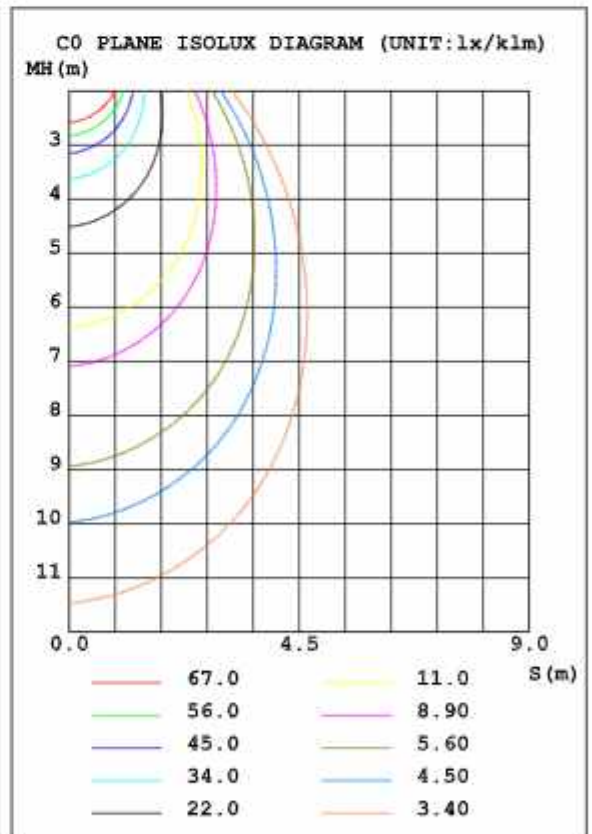
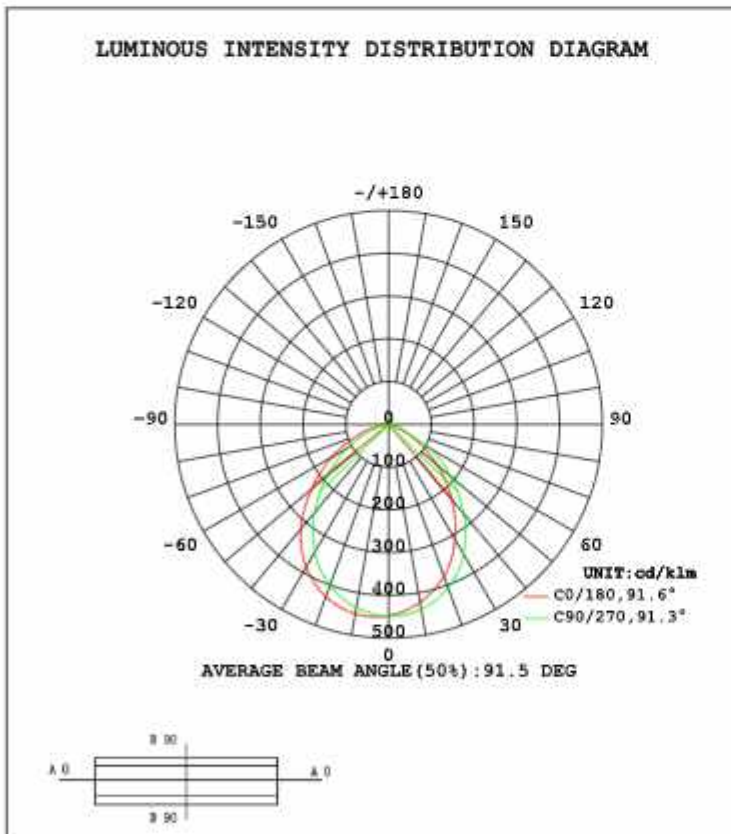


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.66 lm/W			
MODEL	6W-2700K	I _{max} (cd/klm)	451.9	S/MH (C0/180)	1.07
NOMINAL POWER (W)	6	LOR (%)	97.5	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	974.77	η UP, DN (C0-180)	1.4, 42.8
NOMINAL FLUX (lm)	704.665	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.0, 52.4
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	95.2	CIBSE SHR MAX	1.30



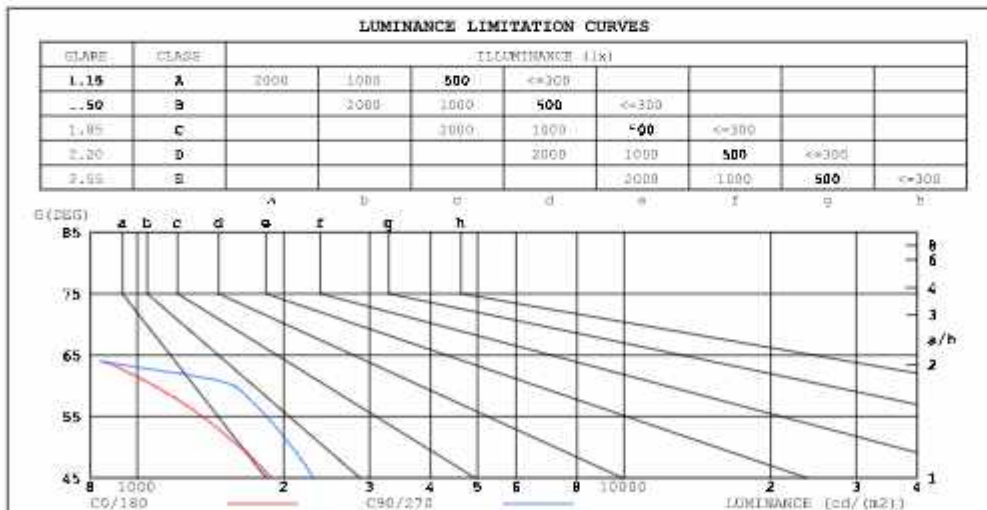
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φ lum, lamp
10	422.7	439.0	450.1	435.5				0- 10	42.24	42.24	4.33, 4.22
20	378.4	406.1	429.0	401.2				10- 20	119.1	161.4	16.6, 16.1
30	311.3	350.8	385.7	345.7				20- 30	174.1	335.5	34.4, 33.5
40	230.2	272.1	319.7	270.0				30- 40	195.1	530.6	54.4, 53.1
50	148.5	189.5	235.5	188.3				40- 50	178.6	709.2	72.8, 70.9
60	76.85	112.7	152.6	111.3				50- 60	134.8	844.0	86.6, 84.4
70	26.82	9.599	79.27	48.69				60- 70	72.00	916.0	94, 91.6
80	9.027	10.94	26.64	7.867				70- 80	26.62	942.6	96.7, 94.3
90	4.021	4.002	7.496	1.683				80- 90	8.923	951.5	97.6, 95.2
100	4.022	3.986	1.746	1.972				90-100	3.475	955.0	98, 95.5
110	4.073	4.040	2.124	2.407				100-110	3.214	958.2	98.3, 95.8
120	4.234	4.182	2.569	2.895				110-120	3.285	961.5	98.6, 96.2
130	4.413	4.409	3.051	3.458				120-130	3.273	964.8	99, 96.5
140	4.622	4.660	3.534	3.950				130-140	3.105	967.9	99.3, 96.8
150	4.896	4.924	4.016	4.347				140-150	2.739	970.6	99.6, 97.1
160	5.151	5.208	4.532	4.782				150-160	2.184	972.8	99.8, 97.3
170	5.388	5.435	5.062	5.208				160-170	1.441	974.3	99.9, 97.4
180	5.440	5.454	5.426	5.445				170-180	0.5102	974.8	100, 97.5
