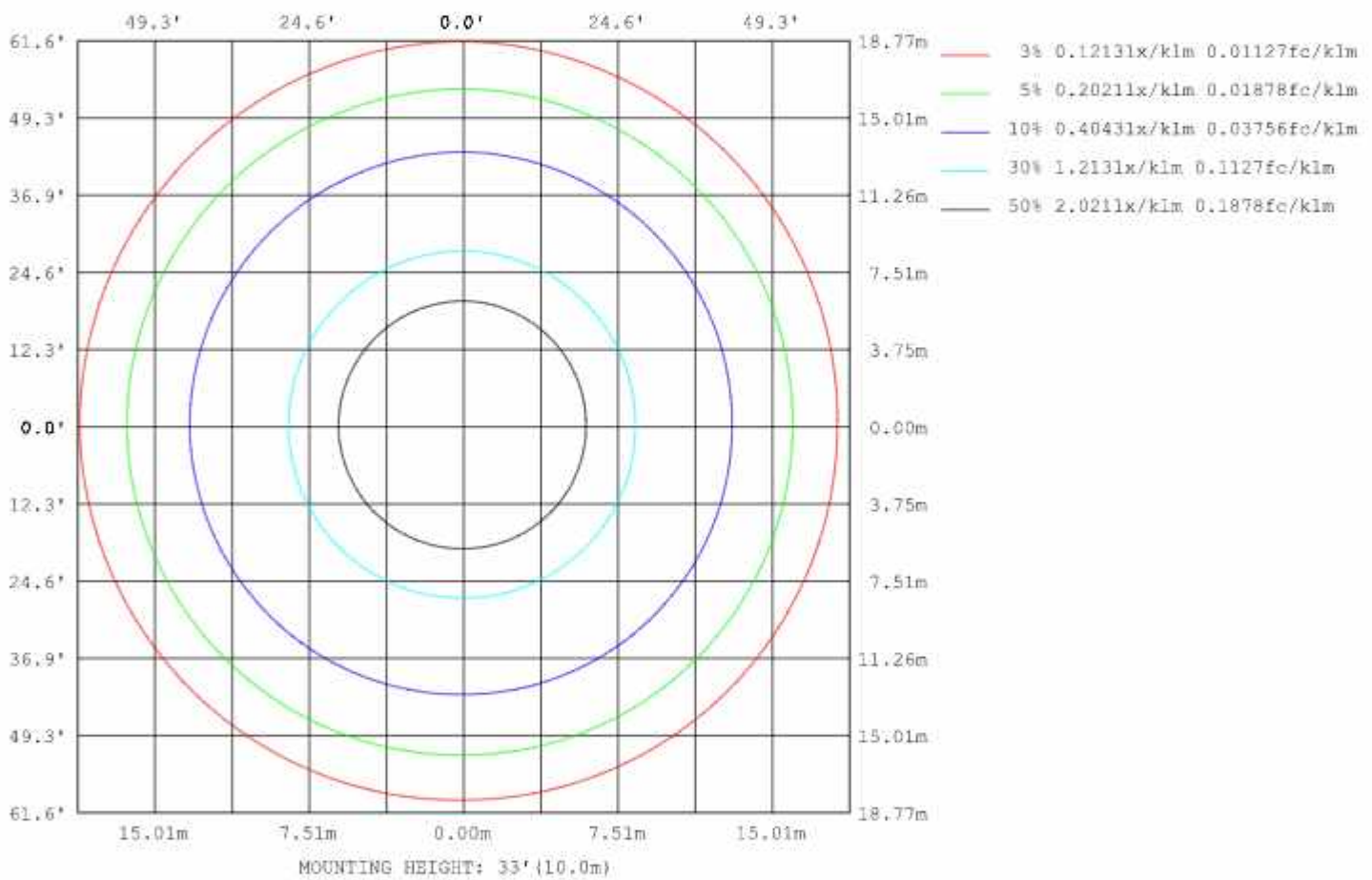
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

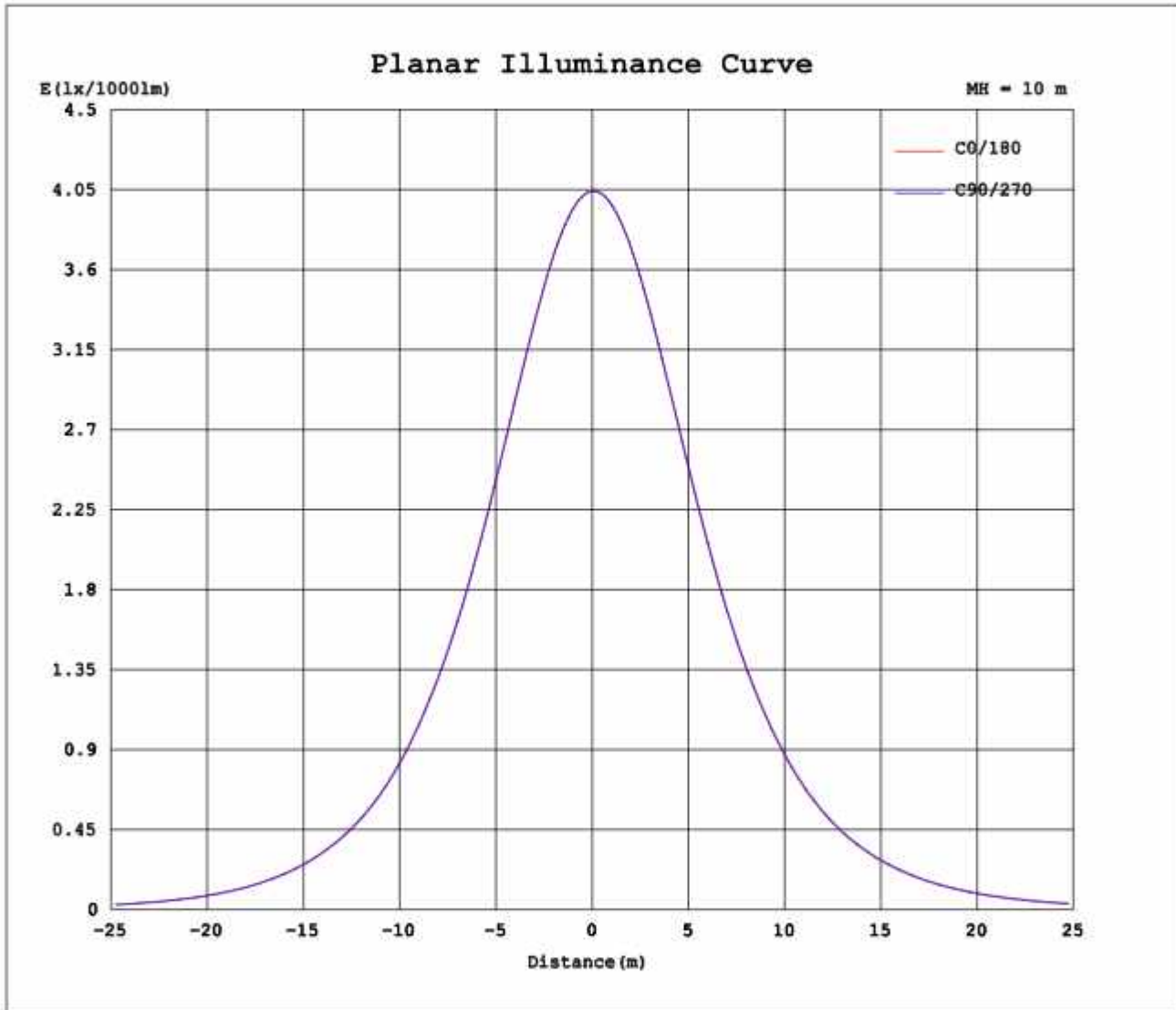
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 404  | 404  | 404  | 404  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 401  | 401  | 403  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 393  | 393  | 397  | 398  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 381  | 381  | 387  | 388  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 365  | 365  | 373  | 374  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 345  | 344  | 354  | 355  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 322  | 321  | 331  | 333  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 296  | 294  | 306  | 307  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 267  | 266  | 278  | 279  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 234  | 232  | 246  | 247  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 198  | 197  | 210  | 212  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 160  | 159  | 172  | 174  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 118  | 117  | 131  | 133  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 75.8 | 75.6 | 87.9 | 89.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 40.5 | 40.1 | 48.4 | 49.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 20.2 | 20.1 | 22.9 | 23.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 12.2 | 12.2 | 12.1 | 12.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.55 | 6.49 | 6.40 | 6.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.58 | 3.58 | 1.81 | 1.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.59 | 3.60 | 1.49 | 1.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.61 | 3.62 | 1.66 | 1.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.64 | 3.65 | 1.86 | 1.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.67 | 3.68 | 2.07 | 2.06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.72 | 3.73 | 2.28 | 2.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 3.78 | 3.78 | 2.50 | 2.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 3.84 | 3.84 | 2.71 | 2.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 3.90 | 3.90 | 2.91 | 2.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 3.98 | 3.97 | 3.10 | 3.07 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.07 | 4.05 | 3.30 | 3.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.17 | 4.15 | 3.49 | 3.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.29 | 4.27 | 3.70 | 3.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.42 | 4.41 | 3.91 | 3.92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.55 | 4.55 | 4.13 | 4.14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 4.66 | 4.67 | 4.34 | 4.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 4.74 | 4.76 | 4.52 | 4.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 4.79 | 4.80 | 4.67 | 4.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 4.77 | 4.79 | 4.77 | 4.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

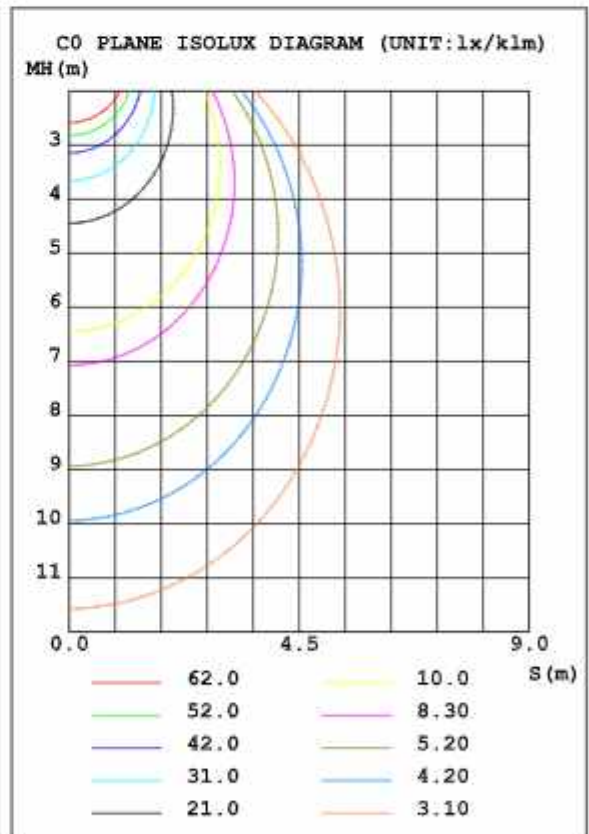
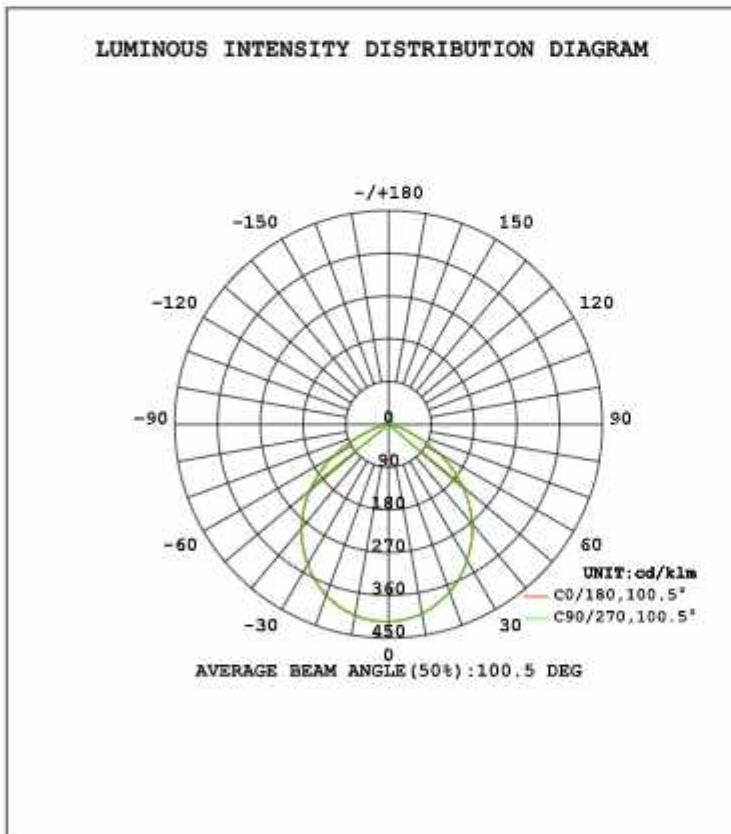
y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 415.7  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 28           | LOR (%)             | 98.9   | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 989.41 | $\eta$ UP, DN (C0-180)   | 1.3, 47.1 |
| NOMINAL FLUX (lm) | 3822.58      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 49.7 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.1    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 96.9   | CIBSE SHR MAX            | 1.35      |



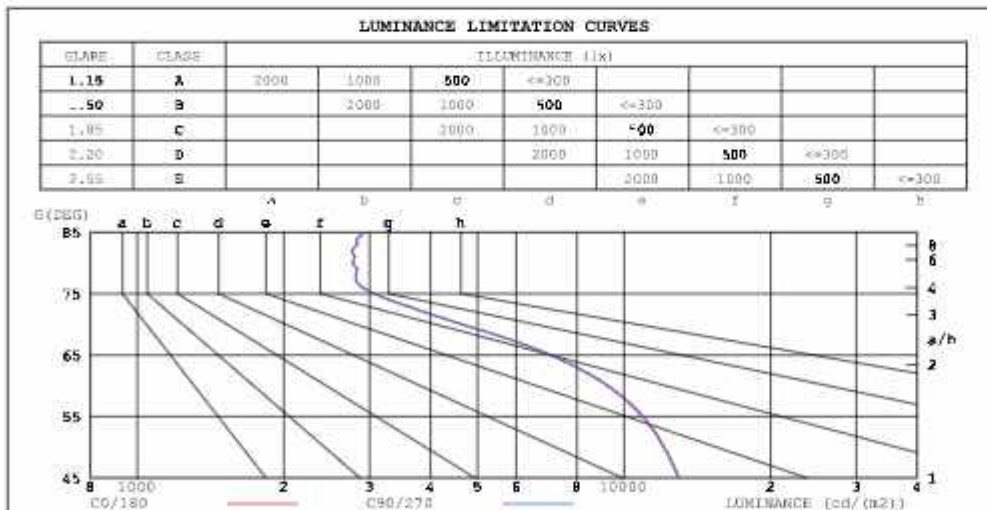
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                         | C90   | C180  | C270  |  |  |  | γ            | Φ zone | Φ total | lum, lamp  |
|-----|----------------------------|-------|-------|-------|--|--|--|--------------|--------|---------|------------|
| 10  | 404.0                      | 404.2 | 408.3 | 408.9 |  |  |  | 0- 10        | 39.22  | 39.22   | 3.96, 3.92 |
| 20  | 375.3                      | 375.1 | 383.0 | 384.0 |  |  |  | 10- 20       | 111.4  | 150.6   | 15.2, 15.1 |
| 30  | 330.6                      | 329.6 | 340.1 | 341.9 |  |  |  | 20- 30       | 165.4  | 316.0   | 31.9, 31.6 |
| 40  | 274.6                      | 273.1 | 285.3 | 287.2 |  |  |  | 30- 40       | 193.2  | 509.2   | 51.5, 50.9 |
| 50  | 203.6                      | 202.2 | 215.7 | 217.5 |  |  |  | 40- 50       | 189.7  | 698.8   | 70.6, 69.9 |
| 60  | 121.5                      | 120.6 | 134.4 | 136.1 |  |  |  | 50- 60       | 151.9  | 850.7   | 86, 85.1   |
| 70  | 41.75                      | 41.43 | 50.51 | 51.46 |  |  |  | 60- 70       | 84.30  | 935.0   | 94.5, 93.5 |
| 80  | 12.56                      | 12.59 | 12.35 | 12.39 |  |  |  | 70- 80       | 26.04  | 961.0   | 97.1, 96.1 |
| 90  | 3.666                      | 3.670 | 1.853 | 1.776 |  |  |  | 80- 90       | 7.485  | 968.5   | 97.9, 96.9 |
| 100 | 3.705                      | 3.714 | 1.709 | 1.691 |  |  |  | 90-100       | 2.857  | 971.4   | 98.2, 97.1 |
| 110 | 3.763                      | 3.778 | 2.123 | 2.109 |  |  |  | 100-110      | 2.983  | 974.4   | 98.5, 97.4 |
| 120 | 3.870                      | 3.874 | 2.560 | 2.537 |  |  |  | 110-120      | 3.051  | 977.4   | 98.8, 97.7 |
| 130 | 4.001                      | 3.992 | 2.983 | 2.952 |  |  |  | 120-130      | 3.001  | 980.4   | 99.1, 98   |
| 140 | 4.167                      | 4.155 | 3.379 | 3.348 |  |  |  | 130-140      | 2.800  | 983.2   | 99.4, 98.3 |
| 150 | 4.391                      | 4.382 | 3.793 | 3.783 |  |  |  | 140-150      | 2.459  | 985.7   | 99.6, 98.6 |
| 160 | 4.666                      | 4.663 | 4.240 | 4.243 |  |  |  | 150-160      | 1.971  | 987.6   | 99.8, 98.8 |
| 170 | 4.866                      | 4.882 | 4.640 | 4.649 |  |  |  | 160-170      | 1.304  | 989.0   | 100, 98.9  |
| 180 | 4.902                      | 4.908 | 4.888 | 4.912 |  |  |  | 170-180      | 0.4606 | 989.4   | 100, 98.9  |
| DEG | LUMINOUS INTENSITY: cd/klm |       |       |       |  |  |  | UNIT: lm/klm |        |         |            |



| LUMINANCE cd/ (m2) |        |         |
|--------------------|--------|---------|
| G (DEG)            | C0/180 | C90/270 |
| 85                 | 2943   | 2920    |
| 80                 | 2765   | 2771    |
| 75                 | 3067   | 3061    |
| 70                 | 4666   | 4630    |
| 65                 | 7070   | 7056    |
| 60                 | 9292   | 9222    |
| 55                 | 10953  | 10877   |
| 50                 | 12406  | 12022   |
| 45                 | 13001  | 12921   |

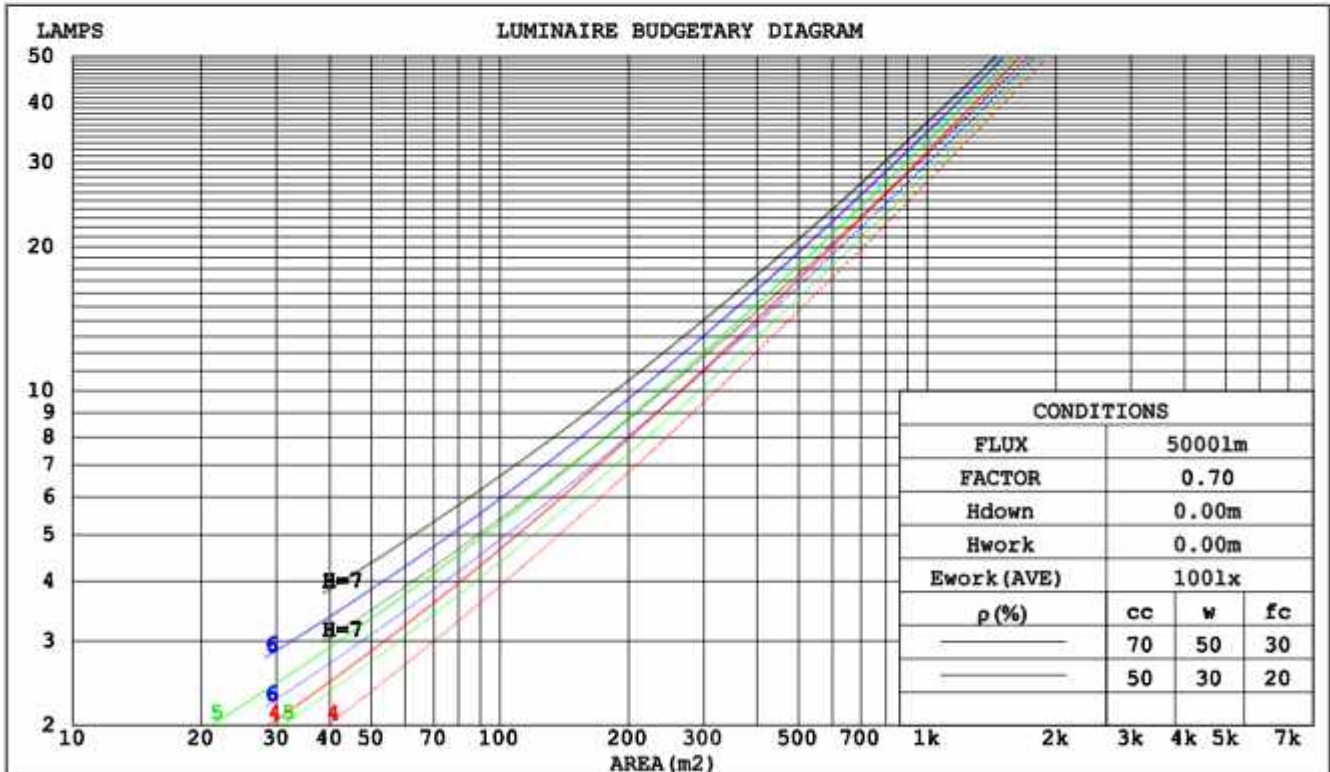
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10% |     |     | 0   |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.17                  | 1.17 | 1.17 | 1.14 | 1.14 | 1.14 | 1.09                            | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0  | 1.05                  | 1.01 | .98  | 1.02 | .99  | .96  | .98                             | .95  | .93  | .94  | .91  | .89  | .90 | .88 | .86 | .84 |
| 2.0  | .93                   | .87  | .82  | .91  | .85  | .81  | .87                             | .82  | .78  | .83  | .80  | .76  | .80 | .77 | .74 | .72 |
| 3.0  | .82                   | .75  | .69  | .81  | .74  | .69  | .78                             | .72  | .67  | .75  | .70  | .66  | .72 | .68 | .64 | .62 |
| 4.0  | .74                   | .66  | .60  | .72  | .65  | .59  | .70                             | .63  | .58  | .67  | .62  | .57  | .65 | .60 | .56 | .54 |
| 5.0  | .66                   | .58  | .52  | .65  | .57  | .51  | .63                             | .56  | .51  | .61  | .55  | .50  | .59 | .53 | .49 | .47 |
| 6.0  | .60                   | .52  | .46  | .59  | .51  | .45  | .57                             | .50  | .45  | .55  | .49  | .44  | .53 | .48 | .44 | .42 |
| 7.0  | .54                   | .46  | .40  | .54  | .46  | .40  | .52                             | .45  | .40  | .50  | .44  | .39  | .49 | .43 | .39 | .37 |
| 8.0  | .50                   | .42  | .36  | .49  | .41  | .36  | .48                             | .41  | .36  | .46  | .40  | .35  | .45 | .39 | .35 | .33 |
| 9.0  | .46                   | .38  | .33  | .45  | .38  | .33  | .44                             | .37  | .32  | .43  | .37  | .32  | .42 | .36 | .32 | .30 |
| 10.0 | .42                   | .35  | .30  | .42  | .35  | .30  | .41                             | .34  | .29  | .40  | .34  | .29  | .39 | .33 | .29 | .27 |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .262                  | .149 | .047 | .254 | .145 | .046 | .240                            | .138 | .044 | .227 | .131 | .042 | .215 | .125 | .040 |   |
| 2.0  | .253                  | .139 | .043 | .247 | .136 | .042 | .234                            | .130 | .040 | .223 | .125 | .039 | .212 | .120 | .038 |   |
| 3.0  | .239                  | .127 | .038 | .233 | .125 | .038 | .223                            | .121 | .037 | .212 | .116 | .036 | .203 | .112 | .035 |   |
| 4.0  | .224                  | .117 | .034 | .219 | .115 | .034 | .210                            | .111 | .033 | .201 | .108 | .032 | .192 | .104 | .032 |   |
| 5.0  | .210                  | .107 | .031 | .206 | .106 | .031 | .197                            | .103 | .030 | .189 | .100 | .030 | .181 | .097 | .029 |   |
| 6.0  | .197                  | .099 | .028 | .193 | .097 | .028 | .185                            | .095 | .028 | .178 | .092 | .027 | .171 | .090 | .027 |   |
| 7.0  | .185                  | .091 | .026 | .181 | .090 | .026 | .174                            | .088 | .025 | .168 | .086 | .025 | .161 | .084 | .025 |   |
| 8.0  | .174                  | .085 | .024 | .170 | .084 | .024 | .164                            | .082 | .023 | .158 | .080 | .023 | .153 | .078 | .023 |   |
| 9.0  | .164                  | .079 | .022 | .161 | .078 | .022 | .155                            | .077 | .022 | .150 | .075 | .021 | .145 | .073 | .021 |   |
| 10.0 | .155                  | .074 | .021 | .152 | .073 | .020 | .147                            | .072 | .020 | .142 | .070 | .020 | .137 | .069 | .020 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .204                  | .204 | .204 | .175 | .175 | .175 | .119                                       | .119 | .119 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0  | .191                  | .171 | .153 | .164 | .147 | .131 | .112                                       | .101 | .091 | .064 | .058 | .053 | .021 | .019 | .017 |   |
| 2.0  | .182                  | .147 | .117 | .156 | .126 | .102 | .107                                       | .087 | .071 | .062 | .051 | .042 | .020 | .016 | .014 |   |
| 3.0  | .174                  | .129 | .094 | .149 | .111 | .081 | .102                                       | .077 | .057 | .059 | .045 | .034 | .019 | .015 | .011 |   |
| 4.0  | .166                  | .116 | .077 | .142 | .100 | .067 | .098                                       | .070 | .047 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .159                  | .105 | .066 | .137 | .091 | .057 | .094                                       | .064 | .040 | .054 | .037 | .024 | .018 | .012 | .008 |   |
| 6.0  | .152                  | .097 | .057 | .131 | .084 | .050 | .090                                       | .059 | .035 | .052 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .146                  | .090 | .051 | .126 | .078 | .044 | .087                                       | .055 | .031 | .050 | .032 | .019 | .016 | .011 | .006 |   |
| 8.0  | .140                  | .084 | .046 | .120 | .073 | .040 | .083                                       | .051 | .029 | .049 | .030 | .017 | .016 | .010 | .006 |   |
| 9.0  | .134                  | .079 | .042 | .116 | .069 | .037 | .080                                       | .048 | .026 | .047 | .029 | .016 | .015 | .009 | .005 |   |
| 10.0 | .129                  | .075 | .040 | .111 | .065 | .034 | .077                                       | .046 | .024 | .045 | .027 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |        | TYPE:            |      |      |      |      | WEIGHT:           |      |      |      |      |
|--|--------|------------------|------|------|------|------|-------------------|------|------|------|------|
| DIM.:  |        | SPEC.:           |      |      |      |      | SERIAL No.:       |      |      |      |      |
| MFR.: HXD  |        | SUR.:            |      |      |      |      | PROTECTION ANGLE: |      |      |      |      |
| ceiling/cavity                                     |        | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7               | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  |        | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5               | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      |        | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    |        | Viewed crosswise |      |      |      |      | Viewed endwise    |      |      |      |      |
| x = 2H   | y = 2H | 16.0             | 17.4 | 16.3 | 17.6 | 17.9 | 16.0              | 17.4 | 16.3 | 17.6 | 17.8 |
|  | 3H     | 16.5             | 17.7 | 16.8 | 18.0 | 18.3 | 16.5              | 17.7 | 16.8 | 18.0 | 18.3 |
|  | 4H     | 16.5             | 17.7 | 16.9 | 18.0 | 18.3 | 16.5              | 17.7 | 16.8 | 18.0 | 18.3 |
|  | 6H     | 16.5             | 17.6 | 16.9 | 17.9 | 18.3 | 16.5              | 17.6 | 16.9 | 17.9 | 18.2 |
|  | 8H     | 16.5             | 17.6 | 16.9 | 17.9 | 18.2 | 16.5              | 17.6 | 16.9 | 17.9 | 18.2 |
|  | 12H    | 16.5             | 17.5 | 16.9 | 17.9 | 18.2 | 16.5              | 17.5 | 16.9 | 17.8 | 18.2 |
| 4H   | 2H     | 16.3             | 17.5 | 16.6 | 17.8 | 18.1 | 16.3              | 17.5 | 16.6 | 17.7 | 18.0 |
|  | 3H     | 16.8             | 17.9 | 17.2 | 18.2 | 18.5 | 16.8              | 17.8 | 17.2 | 18.2 | 18.5 |
|  | 4H     | 16.9             | 17.9 | 17.3 | 18.2 | 18.6 | 16.9              | 17.8 | 17.3 | 18.2 | 18.6 |
|  | 6H     | 17.0             | 17.8 | 17.4 | 18.2 | 18.6 | 17.0              | 17.8 | 17.4 | 18.2 | 18.6 |
|  | 8H     | 17.0             | 17.8 | 17.4 | 18.2 | 18.6 | 17.0              | 17.7 | 17.4 | 18.1 | 18.6 |
|  | 12H    | 17.0             | 17.7 | 17.5 | 18.1 | 18.6 | 17.0              | 17.7 | 17.5 | 18.1 | 18.6 |
| 8H   | 4H     | 16.9             | 17.6 | 17.3 | 18.0 | 18.5 | 16.9              | 17.6 | 17.3 | 18.0 | 18.5 |
|  | 6H     | 17.0             | 17.6 | 17.5 | 18.1 | 18.5 | 17.0              | 17.6 | 17.5 | 18.1 | 18.5 |
|  | 8H     | 17.1             | 17.6 | 17.6 | 18.1 | 18.6 | 17.1              | 17.6 | 17.5 | 18.1 | 18.6 |
|  | 12H    | 17.1             | 17.6 | 17.6 | 18.1 | 18.6 | 17.1              | 17.6 | 17.6 | 18.1 | 18.6 |
| 12H  | 4H     | 16.9             | 17.6 | 17.3 | 18.0 | 18.4 | 16.8              | 17.5 | 17.3 | 18.0 | 18.4 |
|  | 6H     | 17.0             | 17.5 | 17.5 | 18.0 | 18.5 | 17.0              | 17.5 | 17.5 | 18.0 | 18.5 |
|  | 8H     | 17.1             | 17.5 | 17.6 | 18.0 | 18.5 | 17.1              | 17.5 | 17.6 | 18.0 | 18.5 |
| Variations with the observer position at spacings: |        |                  |      |      |      |      |                   |      |      |      |      |
| S = 1.0H   |        | + 0.4 / - 0.5    |      |      |      |      | + 0.4 / - 0.5     |      |      |      |      |
| 1.5H   |        | + 0.3 / - 0.5    |      |      |      |      | + 0.3 / - 0.5     |      |      |      |      |
| 2.0H   |        | + 0.8 / - 1.0    |      |      |      |      | + 0.8 / - 1.0     |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

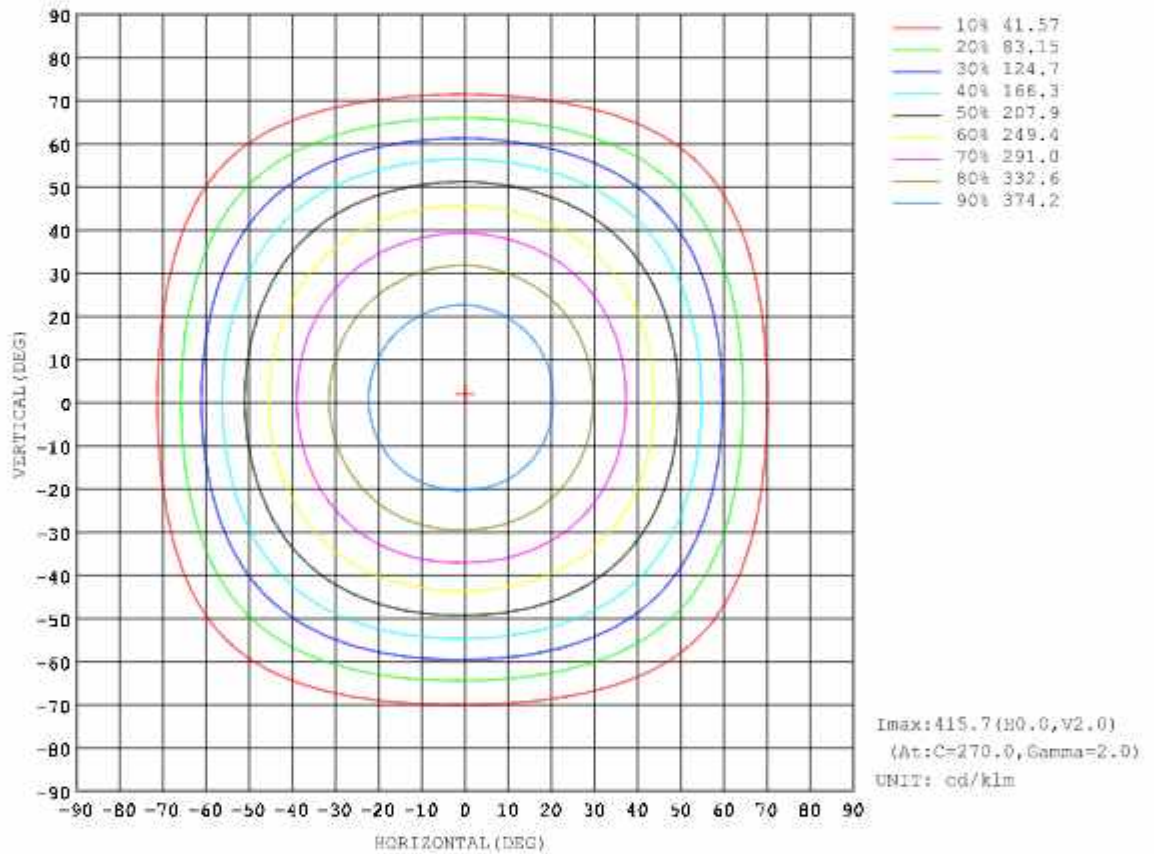
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 60  | 49  | 43        | 60  | 49  | 43  | 58            | 49  | 43  | 37     |
| 0.80                             | 71  | 60  | 53        | 70  | 59  | 53  | 68            | 59  | 53  | 46     |
| 1.00                             | 79  | 69  | 63        | 78  | 68  | 62  | 76            | 69  | 62  | 55     |
| 1.25                             | 86  | 77  | 70        | 84  | 76  | 70  | 82            | 74  | 69  | 62     |
| 1.50                             | 91  | 82  | 76        | 89  | 81  | 75  | 86            | 79  | 74  | 67     |
| 2.00                             | 97  | 90  | 84        | 95  | 88  | 83  | 91            | 86  | 81  | 74     |
| 2.50                             | 100   | 94  | 88        | 98  | 92  | 87  | 94            | 89  | 85  | 77     |
| 3.00                             | 103   | 97  | 93        | 101 | 96  | 91  | 97            | 93  | 89  | 81     |
| 4.00                             | 107   | 102 | 98        | 104 | 100 | 96  | 100           | 96  | 93  | 84     |
| 5.00                             | 109   | 104 | 101       | 106 | 102 | 99  | 101           | 98  | 96  | 87     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