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd / (m2)		
G (DEG)	C0/180	C90/270
85	329	562
80	366	444
75	454	180
70	553	198
65	799	710
60	1093	1588
55	1360	1841
50	1628	2078
45	1883	2301

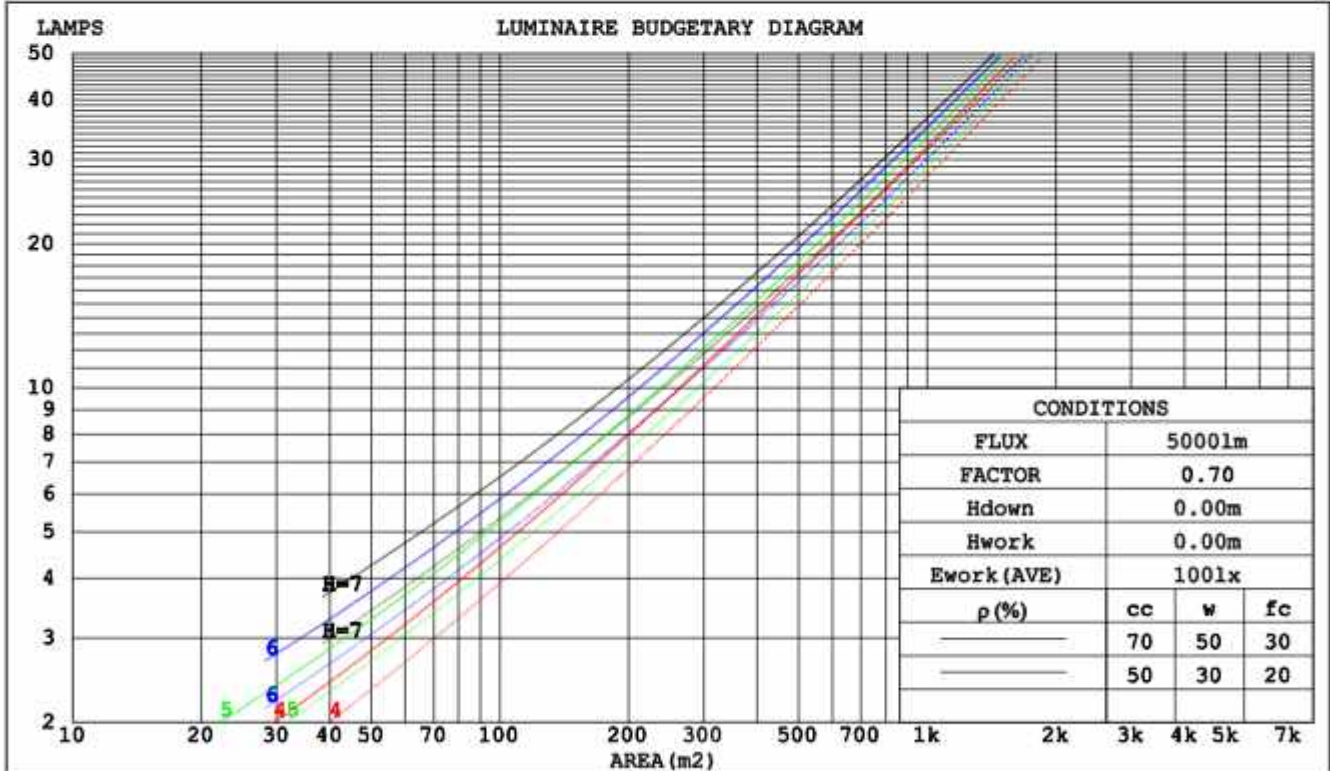
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4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	1.15	1.15	1.15	1.13	1.13	1.13	1.07	1.07	1.07	1.02	1.02	1.02	.97	.97	.97	.95
1.0	1.03	.90	.96	1.01	.98	.95	.96	.94	.91	.92	.90	.88	.88	.87	.85	.83
2.0	.92	.86	.81	.90	.85	.80	.86	.82	.78	.83	.79	.76	.79	.76	.74	.72
3.0	.82	.75	.69	.80	.74	.69	.77	.72	.67	.74	.70	.66	.72	.68	.64	.62
4.0	.73	.66	.60	.72	.65	.59	.69	.63	.58	.67	.62	.57	.65	.60	.56	.54
5.0	.66	.58	.52	.65	.58	.52	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.52	.46	.57	.51	.46	.55	.50	.45	.54	.49	.44	.43
7.0	.55	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.49	.44	.40	.38
8.0	.50	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.39	.34	.46	.39	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31
10.0	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	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	.254	.145	.046	.247	.141	.045	.233	.134	.043	.220	.127	.041	.208	.121	.039	
2.0	.244	.134	.041	.238	.131	.040	.226	.125	.039	.214	.120	.038	.204	.115	.036	
3.0	.230	.123	.037	.225	.120	.036	.214	.116	.035	.204	.112	.034	.195	.108	.033	
4.0	.216	.112	.033	.211	.110	.033	.201	.107	.032	.193	.103	.031	.184	.100	.030	
5.0	.203	.103	.030	.198	.102	.030	.189	.099	.029	.181	.096	.028	.174	.093	.028	
6.0	.190	.095	.027	.186	.094	.027	.178	.091	.027	.171	.089	.026	.164	.086	.026	
7.0	.178	.088	.025	.175	.087	.025	.168	.085	.024	.161	.083	.024	.155	.081	.024	
8.0	.168	.082	.023	.165	.081	.023	.158	.079	.023	.153	.077	.022	.147	.075	.022	
9.0	.158	.077	.021	.155	.076	.021	.150	.074	.021	.144	.072	.021	.139	.071	.020	
10.0	.150	.072	.020	.147	.071	.020	.142	.070	.020	.137	.068	.019	.133	.067	.019	

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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.190	.170	.153	.163	.146	.131	.111	.101	.091	.064	.058	.053	.021	.019	.017	
2.0	.181	.147	.118	.155	.126	.102	.106	.087	.071	.061	.051	.042	.020	.016	.014	
3.0	.172	.129	.095	.148	.112	.082	.101	.077	.058	.058	.045	.034	.019	.015	.011	
4.0	.164	.116	.079	.141	.100	.069	.097	.070	.048	.056	.041	.029	.018	.013	.009	
5.0	.157	.106	.067	.135	.091	.059	.093	.064	.041	.054	.037	.025	.017	.012	.008	
6.0	.151	.097	.059	.130	.084	.051	.089	.059	.036	.052	.035	.022	.017	.011	.007	
7.0	.144	.091	.053	.124	.078	.046	.086	.055	.033	.050	.032	.019	.016	.011	.006	
8.0	.139	.085	.048	.119	.074	.042	.083	.052	.030	.048	.030	.018	.016	.010	.006	
9.0	.133	.080	.044	.115	.070	.039	.079	.049	.027	.046	.029	.016	.015	.009	.005	
10.0	.128	.076	.041	.110	.066	.036	.077	.046	.026	.045	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm										
NAME: 4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	14.1	15.4	14.4	15.7	15.9	15.1	16.4	15.4	16.7	16.9
3H	14.3	15.6	14.6	15.8	16.1	15.1	16.3	15.4	16.5	16.8
4H	14.4	15.5	14.7	15.8	16.1	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.7	15.8	16.1	14.9	16.0	15.3	16.3	16.7
8H	14.4	15.4	14.7	15.7	16.1	15.0	16.0	15.3	16.3	16.7
12H	14.3	15.3	14.7	15.7	16.0	15.0	16.0	15.3	16.3	16.6
4H 2H	14.3	15.5	14.6	15.7	16.0	15.1	16.3	15.5	16.6	16.9
3H	14.6	15.6	14.9	15.9	16.2	15.1	16.1	15.5	16.5	16.8