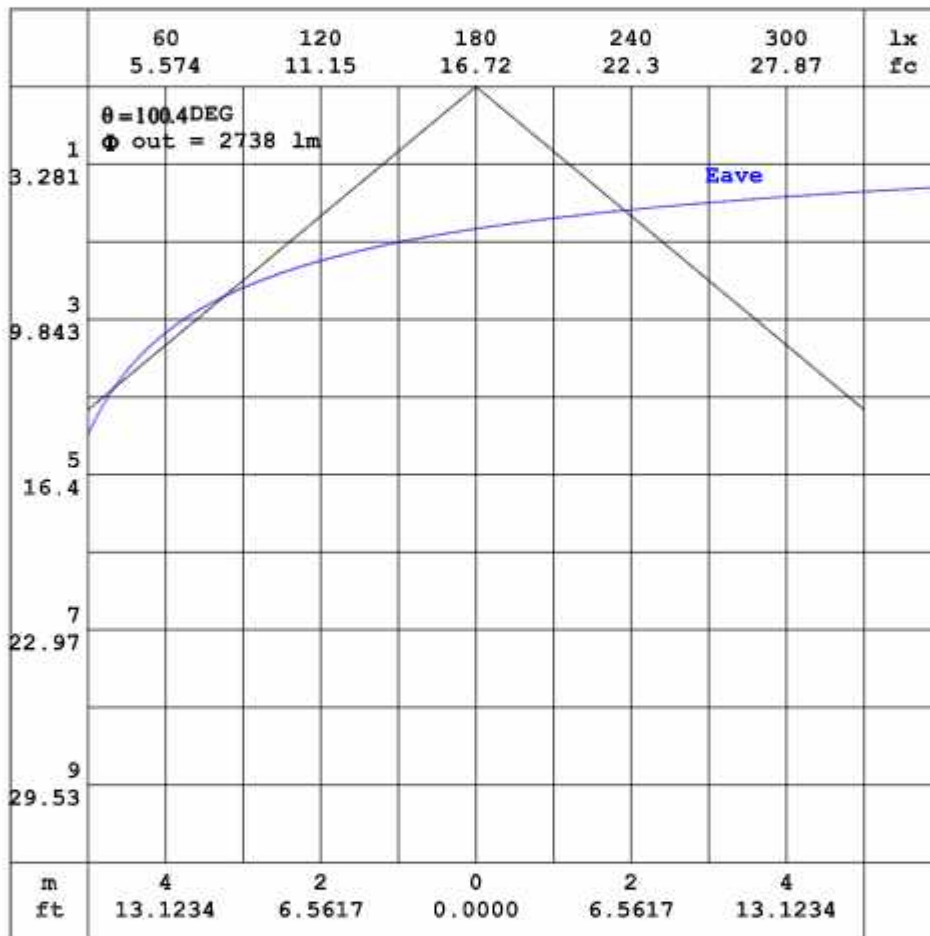


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

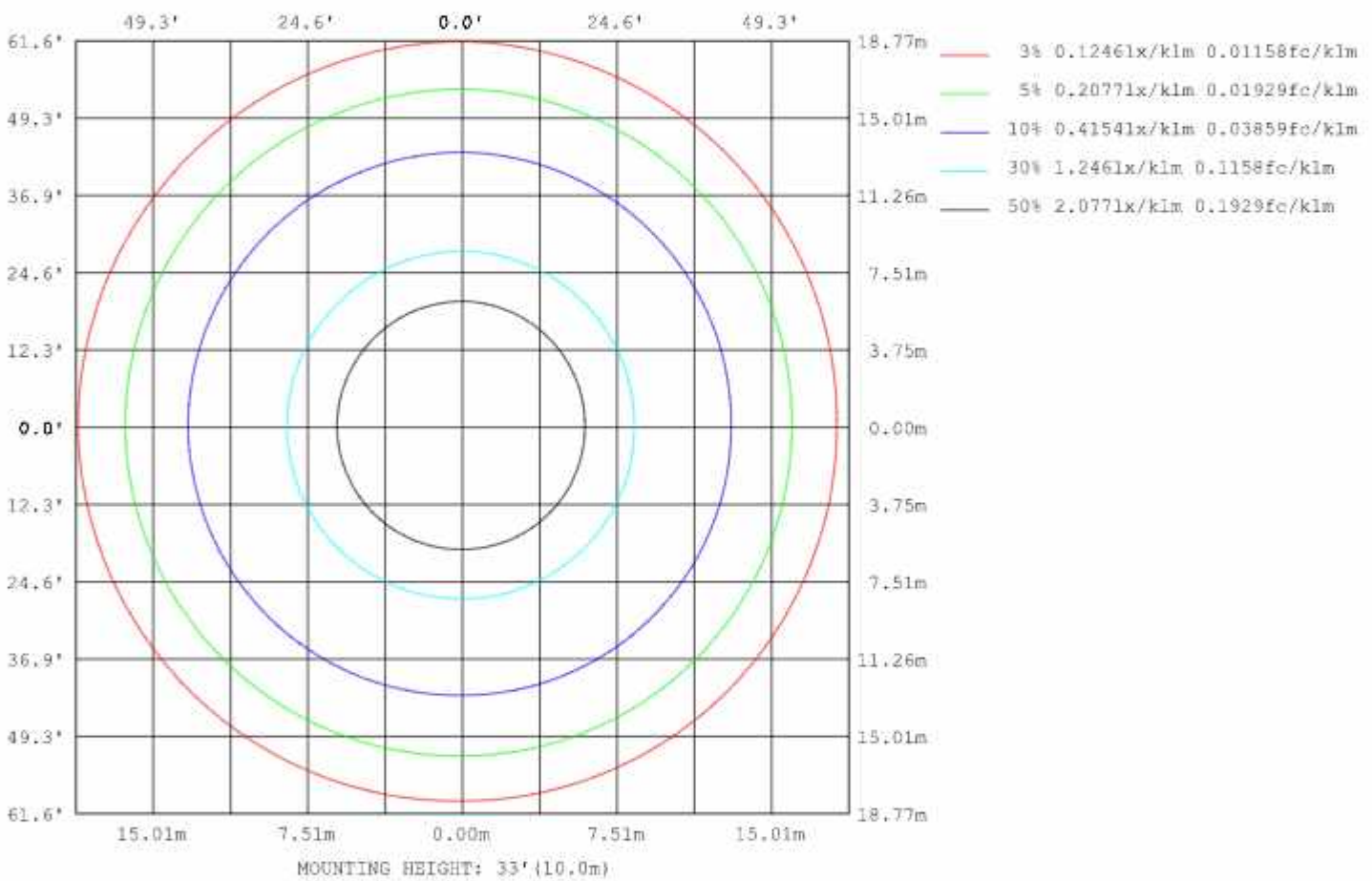
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## ISOLUX DIAGRAM

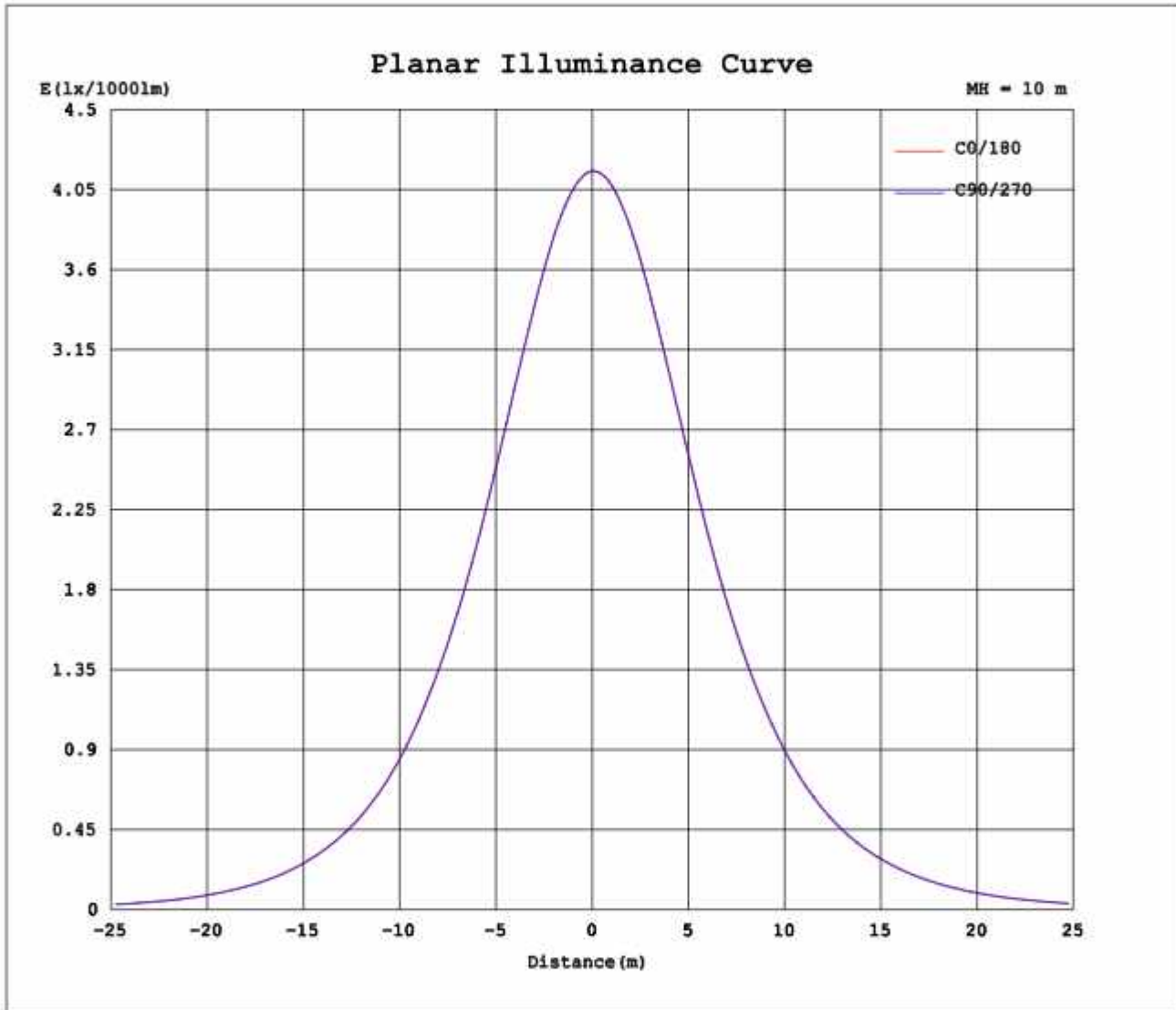
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 415  | 416  | 415  | 416  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 412  | 412  | 414  | 415  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 404  | 404  | 408  | 409  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 392  | 392  | 398  | 399  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 375  | 375  | 383  | 384  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 355  | 354  | 363  | 365  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 331  | 330  | 340  | 342  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 304  | 303  | 314  | 316  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 275  | 273  | 285  | 287  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 240  | 239  | 252  | 254  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 204  | 202  | 216  | 217  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 164  | 163  | 177  | 179  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 122  | 121  | 134  | 136  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 78.2 | 78.0 | 90.4 | 92.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 41.7 | 41.4 | 50.5 | 51.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 20.8 | 20.7 | 23.5 | 23.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 12.6 | 12.6 | 12.3 | 12.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.71 | 6.66 | 6.57 | 6.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.67 | 3.67 | 1.85 | 1.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.68 | 3.69 | 1.52 | 1.51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.71 | 3.71 | 1.71 | 1.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.73 | 3.74 | 1.91 | 1.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.76 | 3.78 | 2.12 | 2.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.81 | 3.82 | 2.34 | 2.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 3.87 | 3.87 | 2.56 | 2.54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 3.93 | 3.93 | 2.77 | 2.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 4.00 | 3.99 | 2.98 | 2.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 4.08 | 4.06 | 3.18 | 3.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.17 | 4.16 | 3.38 | 3.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.27 | 4.26 | 3.58 | 3.56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.39 | 4.38 | 3.79 | 3.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.53 | 4.52 | 4.01 | 4.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.67 | 4.66 | 4.24 | 4.24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 4.78 | 4.79 | 4.45 | 4.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 4.87 | 4.88 | 4.64 | 4.65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 4.91 | 4.93 | 4.79 | 4.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 4.90 | 4.91 | 4.89 | 4.91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

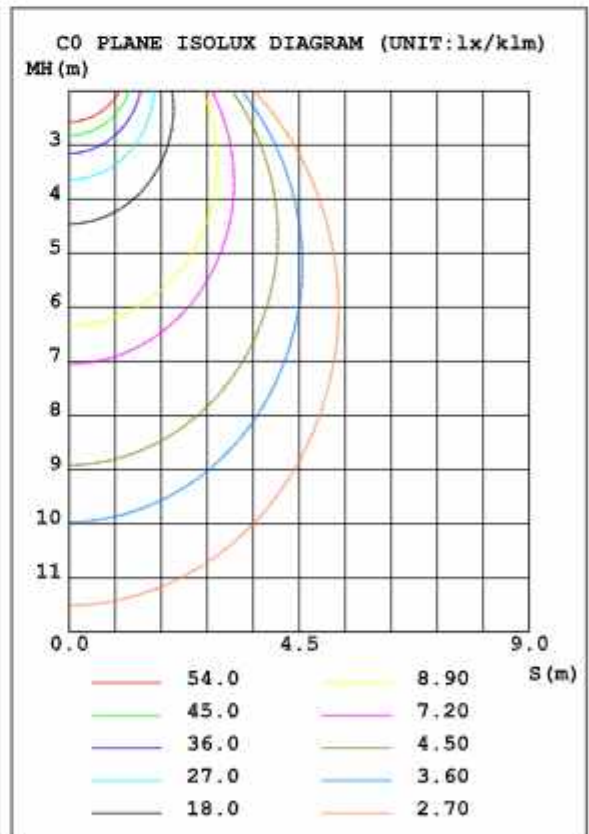
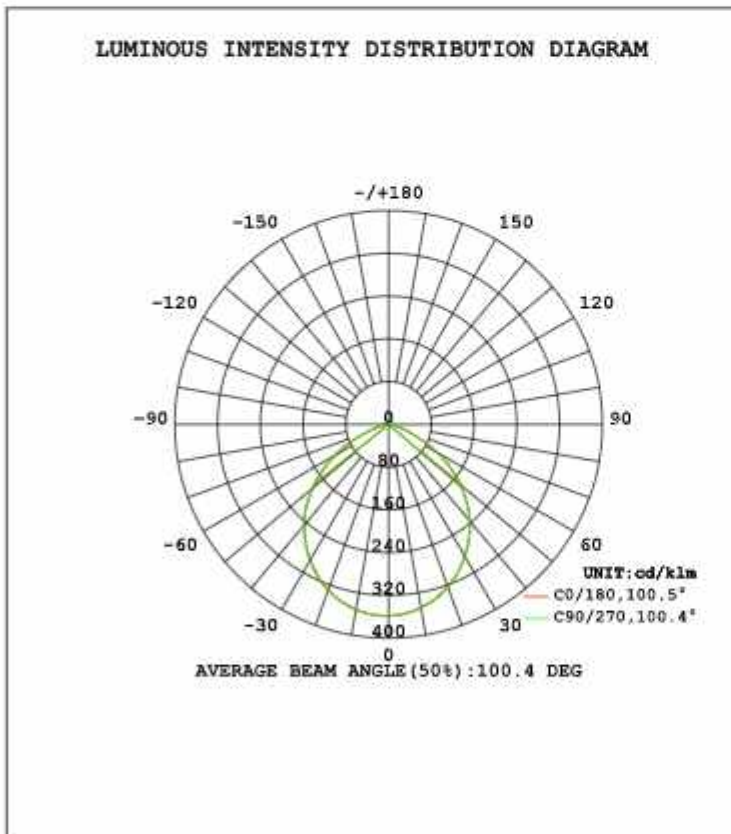
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 358.6  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 28           | LOR (%)             | 85.3   | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 853.04 | $\eta$ UP, DN (C0-180)   | 1.1, 40.6 |
| NOMINAL FLUX (lm) | 4481.13      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.7, 42.9 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 1.8    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 83.5   | CIBSE SHR MAX            | 1.35      |



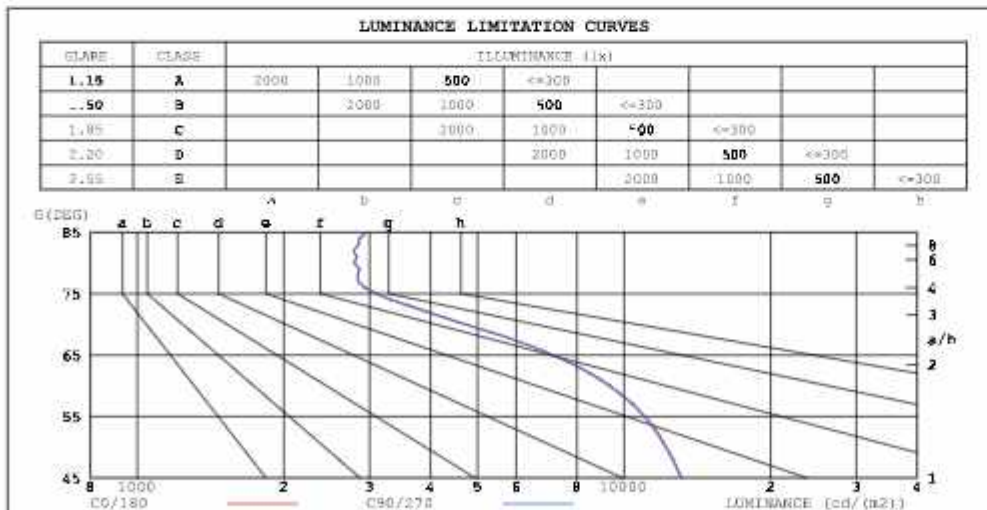
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|
| 10       | 348.4                     | 348.6 | 352.0 | 352.4 |  |  |  | 0- 10       | 23.82       | 33.82        | 3.96, 3.38       |
| 20       | 323.9                     | 323.6 | 330.1 | 331.3 |  |  |  | 10- 20      | 96.03       | 129.8        | 15.2, 13         |
| 30       | 285.2                     | 284.5 | 293.1 | 294.9 |  |  |  | 20- 30      | 142.7       | 272.5        | 31.9, 27.3       |
| 40       | 236.8                     | 235.9 | 245.7 | 247.7 |  |  |  | 30- 40      | 166.6       | 439.1        | 51.5, 43.9       |
| 50       | 175.4                     | 174.2 | 185.8 | 187.3 |  |  |  | 40- 50      | 163.5       | 602.6        | 70.6, 60.3       |
| 60       | 104.4                     | 103.8 | 115.5 | 117.0 |  |  |  | 50- 60      | 130.7       | 733.4        | 86.7, 73.3       |
| 70       | 36.10                     | 35.92 | 43.80 | 44.72 |  |  |  | 60- 70      | 72.72       | 806.1        | 94.5, 80.6       |
| 80       | 10.80                     | 10.83 | 10.67 | 10.70 |  |  |  | 70- 80      | 22.55       | 828.6        | 97.1, 82.9       |
| 90       | 3.157                     | 3.156 | 1.594 | 1.527 |  |  |  | 80- 90      | 6.444       | 835.1        | 97.9, 83.5       |
| 100      | 3.187                     | 3.196 | 1.466 | 1.454 |  |  |  | 90-100      | 2.457       | 837.5        | 98.2, 83.8       |
| 110      | 3.241                     | 3.251 | 1.825 | 1.809 |  |  |  | 100-110     | 2.566       | 840.1        | 98.5, 84         |
| 120      | 3.332                     | 3.337 | 2.201 | 2.185 |  |  |  | 110-120     | 2.625       | 842.7        | 98.8, 84.3       |
| 130      | 3.446                     | 3.435 | 2.565 | 2.539 |  |  |  | 120-130     | 2.582       | 845.3        | 99.1, 84.5       |
| 140      | 3.588                     | 3.577 | 2.906 | 2.882 |  |  |  | 130-140     | 2.409       | 847.7        | 99.4, 84.8       |
| 150      | 3.780                     | 3.771 | 3.262 | 3.254 |  |  |  | 140-150     | 2.116       | 849.8        | 99.6, 85         |
| 160      | 4.015                     | 4.015 | 3.649 | 3.654 |  |  |  | 150-160     | 1.696       | 851.5        | 99.8, 85.2       |
| 170      | 4.187                     | 4.202 | 3.992 | 4.002 |  |  |  | 160-170     | 1.122       | 852.6        | 100, 85.3        |
| 180      | 4.214                     | 4.224 | 4.204 | 4.230 |  |  |  | 170-180     | 0.3964      | 853.0        | 100, 85.3        |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |



| LUMINANCE cd/ (m2) |        |         |
|--------------------|--------|---------|
| G (DEG)            | C0/180 | C90/270 |
| 85                 | 2972   | 2943    |
| 80                 | 2788   | 2794    |
| 75                 | 3106   | 3098    |
| 70                 | 4730   | 4706    |
| 65                 | 7122   | 7141    |
| 60                 | 9352   | 9306    |
| 55                 | 11046  | 10976   |
| 50                 | 12227  | 12147   |
| 45                 | 13143  | 13070   |

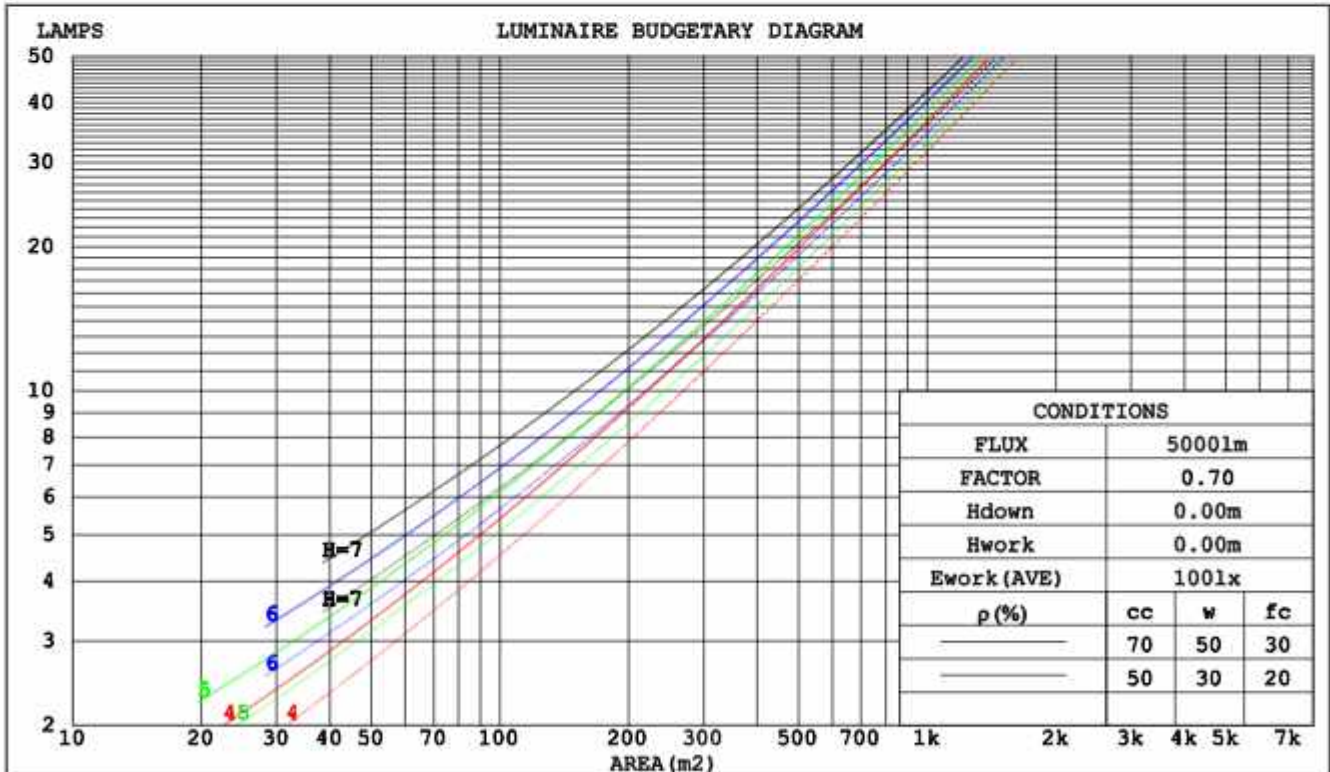
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                             |      |      | 70% |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0   |
|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| pw   | 50%                             | 30%  | 10%  | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pfc  | 20%                             |      |      | 20% |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
|      | Coefficients of Utilization(CU) |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0.0  | 1.01                            | 1.01 | 1.01 | .99 | .99 | .99 | .94 | .94 | .94 | .89 | .89 | .89 | .85 | .85 | .85 | .84 |
| 1.0  | .90                             | .87  | .84  | .88 | .85 | .83 | .84 | .82 | .80 | .81 | .79 | .77 | .77 | .76 | .74 | .73 |
| 2.0  | .80                             | .75  | .70  | .78 | .73 | .69 | .75 | .71 | .68 | .72 | .69 | .66 | .69 | .67 | .64 | .62 |
| 3.0  | .71                             | .65  | .60  | .70 | .64 | .59 | .67 | .62 | .58 | .64 | .60 | .57 | .62 | .58 | .55 | .54 |
| 4.0  | .63                             | .57  | .51  | .62 | .56 | .51 | .60 | .54 | .50 | .58 | .53 | .49 | .56 | .52 | .48 | .47 |
| 5.0  | .57                             | .50  | .45  | .56 | .49 | .44 | .54 | .48 | .44 | .52 | .47 | .43 | .51 | .46 | .43 | .41 |
| 6.0  | .52                             | .44  | .39  | .51 | .44 | .39 | .49 | .43 | .39 | .47 | .42 | .38 | .46 | .41 | .38 | .36 |
| 7.0  | .47                             | .40  | .35  | .46 | .39 | .35 | .45 | .39 | .34 | .43 | .38 | .34 | .42 | .37 | .34 | .32 |
| 8.0  | .43                             | .36  | .31  | .42 | .36 | .31 | .41 | .35 | .31 | .40 | .34 | .31 | .39 | .34 | .30 | .29 |
| 9.0  | .39                             | .33  | .28  | .39 | .33 | .28 | .38 | .32 | .28 | .37 | .31 | .28 | .36 | .31 | .27 | .26 |
| 10.0 | .36                             | .30  | .26  | .36 | .30 | .26 | .35 | .29 | .25 | .34 | .29 | .25 | .33 | .29 | .25 | .24 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0         | .226                  | .128 | .041 | .219 | .125 | .040 | .207                            | .119 | .038 | .196 | .113 | .036 | .186 | .108 | .035 |   |
| 2.0         | .218                  | .120 | .037 | .213 | .117 | .036 | .202                            | .112 | .035 | .192 | .108 | .034 | .183 | .104 | .033 |   |
| 3.0         | .206                  | .110 | .033 | .201 | .108 | .032 | .192                            | .104 | .032 | .183 | .100 | .031 | .175 | .097 | .030 |   |
| 4.0         | .194                  | .101 | .030 | .189 | .099 | .029 | .181                            | .096 | .029 | .173 | .093 | .028 | .166 | .090 | .027 |   |
| 5.0         | .181                  | .092 | .027 | .177 | .091 | .027 | .170                            | .088 | .026 | .163 | .086 | .026 | .156 | .084 | .025 |   |
| 6.0         | .170                  | .085 | .024 | .166 | .084 | .024 | .160                            | .082 | .024 | .153 | .080 | .023 | .147 | .078 | .023 |   |
| 7.0         | .159                  | .079 | .022 | .156 | .078 | .022 | .150                            | .076 | .022 | .145 | .074 | .022 | .139 | .072 | .021 |   |
| 8.0         | .150                  | .073 | .021 | .147 | .072 | .020 | .142                            | .071 | .020 | .136 | .069 | .020 | .132 | .068 | .020 |   |
| 9.0         | .141                  | .068 | .019 | .139 | .068 | .019 | .134                            | .066 | .019 | .129 | .065 | .019 | .125 | .063 | .018 |   |
| 10.0        | .133                  | .064 | .018 | .131 | .063 | .018 | .127                            | .062 | .017 | .122 | .061 | .017 | .118 | .060 | .017 |   |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .176                  | .176 | .176 | .151 | .151 | .151 | .103                                       | .103 | .103 | .059 | .059 | .059 | .019 | .019 | .019 |   |
| 1.0         | .165                  | .147 | .131 | .141 | .126 | .113 | .097                                       | .087 | .078 | .056 | .050 | .046 | .018 | .016 | .015 |   |
| 2.0         | .157                  | .127 | .101 | .134 | .109 | .087 | .092                                       | .075 | .061 | .053 | .044 | .036 | .017 | .014 | .012 |   |
| 3.0         | .150                  | .111 | .081 | .128 | .096 | .070 | .088                                       | .067 | .049 | .051 | .039 | .029 | .016 | .013 | .009 |   |
| 4.0         | .143                  | .100 | .067 | .123 | .086 | .058 | .084                                       | .060 | .041 | .049 | .035 | .024 | .016 | .011 | .008 |   |
| 5.0         | .137                  | .091 | .057 | .118 | .079 | .049 | .081                                       | .055 | .035 | .047 | .032 | .021 | .015 | .011 | .007 |   |
| 6.0         | .131                  | .084 | .049 | .113 | .072 | .043 | .078                                       | .051 | .030 | .045 | .030 | .018 | .015 | .010 | .006 |   |
| 7.0         | .126                  | .078 | .044 | .108 | .067 | .038 | .075                                       | .047 | .027 | .043 | .028 | .016 | .014 | .009 | .005 |   |
| 8.0         | .121                  | .073 | .040 | .104 | .063 | .035 | .072                                       | .044 | .025 | .042 | .026 | .015 | .014 | .009 | .005 |   |
| 9.0         | .116                  | .069 | .037 | .100 | .059 | .032 | .069                                       | .042 | .023 | .040 | .025 | .014 | .013 | .008 | .004 |   |
| 10.0        | .111                  | .065 | .034 | .096 | .056 | .030 | .067                                       | .040 | .021 | .039 | .023 | .013 | .013 | .008 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |                  |      |      |      |      | TYPE:          |      |      |      |      | WEIGHT:           |      |      |      |      |
|--|------------------|------|------|------|------|----------------|------|------|------|------|-------------------|------|------|------|------|
| DIM.:  |                  |      |      |      |      | SPEC.:         |      |      |      |      | SERIAL No.:       |      |      |      |      |
| MFR.: HXD  |                  |      |      |      |      | SUR.:          |      |      |      |      | PROTECTION ANGLE: |      |      |      |      |
| ceiling/cavity                                     | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  | 0.7               | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  | 0.5               | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |                   |      |      |      |      |
| x = 2H y = 2H                                      | 15.5             | 16.9 | 15.8 | 17.1 | 17.3 | 15.5           | 16.8 | 15.8 | 17.1 | 17.3 | 15.5              | 16.8 | 15.8 | 17.1 | 17.3 |
| 3H   | 16.0             | 17.2 | 16.3 | 17.5 | 17.8 | 15.9           | 17.2 | 16.3 | 17.5 | 17.7 | 15.9              | 17.2 | 16.3 | 17.5 | 17.7 |
| 4H   | 16.0             | 17.2 | 16.3 | 17.5 | 17.8 | 16.0           | 17.2 | 16.3 | 17.5 | 17.7 | 16.0              | 17.2 | 16.3 | 17.5 | 17.7 |
| 6H   | 16.0             | 17.1 | 16.4 | 17.4 | 17.7 | 16.0           | 17.1 | 16.3 | 17.4 | 17.7 | 16.0              | 17.1 | 16.3 | 17.4 | 17.7 |
| 8H   | 16.0             | 17.1 | 16.4 | 17.4 | 17.7 | 16.0           | 17.1 | 16.3 | 17.4 | 17.7 | 16.0              | 17.1 | 16.3 | 17.4 | 17.7 |
| 12H  | 16.0             | 17.0 | 16.4 | 17.3 | 17.7 | 16.0           | 17.0 | 16.3 | 17.3 | 17.7 | 16.0              | 17.0 | 16.3 | 17.3 | 17.7 |
| 4H 2H  | 15.8             | 17.0 | 16.1 | 17.2 | 17.5 | 15.7           | 16.9 | 16.1 | 17.2 | 17.5 | 15.7              | 16.9 | 16.1 | 17.2 | 17.5 |
| 3H   | 16.3             | 17.4 | 16.7 | 17.7 | 18.0 | 16.3           | 17.3 | 16.7 | 17.7 | 18.0 | 16.3              | 17.3 | 16.7 | 17.7 | 18.0 |
| 4H   | 16.4             | 17.3 | 16.8 | 17.7 | 18.1 | 16.4           | 17.3 | 16.8 | 17.7 | 18.0 | 16.4              | 17.3 | 16.8 | 17.7 | 18.0 |
| 6H   | 16.5             | 17.3 | 16.9 | 17.7 | 18.1 | 16.4           | 17.3 | 16.9 | 17.7 | 18.1 | 16.4              | 17.3 | 16.9 | 17.7 | 18.1 |
| 8H   | 16.5             | 17.2 | 16.9 | 17.6 | 18.1 | 16.5           | 17.2 | 16.9 | 17.6 | 18.1 | 16.5              | 17.2 | 16.9 | 17.6 | 18.1 |
| 12H  | 16.5             | 17.2 | 17.0 | 17.6 | 18.1 | 16.5           | 17.2 | 16.9 | 17.6 | 18.0 | 16.5              | 17.2 | 16.9 | 17.6 | 18.0 |
| 8H 4H  | 16.4             | 17.1 | 16.8 | 17.5 | 18.0 | 16.4           | 17.1 | 16.8 | 17.5 | 17.9 | 16.4              | 17.1 | 16.8 | 17.5 | 17.9 |
| 6H   | 16.5             | 17.1 | 17.0 | 17.6 | 18.0 | 16.5           | 17.1 | 16.9 | 17.5 | 18.0 | 16.5              | 17.1 | 16.9 | 17.5 | 18.0 |
| 8H   | 16.6             | 17.1 | 17.0 | 17.6 | 18.1 | 16.5           | 17.1 | 17.0 | 17.5 | 18.0 | 16.5              | 17.1 | 17.0 | 17.5 | 18.0 |
| 12H  | 16.6             | 17.1 | 17.1 | 17.6 | 18.1 | 16.6           | 17.1 | 17.1 | 17.6 | 18.1 | 16.6              | 17.1 | 17.1 | 17.6 | 18.1 |
| 12H 4H   | 16.3             | 17.0 | 16.8 | 17.5 | 17.9 | 16.3           | 17.0 | 16.8 | 17.4 | 17.9 | 16.3              | 17.0 | 16.8 | 17.4 | 17.9 |
| 6H   | 16.5             | 17.0 | 17.0 | 17.5 | 18.0 | 16.5           | 17.0 | 16.9 | 17.5 | 18.0 | 16.5              | 17.0 | 16.9 | 17.5 | 18.0 |
| 8H   | 16.6             | 17.0 | 17.1 | 17.5 | 18.0 | 16.5           | 17.0 | 17.1 | 17.5 | 18.0 | 16.5              | 17.0 | 17.1 | 17.5 | 18.0 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |                   |      |      |      |      |
| S = 1.0H   | + 0.4 / - 0.5    |      |      |      |      | + 0.4 / - 0.5  |      |      |      |      |                   |      |      |      |      |
| 1.5H   | + 0.3 / - 0.6    |      |      |      |      | + 0.3 / - 0.5  |      |      |      |      |                   |      |      |      |      |
| 2.0H   | + 0.8 / - 1.0    |      |      |      |      | + 0.8 / - 1.0  |      |      |      |      |                   |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