4H	14.6	15.6	15.0	15.9	16.3	15.1	16.0	15.5	16.3	16.7
6H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.2	15.9	16.3	15.2	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.3	15.0	15.7	16.1	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.3	15.2	15.8	16.2	15.1	15.7	15.6	16.1	16.6
8H	14.7	15.3	15.2	15.8	16.2	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.2	15.3	15.7	16.3	15.3	15.8	15.8	16.3	16.8
12H 4H	14.5	15.2	15.0	15.6	16.1	15.0	15.6	15.4	16.1	16.5
6H	14.7	15.2	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.8	15.2	15.3	15.7	16.2	15.2	15.7	15.7	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.6				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

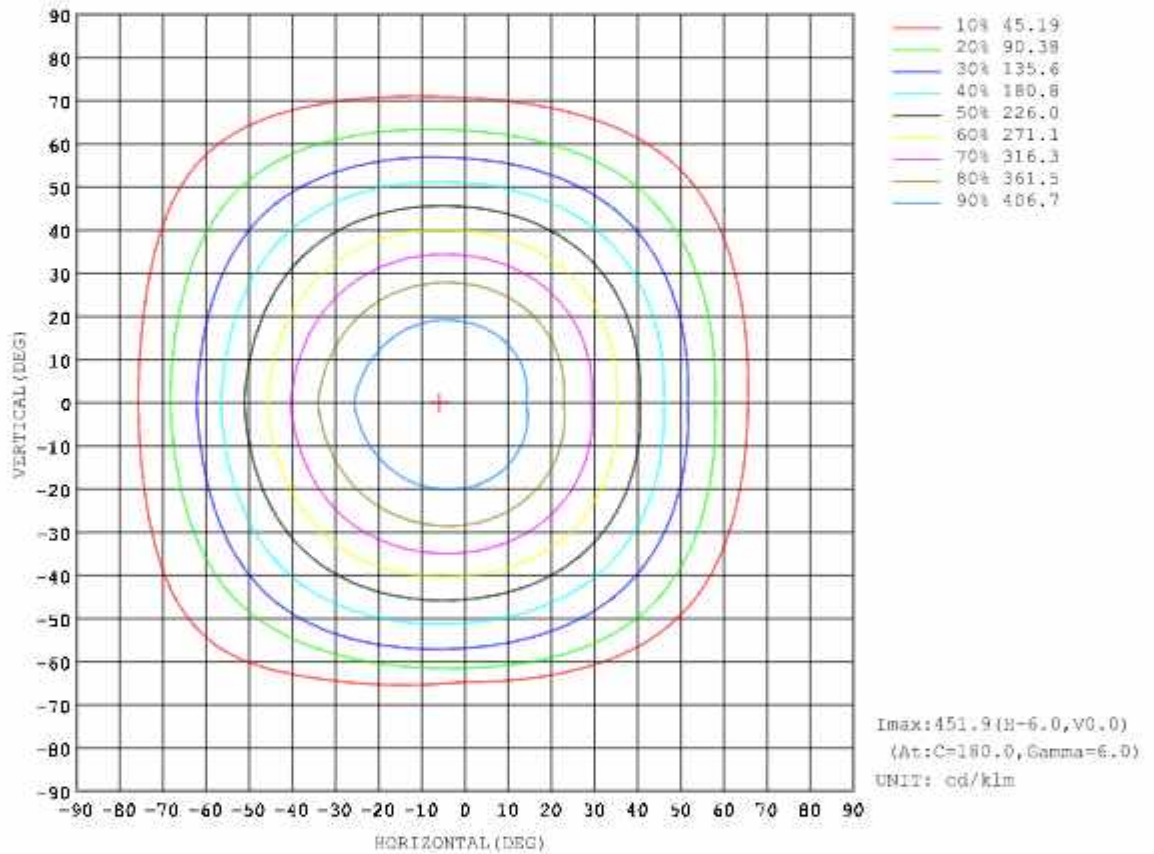
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	51	45	60	51	45	59	50	44	39
0.80	71	61	55	70	61	54	68	60	54	48
1.00	79	70	63	78	69	63	76	70	63	56
1.25	86	77	71	84	76	70	82	75	69	63
1.50	90	82	76	89	81	76	86	79	74	68
2.00	96	89	84	94	88	83	91	85	81	74
2.50	99	93	88	97	91	87	93	89	85	77
3.00	102	96	92	100	95	91	96	92	88	80
4.00	105	100	97	103	99	95	98	95	92	83
5.00	107	103	100	105	101	98	100	97	95	85
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

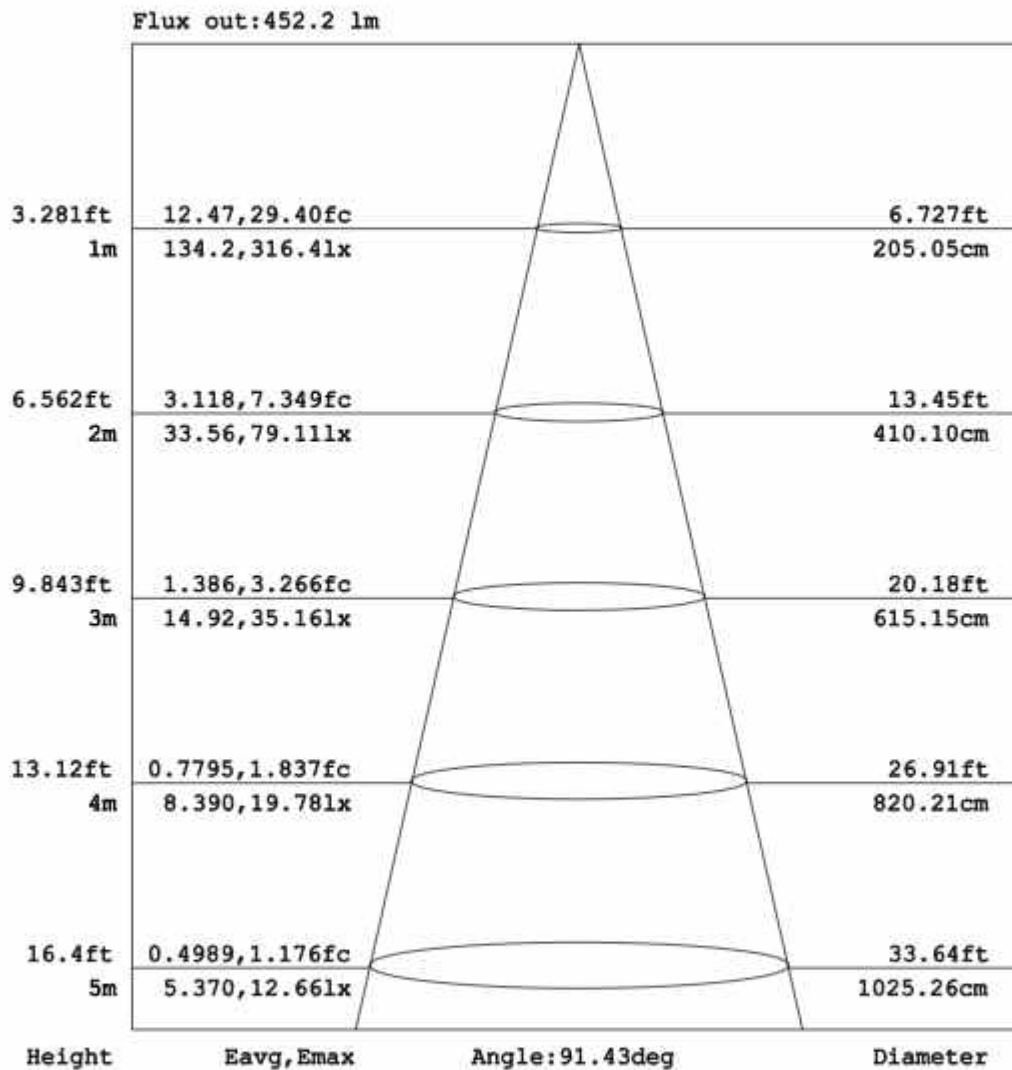


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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 Figure

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



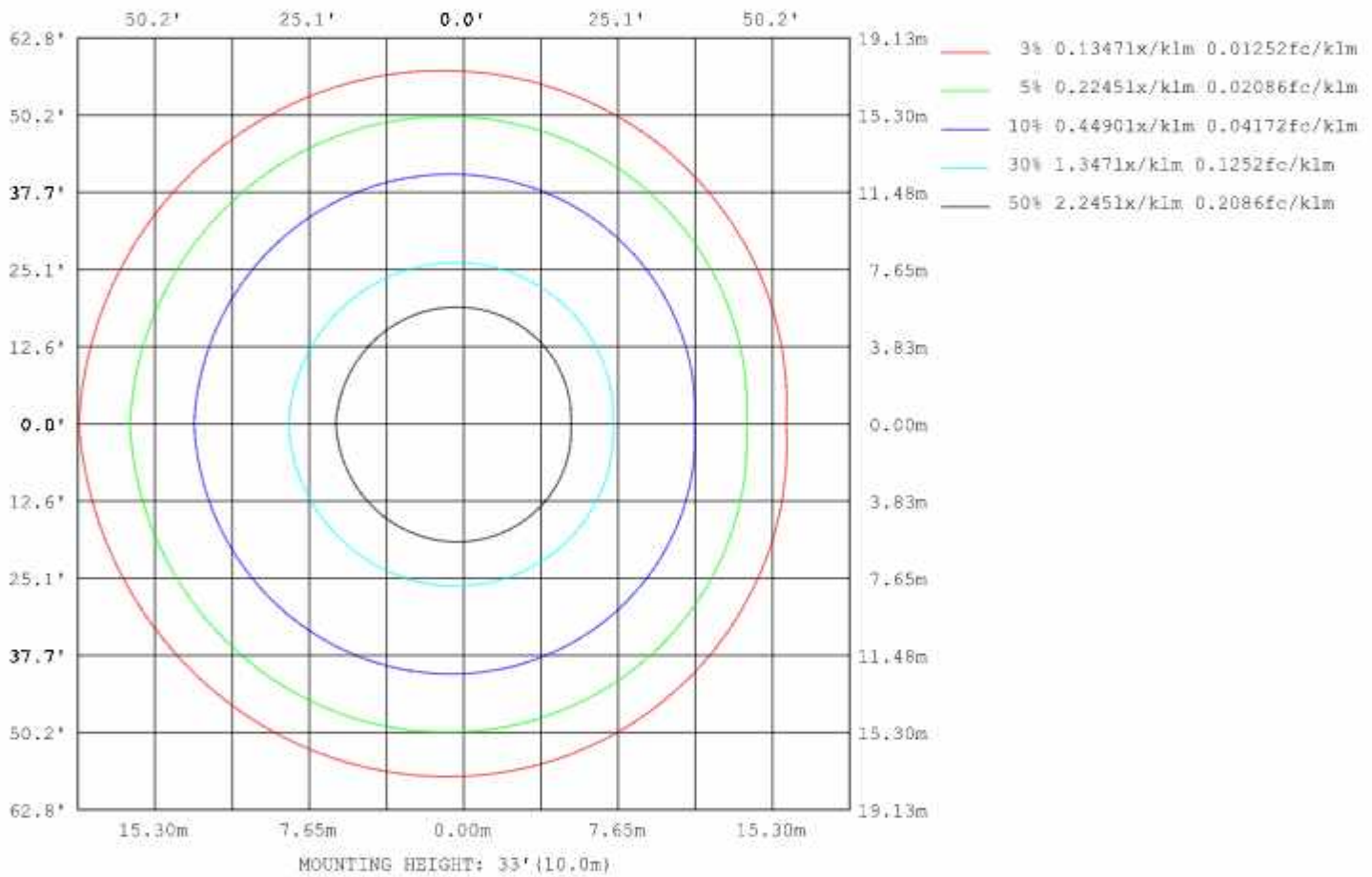
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

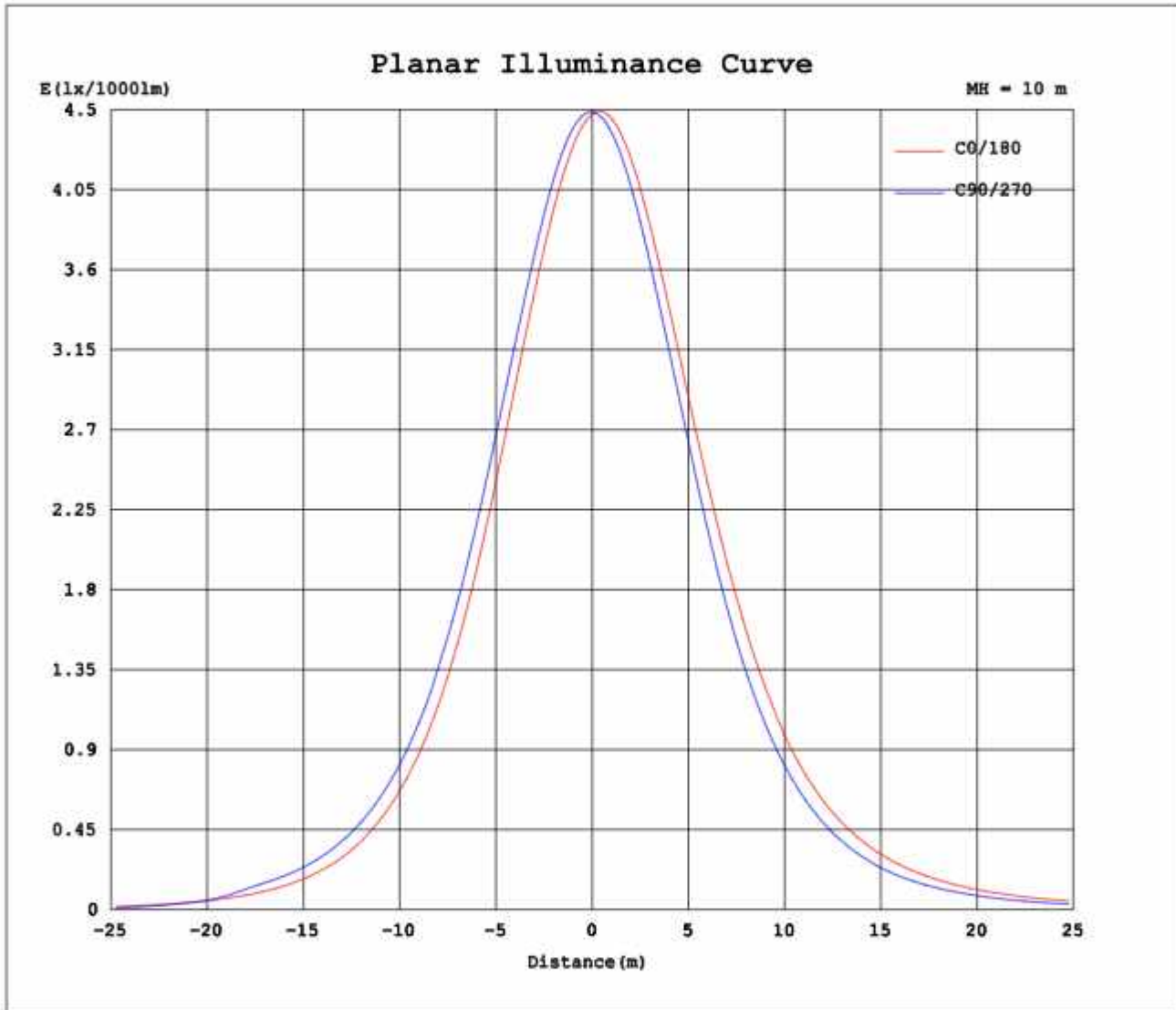
Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0540A P:6.440W PF:0.9830 Lamp Flux:704.665x1 lm		
NAME: 4寸商照	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	447	449	447	449															
5	438	447	452	445															
10	423	439	450	436															
15	403	425	442	421															
20	378	406	429	401															
25	347	382	410	376															
30	311	351	386	346															
35	272	314	356	309															
40	230	272	320	270															
45	189	231	277	229															
50	149	190	236	188															
55	111	150	193	149															
60	76.9	113	153	111															
65	47.9	42.6	114	78.0															
70	26.8	9.60	79.3	48.7															
75	16.7	6.62	49.1	25.4															
80	9.03	10.9	26.6	7.87															
85	4.06	6.95	15.5	5.40															
90	4.02	4.00	7.50	1.68															
95	4.02	3.99	1.59	1.80															
100	4.02	3.99	1.75	1.97															
105	4.03	4.00	1.93	2.18															
110	4.07	4.04	2.12	2.41															
115	4.14	4.09	2.34	2.64															
120	4.23	4.18	2.57	2.89															
125	4.32	4.29	2.81	3.18															
130	4.41	4.41	3.05	3.46															
135	4.53	4.54	3.29	3.72															
140	4.62	4.66	3.53	3.95															
145	4.76	4.80	3.77	4.12															
150	4.90	4.92	4.02	4.35															
155	5.00	5.07	4.27	4.57															
160	5.15	5.21	4.53	4.78															
165	5.29	5.33	4.81	5.00															
170	5.39	5.44	5.06	5.21															
175	5.44	5.47	5.27	5.34															
180	5.44	5.45	5.43	5.44															

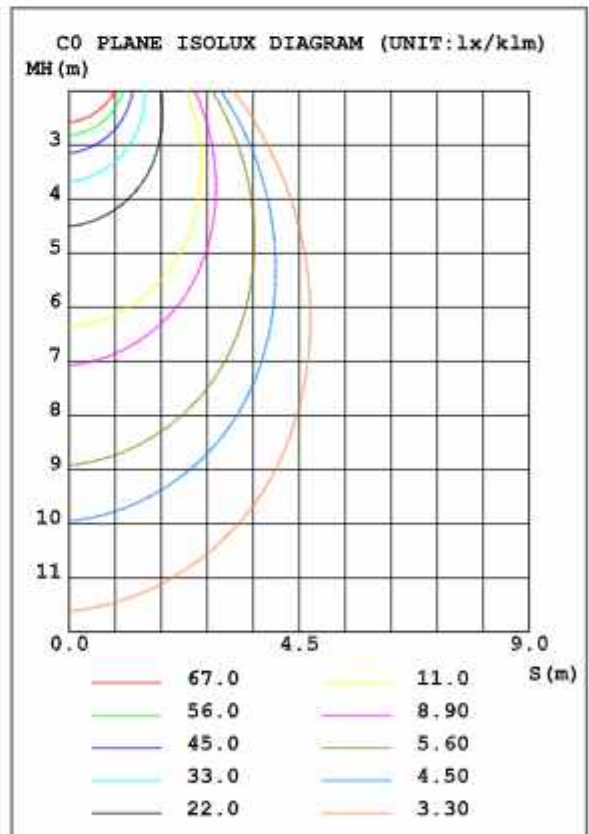
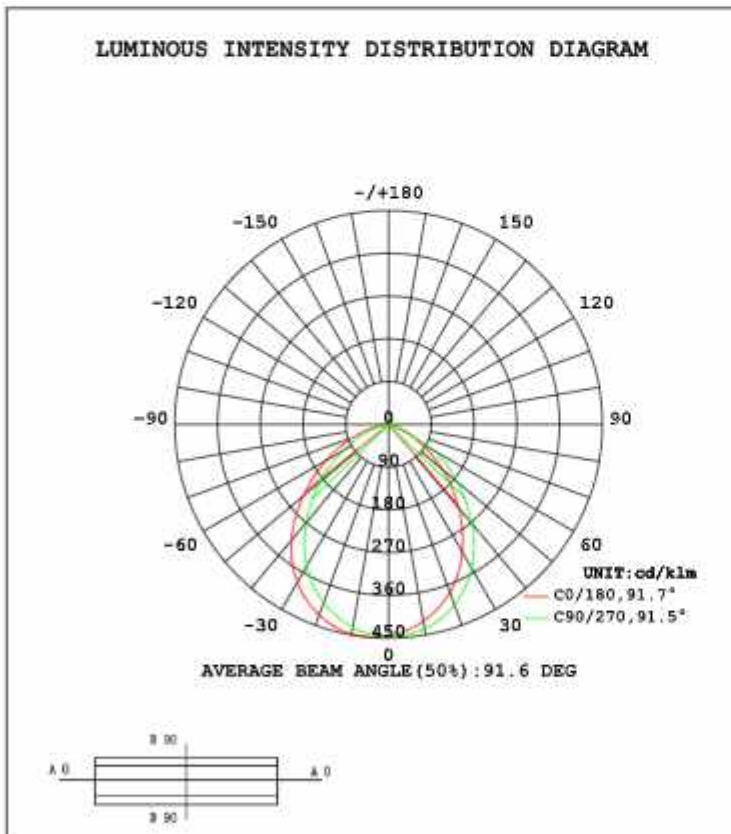
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.11 lm/W			
MODEL	6W-3000K	I _{max} (cd/klm)	449.9	S/MH (C0/180)	1.07
NOMINAL POWER (W)	6	LOR (%)	97.2	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	971.75	η UP, DN (C0-180)	1.4, 42.6