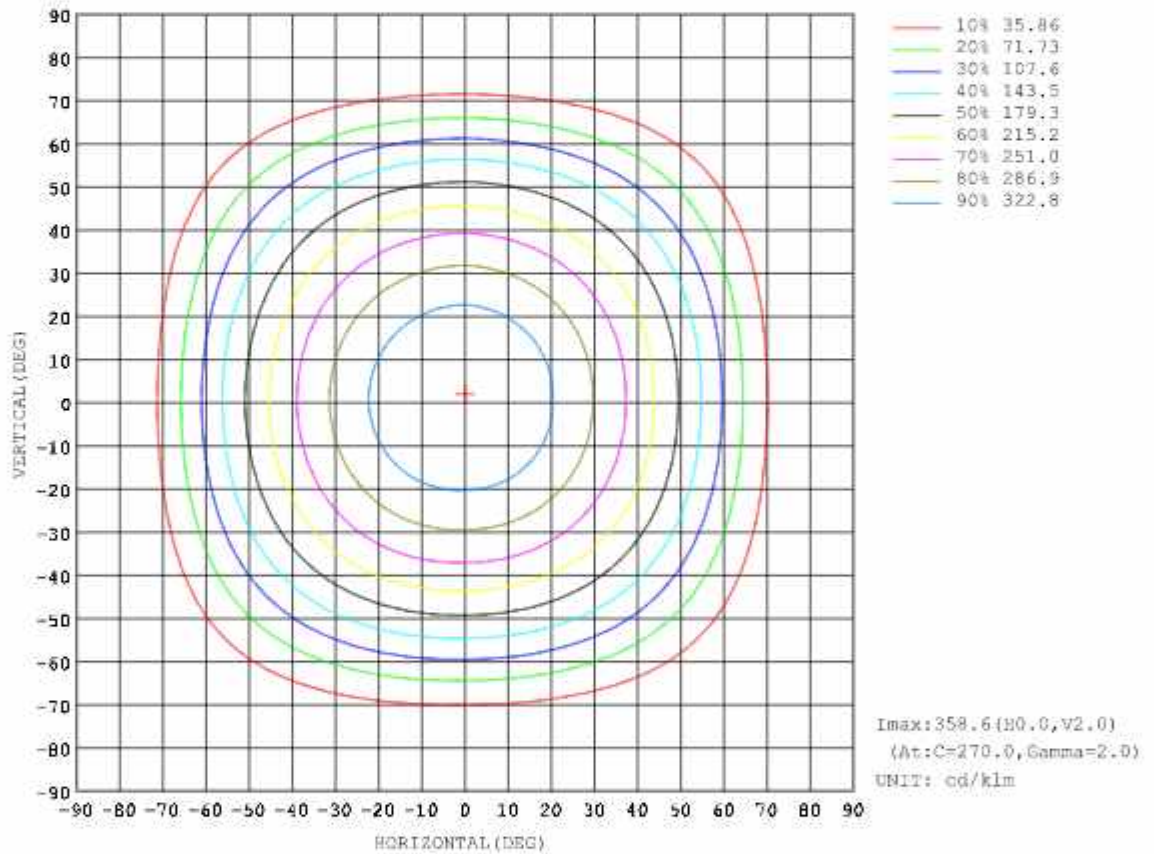
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| $k = 0.60$                       | 52   | 43  | 37        | 51  | 42  | 37  | 50            | 42  | 37  | 32     |
| 0.80                             | 61   | 52  | 46        | 60  | 51  | 46  | 58            | 51  | 45  | 40     |
| 1.00                             | 68   | 60  | 54        | 67  | 59  | 54  | 65            | 60  | 53  | 47     |
| 1.25                             | 74   | 66  | 61        | 73  | 65  | 60  | 71            | 64  | 59  | 54     |
| 1.50                             | 78   | 71  | 65        | 77  | 70  | 65  | 74            | 68  | 64  | 58     |
| 2.00                             | 84   | 77  | 72        | 82  | 76  | 72  | 79            | 74  | 70  | 64     |
| 2.50                             | 86   | 81  | 76        | 85  | 79  | 75  | 81            | 77  | 73  | 67     |
| 3.00                             | 89   | 84  | 80        | 87  | 82  | 79  | 83            | 80  | 77  | 69     |
| 4.00                             | 92   | 88  | 84        | 90  | 86  | 83  | 86            | 83  | 80  | 73     |
| 5.00                             | 94   | 90  | 87        | 91  | 88  | 86  | 87            | 85  | 83  | 75     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

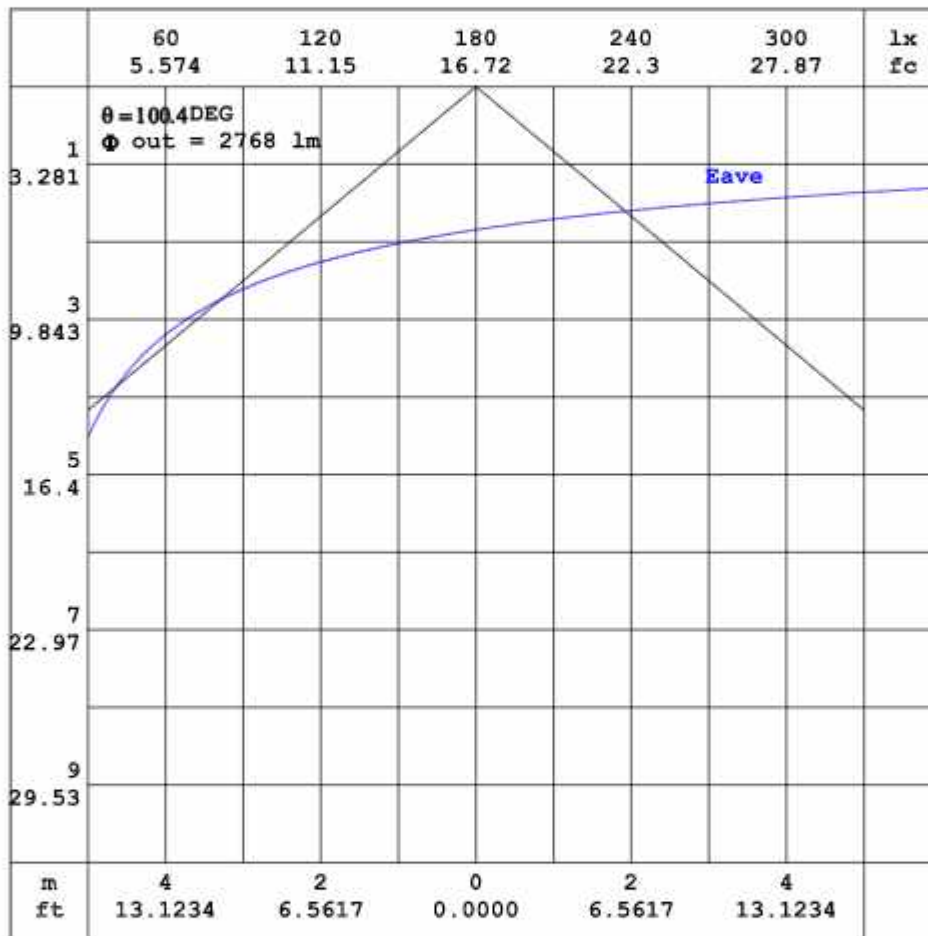


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



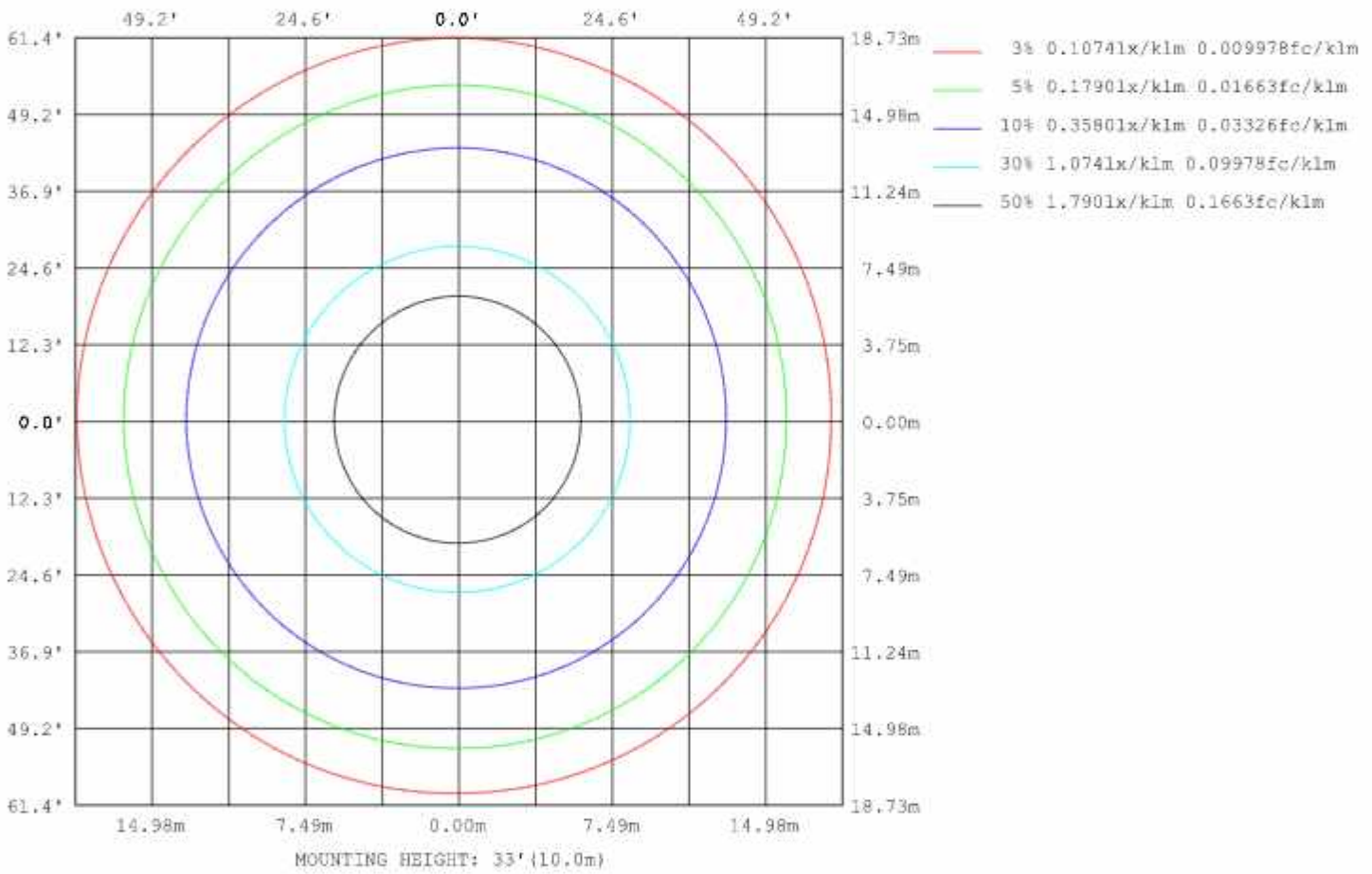
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

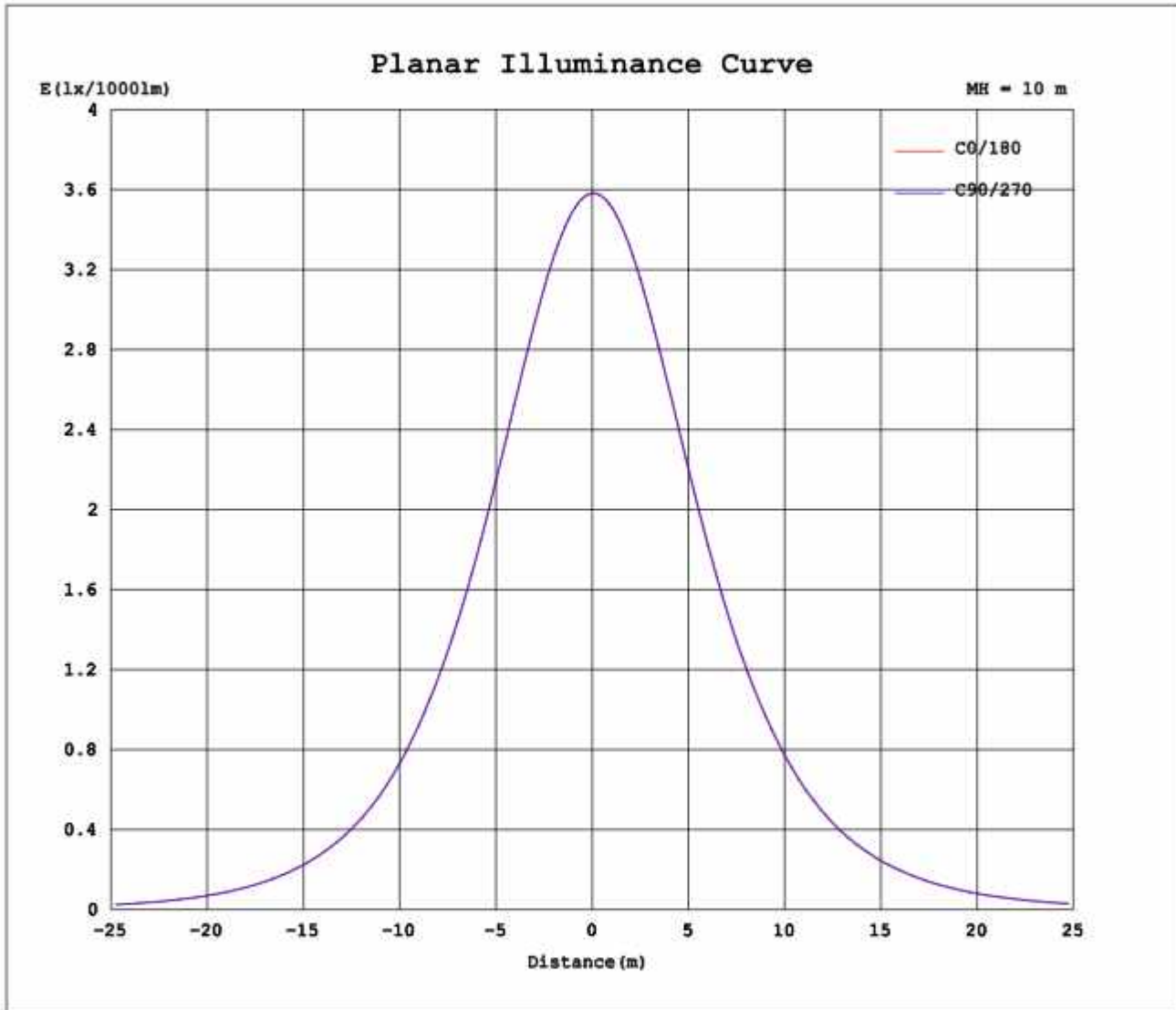
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 358  | 358  | 358  | 358  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 355  | 355  | 357  | 357  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 348  | 349  | 352  | 352  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 338  | 338  | 343  | 344  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 324  | 324  | 330  | 331  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 306  | 306  | 313  | 313  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 285  | 285  | 293  | 295  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 262  | 261  | 270  | 272  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 237  | 236  | 246  | 248  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 207  | 206  | 217  | 219  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 175  | 174  | 186  | 187  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 141  | 140  | 152  | 154  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 104  | 104  | 116  | 117  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 67.2 | 67.3 | 77.9 | 79.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 36.1 | 35.9 | 43.8 | 44.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 17.9 | 17.9 | 20.4 | 20.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 10.8 | 10.8 | 10.7 | 10.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 5.78 | 5.72 | 5.65 | 5.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 3.16 | 3.16 | 1.59 | 1.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 3.17 | 3.17 | 1.31 | 1.30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 3.19 | 3.20 | 1.47 | 1.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 3.21 | 3.22 | 1.64 | 1.63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 3.24 | 3.25 | 1.82 | 1.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 3.28 | 3.29 | 2.01 | 2.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 3.33 | 3.34 | 2.20 | 2.19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 3.39 | 3.39 | 2.39 | 2.37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 3.45 | 3.44 | 2.56 | 2.54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 3.51 | 3.50 | 2.74 | 2.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 3.59 | 3.58 | 2.91 | 2.88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 3.68 | 3.67 | 3.08 | 3.06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 3.78 | 3.77 | 3.26 | 3.25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 3.90 | 3.89 | 3.45 | 3.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 4.01 | 4.01 | 3.65 | 3.65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 4.11 | 4.12 | 3.83 | 3.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 4.19 | 4.20 | 3.99 | 4.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 4.23 | 4.24 | 4.12 | 4.14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 4.21 | 4.22 | 4.20 | 4.23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

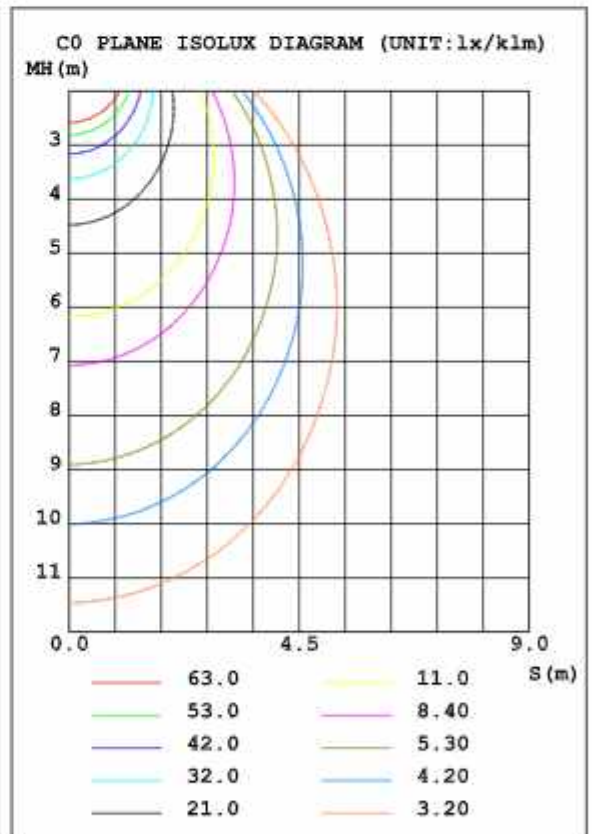
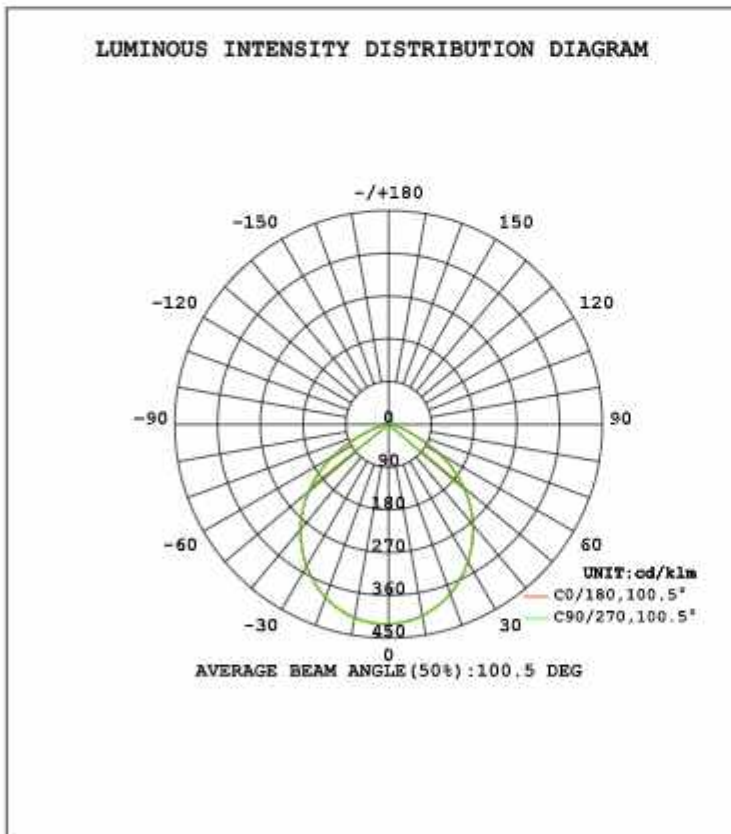
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA Eff: 118.25 lm/W |        |                          |           |
|-------------------|--------------|-----------------------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)                     | 420.6  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 38           | LOR (%)                           | 100.0  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm)               | 1000.0 | $\eta$ UP, DN (C0-180)   | 1.3, 47.6 |
| NOMINAL FLUX (lm) | 4138.77      | CIE CLASS                         | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 50.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)                     | 2.1    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.8        | $\eta$ down (%)                   | 97.9   | CIBSE SHR MAX            | 1.35      |



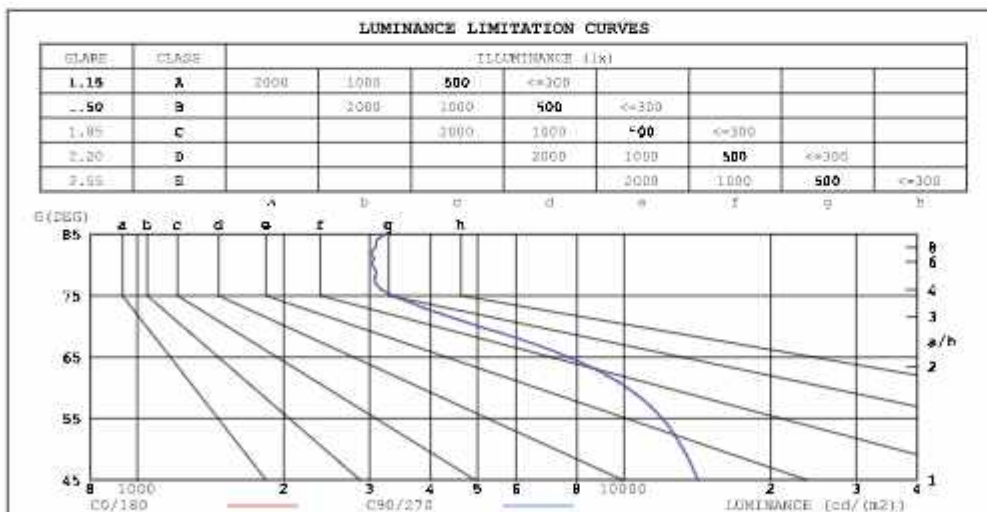
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|--|
| 10       | 408.8                     | 408.6 | 413.6 | 413.5 |  |  |  | 0- 10       | 39.68       | 39.68        | 3.97, 3.97       |  |
| 20       | 379.8                     | 379.2 | 387.8 | 388.5 |  |  |  | 10- 20      | 112.7       | 152.3        | 15.2, 15.2       |  |
| 30       | 334.2                     | 333.0 | 344.2 | 345.7 |  |  |  | 20- 30      | 167.3       | 319.6        | 32, 32           |  |
| 40       | 277.2                     | 276.0 | 288.5 | 290.1 |  |  |  | 30- 40      | 195.2       | 514.8        | 51.5, 51.5       |  |
| 50       | 206.0                     | 204.6 | 218.5 | 219.7 |  |  |  | 40- 50      | 191.8       | 706.6        | 70.7, 70.7       |  |
| 60       | 122.9                     | 122.2 | 136.4 | 137.6 |  |  |  | 50- 60      | 153.8       | 860.4        | 86, 86           |  |
| 70       | 41.63                     | 41.48 | 50.37 | 51.07 |  |  |  | 60- 70      | 84.93       | 945.3        | 94.5, 94.5       |  |
| 80       | 12.70                     | 12.75 | 12.48 | 12.46 |  |  |  | 70- 80      | 26.10       | 971.4        | 97.1, 97.1       |  |
| 90       | 3.695                     | 3.694 | 1.857 | 1.776 |  |  |  | 80- 90      | 7.553       | 979.0        | 97.9, 97.9       |  |
| 100      | 3.733                     | 3.739 | 1.707 | 1.695 |  |  |  | 90-100      | 2.871       | 981.8        | 98.2, 98.2       |  |
| 110      | 3.795                     | 3.801 | 2.127 | 2.114 |  |  |  | 100-110     | 2.999       | 984.8        | 98.5, 98.5       |  |
| 120      | 3.900                     | 3.904 | 2.570 | 2.551 |  |  |  | 110-120     | 3.069       | 987.9        | 98.8, 98.8       |  |
| 130      | 4.045                     | 4.025 | 3.000 | 2.972 |  |  |  | 120-130     | 3.022       | 990.9        | 99.1, 99.1       |  |
| 140      | 4.214                     | 4.189 | 3.401 | 3.374 |  |  |  | 130-140     | 2.822       | 993.8        | 99.4, 99.4       |  |
| 150      | 4.441                     | 4.417 | 3.819 | 3.814 |  |  |  | 140-150     | 2.479       | 996.2        | 99.6, 99.6       |  |
| 160      | 4.712                     | 4.704 | 4.277 | 4.284 |  |  |  | 150-160     | 1.989       | 998.2        | 99.8, 99.8       |  |
| 170      | 4.922                     | 4.928 | 4.684 | 4.690 |  |  |  | 160-170     | 1.316       | 999.5        | 100, 100         |  |
| 180      | 4.950                     | 4.958 | 4.936 | 4.964 |  |  |  | 170-180     | 0.4651      | 1000         | 100, 100         |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |  |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 3229   | 3202    |
| 80                | 3026   | 3039    |
| 75                | 3347   | 3343    |
| 70                | 5038   | 5019    |
| 65                | 7671   | 7691    |
| 60                | 10170  | 10119   |
| 55                | 12005  | 11936   |
| 50                | 13264  | 13174   |
| 45                | 14231  | 14191   |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

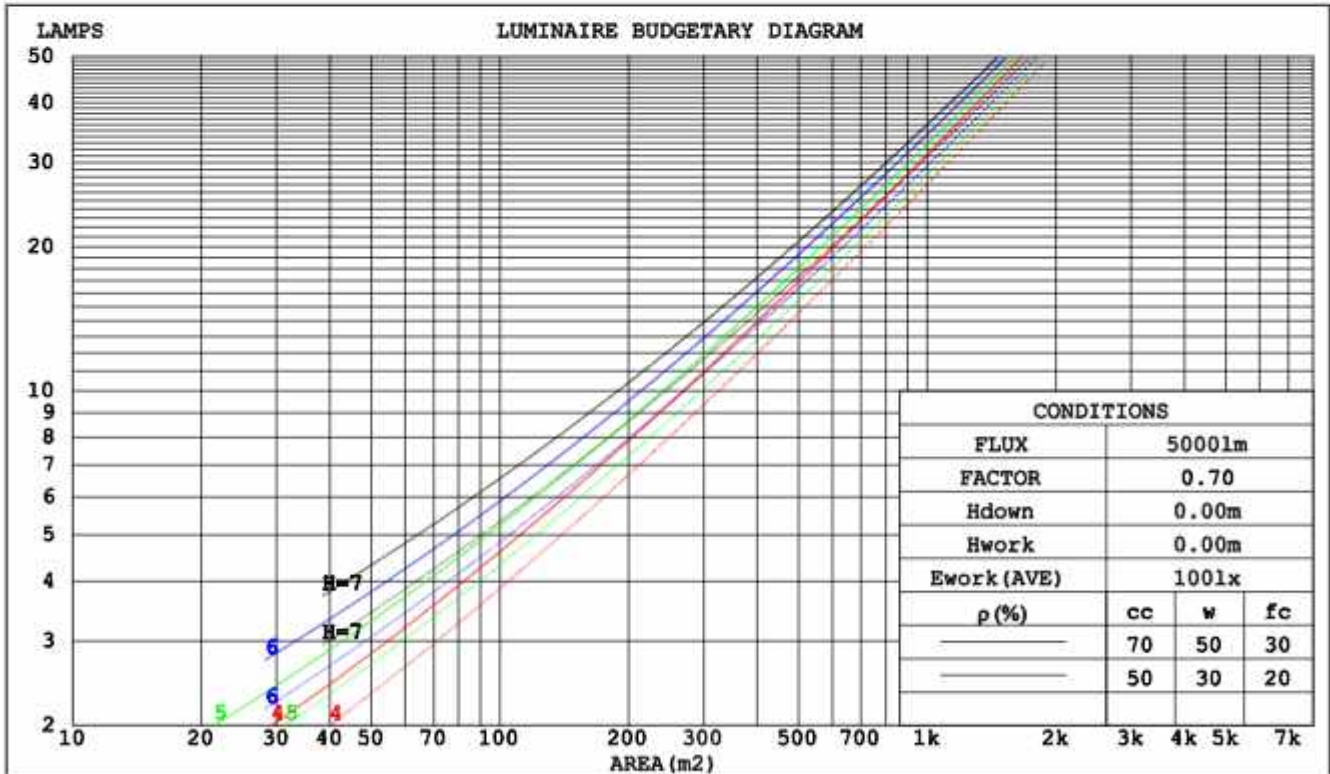
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:



## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Coefficients of Utilization(CU) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | 1.06                  | 1.02 | .99  | 1.03 | .90  | .97  | .99  | .96  | .94  | .95  | .92  | .90  | .91  | .89  | .87  | .85                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.0  | .94                   | .88  | .83  | .92  | .86  | .81  | .88  | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.0  | .83                   | .76  | .70  | .82  | .75  | .69  | .78  | .73  | .68  | .75  | .71  | .66  | .73  | .69  | .65  | .63                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.0  | .74                   | .66  | .60  | .73  | .65  | .60  | .70  | .64  | .59  | .68  | .62  | .58  | .65  | .61  | .57  | .55                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.0  | .67                   | .59  | .52  | .66  | .58  | .52  | .63  | .57  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .48                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.0  | .60                   | .52  | .46  | .59  | .52  | .46  | .57  | .50  | .45  | .56  | .49  | .45  | .54  | .48  | .44  | .42                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.0  | .55                   | .47  | .41  | .54  | .46  | .41  | .52  | .45  | .40  | .51  | .45  | .40  | .49  | .44  | .39  | .38                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.0  | .50                   | .42  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .40  | .36  | .45  | .40  | .36  | .34                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.0  | .46                   | .38  | .33  | .46  | .38  | .33  | .44  | .38  | .33  | .43  | .37  | .32  | .42  | .36  | .32  | .30                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.0 | .43                   | .35  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .39  | .33  | .29  | .28                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .265                  | .150 | .048 | .257 | .147 | .047 | .243                            | .139 | .044 | .230 | .132 | .043 | .218 | .126 | .041 |   |
| 2.0  | .256                  | .140 | .043 | .249 | .137 | .042 | .237                            | .132 | .041 | .225 | .126 | .040 | .214 | .121 | .038 |   |
| 3.0  | .242                  | .129 | .039 | .236 | .126 | .038 | .225                            | .122 | .037 | .215 | .118 | .036 | .205 | .114 | .035 |   |
| 4.0  | .227                  | .118 | .035 | .222 | .116 | .034 | .212                            | .112 | .034 | .203 | .109 | .033 | .194 | .106 | .032 |   |
| 5.0  | .212                  | .108 | .031 | .208 | .107 | .031 | .199                            | .104 | .031 | .191 | .101 | .030 | .183 | .098 | .029 |   |
| 6.0  | .199                  | .100 | .029 | .195 | .098 | .028 | .187                            | .096 | .028 | .180 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .187                  | .092 | .026 | .183 | .091 | .026 | .176                            | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 |   |
| 8.0  | .176                  | .086 | .024 | .172 | .085 | .024 | .166                            | .083 | .024 | .160 | .081 | .023 | .154 | .079 | .023 |   |
| 9.0  | .165                  | .080 | .022 | .162 | .079 | .022 | .157                            | .077 | .022 | .151 | .076 | .022 | .146 | .074 | .021 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .148                            | .073 | .020 | .143 | .071 | .020 | .139 | .070 | .020 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .207                  | .207 | .207 | .176 | .176 | .176 | .120                                       | .120 | .120 | .069 | .069 | .069 | .022 | .022 | .022 |   |
| 1.0  | .193                  | .173 | .154 | .165 | .148 | .133 | .113                                       | .102 | .092 | .065 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .148 | .119 | .157 | .128 | .103 | .108                                       | .088 | .072 | .062 | .051 | .042 | .020 | .017 | .014 |   |
| 3.0  | .175                  | .130 | .095 | .150 | .113 | .082 | .103                                       | .078 | .058 | .060 | .046 | .034 | .019 | .015 | .011 |   |
| 4.0  | .168                  | .117 | .078 | .144 | .101 | .068 | .099                                       | .070 | .048 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .161                  | .106 | .066 | .138 | .092 | .058 | .095                                       | .064 | .041 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0  | .154                  | .098 | .058 | .132 | .085 | .050 | .091                                       | .059 | .036 | .053 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .147                  | .091 | .051 | .127 | .079 | .045 | .088                                       | .055 | .032 | .051 | .033 | .019 | .016 | .011 | .006 |   |
| 8.0  | .141                  | .085 | .047 | .122 | .074 | .041 | .084                                       | .052 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0  | .136                  | .080 | .043 | .117 | .070 | .037 | .081                                       | .049 | .027 | .047 | .029 | .016 | .015 | .009 | .005 |   |
| 10.0 | .130                  | .076 | .040 | .112 | .066 | .035 | .078                                       | .046 | .025 | .045 | .027 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:6.500m [K=1.0000]  
Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 16.1             | 17.4   | 16.3 | 17.7 | 17.9 | 16.0           | 17.4              | 16.3 | 17.6 | 17.9 |  |
| 3H   | 16.5             | 17.8   | 16.8 | 18.0 | 18.3 | 16.5           | 17.8              | 16.8 | 18.0 | 18.3 |  |
| 4H   | 16.5             | 17.7   | 16.9 | 18.0 | 18.3 | 16.5           | 17.7              | 16.9 | 18.0 | 18.3 |  |
| 6H   | 16.5             | 17.7   | 16.9 | 18.0 | 18.3 | 16.5           | 17.6              | 16.9 | 18.0 | 18.3 |  |
| 8H   | 16.5             | 17.6   | 16.9 | 17.9 | 18.3 | 16.5           | 17.6              | 16.9 | 17.9 | 18.2 |  |
| 12H  | 16.5             | 17.6   | 16.9 | 17.9 | 18.2 | 16.5           | 17.5              | 16.9 | 17.9 | 18.2 |  |
| 4H 2H  | 16.3             | 17.5   | 16.7 | 17.8 | 18.1 | 16.3           | 17.5              | 16.6 | 17.8 | 18.1 |  |
| 3H   | 16.9             | 17.9   | 17.2 | 18.2 | 18.6 | 16.8           | 17.9              | 17.2 | 18.2 | 18.5 |  |
| 4H   | 16.9             | 17.9   | 17.3 | 18.2 | 18.6 | 16.9           | 17.9              | 17.3 | 18.2 | 18.6 |  |
| 6H   | 17.0             | 17.8   | 17.4 | 18.2 | 18.6 | 17.0           | 17.8              | 17.4 | 18.2 | 18.6 |  |
| 8H   | 17.0             | 17.8   | 17.5 | 18.2 | 18.6 | 17.0           | 17.8              | 17.5 | 18.2 | 18.6 |  |
| 12H  | 17.0             | 17.7   | 17.5 | 18.2 | 18.6 | 17.0           | 17.7              | 17.5 | 18.1 | 18.6 |  |
| 8H 4H  | 16.9             | 17.7   | 17.4 | 18.1 | 18.5 | 16.9           | 17.7              | 17.3 | 18.1 | 18.5 |  |
| 6H   | 17.0             | 17.7   | 17.5 | 18.1 | 18.6 | 17.0           | 17.6              | 17.5 | 18.1 | 18.6 |  |
| 8H   | 17.1             | 17.6   | 17.6 | 18.1 | 18.6 | 17.1           | 17.6              | 17.6 | 18.1 | 18.6 |  |
| 12H  | 17.2             | 17.6   | 17.7 | 18.1 | 18.6 | 17.1           | 17.6              | 17.7 | 18.1 | 18.6 |  |
| 12H 4H   | 16.9             | 17.6   | 17.3 | 18.0 | 18.4 | 16.9           | 17.6              | 17.3 | 18.0 | 18.4 |  |
| 6H   | 17.0             | 17.6   | 17.5 | 18.0 | 18.5 | 17.0           | 17.6              | 17.5 | 18.0 | 18.5 |  |
| 8H   | 17.1             | 17.6   | 17.6 | 18.1 | 18.6 | 17.1           | 17.6              | 17.6 | 18.0 | 18.6 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.6    |        |      |      |      | + 0.3 / - 0.6  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 1.0  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