NOMINAL FLUX (lm)	725.192	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 52.3
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	94.9	CIBSE SHR MAX	1.30



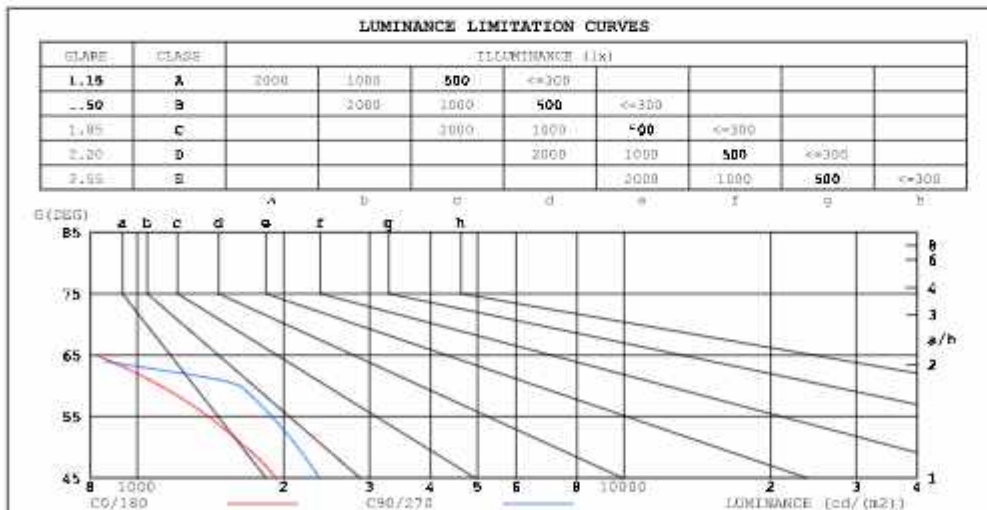
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp
10	420.9	437.3	448.2	433.8				0- 10	42.06	42.06	4.33, 4.21
20	376.9	404.6	427.3	399.7				10- 20	118.7	160.7	16.5, 16.1
30	310.0	350.0	384.2	344.7				20- 30	173.5	334.2	34.4, 33.4
40	229.5	271.7	318.3	269.7				30- 40	194.5	528.7	54.4, 52.9
50	148.2	189.1	234.7	188.2				40- 50	178.2	706.9	72.7, 70.7
60	76.86	112.2	152.5	111.2				50- 60	134.5	841.4	86.6, 84.1
70	26.77	9.539	79.41	48.46				60- 70	71.85	913.3	94, 91.3
80	8.960	10.87	26.69	7.837				70- 80	26.60	939.9	96.7, 94
90	3.977	4.335	7.467	1.649				80- 90	8.895	948.8	97.6, 94.9
100	3.985	3.947	1.724	1.963				90-100	3.465	952.2	98, 95.2
110	4.036	3.986	2.087	2.376				100-110	3.173	955.4	98.3, 95.5
120	4.178	4.128	2.519	2.873				110-120	3.241	958.7	98.7, 95.9
130	4.371	4.357	2.993	3.438				120-130	3.230	961.9	99, 96.2
140	4.578	4.592	3.480	3.912				130-140	3.066	965.0	99.3, 96.5
150	4.821	4.872	3.953	4.325				140-150	2.708	967.7	99.6, 96.8
160	5.088	5.144	4.478	4.767				150-160	2.160	969.8	99.8, 97
170	5.345	5.369	5.001	5.157				160-170	1.426	971.2	99.9, 97.1
180	5.373	5.401	5.364	5.428				170-180	0.5052	971.8	100, 97.2
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	332	574
80	374	454
75	466	184
70	568	202
65	822	724
60	1115	1627
55	1398	1890
50	1672	2134
45	1932	2364

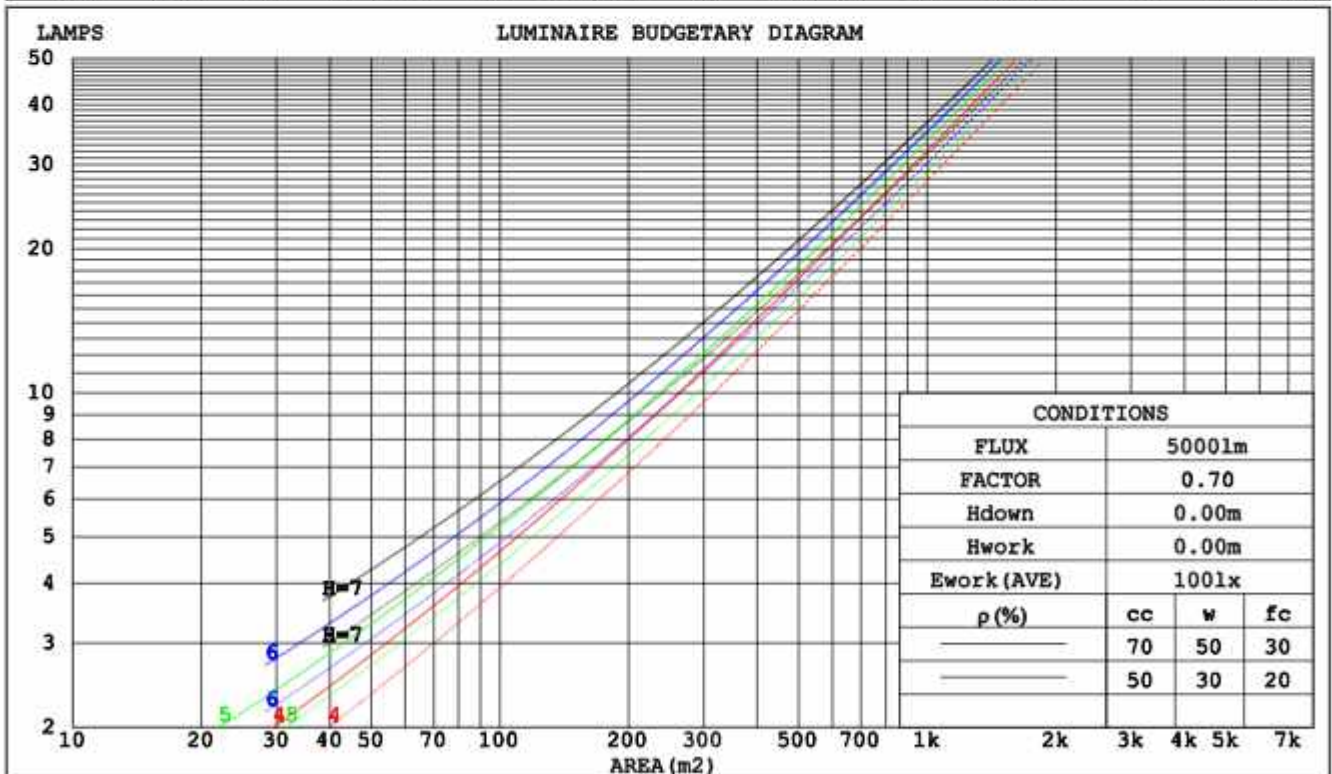
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	.97	.97	.97	.95
1.0	1.03	.99	.96	1.00	.97	.94	.96	.93	.91	.92	.90	.88	.88	.86	.85	.83