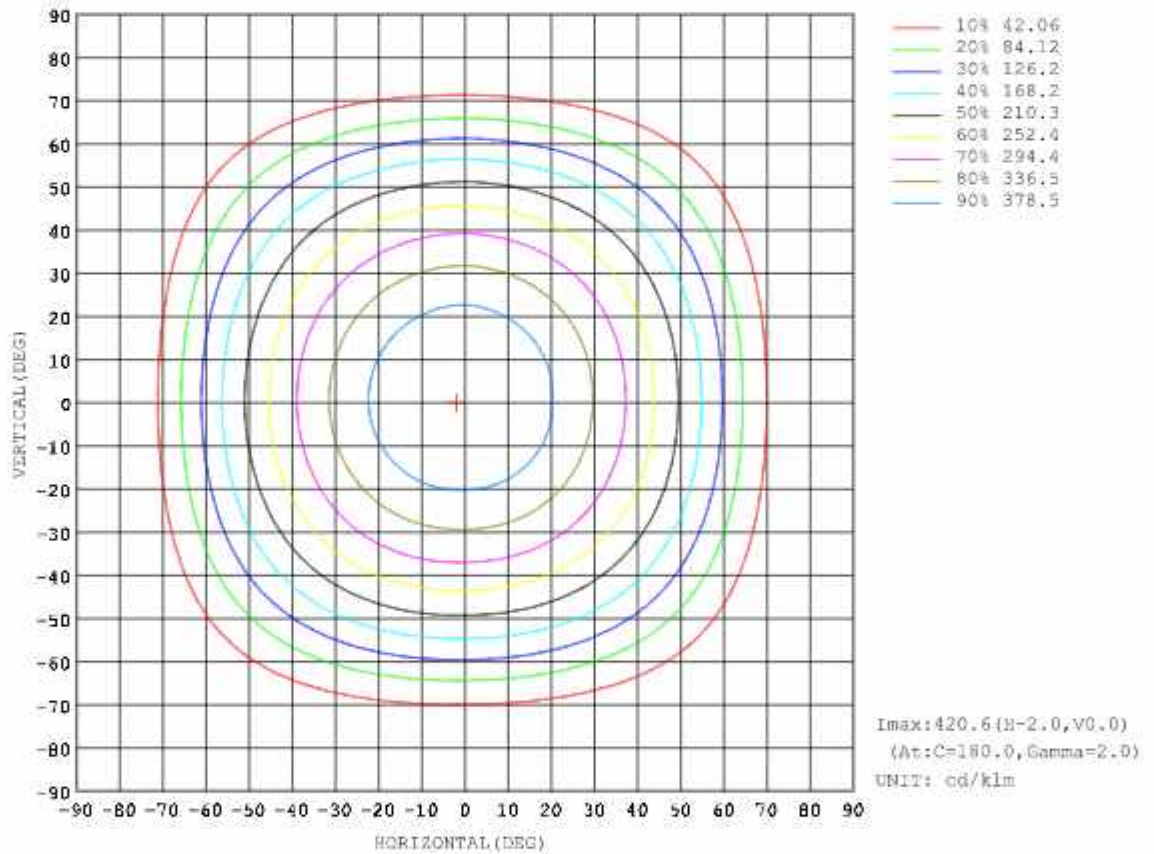
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| $k = 0.60$                       | 61   | 50  | 43        | 60  | 50  | 43  | 59            | 49  | 43  | 37     |
| 0.80                             | 71   | 61  | 54        | 70  | 60  | 54  | 68            | 59  | 53  | 47     |
| 1.00                             | 80   | 70  | 63        | 79  | 69  | 63  | 76            | 70  | 62  | 56     |
| 1.25                             | 87   | 78  | 71        | 85  | 77  | 71  | 83            | 75  | 70  | 63     |
| 1.50                             | 92   | 83  | 77        | 90  | 82  | 76  | 87            | 80  | 75  | 68     |
| 2.00                             | 98   | 90  | 85        | 96  | 89  | 84  | 92            | 87  | 82  | 75     |
| 2.50                             | 101  | 95  | 89        | 99  | 93  | 88  | 95            | 90  | 86  | 78     |
| 3.00                             | 104  | 98  | 94        | 102 | 97  | 92  | 98            | 94  | 90  | 81     |
| 4.00                             | 108  | 103 | 99        | 105 | 101 | 97  | 101           | 97  | 94  | 85     |
| 5.00                             | 110  | 106 | 102       | 107 | 103 | 100 | 102           | 100 | 97  | 87     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

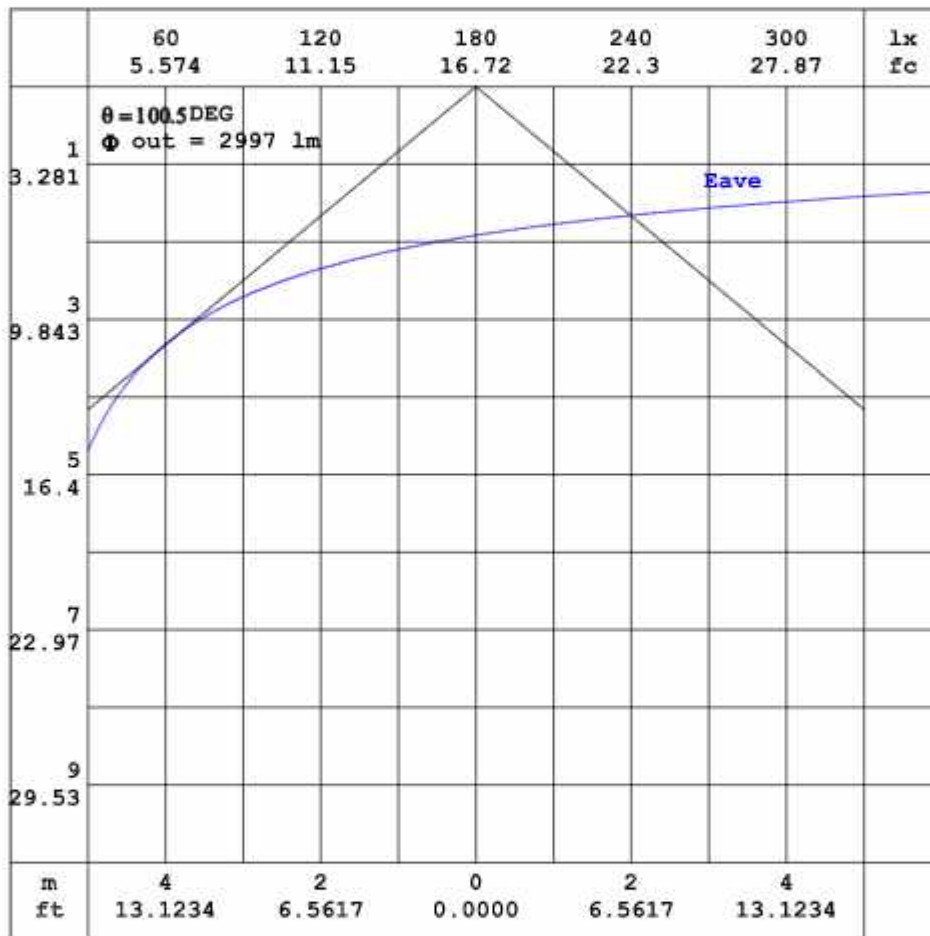


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



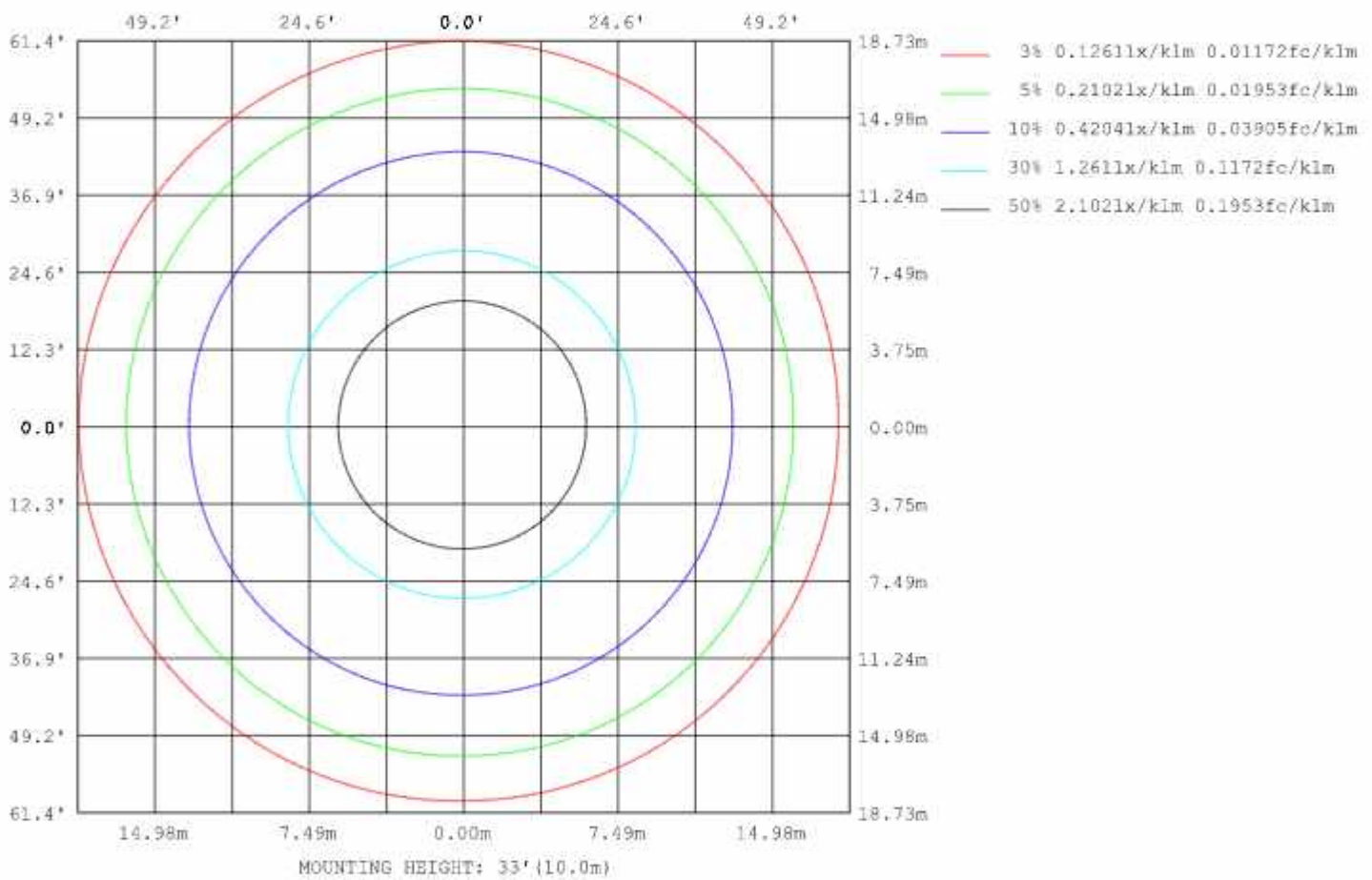
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

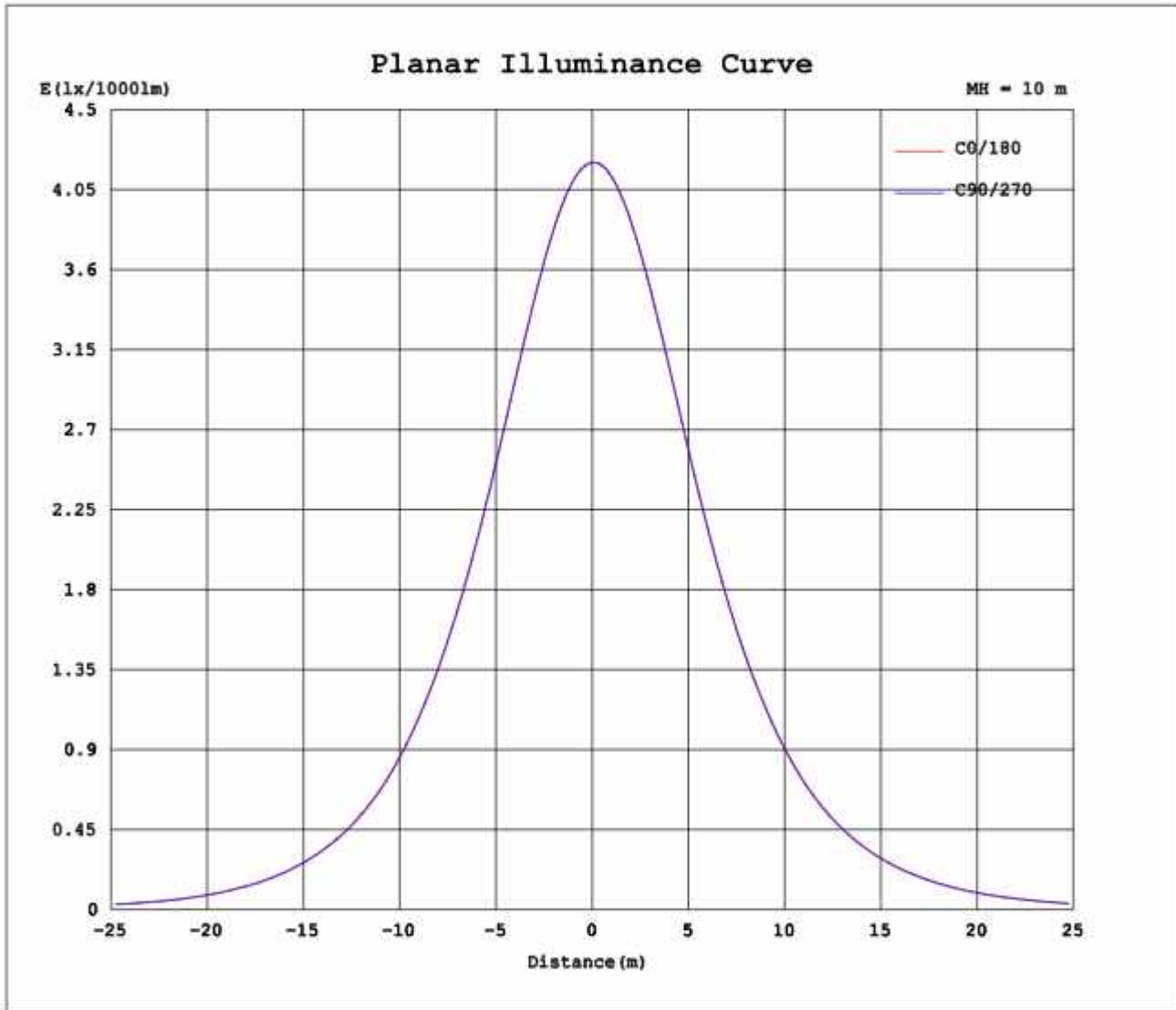
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:6.500m [K=1.0000]  
Remarks:



## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 420  | 420  | 420  | 420  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 417  | 417  | 419  | 419  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 409  | 409  | 414  | 413  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 396  | 396  | 403  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 380  | 379  | 388  | 388  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 359  | 358  | 368  | 369  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 334  | 333  | 344  | 346  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 307  | 306  | 318  | 319  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 277  | 276  | 289  | 290  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 243  | 242  | 255  | 257  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 206  | 205  | 219  | 220  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 166  | 165  | 179  | 181  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 123  | 122  | 136  | 138  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 78.3 | 78.5 | 91.2 | 92.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 41.6 | 41.3 | 50.4 | 51.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 20.9 | 20.9 | 23.6 | 24.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 12.7 | 12.8 | 12.5 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.80 | 6.74 | 6.62 | 6.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.69 | 3.69 | 1.86 | 1.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.71 | 3.72 | 1.52 | 1.51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.73 | 3.74 | 1.71 | 1.70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.76 | 3.77 | 1.91 | 1.90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.79 | 3.80 | 2.13 | 2.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.84 | 3.85 | 2.35 | 2.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 3.90 | 3.90 | 2.57 | 2.55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 3.97 | 3.96 | 2.79 | 2.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 4.04 | 4.03 | 3.00 | 2.97 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 4.12 | 4.09 | 3.20 | 3.17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.21 | 4.19 | 3.40 | 3.37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.32 | 4.29 | 3.61 | 3.59 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.44 | 4.42 | 3.82 | 3.81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.58 | 4.56 | 4.05 | 4.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.71 | 4.70 | 4.28 | 4.28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 4.83 | 4.83 | 4.50 | 4.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 4.92 | 4.93 | 4.68 | 4.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 4.97 | 4.97 | 4.84 | 4.85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 4.95 | 4.96 | 4.94 | 4.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

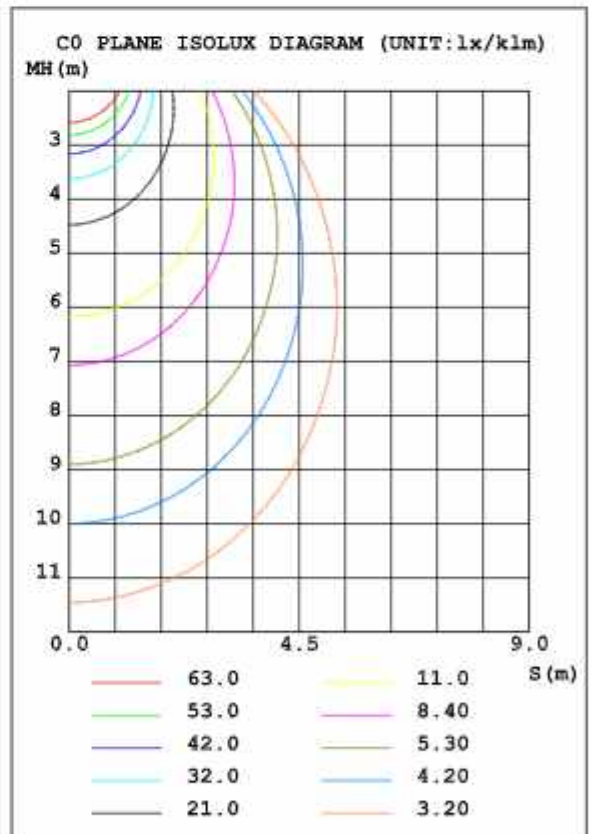
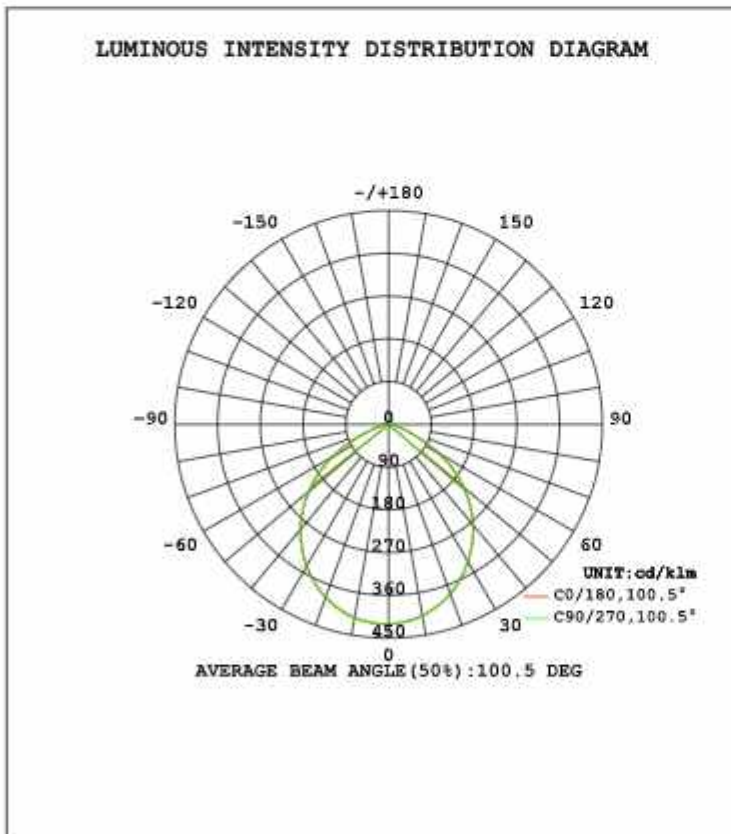
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 420.6  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 38           | LOR (%)             | 100.0  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1000.0 | $\eta$ UP, DN (C0-180)   | 1.3, 47.6 |
| NOMINAL FLUX (lm) | 4481.13      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 50.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.1    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 97.9   | CIBSE SHR MAX            | 1.35      |



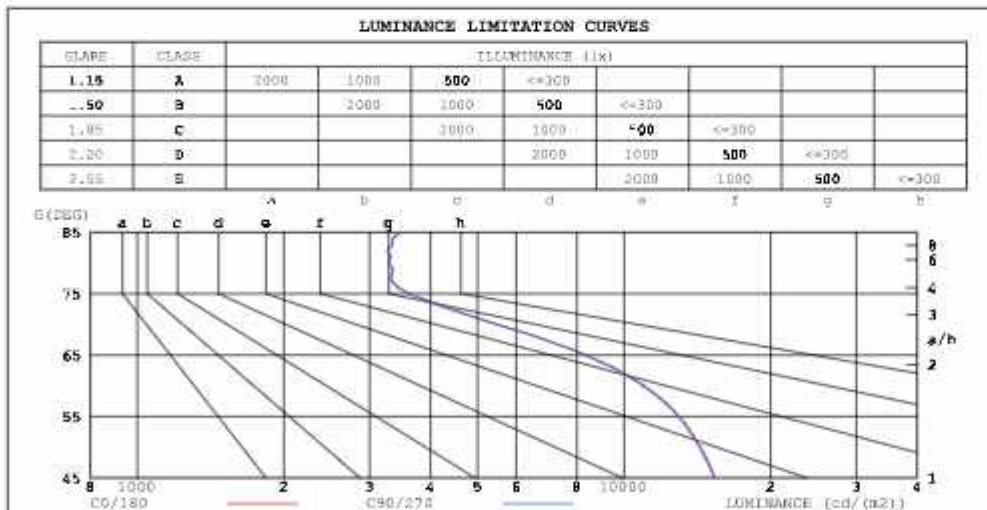
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|--|
| 10       | 408.9                     | 408.8 | 413.2 | 413.6 |  |  |  | 0- 10       | 39.68       | 39.68        | 3.97, 3.97       |  |
| 20       | 379.7                     | 379.1 | 387.3 | 388.6 |  |  |  | 10- 20      | 112.6       | 152.3        | 15.2, 15.2       |  |
| 30       | 334.3                     | 333.2 | 344.1 | 345.9 |  |  |  | 20- 30      | 167.3       | 319.6        | 32, 32           |  |
| 40       | 277.4                     | 276.0 | 288.4 | 290.3 |  |  |  | 30- 40      | 195.3       | 514.9        | 51.5, 51.5       |  |
| 50       | 206.1                     | 204.5 | 218.2 | 220.0 |  |  |  | 40- 50      | 191.8       | 706.7        | 70.7, 70.7       |  |
| 60       | 122.6                     | 122.1 | 136.0 | 137.6 |  |  |  | 50- 60      | 153.6       | 860.3        | 86, 86           |  |
| 70       | 41.89                     | 41.61 | 50.62 | 51.54 |  |  |  | 60- 70      | 85.01       | 945.3        | 94.5, 94.5       |  |
| 80       | 12.68                     | 12.70 | 12.46 | 12.48 |  |  |  | 70- 80      | 26.19       | 971.5        | 97.1, 97.1       |  |
| 90       | 3.685                     | 3.687 | 1.851 | 1.770 |  |  |  | 80- 90      | 7.541       | 979.0        | 97.9, 97.9       |  |
| 100      | 3.723                     | 3.728 | 1.699 | 1.687 |  |  |  | 90-100      | 2.861       | 981.9        | 98.2, 98.2       |  |
| 110      | 3.785                     | 3.789 | 2.119 | 2.111 |  |  |  | 100-110     | 2.989       | 984.9        | 98.5, 98.5       |  |
| 120      | 3.892                     | 3.893 | 2.561 | 2.544 |  |  |  | 110-120     | 3.060       | 987.9        | 98.8, 98.8       |  |
| 130      | 4.025                     | 4.013 | 2.990 | 2.960 |  |  |  | 120-130     | 3.013       | 991.0        | 99.1, 99.1       |  |
| 140      | 4.195                     | 4.175 | 3.392 | 3.365 |  |  |  | 130-140     | 2.813       | 993.8        | 99.4, 99.4       |  |
| 150      | 4.424                     | 4.407 | 3.812 | 3.805 |  |  |  | 140-150     | 2.472       | 996.2        | 99.6, 99.6       |  |
| 160      | 4.698                     | 4.694 | 4.266 | 4.272 |  |  |  | 150-160     | 1.983       | 998.2        | 99.8, 99.8       |  |
| 170      | 4.905                     | 4.915 | 4.670 | 4.681 |  |  |  | 160-170     | 1.313       | 999.5        | 100, 100         |  |
| 180      | 4.932                     | 4.943 | 4.924 | 4.946 |  |  |  | 170-180     | 0.4639      | 1000         | 100, 100         |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |  |



| LUMINANCE cd/ (m2) |        |         |
|--------------------|--------|---------|
| G (DEG)            | C0/180 | C90/270 |
| 85                 | 3496   | 3457    |
| 80                 | 3273   | 3277    |
| 75                 | 3626   | 3618    |
| 70                 | 5489   | 5451    |
| 65                 | 8317   | 8330    |
| 60                 | 10986  | 10945   |
| 55                 | 12987  | 12901   |
| 50                 | 14366  | 14260   |
| 45                 | 19407  | 19319   |

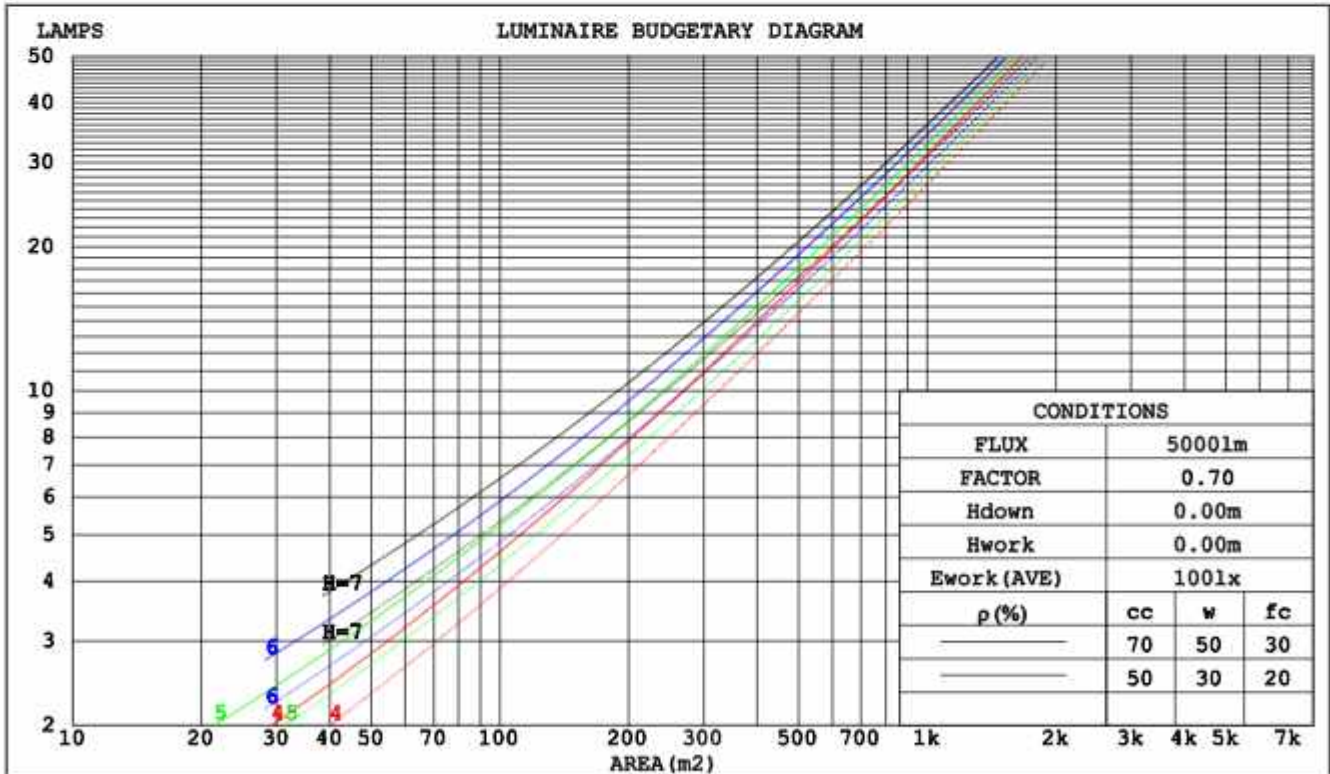
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| pw   | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98 |
| 1.0  | 1.06                            | 1.02 | .99  | 1.03 | .90  | .97  | .99  | .96  | .94  | .95  | .92  | .90  | .91  | .89  | .87  | .85 |
| 2.0  | .94                             | .88  | .83  | .92  | .86  | .81  | .88  | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73 |
| 3.0  | .83                             | .76  | .70  | .82  | .75  | .69  | .78  | .73  | .68  | .75  | .71  | .66  | .73  | .69  | .65  | .63 |
| 4.0  | .74                             | .66  | .60  | .73  | .65  | .60  | .70  | .64  | .59  | .68  | .62  | .58  | .65  | .61  | .57  | .55 |
| 5.0  | .67                             | .59  | .52  | .66  | .58  | .52  | .63  | .57  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .48 |
| 6.0  | .60                             | .52  | .46  | .59  | .52  | .46  | .57  | .50  | .45  | .56  | .49  | .45  | .54  | .48  | .44  | .42 |
| 7.0  | .55                             | .47  | .41  | .54  | .46  | .41  | .52  | .45  | .40  | .51  | .45  | .40  | .49  | .44  | .39  | .38 |
| 8.0  | .50                             | .42  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .40  | .36  | .45  | .40  | .36  | .34 |
| 9.0  | .46                             | .38  | .33  | .46  | .38  | .33  | .44  | .38  | .33  | .43  | .37  | .32  | .42  | .36  | .32  | .30 |
| 10.0 | .43                             | .35  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .39  | .33  | .29  | .28 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .265                  | .150 | .048 | .257 | .147 | .047 | .243                            | .139 | .044 | .230 | .133 | .043 | .218 | .126 | .041 |   |
| 2.0  | .256                  | .140 | .043 | .249 | .137 | .042 | .237                            | .132 | .041 | .225 | .126 | .040 | .215 | .121 | .038 |   |
| 3.0  | .242                  | .129 | .039 | .236 | .126 | .038 | .225                            | .122 | .037 | .215 | .118 | .036 | .205 | .114 | .035 |   |
| 4.0  | .227                  | .118 | .035 | .222 | .116 | .034 | .212                            | .112 | .034 | .203 | .109 | .033 | .194 | .106 | .032 |   |
| 5.0  | .212                  | .108 | .031 | .208 | .107 | .031 | .199                            | .104 | .031 | .191 | .101 | .030 | .183 | .098 | .029 |   |
| 6.0  | .199                  | .100 | .029 | .195 | .098 | .028 | .187                            | .096 | .028 | .180 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .187                  | .092 | .026 | .183 | .091 | .026 | .176                            | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 |   |
| 8.0  | .176                  | .086 | .024 | .172 | .085 | .024 | .166                            | .083 | .024 | .160 | .081 | .023 | .154 | .079 | .023 |   |
| 9.0  | .165                  | .080 | .022 | .162 | .079 | .022 | .157                            | .077 | .022 | .151 | .076 | .022 | .146 | .074 | .021 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .148                            | .073 | .020 | .143 | .071 | .020 | .139 | .070 | .020 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .206                  | .206 | .206 | .176 | .176 | .176 | .120                                       | .120 | .120 | .069 | .069 | .069 | .022 | .022 | .022 |   |
| 1.0  | .193                  | .173 | .154 | .165 | .148 | .133 | .113                                       | .102 | .092 | .065 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .148 | .119 | .157 | .128 | .103 | .108                                       | .088 | .071 | .062 | .051 | .042 | .020 | .017 | .014 |   |
| 3.0  | .175                  | .130 | .095 | .150 | .113 | .082 | .103                                       | .078 | .058 | .060 | .046 | .034 | .019 | .015 | .011 |   |
| 4.0  | .168                  | .117 | .078 | .144 | .101 | .068 | .099                                       | .070 | .048 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .161                  | .106 | .066 | .138 | .092 | .058 | .095                                       | .064 | .041 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0  | .154                  | .098 | .058 | .132 | .085 | .050 | .091                                       | .059 | .036 | .053 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .147                  | .091 | .051 | .127 | .079 | .045 | .088                                       | .055 | .032 | .051 | .033 | .019 | .016 | .011 | .006 |   |
| 8.0  | .141                  | .085 | .047 | .122 | .074 | .041 | .084                                       | .052 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0  | .136                  | .080 | .043 | .117 | .070 | .037 | .081                                       | .049 | .026 | .047 | .029 | .016 | .015 | .009 | .005 |   |
| 10.0 | .130                  | .076 | .040 | .112 | .066 | .035 | .078                                       | .046 | .025 | .045 | .027 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |        | TYPE:            |      |      |      |      | WEIGHT:           |      |      |      |      |
|--|--------|------------------|------|------|------|------|-------------------|------|------|------|------|
| DIM.:  |        | SPEC.:           |      |      |      |      | SERIAL No.:       |      |      |      |      |
| MFR.: HXD  |        | SUR.:            |      |      |      |      | PROTECTION ANGLE: |      |      |      |      |
| ceiling/cavity                                     |        | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7               | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  |        | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5               | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      |        | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2               | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    |        | Viewed crosswise |      |      |      |      | Viewed endwise    |      |      |      |      |
| x = 2H   | y = 2H | 16.0             | 17.4 | 16.3 | 17.7 | 17.9 | 16.0              | 17.4 | 16.3 | 17.6 | 17.9 |
|  | 3H     | 16.5             | 17.8 | 16.8 | 18.0 | 18.3 | 16.5              | 17.8 | 16.8 | 18.0 | 18.3 |
|  | 4H     | 16.5             | 17.7 | 16.9 | 18.0 | 18.3 | 16.5              | 17.7 | 16.9 | 18.0 | 18.3 |
|  | 6H     | 16.5             | 17.7 | 16.9 | 18.0 | 18.3 | 16.5              | 17.6 | 16.9 | 17.9 | 18.3 |
|  | 8H     | 16.5             | 17.6 | 16.9 | 17.9 | 18.3 | 16.5              | 17.6 | 16.9 | 17.9 | 18.2 |
|  | 12H    | 16.5             | 17.6 | 16.9 | 17.9 | 18.2 | 16.5              | 17.5 | 16.9 | 17.9 | 18.2 |
| 4H   | 2H     | 16.3             | 17.5 | 16.7 | 17.8 | 18.1 | 16.3              | 17.5 | 16.6 | 17.8 | 18.1 |
|  | 3H     | 16.9             | 17.9 | 17.2 | 18.2 | 18.6 | 16.8              | 17.9 | 17.2 | 18.2 | 18.5 |
|  | 4H     | 16.9             | 17.9 | 17.3 | 18.2 | 18.6 | 16.9              | 17.9 | 17.3 | 18.2 | 18.6 |
|  | 6H     | 17.0             | 17.8 | 17.4 | 18.2 | 18.6 | 17.0              | 17.8 | 17.4 | 18.2 | 18.6 |
|  | 8H     | 17.0             | 17.8 | 17.5 | 18.2 | 18.6 | 17.0              | 17.8 | 17.5 | 18.2 | 18.6 |
|  | 12H    | 17.0             | 17.7 | 17.5 | 18.2 | 18.6 | 17.0              | 17.7 | 17.5 | 18.1 | 18.6 |
| 8H   | 4H     | 16.9             | 17.7 | 17.4 | 18.1 | 18.5 | 16.9              | 17.7 | 17.3 | 18.1 | 18.5 |
|  | 6H     | 17.0             | 17.7 | 17.5 | 18.1 | 18.6 | 17.0              | 17.6 | 17.5 | 18.1 | 18.5 |
|  | 8H     | 17.1             | 17.6 | 17.6 | 18.1 | 18.6 | 17.1              | 17.6 | 17.6 | 18.1 | 18.6 |
|  | 12H    | 17.2             | 17.6 | 17.7 | 18.1 | 18.6 | 17.1              | 17.6 | 17.7 | 18.1 | 18.6 |
| 12H  | 4H     | 16.9             | 17.6 | 17.3 | 18.0 | 18.4 | 16.9              | 17.6 | 17.3 | 18.0 | 18.4 |
|  | 6H     | 17.0             | 17.6 | 17.5 | 18.0 | 18.5 | 17.0              | 17.6 | 17.5 | 18.0 | 18.5 |
|  | 8H     | 17.1             | 17.6 | 17.6 | 18.1 | 18.6 | 17.1              | 17.6 | 17.6 | 18.0 | 18.6 |
| Variations with the observer position at spacings: |        |                  |      |      |      |      |                   |      |      |      |      |
| S = 1.0H   |        | + 0.4 / - 0.5    |      |      |      |      | + 0.4 / - 0.5     |      |      |      |      |
| 1.5H   |        | + 0.3 / - 0.6    |      |      |      |      | + 0.3 / - 0.6     |      |      |      |      |
| 2.0H   |        | + 0.8 / - 1.0    |      |      |      |      | + 0.8 / - 1.0     |      |      |      |      |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

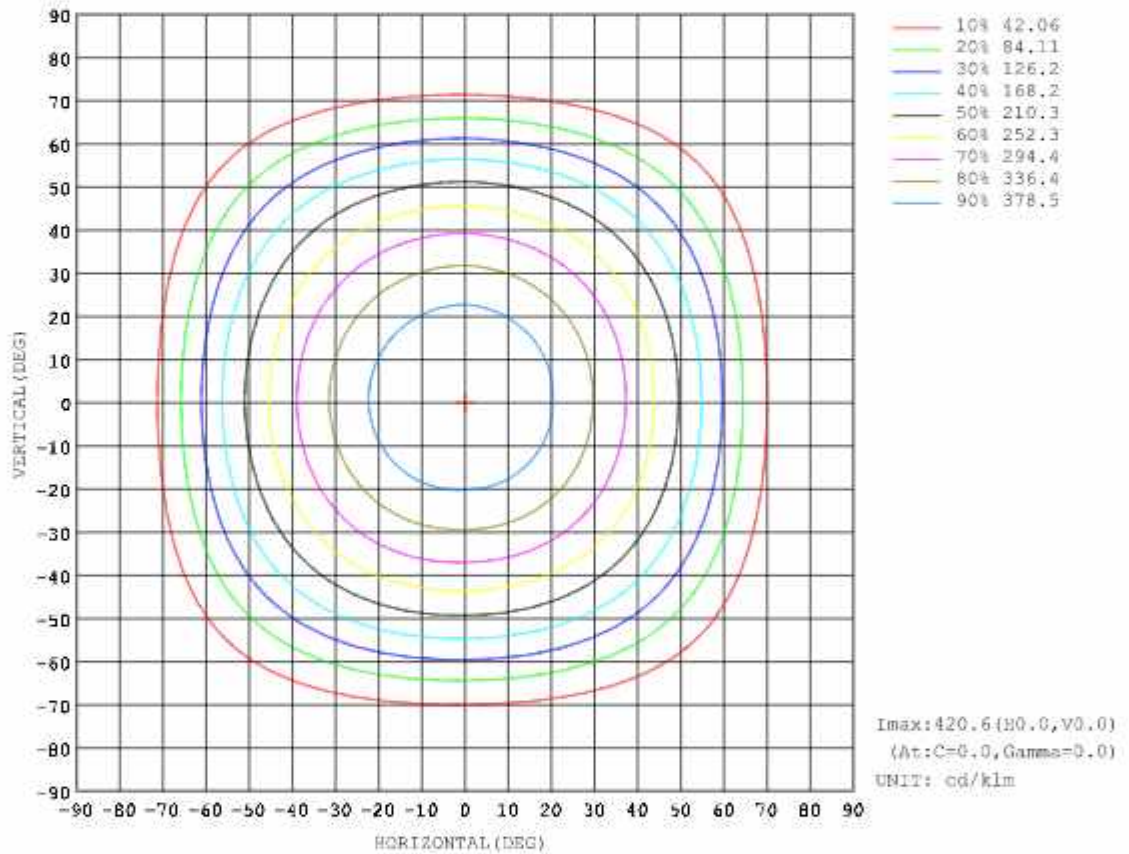
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 61  | 50  | 44        | 60  | 50  | 43  | 59            | 49  | 43  | 37     |
| 0.80                             | 71  | 61  | 54        | 70  | 60  | 54  | 68            | 59  | 53  | 47     |
| 1.00                             | 80  | 70  | 63        | 79  | 69  | 63  | 76            | 70  | 62  | 56     |
| 1.25                             | 87  | 78  | 71        | 85  | 77  | 71  | 83            | 75  | 70  | 63     |
| 1.50                             | 92  | 83  | 77        | 90  | 82  | 76  | 87            | 80  | 75  | 68     |
| 2.00                             | 98  | 90  | 85        | 96  | 89  | 84  | 92            | 87  | 82  | 75     |
| 2.50                             | 101   | 95  | 89        | 99  | 93  | 88  | 95            | 90  | 86  | 78     |
| 3.00                             | 104   | 98  | 94        | 102 | 97  | 92  | 98            | 94  | 90  | 81     |
| 4.00                             | 108   | 103 | 99        | 105 | 101 | 97  | 101           | 97  | 94  | 85     |
| 5.00                             | 110   | 106 | 102       | 107 | 103 | 100 | 102           | 100 | 97  | 87     |
| ROOM INDEX                       | UF(total)                                     |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



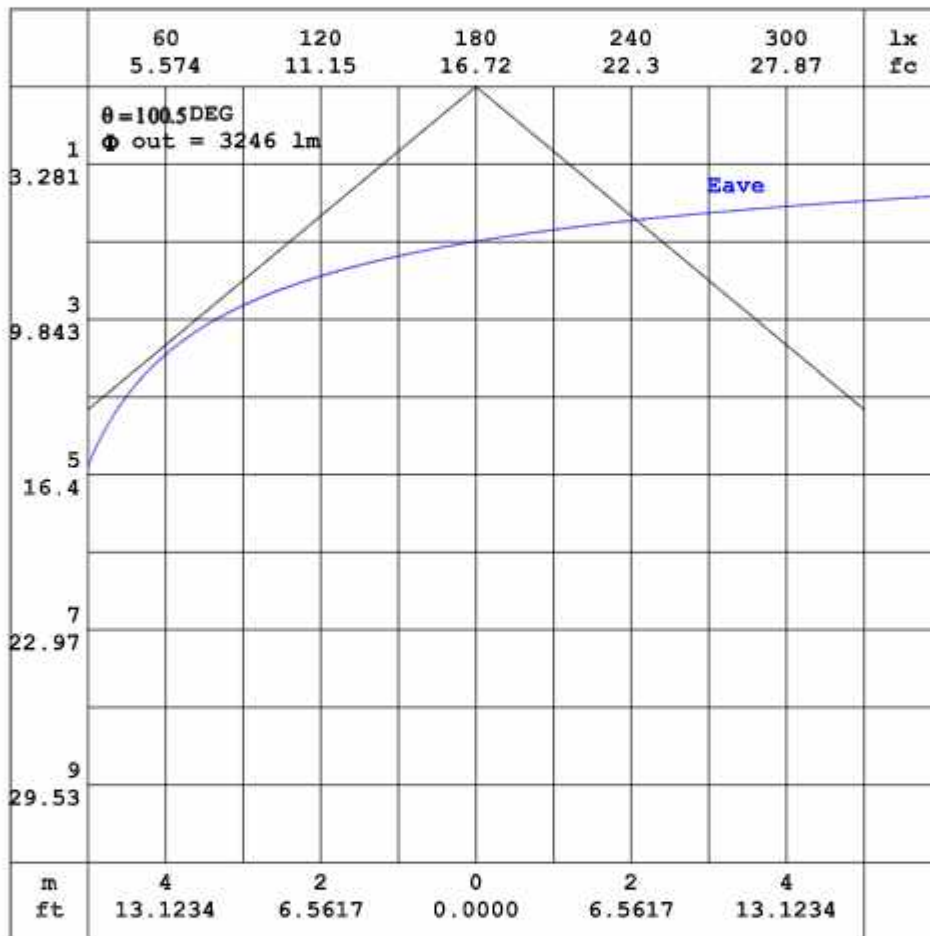
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



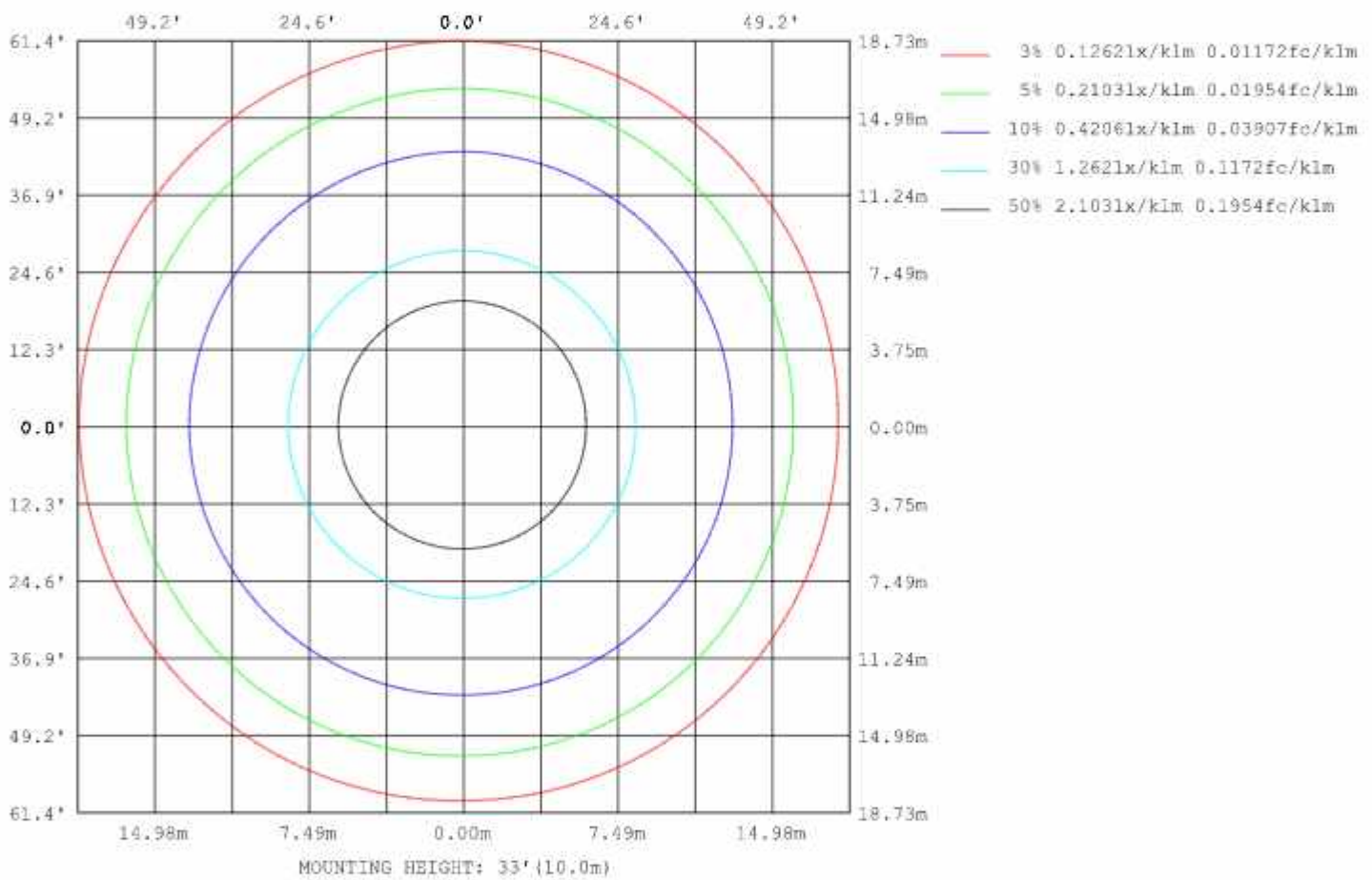
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

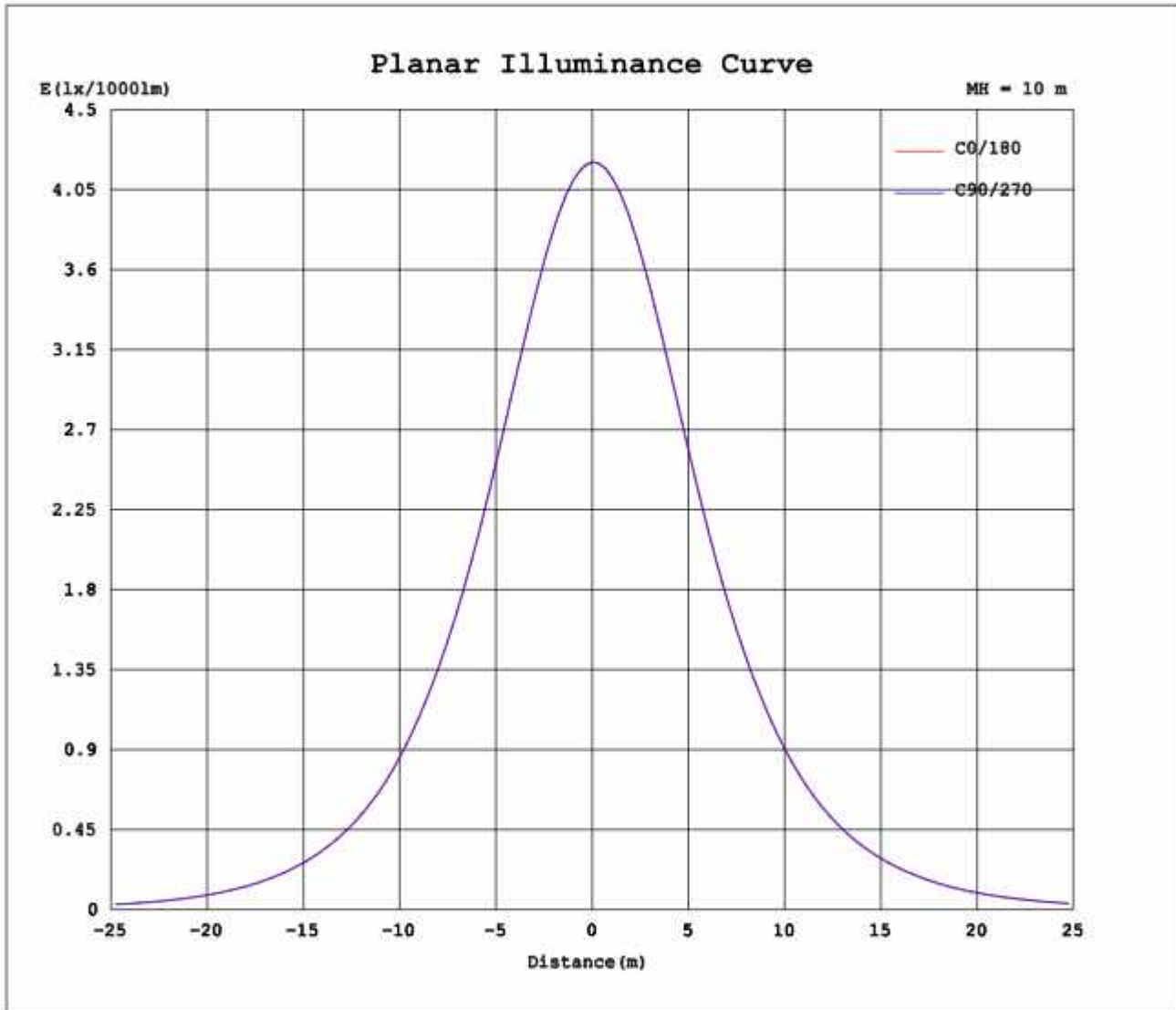
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 421  | 420  | 421  | 420  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 417  | 417  | 419  | 419  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 409  | 409  | 413  | 414  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 396  | 396  | 403  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 380  | 379  | 387  | 389  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 359  | 358  | 368  | 369  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 334  | 333  | 344  | 346  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 307  | 306  | 317  | 319  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 277  | 276  | 288  | 290  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 243  | 242  | 255  | 257  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 206  | 205  | 218  | 220  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 166  | 165  | 179  | 181  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 123  | 122  | 136  | 138  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 78.4 | 78.6 | 91.2 | 92.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 41.9 | 41.6 | 50.6 | 51.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 20.9 | 20.9 | 23.6 | 24.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 12.7 | 12.7 | 12.5 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.78 | 6.72 | 6.61 | 6.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.69 | 3.69 | 1.85 | 1.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.70 | 3.71 | 1.51 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.72 | 3.73 | 1.70 | 1.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.75 | 3.75 | 1.90 | 1.89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.79 | 3.79 | 2.12 | 2.11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.83 | 3.84 | 2.34 | 2.33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 3.89 | 3.89 | 2.56 | 2.54 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 3.96 | 3.95 | 2.78 | 2.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 4.02 | 4.01 | 2.99 | 2.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 4.10 | 4.08 | 3.19 | 3.16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.19 | 4.18 | 3.39 | 3.37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.30 | 4.28 | 3.60 | 3.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.42 | 4.41 | 3.81 | 3.80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.56 | 4.55 | 4.04 | 4.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.70 | 4.69 | 4.27 | 4.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 4.82 | 4.82 | 4.48 | 4.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 4.90 | 4.92 | 4.67 | 4.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 4.95 | 4.96 | 4.83 | 4.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 4.93 | 4.94 | 4.92 | 4.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

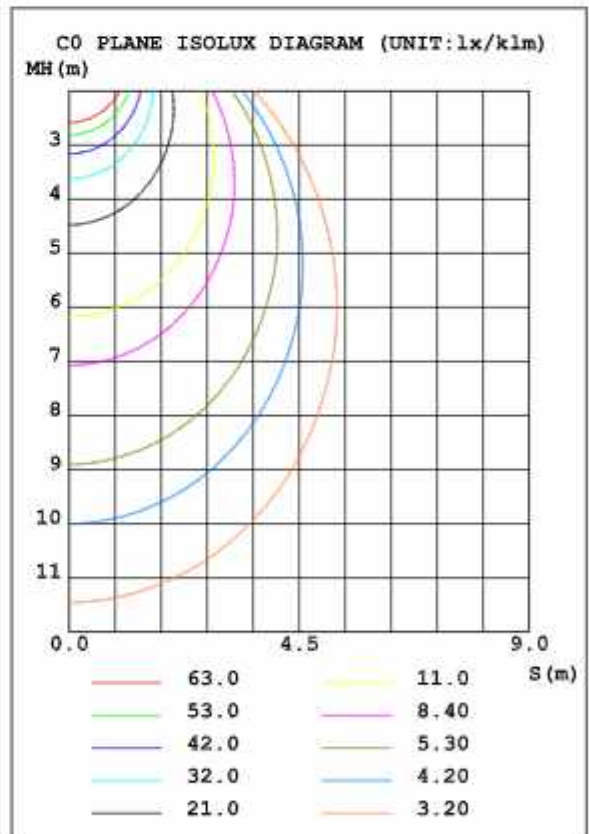
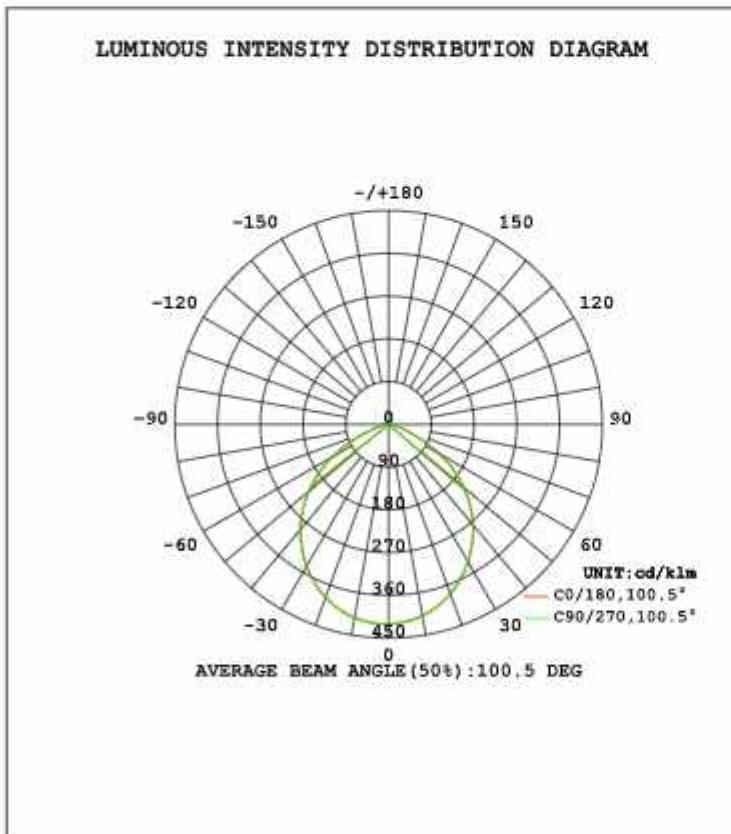
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

y Range: 0 - 180DEG  
 y Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |        |                          |           |
|-------------------|--------------|---------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 420.6  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 38           | LOR (%)             | 100.0  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1000.0 | $\eta$ UP, DN (C0-180)   | 1.3, 47.6 |
| NOMINAL FLUX (lm) | 4503.47      | CIE CLASS           | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 50.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.1    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 97.9   | CIBSE SHR MAX            | 1.35      |



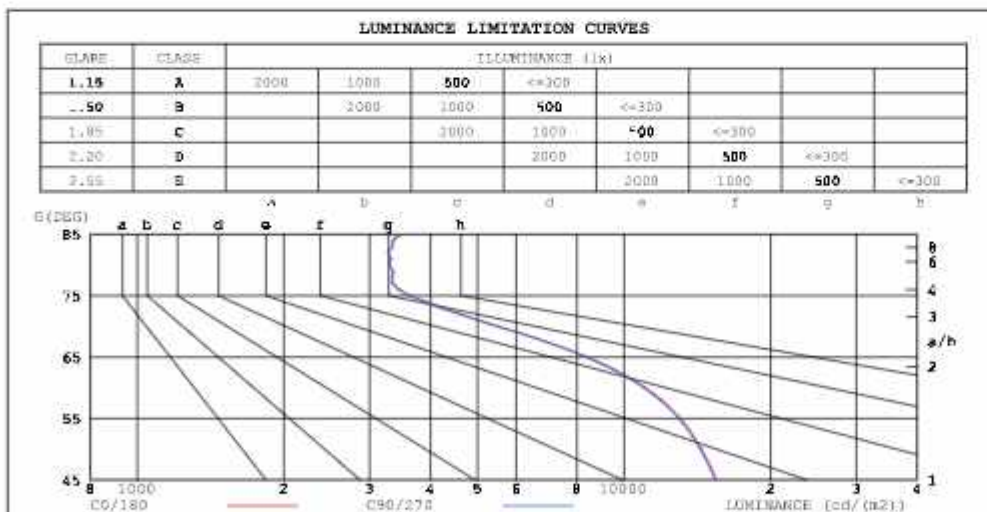
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                        | C90   | C180  | C270  |  |  |  | γ           | Φ zone | Φ total | Φlum, lamp |  |
|-----|---------------------------|-------|-------|-------|--|--|--|-------------|--------|---------|------------|--|
| 10  | 409.1                     | 408.6 | 413.2 | 413.4 |  |  |  | 0- 10       | 39.69  | 39.69   | 3.97, 3.97 |  |
| 20  | 379.8                     | 379.0 | 387.7 | 388.4 |  |  |  | 10- 20      | 112.7  | 152.4   | 15.2, 15.2 |  |
| 30  | 334.5                     | 333.1 | 344.2 | 345.8 |  |  |  | 20- 30      | 167.3  | 319.7   | 32, 32     |  |
| 40  | 277.4                     | 276.0 | 288.7 | 290.3 |  |  |  | 30- 40      | 195.3  | 515.0   | 51.5, 51.5 |  |
| 50  | 206.0                     | 204.3 | 218.5 | 219.8 |  |  |  | 40- 50      | 191.8  | 706.7   | 70.7, 70.7 |  |
| 60  | 122.7                     | 121.9 | 136.0 | 137.6 |  |  |  | 50- 60      | 153.6  | 860.4   | 86, 86     |  |
| 70  | 41.89                     | 41.54 | 50.76 | 51.62 |  |  |  | 60- 70      | 85.03  | 945.4   | 94.5, 94.5 |  |
| 80  | 12.66                     | 12.66 | 12.49 | 12.48 |  |  |  | 70- 80      | 26.20  | 971.6   | 97.2, 97.2 |  |
| 90  | 3.675                     | 3.669 | 1.837 | 1.763 |  |  |  | 80- 90      | 7.524  | 979.1   | 97.9, 97.9 |  |
| 100 | 3.719                     | 3.713 | 1.687 | 1.672 |  |  |  | 90-100      | 2.847  | 982.0   | 98.2, 98.2 |  |
| 110 | 3.783                     | 3.775 | 2.108 | 2.088 |  |  |  | 100-110     | 2.976  | 984.9   | 98.5, 98.5 |  |
| 120 | 3.881                     | 3.878 | 2.551 | 2.528 |  |  |  | 110-120     | 3.047  | 988.0   | 98.8, 98.8 |  |
| 130 | 4.015                     | 3.998 | 2.978 | 2.946 |  |  |  | 120-130     | 3.001  | 991.0   | 99.1, 99.1 |  |
| 140 | 4.184                     | 4.161 | 3.379 | 3.348 |  |  |  | 130-140     | 2.803  | 993.8   | 99.4, 99.4 |  |
| 150 | 4.415                     | 4.392 | 3.804 | 3.786 |  |  |  | 140-150     | 2.464  | 996.3   | 99.6, 99.6 |  |
| 160 | 4.687                     | 4.679 | 4.256 | 4.254 |  |  |  | 150-160     | 1.978  | 998.2   | 99.8, 99.8 |  |
| 170 | 4.890                     | 4.901 | 4.665 | 4.664 |  |  |  | 160-170     | 1.309  | 999.5   | 100, 100   |  |
| 180 | 4.916                     | 4.929 | 4.914 | 4.929 |  |  |  | 170-180     | 0.4626 | 1000    | 100, 100   |  |
| DEG | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |        |         |            |  |



| LUMINANCE cd/ (m²) |        |         |
|--------------------|--------|---------|
| θ (DEG)            | C0/180 | C90/270 |
| 85                 | 3498   | 3445    |
| 80                 | 3282   | 3284    |
| 75                 | 3633   | 3625    |
| 70                 | 5516   | 5470    |
| 65                 | 8397   | 8354    |
| 60                 | 11055  | 10976   |
| 55                 | 13047  | 12946   |
| 50                 | 14432  | 14311   |
| 45                 | 15450  | 15384   |