2.0	.91	.86	.81	.90	.84	.80	.86	.81	.78	.82	.79	.76	.79	.76	.74	.72
3.0	.82	.75	.69	.80	.74	.68	.77	.71	.67	.74	.69	.65	.71	.67	.64	.62
4.0	.73	.66	.60	.72	.65	.59	.69	.63	.58	.67	.61	.57	.64	.60	.56	.54
5.0	.66	.58	.52	.65	.57	.52	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.54	.48	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.52	.46	.41	.51	.45	.40	.49	.44	.40	.38
8.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.36	.45	.40	.36	.34
9.0	.46	.39	.34	.46	.38	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31
10.0	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	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	.254	.144	.046	.246	.140	.045	.232	.133	.043	.219	.127	.041	.208	.120	.039	
2.0	.244	.134	.041	.237	.131	.040	.225	.125	.039	.214	.120	.038	.203	.115	.036	
3.0	.230	.122	.037	.224	.120	.036	.213	.116	.035	.203	.111	.034	.194	.107	.033	
4.0	.216	.112	.033	.210	.110	.033	.201	.107	.032	.192	.103	.031	.184	.100	.030	
5.0	.202	.103	.030	.197	.101	.030	.189	.098	.029	.181	.095	.028	.174	.093	.028	
6.0	.189	.095	.027	.185	.094	.027	.178	.091	.026	.171	.089	.026	.164	.086	.026	
7.0	.178	.088	.025	.174	.087	.025	.167	.085	.024	.161	.083	.024	.155	.080	.024	
8.0	.167	.082	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	.147	.075	.022	
9.0	.158	.076	.021	.155	.076	.021	.149	.074	.021	.144	.072	.021	.139	.071	.020	
10.0	.149	.072	.020	.147	.071	.020	.142	.069	.020	.137	.068	.019	.132	.066	.019	

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	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.190	.170	.152	.162	.146	.131	.111	.100	.090	.064	.058	.053	.020	.019	.017	