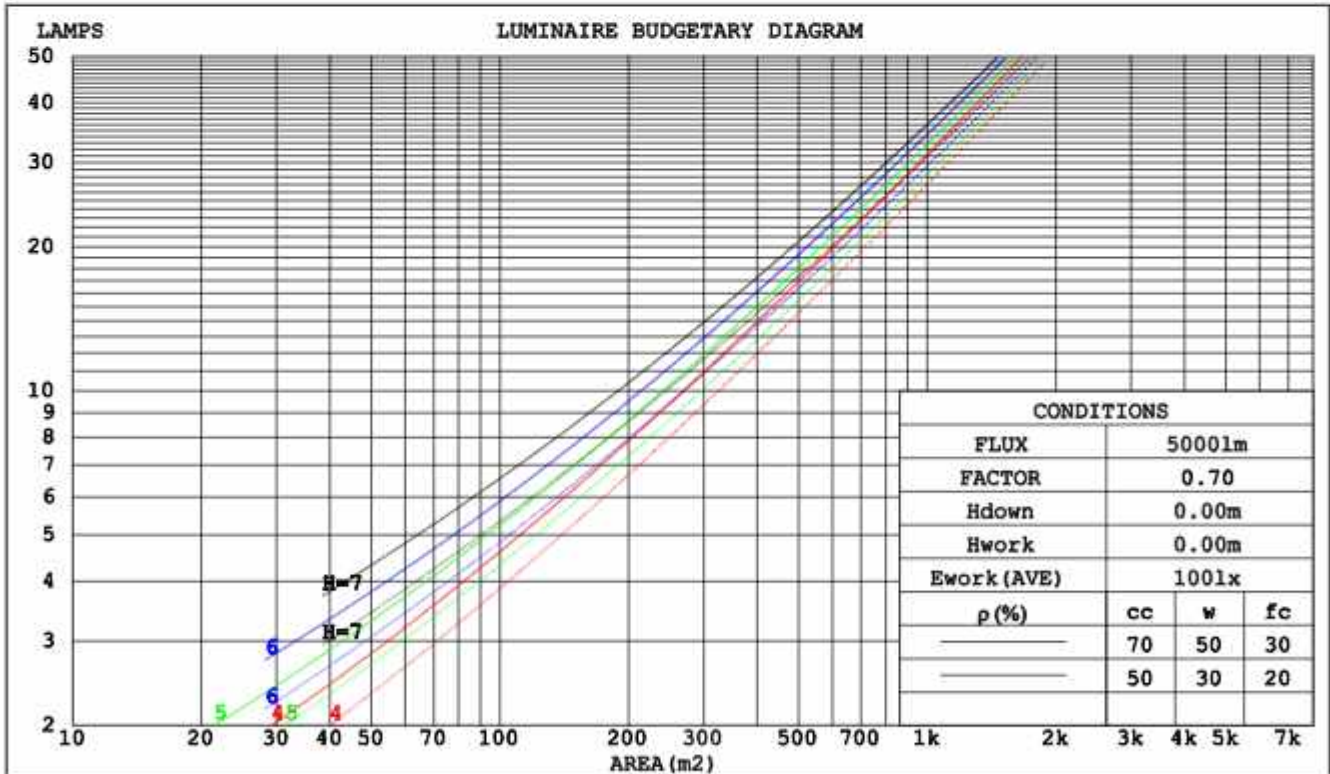
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Coefficients of Utilization(CU) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | 1.06                  | 1.02 | .99  | 1.03 | .90  | .97  | .99  | .96  | .94  | .95  | .92  | .90  | .91  | .89  | .87  | .85                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.0  | .94                   | .88  | .83  | .92  | .86  | .81  | .88  | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.0  | .83                   | .76  | .70  | .82  | .75  | .69  | .78  | .73  | .68  | .75  | .71  | .66  | .73  | .69  | .65  | .63                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.0  | .74                   | .66  | .60  | .73  | .65  | .60  | .70  | .64  | .59  | .68  | .62  | .58  | .65  | .61  | .57  | .55                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.0  | .67                   | .59  | .52  | .66  | .58  | .52  | .63  | .57  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .48                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.0  | .60                   | .52  | .46  | .59  | .52  | .46  | .57  | .50  | .45  | .56  | .49  | .45  | .54  | .48  | .44  | .42                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.0  | .55                   | .47  | .41  | .54  | .46  | .41  | .52  | .45  | .40  | .51  | .45  | .40  | .49  | .44  | .39  | .38                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.0  | .50                   | .42  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .40  | .36  | .45  | .40  | .36  | .34                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.0  | .46                   | .38  | .33  | .46  | .38  | .33  | .44  | .38  | .33  | .43  | .37  | .32  | .42  | .36  | .32  | .30                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.0 | .43                   | .35  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .39  | .33  | .29  | .28                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .265                  | .150 | .048 | .257 | .147 | .047 | .243                            | .139 | .044 | .230 | .133 | .043 | .218 | .126 | .041 |   |
| 2.0  | .256                  | .140 | .043 | .249 | .137 | .042 | .237                            | .132 | .041 | .225 | .126 | .040 | .215 | .121 | .038 |   |
| 3.0  | .242                  | .129 | .039 | .236 | .126 | .038 | .225                            | .122 | .037 | .215 | .118 | .036 | .205 | .114 | .035 |   |
| 4.0  | .227                  | .118 | .035 | .222 | .116 | .034 | .212                            | .112 | .034 | .203 | .109 | .033 | .194 | .106 | .032 |   |
| 5.0  | .212                  | .108 | .031 | .208 | .107 | .031 | .199                            | .104 | .031 | .191 | .101 | .030 | .183 | .098 | .029 |   |
| 6.0  | .199                  | .100 | .029 | .195 | .098 | .028 | .187                            | .096 | .028 | .180 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .187                  | .092 | .026 | .183 | .091 | .026 | .176                            | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 |   |
| 8.0  | .176                  | .086 | .024 | .172 | .085 | .024 | .166                            | .083 | .024 | .160 | .081 | .023 | .154 | .079 | .023 |   |
| 9.0  | .165                  | .080 | .022 | .162 | .079 | .022 | .157                            | .077 | .022 | .151 | .076 | .022 | .146 | .074 | .021 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .148                            | .073 | .020 | .143 | .071 | .020 | .139 | .070 | .020 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .206                  | .206 | .206 | .176 | .176 | .176 | .120                                       | .120 | .120 | .069 | .069 | .069 | .022 | .022 | .022 |   |
| 1.0  | .193                  | .173 | .154 | .165 | .148 | .133 | .113                                       | .102 | .092 | .065 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .148 | .119 | .157 | .128 | .102 | .108                                       | .088 | .071 | .062 | .051 | .042 | .020 | .017 | .014 |   |
| 3.0  | .175                  | .130 | .095 | .150 | .112 | .082 | .103                                       | .078 | .057 | .060 | .046 | .034 | .019 | .015 | .011 |   |
| 4.0  | .168                  | .117 | .078 | .144 | .101 | .068 | .099                                       | .070 | .048 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .160                  | .106 | .066 | .138 | .092 | .058 | .095                                       | .064 | .041 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0  | .154                  | .098 | .058 | .132 | .085 | .050 | .091                                       | .059 | .036 | .053 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .147                  | .091 | .051 | .127 | .079 | .045 | .088                                       | .055 | .032 | .051 | .033 | .019 | .016 | .011 | .006 |   |
| 8.0  | .141                  | .085 | .046 | .122 | .074 | .041 | .084                                       | .052 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0  | .136                  | .080 | .043 | .117 | .070 | .037 | .081                                       | .049 | .026 | .047 | .029 | .016 | .015 | .009 | .005 |   |
| 10.0 | .130                  | .076 | .040 | .112 | .066 | .035 | .078                                       | .046 | .025 | .045 | .027 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:



## Uncorrected UGR Table

| NAME: 10寸商照筒灯                                      |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 16.0             | 17.4   | 16.3 | 17.7 | 17.9 | 16.0           | 17.4              | 16.3 | 17.6 | 17.9 |  |
| 3H   | 16.5             | 17.8   | 16.8 | 18.0 | 18.3 | 16.5           | 17.7              | 16.8 | 18.0 | 18.3 |  |
| 4H   | 16.5             | 17.7   | 16.9 | 18.0 | 18.3 | 16.5           | 17.7              | 16.9 | 18.0 | 18.3 |  |
| 6H   | 16.5             | 17.7   | 16.9 | 18.0 | 18.3 | 16.5           | 17.6              | 16.9 | 17.9 | 18.3 |  |
| 8H   | 16.5             | 17.6   | 16.9 | 17.9 | 18.3 | 16.5           | 17.6              | 16.9 | 17.9 | 18.2 |  |
| 12H  | 16.5             | 17.6   | 16.9 | 17.9 | 18.2 | 16.5           | 17.5              | 16.9 | 17.9 | 18.2 |  |
| 4H 2H  | 16.3             | 17.5   | 16.7 | 17.8 | 18.1 | 16.3           | 17.5              | 16.6 | 17.8 | 18.1 |  |
| 3H   | 16.9             | 17.9   | 17.2 | 18.2 | 18.6 | 16.8           | 17.9              | 17.2 | 18.2 | 18.5 |  |
| 4H   | 16.9             | 17.9   | 17.3 | 18.2 | 18.6 | 16.9           | 17.9              | 17.3 | 18.2 | 18.6 |  |
| 6H   | 17.0             | 17.8   | 17.4 | 18.2 | 18.6 | 17.0           | 17.8              | 17.4 | 18.2 | 18.6 |  |
| 8H   | 17.0             | 17.8   | 17.5 | 18.2 | 18.6 | 17.0           | 17.8              | 17.4 | 18.2 | 18.6 |  |
| 12H  | 17.0             | 17.7   | 17.5 | 18.2 | 18.6 | 17.0           | 17.7              | 17.5 | 18.1 | 18.6 |  |
| 8H 4H  | 16.9             | 17.7   | 17.4 | 18.1 | 18.5 | 16.9           | 17.7              | 17.3 | 18.1 | 18.5 |  |
| 6H   | 17.0             | 17.7   | 17.5 | 18.1 | 18.6 | 17.0           | 17.6              | 17.5 | 18.1 | 18.5 |  |
| 8H   | 17.1             | 17.6   | 17.6 | 18.1 | 18.6 | 17.1           | 17.6              | 17.6 | 18.1 | 18.6 |  |
| 12H  | 17.2             | 17.6   | 17.7 | 18.1 | 18.6 | 17.1           | 17.6              | 17.6 | 18.1 | 18.6 |  |
| 12H 4H   | 16.9             | 17.6   | 17.3 | 18.0 | 18.4 | 16.9           | 17.6              | 17.3 | 18.0 | 18.4 |  |
| 6H   | 17.0             | 17.6   | 17.5 | 18.0 | 18.5 | 17.0           | 17.5              | 17.5 | 18.0 | 18.5 |  |
| 8H   | 17.1             | 17.6   | 17.6 | 18.1 | 18.6 | 17.1           | 17.5              | 17.6 | 18.0 | 18.5 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.5    |        |      |      |      | + 0.3 / - 0.6  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 1.0  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

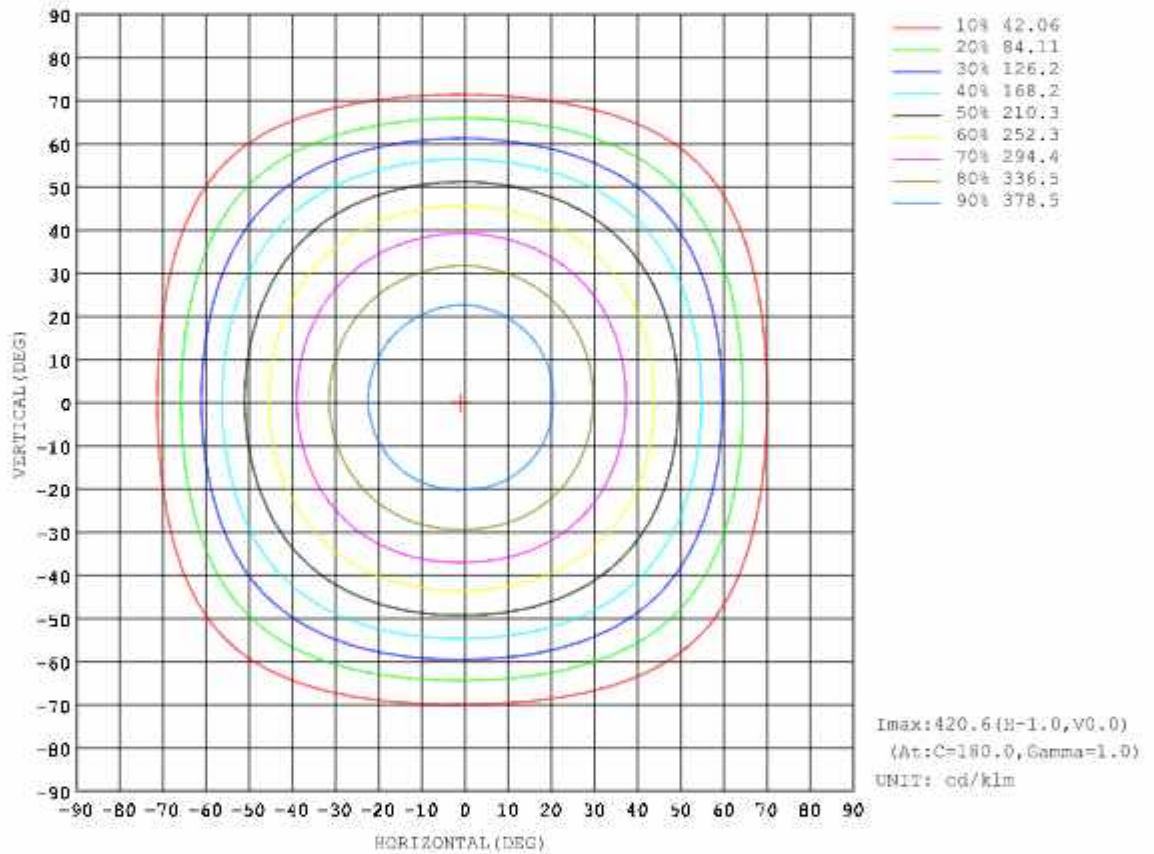
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| $k = 0.60$                       | 61   | 50  | 44        | 60  | 50  | 43  | 59            | 49  | 43  | 37     |
| 0.80                             | 71   | 61  | 54        | 70  | 60  | 54  | 68            | 59  | 53  | 47     |
| 1.00                             | 80   | 70  | 63        | 79  | 69  | 63  | 76            | 70  | 62  | 56     |
| 1.25                             | 87   | 78  | 71        | 85  | 77  | 71  | 83            | 75  | 70  | 63     |
| 1.50                             | 92   | 83  | 77        | 90  | 82  | 76  | 87            | 80  | 75  | 68     |
| 2.00                             | 98   | 90  | 85        | 96  | 89  | 84  | 93            | 87  | 82  | 75     |
| 2.50                             | 101  | 95  | 89        | 99  | 93  | 88  | 95            | 90  | 86  | 78     |
| 3.00                             | 104  | 98  | 94        | 102 | 97  | 92  | 98            | 94  | 90  | 81     |
| 4.00                             | 108  | 103 | 99        | 105 | 101 | 97  | 101           | 97  | 94  | 85     |
| 5.00                             | 110  | 106 | 102       | 107 | 103 | 100 | 102           | 100 | 97  | 88     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

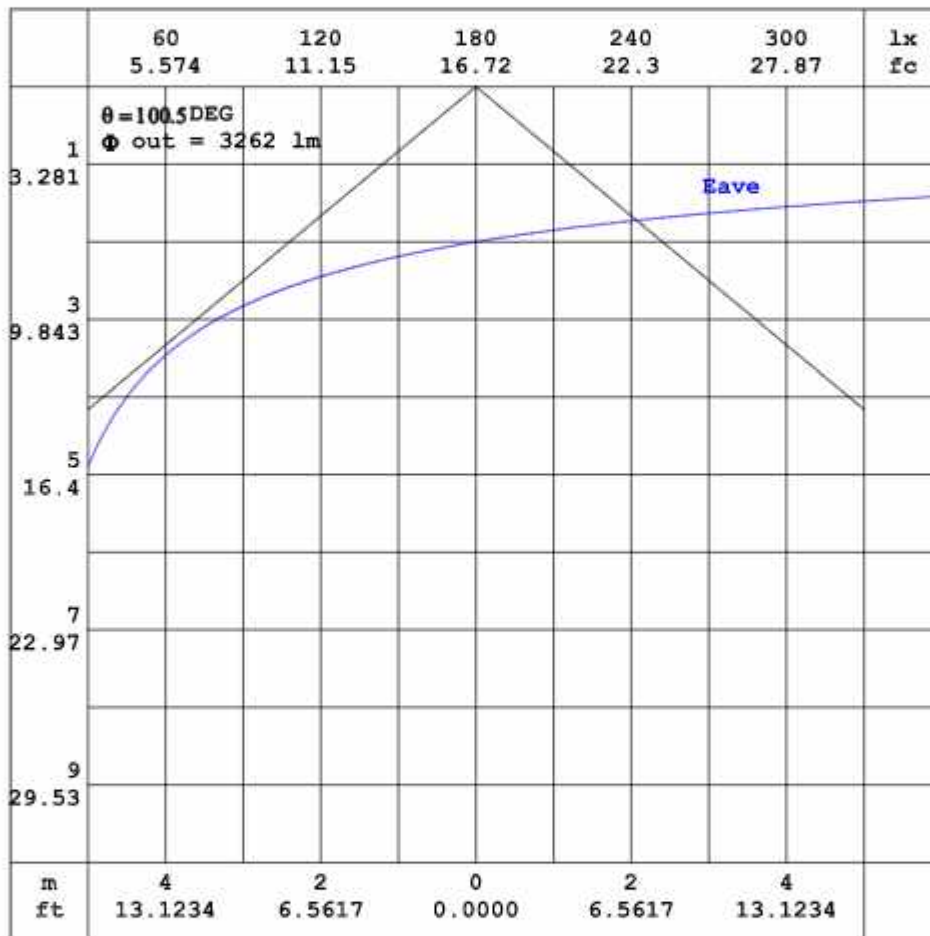


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



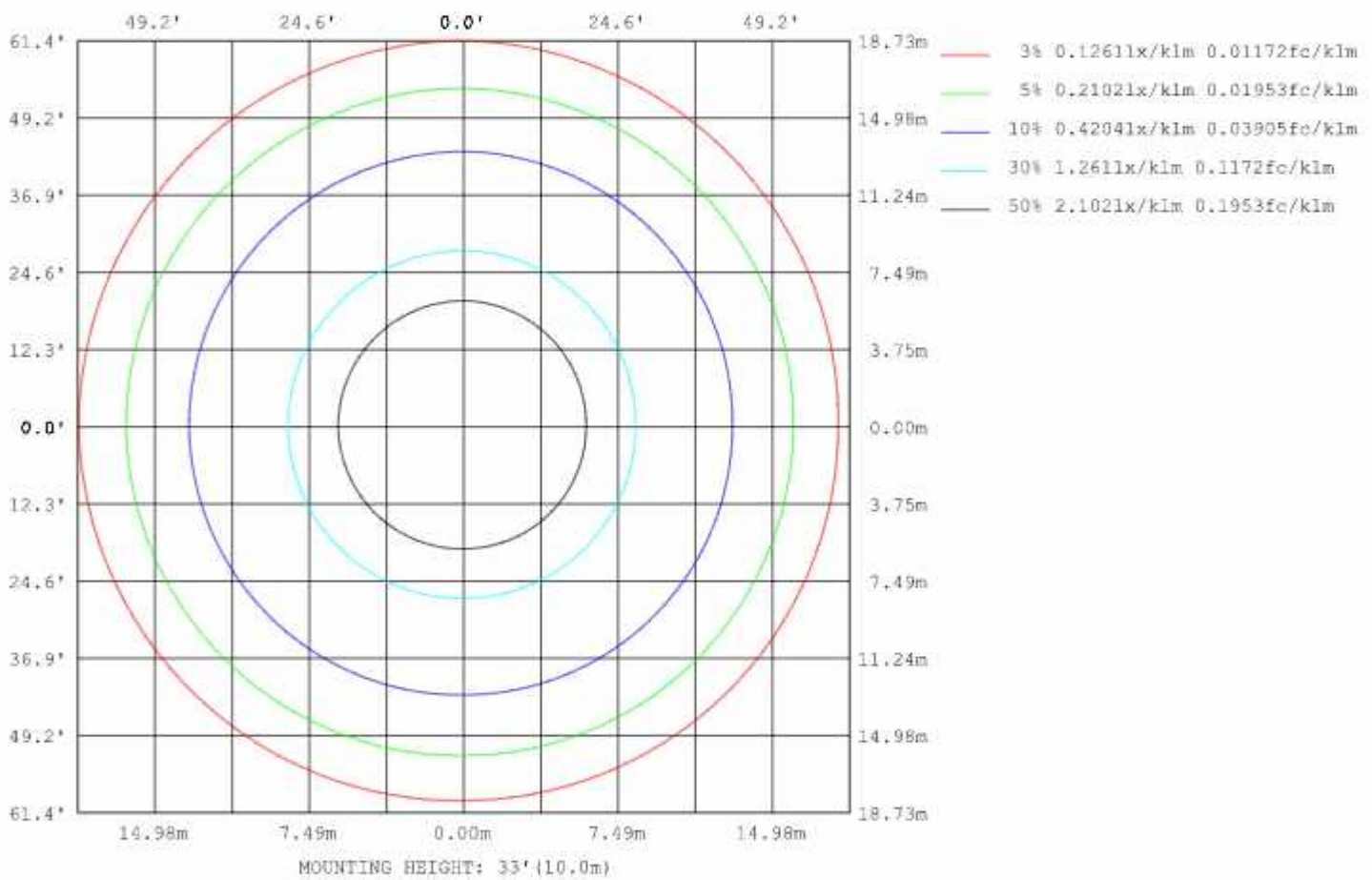
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

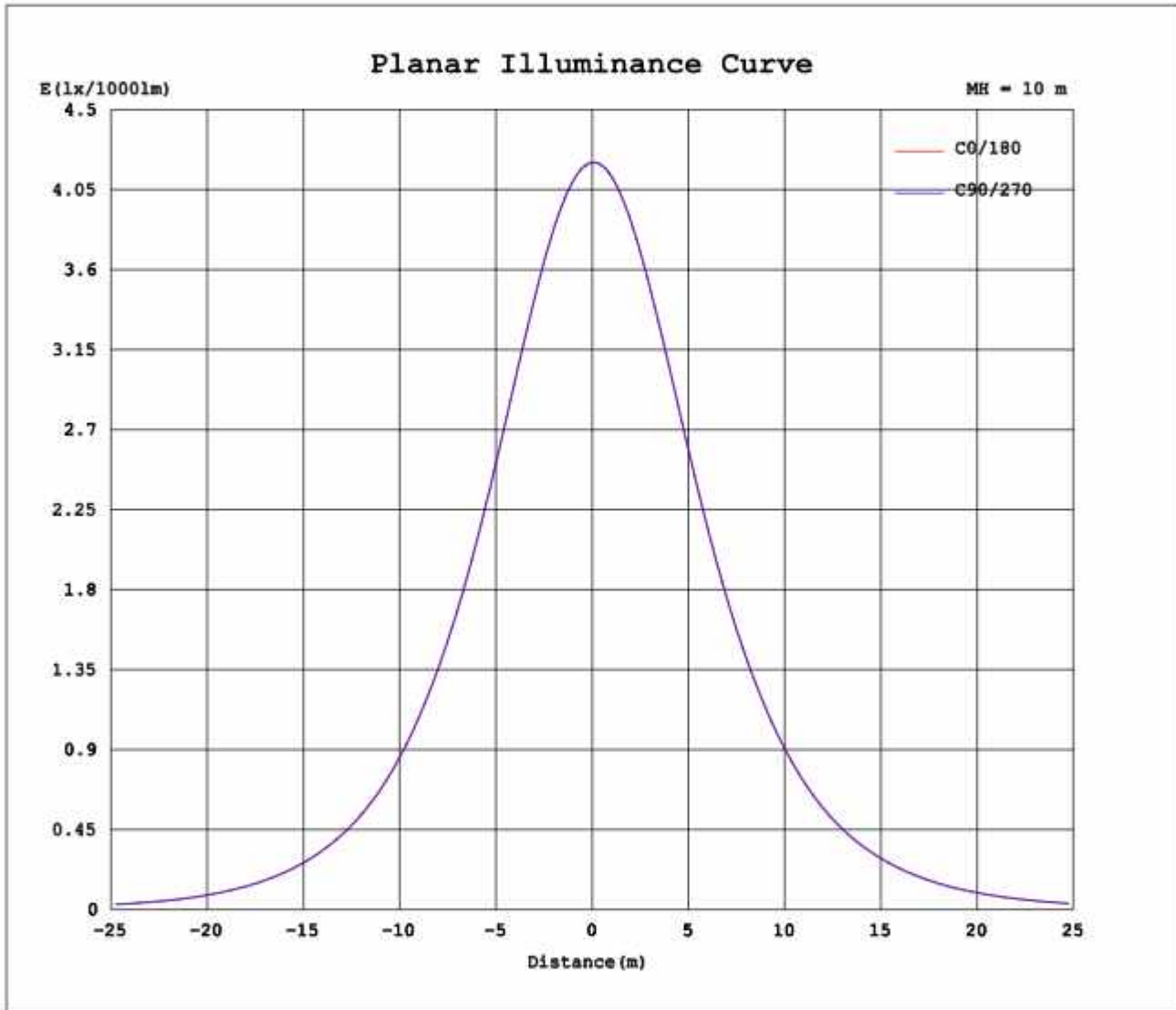
|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 420  | 420  | 420  | 420  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 417  | 417  | 419  | 419  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 409  | 409  | 413  | 413  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 397  | 396  | 403  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 380  | 379  | 388  | 388  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 359  | 358  | 368  | 369  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 335  | 333  | 344  | 346  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 307  | 306  | 318  | 319  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 277  | 276  | 289  | 290  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 243  | 242  | 255  | 257  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 206  | 204  | 219  | 220  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 166  | 165  | 179  | 181  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 123  | 122  | 136  | 138  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 78.8 | 78.4 | 91.3 | 92.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 41.9 | 41.3 | 50.8 | 51.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 20.9 | 20.8 | 23.7 | 24.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 12.7 | 12.7 | 12.5 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 6.75 | 6.67 | 6.62 | 6.52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 3.67 | 3.67 | 1.84 | 1.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 3.69 | 3.69 | 1.50 | 1.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 3.72 | 3.71 | 1.69 | 1.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 3.75 | 3.74 | 1.89 | 1.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 3.78 | 3.77 | 2.11 | 2.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 3.82 | 3.82 | 2.33 | 2.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 3.88 | 3.88 | 2.55 | 2.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 3.95 | 3.94 | 2.77 | 2.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 4.02 | 4.00 | 2.98 | 2.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 4.09 | 4.07 | 3.18 | 3.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 4.18 | 4.16 | 3.38 | 3.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 4.29 | 4.27 | 3.59 | 3.56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 4.41 | 4.39 | 3.80 | 3.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 4.55 | 4.53 | 4.03 | 4.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 4.69 | 4.68 | 4.26 | 4.25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 4.81 | 4.81 | 4.47 | 4.47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 4.89 | 4.90 | 4.66 | 4.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 4.94 | 4.94 | 4.81 | 4.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 4.92 | 4.93 | 4.91 | 4.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

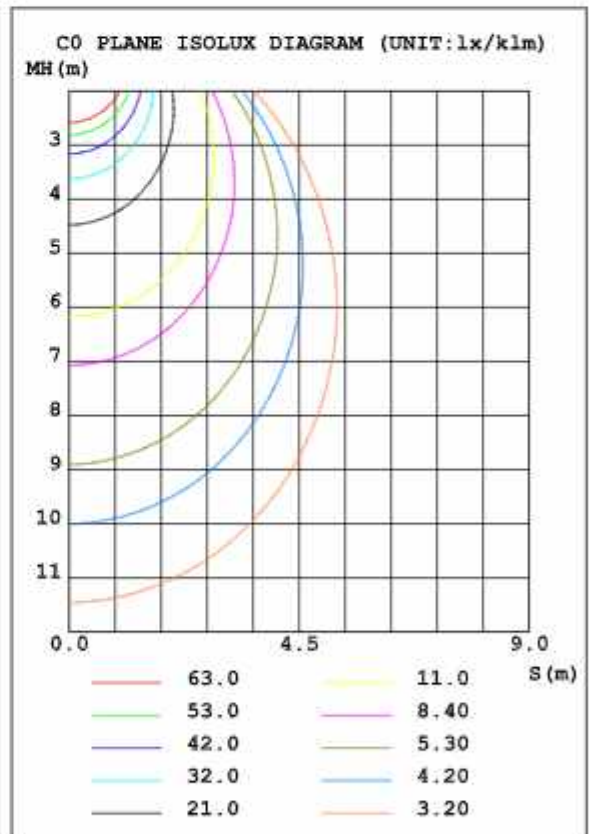
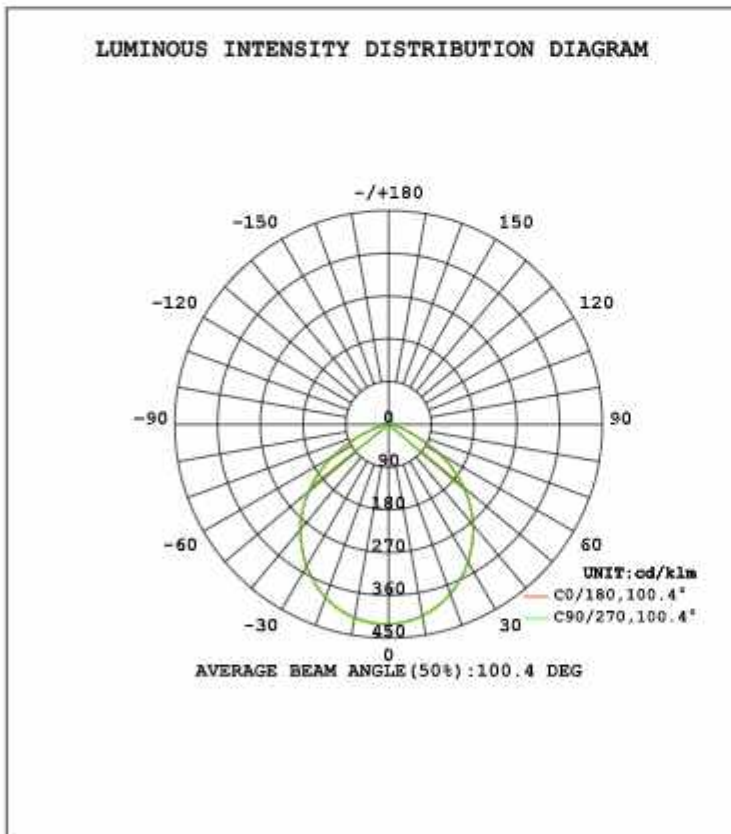
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA Eff: 135.37 lm/W |        |                          |           |
|-------------------|--------------|-----------------------------------|--------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)                     | 420.9  | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 34           | LOR (%)                           | 100.0  | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm)               | 1000.4 | $\eta$ UP, DN (C0-180)   | 1.3, 47.7 |
| NOMINAL FLUX (lm) | 4668.26      | CIE CLASS                         | DIRECT | $\eta$ UP, DN (C180-360) | 0.8, 50.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)                     | 2.1    | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)                   | 98.0   | CIBSE SHR MAX            | 1.35      |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

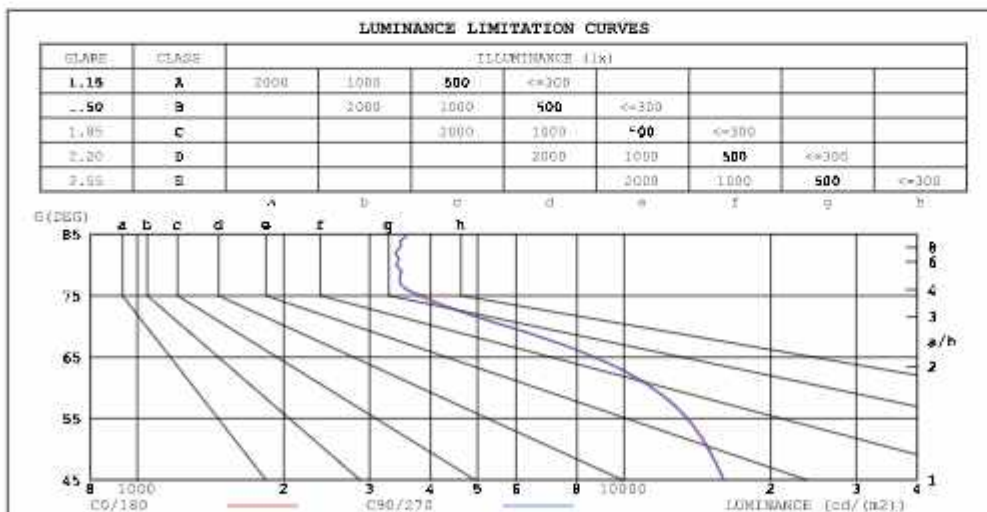
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                        | C90   | C180  | C270  |  |  |  | $\gamma$    | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |  |
|----------|---------------------------|-------|-------|-------|--|--|--|-------------|-------------|--------------|------------------|--|
| 10       | 409.2                     | 409.1 | 413.3 | 413.6 |  |  |  | 0- 10       | 39.70       | 39.70        | 3.97, 3.97       |  |
| 20       | 380.0                     | 379.5 | 387.7 | 388.8 |  |  |  | 10- 20      | 112.7       | 152.4        | 15.2, 15.2       |  |
| 30       | 334.6                     | 333.6 | 344.3 | 346.0 |  |  |  | 20- 30      | 167.4       | 319.8        | 32, 32           |  |
| 40       | 277.6                     | 276.3 | 288.7 | 290.4 |  |  |  | 30- 40      | 195.4       | 515.2        | 51.5, 51.5       |  |
| 50       | 206.1                     | 204.4 | 218.3 | 219.8 |  |  |  | 40- 50      | 191.9       | 707.1        | 70.7, 70.7       |  |
| 60       | 122.6                     | 121.9 | 135.9 | 137.4 |  |  |  | 50- 60      | 153.5       | 860.6        | 86, 86.1         |  |
| 70       | 42.01                     | 42.46 | 50.89 | 51.86 |  |  |  | 60- 70      | 85.09       | 945.7        | 94.5, 94.6       |  |
| 80       | 12.65                     | 12.69 | 12.47 | 12.48 |  |  |  | 70- 80      | 26.31       | 972.0        | 97.2, 97.2       |  |
| 90       | 3.668                     | 3.682 | 1.835 | 1.758 |  |  |  | 80- 90      | 7.523       | 979.5        | 97.9, 98         |  |
| 100      | 3.708                     | 3.724 | 1.685 | 1.684 |  |  |  | 90-100      | 2.850       | 982.4        | 98.2, 98.2       |  |
| 110      | 3.774                     | 3.779 | 2.107 | 2.102 |  |  |  | 100-110     | 2.978       | 985.4        | 98.5, 98.5       |  |
| 120      | 3.881                     | 3.882 | 2.549 | 2.533 |  |  |  | 110-120     | 3.050       | 988.4        | 98.8, 98.8       |  |
| 130      | 4.016                     | 4.003 | 2.976 | 2.954 |  |  |  | 120-130     | 3.003       | 991.4        | 99.1, 99.1       |  |
| 140      | 4.183                     | 4.167 | 3.378 | 3.354 |  |  |  | 130-140     | 2.804       | 994.2        | 99.4, 99.4       |  |
| 150      | 4.415                     | 4.396 | 3.797 | 3.793 |  |  |  | 140-150     | 2.465       | 996.7        | 99.6, 99.7       |  |
| 160      | 4.685                     | 4.681 | 4.255 | 4.261 |  |  |  | 150-160     | 1.978       | 998.7        | 99.8, 99.9       |  |
| 170      | 4.889                     | 4.903 | 4.661 | 4.670 |  |  |  | 160-170     | 1.310       | 1000.0       | 100, 100         |  |
| 180      | 4.918                     | 4.933 | 4.922 | 4.935 |  |  |  | 170-180     | 0.4630      | 1000         | 100, 100         |  |
| DEG      | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |             |              |                  |  |



| LUMINANCE cd/ (m2) |        |         |
|--------------------|--------|---------|
| G (DEG)            | C0/180 | C90/270 |
| 85                 | 3610   | 3588    |
| 80                 | 3400   | 3410    |
| 75                 | 2849   | 3172    |
| 70                 | 5734   | 5795    |
| 65                 | 8646   | 8694    |
| 60                 | 11446  | 11383   |
| 55                 | 13516  | 13412   |
| 50                 | 14965  | 14848   |
| 45                 | 16059  | 15974   |