2.0	.180	.146	.118	.154	.126	.102	.106	.087	.071	.061	.051	.042	.020	.016	.014	
3.0	.171	.129	.095	.147	.111	.082	.101	.077	.058	.058	.045	.034	.019	.015	.011	
4.0	.164	.115	.079	.141	.100	.068	.097	.070	.048	.056	.041	.028	.018	.013	.009	
5.0	.157	.105	.067	.135	.091	.058	.093	.064	.041	.054	.037	.024	.017	.012	.008	
6.0	.150	.097	.059	.129	.084	.051	.089	.059	.036	.052	.035	.022	.017	.011	.007	
7.0	.144	.090	.052	.124	.078	.046	.086	.055	.032	.050	.032	.019	.016	.011	.006	
8.0	.138	.084	.048	.119	.073	.042	.082	.051	.029	.048	.030	.018	.015	.010	.006	
9.0	.133	.080	.044	.114	.069	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
10.0	.128	.076	.041	.110	.066	.036	.076	.046	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm										
NAME: 4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	14.1	15.4	14.4	15.7	15.9	15.1	16.4	15.4	16.7	16.9
3H	14.3	15.6	14.6	15.8	16.1	15.0	16.3	15.4	16.5	16.8
4H	14.4	15.5	14.7	15.8	16.1	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.7	15.8	16.1	14.9	16.0	15.3	16.3	16.6
8H	14.4	15.4	14.7	15.7	16.1	14.9	16.0	15.3	16.3	16.6
12H	14.3	15.3	14.7	15.7	16.0	15.0	16.0	15.3	16.3	16.6
4H 2H	14.3	15.5	14.6	15.7	16.0	15.1	16.3	15.5	16.6	16.9
3H	14.6	15.6	14.9	15.9	16.2	15.1	16.1	15.5	16.5	16.8
4H	14.6	15.5	15.0	15.9	16.3	15.1	16.0	15.5	16.3	16.7
6H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.2	15.9	16.3	15.1	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.3	15.0	15.7	16.1	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.7	15.6	16.1	16.6
8H	14.7	15.3	15.2	15.7	16.2	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.2	15.3	15.7	16.2	15.3	15.8	15.8	16.3	16.8
12H 4H	14.5	15.2	15.0	15.6	16.1	14.9	15.6	15.4	16.0	16.5
6H	14.7	15.2	