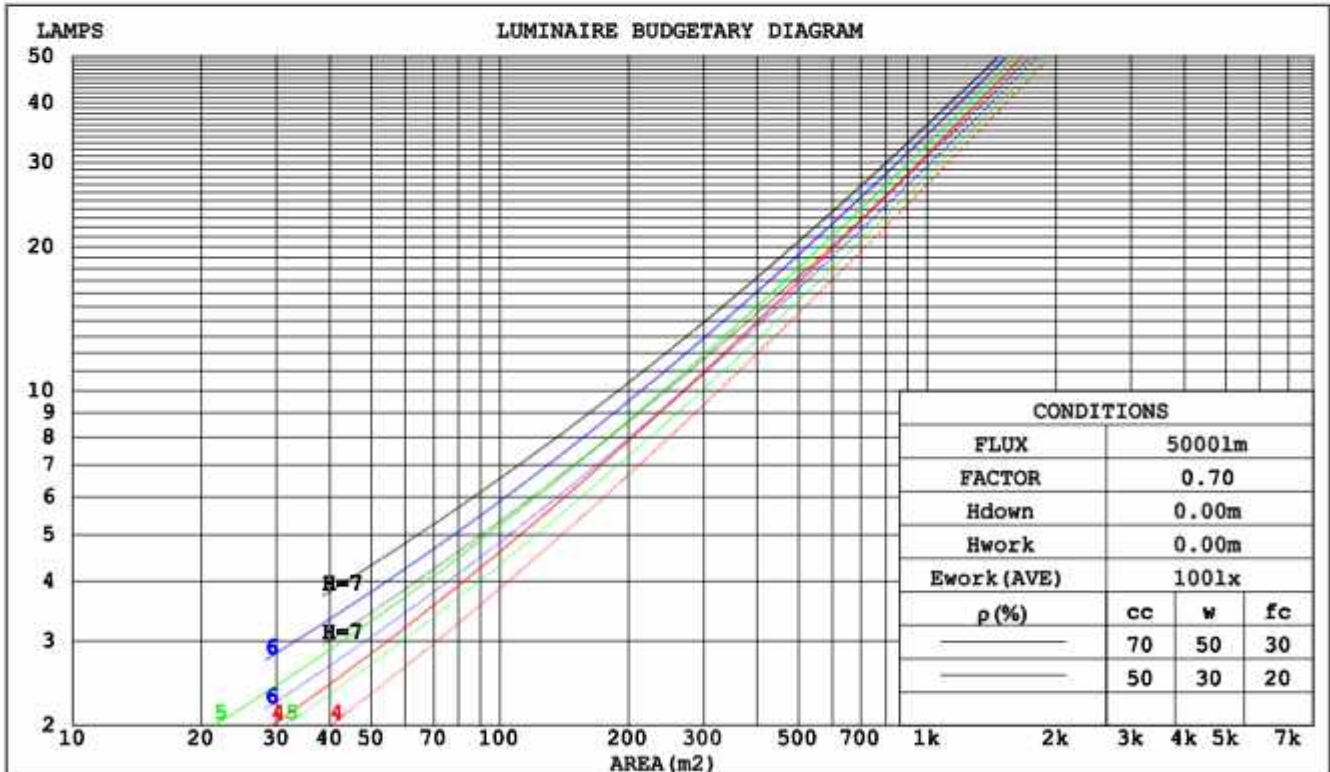
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| pw   | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98 |
| 1.0  | 1.06                            | 1.02 | .99  | 1.03 | 1.00 | .97  | .99  | .96  | .94  | .95  | .92  | .90  | .91  | .89  | .87  | .85 |
| 2.0  | .94                             | .88  | .83  | .92  | .86  | .81  | .88  | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73 |
| 3.0  | .83                             | .76  | .70  | .82  | .75  | .69  | .78  | .73  | .68  | .75  | .71  | .66  | .73  | .69  | .65  | .63 |
| 4.0  | .74                             | .66  | .60  | .73  | .66  | .60  | .70  | .64  | .59  | .68  | .62  | .58  | .65  | .61  | .57  | .55 |
| 5.0  | .67                             | .59  | .52  | .66  | .58  | .52  | .63  | .57  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .48 |
| 6.0  | .61                             | .52  | .46  | .59  | .52  | .46  | .58  | .51  | .45  | .56  | .49  | .45  | .54  | .48  | .44  | .42 |
| 7.0  | .55                             | .47  | .41  | .54  | .46  | .41  | .52  | .45  | .40  | .51  | .45  | .40  | .49  | .44  | .40  | .38 |
| 8.0  | .50                             | .42  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .40  | .36  | .45  | .40  | .36  | .34 |
| 9.0  | .46                             | .38  | .33  | .46  | .38  | .33  | .44  | .38  | .33  | .43  | .37  | .32  | .42  | .36  | .32  | .30 |
| 10.0 | .43                             | .35  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .39  | .33  | .29  | .28 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .265                  | .151 | .048 | .257 | .147 | .047 | .243                            | .139 | .045 | .230 | .133 | .043 | .218 | .126 | .041 |   |
| 2.0  | .256                  | .140 | .043 | .249 | .137 | .042 | .237                            | .132 | .041 | .225 | .126 | .040 | .215 | .121 | .038 |   |
| 3.0  | .242                  | .129 | .039 | .236 | .126 | .038 | .225                            | .122 | .037 | .215 | .118 | .036 | .205 | .114 | .035 |   |
| 4.0  | .227                  | .118 | .035 | .222 | .116 | .034 | .212                            | .112 | .034 | .203 | .109 | .033 | .194 | .106 | .032 |   |
| 5.0  | .213                  | .108 | .031 | .208 | .107 | .031 | .199                            | .104 | .031 | .191 | .101 | .030 | .183 | .098 | .029 |   |
| 6.0  | .199                  | .100 | .029 | .195 | .098 | .028 | .187                            | .096 | .028 | .180 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .187                  | .092 | .026 | .183 | .091 | .026 | .176                            | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 |   |
| 8.0  | .176                  | .086 | .024 | .172 | .085 | .024 | .166                            | .083 | .024 | .160 | .081 | .023 | .154 | .079 | .023 |   |
| 9.0  | .166                  | .080 | .022 | .163 | .079 | .022 | .157                            | .078 | .022 | .151 | .076 | .022 | .146 | .074 | .021 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .148                            | .073 | .020 | .143 | .071 | .020 | .139 | .070 | .020 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .206                  | .206 | .206 | .176 | .176 | .176 | .120                                       | .120 | .120 | .069 | .069 | .069 | .022 | .022 | .022 |   |
| 1.0  | .193                  | .173 | .154 | .165 | .148 | .133 | .113                                       | .102 | .092 | .065 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .148 | .119 | .157 | .128 | .103 | .108                                       | .088 | .071 | .062 | .051 | .042 | .020 | .017 | .014 |   |
| 3.0  | .175                  | .130 | .095 | .150 | .112 | .082 | .103                                       | .078 | .058 | .060 | .046 | .034 | .019 | .015 | .011 |   |
| 4.0  | .168                  | .117 | .078 | .144 | .101 | .068 | .099                                       | .070 | .048 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .161                  | .106 | .066 | .138 | .092 | .058 | .095                                       | .064 | .041 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0  | .154                  | .098 | .058 | .132 | .085 | .050 | .091                                       | .059 | .036 | .053 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .147                  | .091 | .051 | .127 | .079 | .045 | .088                                       | .055 | .032 | .051 | .033 | .019 | .016 | .011 | .006 |   |
| 8.0  | .141                  | .085 | .046 | .122 | .074 | .041 | .084                                       | .052 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0  | .136                  | .080 | .043 | .117 | .070 | .037 | .081                                       | .049 | .026 | .047 | .029 | .016 | .015 | .009 | .005 |   |
| 10.0 | .130                  | .076 | .040 | .112 | .066 | .035 | .078                                       | .046 | .025 | .045 | .027 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:6.500m [K=1.0000]  
Remarks:

## Uncorrected UGR Table

|  |                  |      |      |      |        |                |      |      |      |                   |  |  |  |  |  |
|--|------------------|------|------|------|--------|----------------|------|------|------|-------------------|--|--|--|--|--|
| NAME: 10寸商照筒灯                                      |                  |      |      |      | TYPE:  |                |      |      |      | WEIGHT:           |  |  |  |  |  |
| DIM.:  |                  |      |      |      | SPEC.: |                |      |      |      | SERIAL No.:       |  |  |  |  |  |
| MFR.: HXD  |                  |      |      |      | SUR.:  |                |      |      |      | PROTECTION ANGLE: |  |  |  |  |  |
| ceiling/cavity                                     | 0.7              | 0.7  | 0.5  | 0.5  | 0.3    | 0.7            | 0.7  | 0.5  | 0.5  | 0.3               |  |  |  |  |  |
| walls  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3    | 0.5            | 0.3  | 0.5  | 0.3  | 0.3               |  |  |  |  |  |
| working plane                                      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2    | 0.2            | 0.2  | 0.2  | 0.2  | 0.2               |  |  |  |  |  |
| Room dimensions                                    | Viewed crosswise |      |      |      |        | Viewed endwise |      |      |      |                   |  |  |  |  |  |
| x = 2H y = 2H                                      | 16.0             | 17.4 | 16.3 | 17.7 | 17.9   | 16.0           | 17.4 | 16.3 | 17.6 | 17.9              |  |  |  |  |  |
| 3H   | 16.5             | 17.8 | 16.8 | 18.0 | 18.3   | 16.5           | 17.8 | 16.8 | 18.0 | 18.3              |  |  |  |  |  |
| 4H   | 16.5             | 17.7 | 16.9 | 18.0 | 18.3   | 16.5           | 17.7 | 16.9 | 18.0 | 18.3              |  |  |  |  |  |
| 6H   | 16.5             | 17.7 | 16.9 | 18.0 | 18.3   | 16.5           | 17.7 | 16.9 | 18.0 | 18.3              |  |  |  |  |  |
| 8H   | 16.5             | 17.6 | 16.9 | 17.9 | 18.3   | 16.5           | 17.6 | 16.9 | 17.9 | 18.2              |  |  |  |  |  |
| 12H  | 16.5             | 17.6 | 16.9 | 17.9 | 18.2   | 16.5           | 17.6 | 16.9 | 17.9 | 18.2              |  |  |  |  |  |
| 4H 2H  | 16.3             | 17.5 | 16.7 | 17.8 | 18.1   | 16.3           | 17.5 | 16.6 | 17.8 | 18.1              |  |  |  |  |  |
| 3H   | 16.9             | 17.9 | 17.2 | 18.2 | 18.6   | 16.8           | 17.9 | 17.2 | 18.2 | 18.6              |  |  |  |  |  |
| 4H   | 16.9             | 17.9 | 17.3 | 18.2 | 18.6   | 16.9           | 17.9 | 17.3 | 18.2 | 18.6              |  |  |  |  |  |
| 6H   | 17.0             | 17.8 | 17.4 | 18.2 | 18.6   | 17.0           | 17.8 | 17.4 | 18.2 | 18.6              |  |  |  |  |  |
| 8H   | 17.0             | 17.8 | 17.5 | 18.2 | 18.6   | 17.0           | 17.8 | 17.5 | 18.2 | 18.6              |  |  |  |  |  |
| 12H  | 17.0             | 17.7 | 17.5 | 18.2 | 18.6   | 17.0           | 17.7 | 17.5 | 18.2 | 18.6              |  |  |  |  |  |
| 8H 4H  | 16.9             | 17.7 | 17.4 | 18.1 | 18.5   | 16.9           | 17.7 | 17.3 | 18.1 | 18.5              |  |  |  |  |  |
| 6H   | 17.0             | 17.7 | 17.5 | 18.1 | 18.6   | 17.0           | 17.6 | 17.5 | 18.1 | 18.6              |  |  |  |  |  |
| 8H   | 17.1             | 17.6 | 17.6 | 18.1 | 18.6   | 17.1           | 17.6 | 17.6 | 18.1 | 18.6              |  |  |  |  |  |
| 12H  | 17.2             | 17.6 | 17.7 | 18.1 | 18.6   | 17.1           | 17.6 | 17.7 | 18.1 | 18.6              |  |  |  |  |  |
| 12H 4H   | 16.9             | 17.6 | 17.3 | 18.0 | 18.4   | 16.9           | 17.6 | 17.3 | 18.0 | 18.4              |  |  |  |  |  |
| 6H   | 17.0             | 17.6 | 17.5 | 18.0 | 18.5   | 17.0           | 17.6 | 17.5 | 18.0 | 18.5              |  |  |  |  |  |
| 8H   | 17.1             | 17.6 | 17.6 | 18.1 | 18.6   | 17.1           | 17.6 | 17.6 | 18.0 | 18.6              |  |  |  |  |  |
| Variations with the observer position at spacings: |                  |      |      |      |        |                |      |      |      |                   |  |  |  |  |  |
| S = 1.0H   | + 0.4 / - 0.5    |      |      |      |        | + 0.4 / - 0.5  |      |      |      |                   |  |  |  |  |  |
| 1.5H   | + 0.3 / - 0.5    |      |      |      |        | + 0.3 / - 0.5  |      |      |      |                   |  |  |  |  |  |
| 2.0H   | + 0.8 / - 1.0    |      |      |      |        | + 0.8 / - 1.0  |      |      |      |                   |  |  |  |  |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

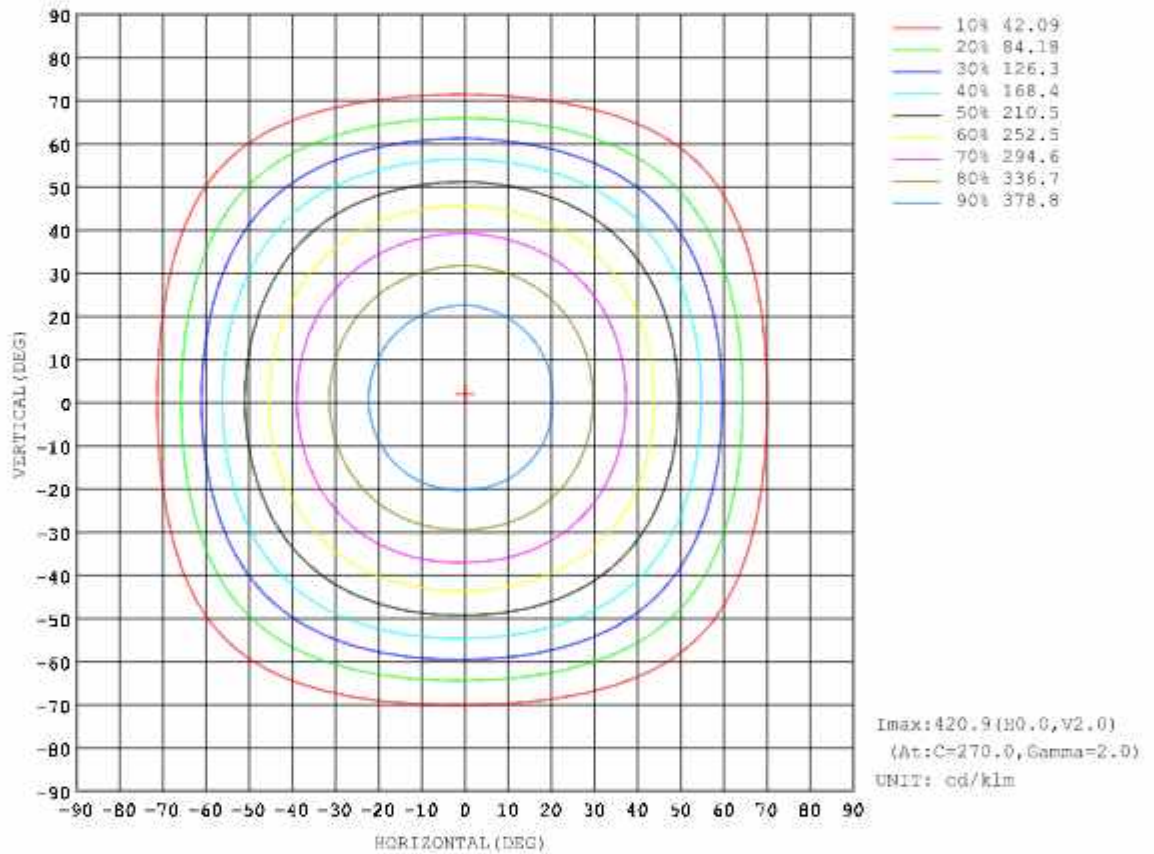
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| $k = 0.60$                       | 61   | 50  | 44        | 60  | 50  | 43  | 59            | 49  | 43  | 37     |
| 0.80                             | 71   | 61  | 54        | 70  | 60  | 54  | 68            | 59  | 53  | 47     |
| 1.00                             | 80   | 70  | 63        | 79  | 69  | 63  | 76            | 70  | 62  | 56     |
| 1.25                             | 87   | 78  | 71        | 85  | 77  | 71  | 83            | 75  | 70  | 63     |
| 1.50                             | 92   | 83  | 77        | 90  | 82  | 76  | 87            | 80  | 75  | 68     |
| 2.00                             | 98   | 91  | 85        | 96  | 89  | 84  | 93            | 87  | 82  | 75     |
| 2.50                             | 101  | 95  | 89        | 99  | 93  | 88  | 95            | 90  | 86  | 78     |
| 3.00                             | 104  | 98  | 94        | 102 | 97  | 92  | 98            | 94  | 90  | 82     |
| 4.00                             | 108  | 103 | 99        | 105 | 101 | 97  | 101           | 97  | 94  | 85     |
| 5.00                             | 110  | 106 | 102       | 107 | 103 | 100 | 103           | 100 | 97  | 88     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SERNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

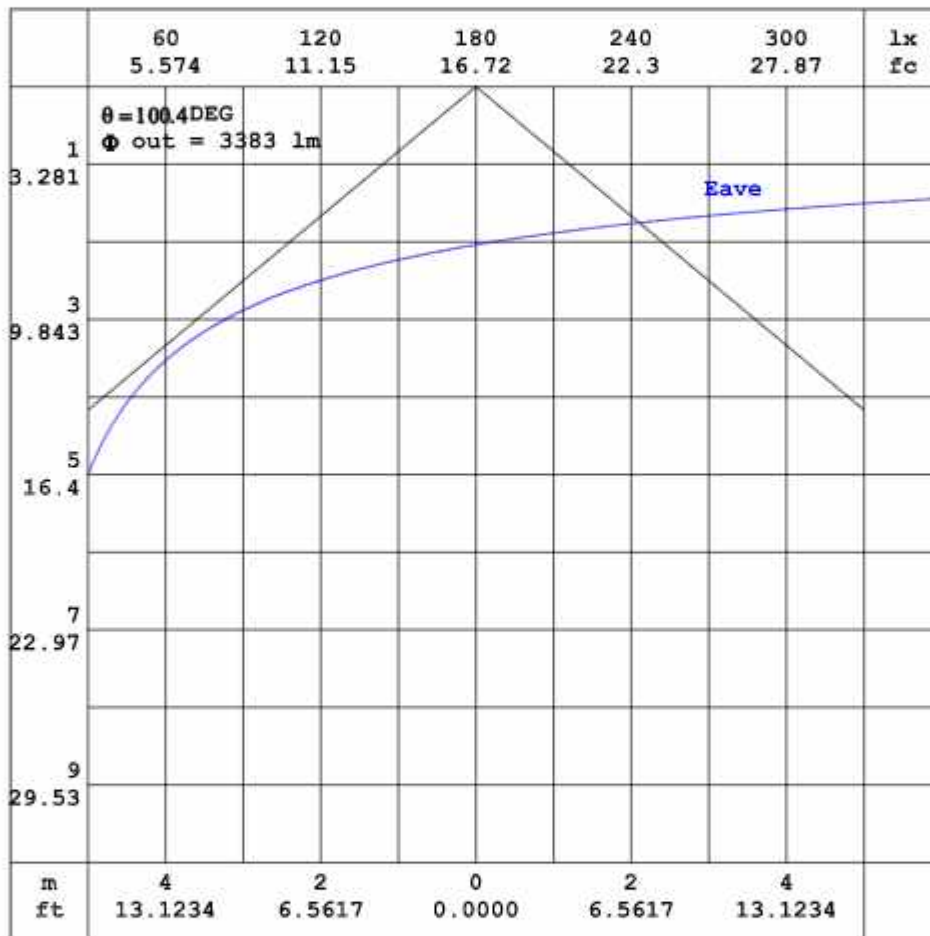


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |



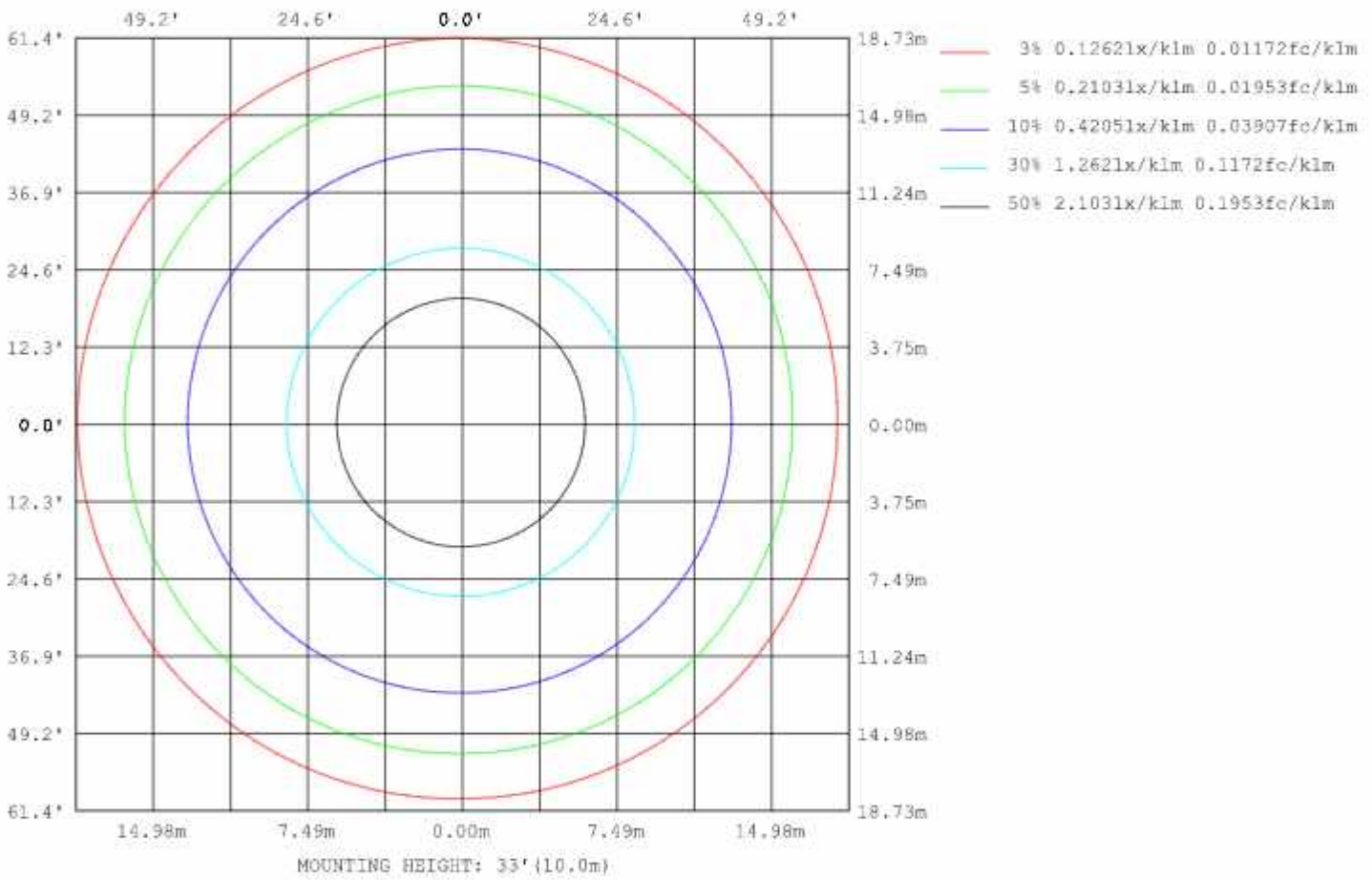
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

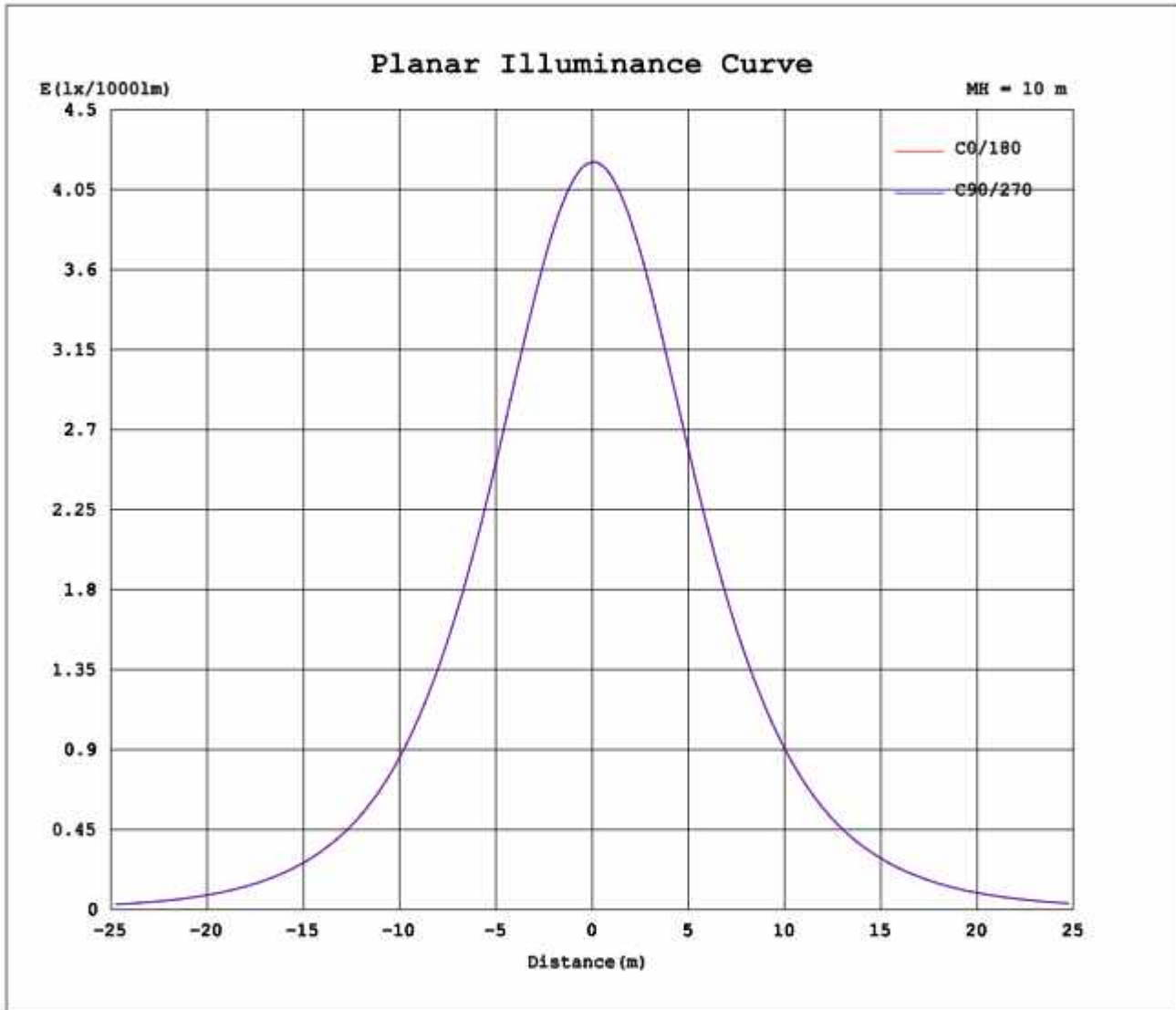


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|               |        |                   |
|---------------|--------|-------------------|
| NAME: 10寸商照筒灯 | TYPE:  | WEIGHT:           |
| DIM.:         | SPEC.: | SERIAL No.:       |
| MFR.: HXD     | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG) \ y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 421  | 421  | 421  | 421  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 417  | 417  | 419  | 420  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 409  | 409  | 413  | 414  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 397  | 397  | 403  | 404  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 380  | 380  | 388  | 389  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 359  | 358  | 368  | 369  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 335  | 334  | 344  | 346  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 307  | 306  | 318  | 319  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 278  | 276  | 289  | 290  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 243  | 242  | 255  | 257  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 206  | 204  | 218  | 220  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 166  | 165  | 179  | 180  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 123  | 122  | 136  | 137  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 78.3 | 78.7 | 91.3 | 92.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 42.0 | 42.3 | 50.9 | 51.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 21.3 | 20.9 | 23.7 | 24.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 12.6 | 12.7 | 12.5 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 6.74 | 6.70 | 6.59 | 6.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 3.67 | 3.68 | 1.84 | 1.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 3.69 | 3.70 | 1.50 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 3.71 | 3.72 | 1.69 | 1.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 3.73 | 3.75 | 1.89 | 1.89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.77 | 3.78 | 2.11 | 2.10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.82 | 3.83 | 2.33 | 2.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 3.88 | 3.88 | 2.55 | 2.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 3.95 | 3.94 | 2.77 | 2.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 4.02 | 4.00 | 2.98 | 2.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 4.09 | 4.08 | 3.18 | 3.15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 4.18 | 4.17 | 3.38 | 3.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 4.29 | 4.27 | 3.58 | 3.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 4.41 | 4.40 | 3.80 | 3.79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 4.55 | 4.54 | 4.03 | 4.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 4.68 | 4.68 | 4.26 | 4.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 4.80 | 4.81 | 4.47 | 4.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 4.89 | 4.90 | 4.66 | 4.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 4.93 | 4.95 | 4.82 | 4.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 4.92 | 4.93 | 4.92 | 4.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

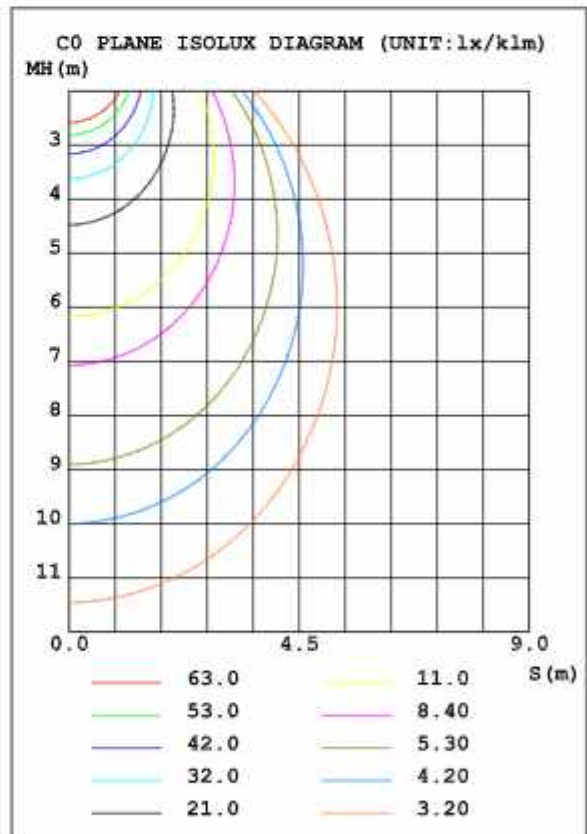
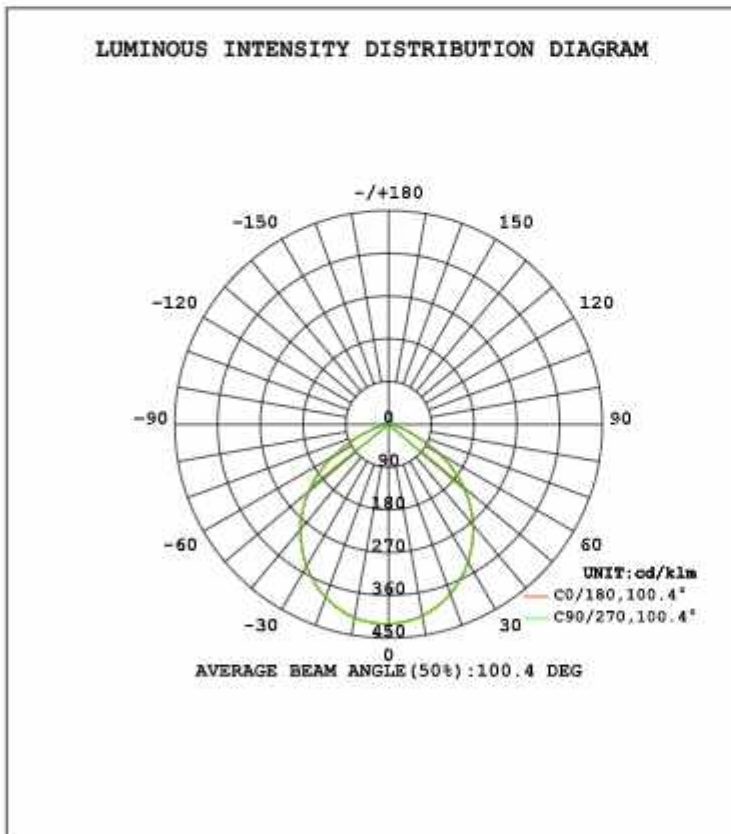
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP      |              | PHOTOMETRIC DATA    |         |                          |           |
|-------------------|--------------|---------------------|---------|--------------------------|-----------|
| MODEL             | 10LMCT38LR05 | Imax (cd/klm)       | 420.4   | S/MH (C0/180)            | 1.19      |
| NOMINAL POWER (W) | 38           | LOR (%)             | 100.0   | S/MH (C90/270)           | 1.19      |
| RATED VOLTAGE (V) | 122          | TOTAL FLUX (lm/klm) | 1000.00 | $\eta$ UP, DN (C0-180)   | 1.3, 47.6 |
| NOMINAL FLUX (lm) | 4668.26      | CIE CLASS           | DIRECT  | $\eta$ UP, DN (C180-360) | 0.8, 50.3 |
| LAMPS INSIDE      | 1            | $\eta$ up (%)       | 2.1     | CIBSE SHR NOM            | 1.25      |
| TEST VOLTAGE (V)  | 121.9        | $\eta$ down (%)     | 97.9    | CIBSE SHR MAX            | 1.35      |



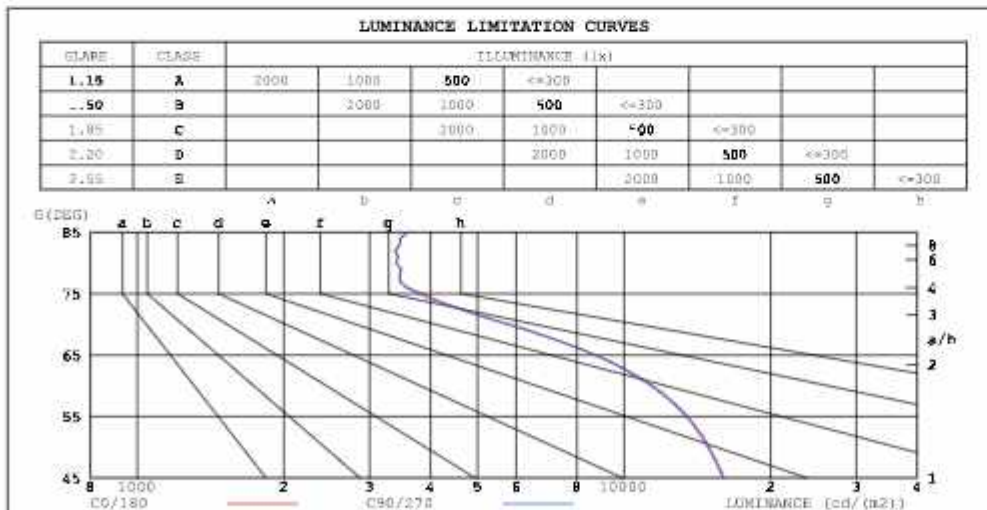
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| γ   | C0                        | C90   | C180  | C270  |  |  |  | γ           | Φ zone | Φ total | Φlum, lamp |
|-----|---------------------------|-------|-------|-------|--|--|--|-------------|--------|---------|------------|
| 10  | 409.1                     | 408.5 | 413.1 | 413.0 |  |  |  | 0- 10       | 39.66  | 39.66   | 3.97, 3.97 |
| 20  | 380.1                     | 379.1 | 387.5 | 388.0 |  |  |  | 10- 20      | 112.6  | 152.3   | 15.2, 15.2 |
| 30  | 334.8                     | 333.5 | 344.3 | 345.4 |  |  |  | 20- 30      | 167.3  | 319.6   | 32, 32     |
| 40  | 277.8                     | 276.4 | 288.7 | 290.1 |  |  |  | 30- 40      | 195.4  | 515.0   | 51.5, 51.5 |
| 50  | 205.9                     | 204.2 | 218.2 | 219.3 |  |  |  | 40- 50      | 191.8  | 706.7   | 70.7, 70.7 |
| 60  | 122.6                     | 121.6 | 135.7 | 137.0 |  |  |  | 50- 60      | 153.2  | 860.0   | 86, 86     |
| 70  | 42.30                     | 42.67 | 51.35 | 52.25 |  |  |  | 60- 70      | 85.22  | 945.2   | 94.5, 94.5 |
| 80  | 12.64                     | 12.66 | 12.50 | 12.49 |  |  |  | 70- 80      | 26.44  | 971.6   | 97.2, 97.2 |
| 90  | 3.666                     | 3.664 | 1.837 | 1.754 |  |  |  | 80- 90      | 7.514  | 979.1   | 97.9, 97.9 |
| 100 | 3.704                     | 3.706 | 1.687 | 1.671 |  |  |  | 90-100      | 2.843  | 982.0   | 98.2, 98.2 |
| 110 | 3.767                     | 3.770 | 2.106 | 2.087 |  |  |  | 100-110     | 2.971  | 985.0   | 98.5, 98.5 |
| 120 | 3.874                     | 3.872 | 2.549 | 2.526 |  |  |  | 110-120     | 3.043  | 988.0   | 98.8, 98.8 |
| 130 | 4.007                     | 3.991 | 2.978 | 2.944 |  |  |  | 120-130     | 2.997  | 991.0   | 99.1, 99.1 |
| 140 | 4.175                     | 4.157 | 3.378 | 3.344 |  |  |  | 130-140     | 2.799  | 993.8   | 99.4, 99.4 |
| 150 | 4.411                     | 4.384 | 3.797 | 3.782 |  |  |  | 140-150     | 2.460  | 996.3   | 99.6, 99.6 |
| 160 | 4.681                     | 4.669 | 4.248 | 4.248 |  |  |  | 150-160     | 1.974  | 998.2   | 99.8, 99.8 |
| 170 | 4.885                     | 4.893 | 4.654 | 4.657 |  |  |  | 160-170     | 1.307  | 999.5   | 100, 100   |
| 180 | 4.909                     | 4.920 | 4.910 | 4.922 |  |  |  | 170-180     | 0.4619 | 1000.0  | 100, 100   |
| DEG | LUMINOUS INTENSITY:cd/klm |       |       |       |  |  |  | UNIT:lm/klm |        |         |            |



| LUMINANCE cd / (m²) |        |         |
|---------------------|--------|---------|
| θ (DEG)             | C0/180 | C90/270 |
| 85                  | 3609   | 3577    |
| 80                  | 3397   | 3404    |
| 75                  | 2835   | 3176    |
| 70                  | 5774   | 5824    |
| 65                  | 8136   | 8709    |
| 60                  | 11447  | 11354   |
| 55                  | 13506  | 13392   |
| 50                  | 14951  | 14827   |
| 45                  | 16061  | 15961   |

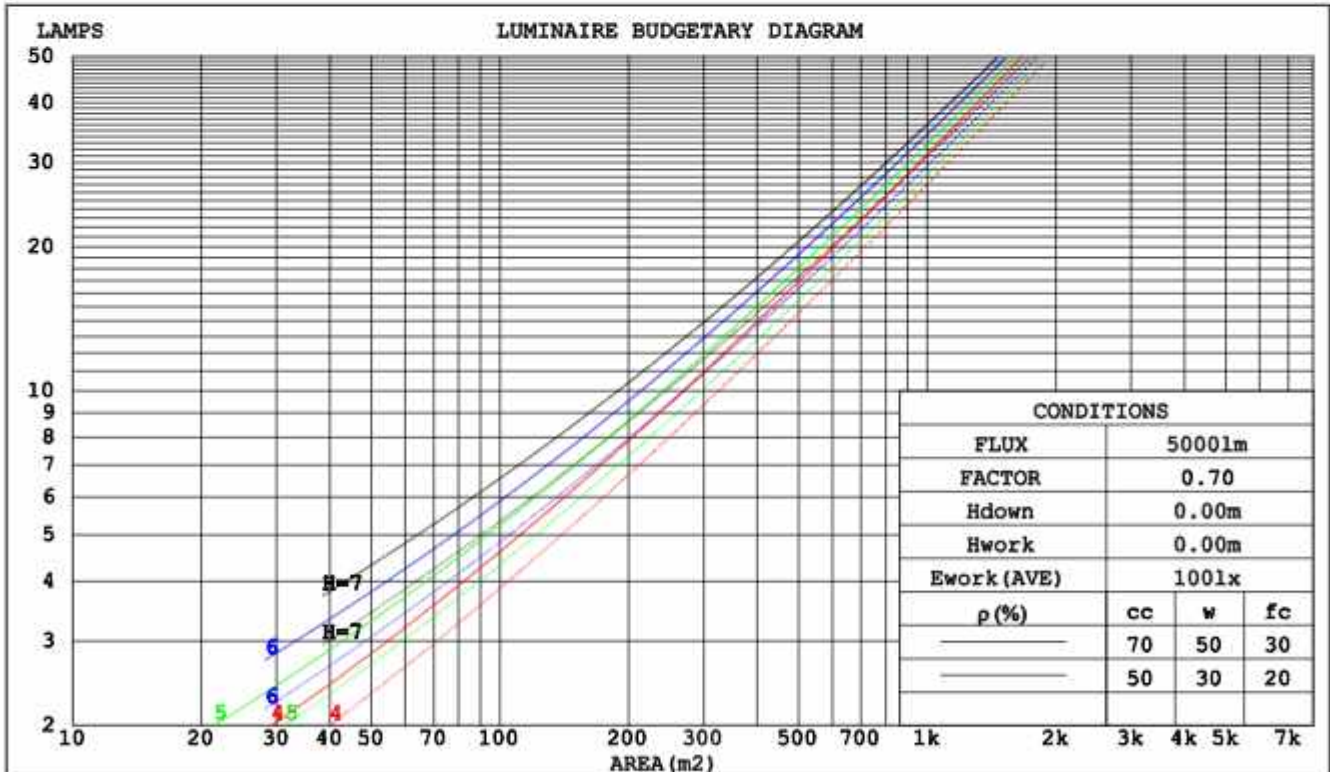
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Coefficients of Utilization(CU) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | 1.06                  | 1.02 | .99  | 1.03 | .90  | .97  | .99  | .96  | .94  | .95  | .92  | .90  | .91  | .89  | .87  | .85                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.0  | .94                   | .88  | .83  | .92  | .86  | .81  | .88  | .83  | .79  | .84  | .81  | .77  | .81  | .78  | .75  | .73                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.0  | .83                   | .76  | .70  | .82  | .75  | .69  | .78  | .73  | .68  | .75  | .71  | .66  | .73  | .69  | .65  | .63                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.0  | .74                   | .66  | .60  | .73  | .65  | .60  | .70  | .64  | .59  | .68  | .62  | .58  | .65  | .61  | .57  | .55                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.0  | .67                   | .59  | .52  | .66  | .58  | .52  | .63  | .57  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .48                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.0  | .60                   | .52  | .46  | .59  | .52  | .46  | .57  | .50  | .45  | .56  | .49  | .45  | .54  | .48  | .44  | .42                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.0  | .55                   | .47  | .41  | .54  | .46  | .41  | .52  | .45  | .40  | .51  | .45  | .40  | .49  | .44  | .39  | .38                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.0  | .50                   | .42  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .40  | .36  | .45  | .40  | .36  | .34                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.0  | .46                   | .38  | .33  | .46  | .38  | .33  | .44  | .38  | .33  | .43  | .37  | .32  | .42  | .36  | .32  | .30                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.0 | .43                   | .35  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .39  | .33  | .29  | .28                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## WEC AND CCEC

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .265                  | .151 | .048 | .257 | .147 | .047 | .243                            | .139 | .045 | .230 | .133 | .043 | .218 | .126 | .041 |   |
| 2.0  | .256                  | .140 | .043 | .249 | .137 | .042 | .237                            | .132 | .041 | .225 | .126 | .040 | .215 | .121 | .038 |   |
| 3.0  | .242                  | .129 | .039 | .236 | .126 | .038 | .225                            | .122 | .037 | .215 | .118 | .036 | .205 | .114 | .035 |   |
| 4.0  | .227                  | .118 | .035 | .222 | .116 | .034 | .212                            | .112 | .034 | .203 | .109 | .033 | .194 | .106 | .032 |   |
| 5.0  | .212                  | .108 | .031 | .208 | .107 | .031 | .199                            | .104 | .031 | .191 | .101 | .030 | .183 | .098 | .029 |   |
| 6.0  | .199                  | .100 | .029 | .195 | .098 | .028 | .187                            | .096 | .028 | .180 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .187                  | .092 | .026 | .183 | .091 | .026 | .176                            | .089 | .026 | .169 | .087 | .025 | .163 | .085 | .025 |   |
| 8.0  | .176                  | .086 | .024 | .172 | .085 | .024 | .166                            | .083 | .024 | .160 | .081 | .023 | .154 | .079 | .023 |   |
| 9.0  | .165                  | .080 | .022 | .162 | .079 | .022 | .157                            | .077 | .022 | .151 | .076 | .022 | .146 | .074 | .021 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .148                            | .073 | .020 | .143 | .071 | .020 | .139 | .070 | .020 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .206                  | .206 | .206 | .176 | .176 | .176 | .120                                       | .120 | .120 | .069 | .069 | .069 | .022 | .022 | .022 |   |
| 1.0  | .193                  | .173 | .154 | .165 | .148 | .132 | .113                                       | .102 | .092 | .065 | .059 | .053 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .148 | .118 | .157 | .128 | .102 | .108                                       | .088 | .071 | .062 | .051 | .042 | .020 | .017 | .014 |   |
| 3.0  | .175                  | .130 | .095 | .150 | .112 | .082 | .103                                       | .078 | .057 | .060 | .046 | .034 | .019 | .015 | .011 |   |
| 4.0  | .168                  | .117 | .078 | .144 | .101 | .068 | .099                                       | .070 | .048 | .057 | .041 | .028 | .018 | .013 | .009 |   |
| 5.0  | .160                  | .106 | .066 | .138 | .092 | .058 | .095                                       | .064 | .041 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 6.0  | .154                  | .098 | .058 | .132 | .085 | .050 | .091                                       | .059 | .036 | .053 | .035 | .021 | .017 | .011 | .007 |   |
| 7.0  | .147                  | .091 | .051 | .127 | .079 | .045 | .088                                       | .055 | .032 | .051 | .033 | .019 | .016 | .011 | .006 |   |
| 8.0  | .141                  | .085 | .046 | .122 | .074 | .040 | .084                                       | .052 | .029 | .049 | .031 | .017 | .016 | .010 | .006 |   |
| 9.0  | .136                  | .080 | .043 | .117 | .070 | .037 | .081                                       | .049 | .026 | .047 | .029 | .016 | .015 | .009 | .005 |   |
| 10.0 | .130                  | .076 | .040 | .112 | .066 | .035 | .078                                       | .046 | .025 | .045 | .027 | .015 | .015 | .009 | .005 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

|  |                  |        |      |      |      |                |                   |      |      |      |  |
|--|------------------|--------|------|------|------|----------------|-------------------|------|------|------|--|
| NAME: 10寸商照  |                  | TYPE:  |      |      |      |                | WEIGHT:           |      |      |      |  |
| DIM.:  |                  | SPEC.: |      |      |      |                | SERIAL No.:       |      |      |      |  |
| MFR.: HXD  |                  | SUR.:  |      |      |      |                | PROTECTION ANGLE: |      |      |      |  |
| ceiling/cavity                                     | 0.7              | 0.7    | 0.5  | 0.5  | 0.3  | 0.7            | 0.7               | 0.5  | 0.5  | 0.3  |  |
| walls  | 0.5              | 0.3    | 0.5  | 0.3  | 0.3  | 0.5            | 0.3               | 0.5  | 0.3  | 0.3  |  |
| working plane                                      | 0.2              | 0.2    | 0.2  | 0.2  | 0.2  | 0.2            | 0.2               | 0.2  | 0.2  | 0.2  |  |
| Room dimensions                                    | Viewed crosswise |        |      |      |      | Viewed endwise |                   |      |      |      |  |
| x = 2H y = 2H                                      | 16.0             | 17.4   | 16.3 | 17.7 | 17.9 | 16.0           | 17.4              | 16.3 | 17.6 | 17.9 |  |
| 3H   | 16.5             | 17.8   | 16.8 | 18.0 | 18.3 | 16.5           | 17.8              | 16.8 | 18.0 | 18.3 |  |
| 4H   | 16.6             | 17.8   | 16.9 | 18.0 | 18.3 | 16.5           | 17.7              | 16.9 | 18.0 | 18.3 |  |
| 6H   | 16.6             | 17.7   | 16.9 | 18.0 | 18.3 | 16.5           | 17.7              | 16.9 | 18.0 | 18.3 |  |
| 8H   | 16.5             | 17.6   | 16.9 | 17.9 | 18.3 | 16.5           | 17.6              | 16.9 | 17.9 | 18.2 |  |
| 12H  | 16.5             | 17.6   | 16.9 | 17.9 | 18.2 | 16.5           | 17.5              | 16.9 | 17.9 | 18.2 |  |
| 4H 2H  | 16.3             | 17.5   | 16.7 | 17.8 | 18.1 | 16.3           | 17.5              | 16.6 | 17.8 | 18.1 |  |
| 3H   | 16.9             | 17.9   | 17.2 | 18.2 | 18.6 | 16.9           | 17.9              | 17.2 | 18.2 | 18.6 |  |
| 4H   | 17.0             | 17.9   | 17.4 | 18.2 | 18.6 | 16.9           | 17.9              | 17.3 | 18.2 | 18.6 |  |
| 6H   | 17.0             | 17.8   | 17.4 | 18.2 | 18.6 | 17.0           | 17.8              | 17.4 | 18.2 | 18.6 |  |
| 8H   | 17.0             | 17.8   | 17.5 | 18.2 | 18.6 | 17.0           | 17.8              | 17.5 | 18.2 | 18.6 |  |
| 12H  | 17.1             | 17.8   | 17.5 | 18.2 | 18.6 | 17.0           | 17.7              | 17.5 | 18.2 | 18.6 |  |
| 8H 4H  | 16.9             | 17.7   | 17.4 | 18.1 | 18.5 | 16.9           | 17.7              | 17.3 | 18.1 | 18.5 |  |
| 6H   | 17.0             | 17.7   | 17.5 | 18.1 | 18.6 | 17.0           | 17.7              | 17.5 | 18.1 | 18.6 |  |
| 8H   | 17.1             | 17.7   | 17.6 | 18.1 | 18.6 | 17.1           | 17.6              | 17.6 | 18.1 | 18.6 |  |
| 12H  | 17.2             | 17.6   | 17.7 | 18.1 | 18.6 | 17.1           | 17.6              | 17.7 | 18.1 | 18.6 |  |
| 12H 4H   | 16.9             | 17.6   | 17.3 | 18.0 | 18.5 | 16.9           | 17.6              | 17.3 | 18.0 | 18.4 |  |
| 6H   | 17.0             | 17.6   | 17.5 | 18.0 | 18.5 | 17.0           | 17.6              | 17.5 | 18.0 | 18.5 |  |
| 8H   | 17.1             | 17.6   | 17.6 | 18.1 | 18.6 | 17.1           | 17.6              | 17.6 | 18.0 | 18.6 |  |
| Variations with the observer position at spacings: |                  |        |      |      |      |                |                   |      |      |      |  |
| S = 1.0H   | + 0.4 / - 0.5    |        |      |      |      | + 0.4 / - 0.5  |                   |      |      |      |  |
| 1.5H   | + 0.3 / - 0.5    |        |      |      |      | + 0.3 / - 0.5  |                   |      |      |      |  |
| 2.0H   | + 0.8 / - 1.0    |        |      |      |      | + 0.8 / - 1.0  |                   |      |      |      |  |

CIE Pub.117 Corrected 1000 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |

| REFLECTANCE                      |  |     |           |     |     |     |              |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|--------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5          | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7          | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2          | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |              |     |     |        |
| $k = 0.60$                       | 61   | 50  | 44        | 60  | 50  | 43  | 59           | 49  | 43  | 37     |
| 0.80                             | 71   | 61  | 54        | 70  | 60  | 54  | 68           | 59  | 53  | 47     |
| 1.00                             | 80   | 70  | 63        | 79  | 69  | 63  | 76           | 70  | 62  | 56     |
| 1.25                             | 87   | 78  | 71        | 85  | 77  | 71  | 83           | 75  | 70  | 63     |
| 1.50                             | 92   | 83  | 77        | 90  | 82  | 76  | 87           | 80  | 75  | 68     |
| 2.00                             | 98   | 90  | 85        | 96  | 89  | 84  | 92           | 87  | 82  | 75     |
| 2.50                             | 101  | 95  | 89        | 99  | 93  | 88  | 95           | 90  | 86  | 78     |
| 3.00                             | 104  | 98  | 94        | 102 | 97  | 92  | 98           | 94  | 90  | 81     |
| 4.00                             | 108  | 103 | 99        | 105 | 101 | 97  | 101          | 97  | 94  | 85     |
| 5.00                             | 110  | 106 | 102       | 107 | 103 | 100 | 102          | 100 | 97  | 88     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |              |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SRNOM = 1.25 |     |     |        |

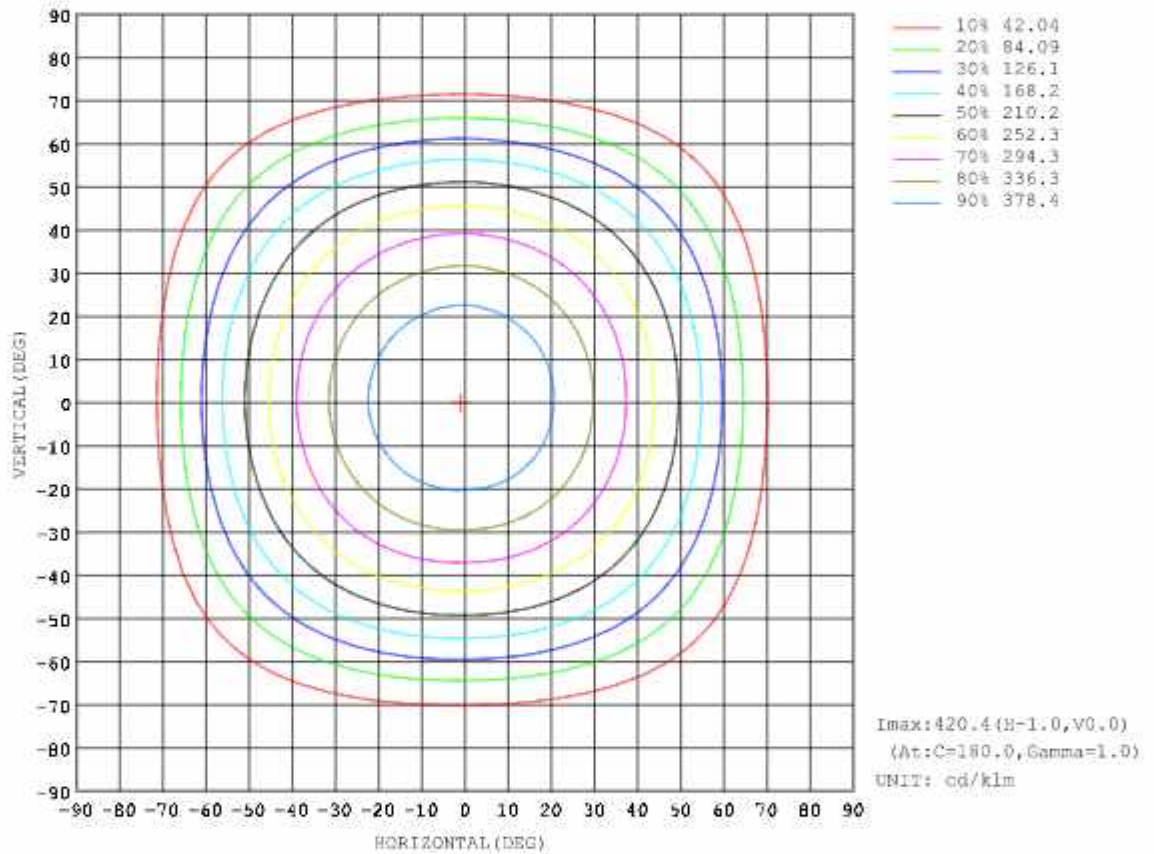
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## ISOCANDELA DIAGRAM

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |

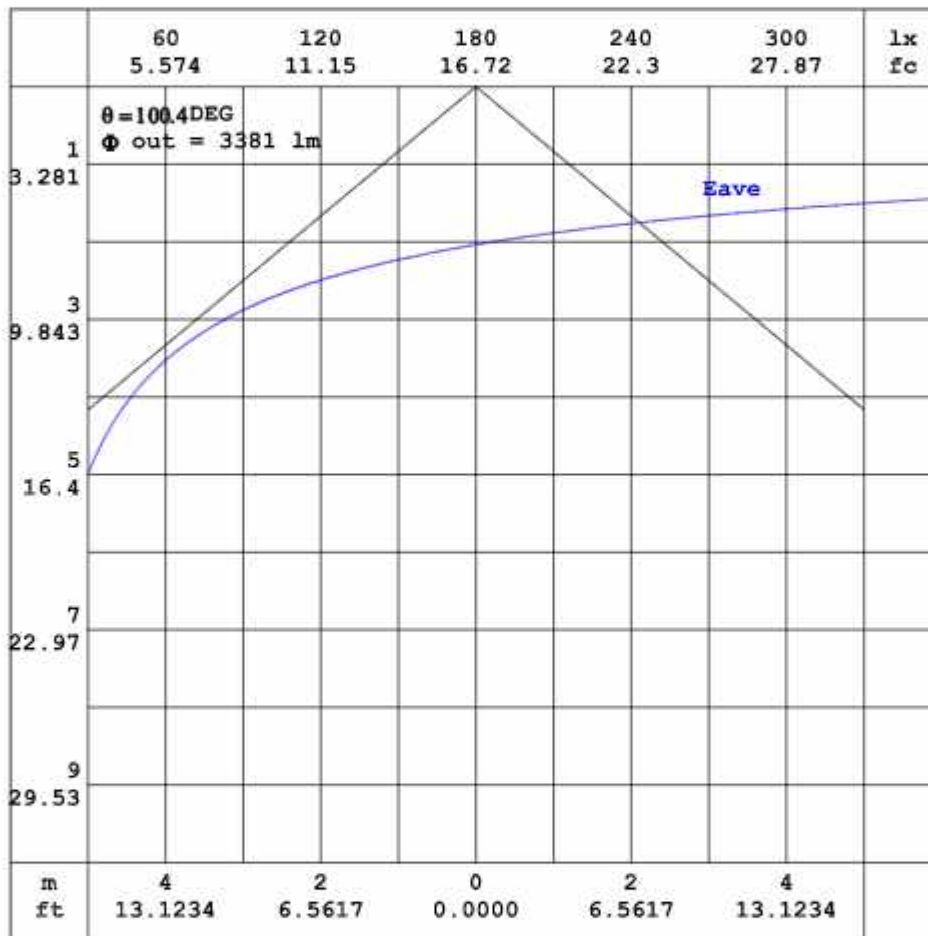


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

AAI CURVES

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |



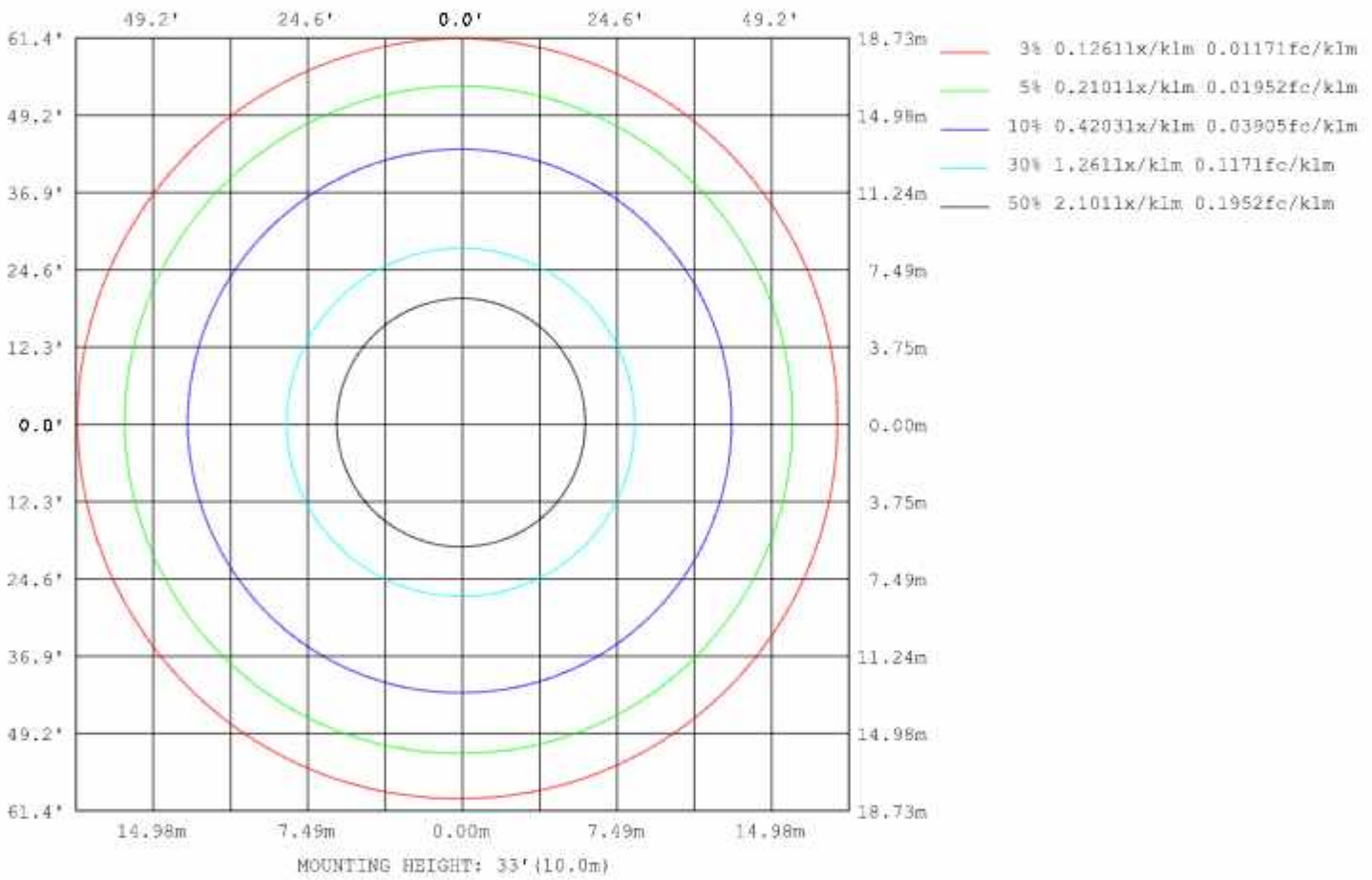
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

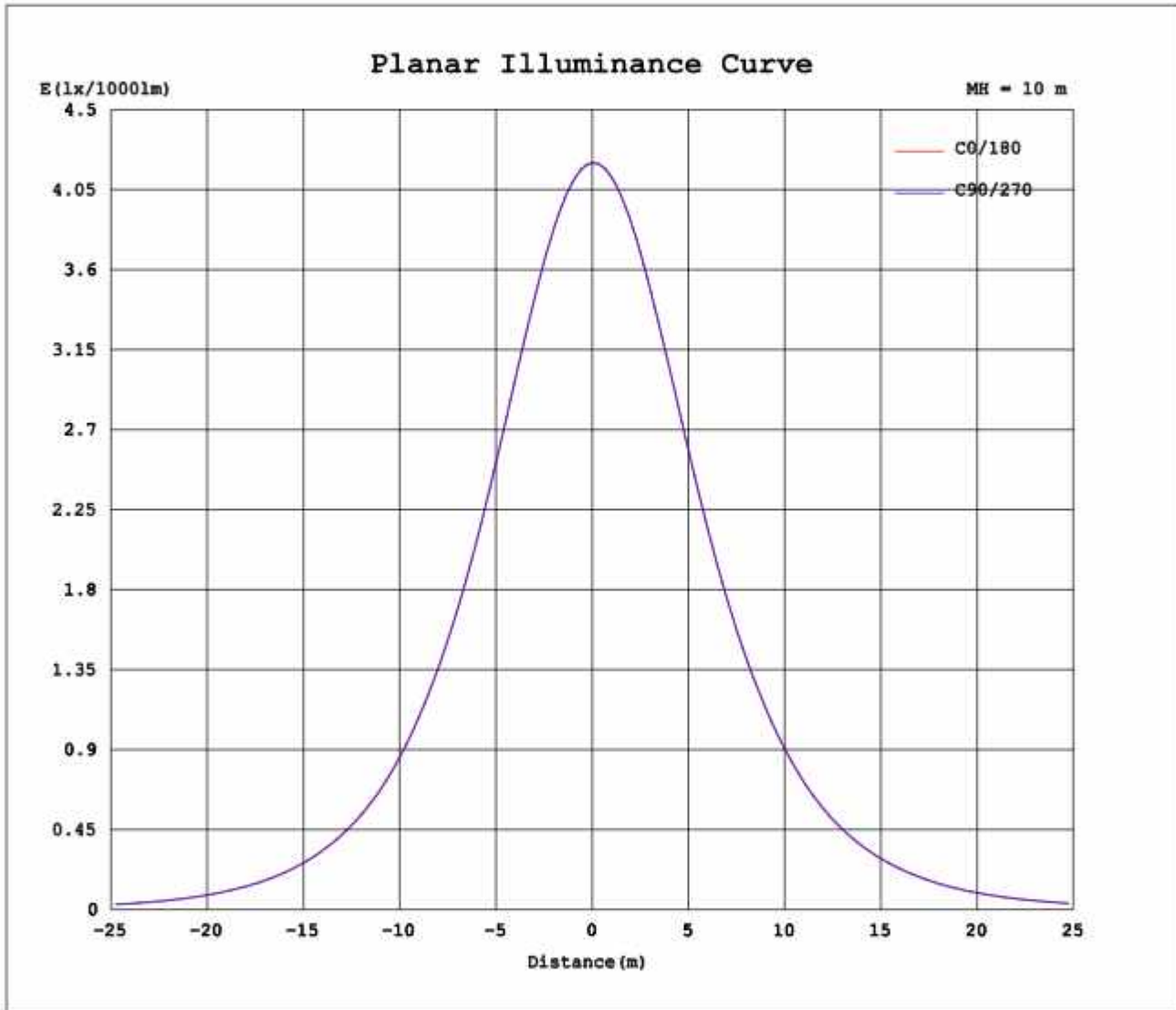
|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|             |        |                   |
|-------------|--------|-------------------|
| NAME: 10寸商照 | TYPE:  | WEIGHT:           |
| DIM.:       | SPEC.: | SERIAL No.:       |
| MFR.: HXD   | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd/klm

| C (DEG)<br>y (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 420  | 420  | 420  | 420  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 417  | 417  | 419  | 419  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 409  | 409  | 413  | 413  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 397  | 396  | 403  | 403  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 380  | 379  | 387  | 388  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 359  | 358  | 368  | 369  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 335  | 333  | 344  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 308  | 306  | 318  | 319  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 278  | 276  | 289  | 290  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 243  | 242  | 255  | 257  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 206  | 204  | 218  | 219  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 166  | 165  | 178  | 180  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 123  | 122  | 136  | 137  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 79.1 | 78.8 | 91.4 | 92.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 42.3 | 42.7 | 51.4 | 52.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 21.4 | 20.9 | 23.9 | 24.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 12.6 | 12.7 | 12.5 | 12.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 6.74 | 6.68 | 6.60 | 6.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 3.67 | 3.66 | 1.84 | 1.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 3.68 | 3.68 | 1.50 | 1.49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 3.70 | 3.71 | 1.69 | 1.67 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 3.73 | 3.73 | 1.89 | 1.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 3.77 | 3.77 | 2.11 | 2.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 3.81 | 3.82 | 2.33 | 2.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 3.87 | 3.87 | 2.55 | 2.53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 3.94 | 3.93 | 2.77 | 2.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 4.01 | 3.99 | 2.98 | 2.94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 4.08 | 4.07 | 3.18 | 3.14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 4.17 | 4.16 | 3.38 | 3.34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 4.28 | 4.26 | 3.58 | 3.56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 4.41 | 4.38 | 3.80 | 3.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 4.55 | 4.52 | 4.02 | 4.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 4.68 | 4.67 | 4.25 | 4.25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 4.80 | 4.80 | 4.46 | 4.47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 4.88 | 4.89 | 4.65 | 4.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 4.93 | 4.94 | 4.81 | 4.82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 4.91 | 4.92 | 4.91 | 4.92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks: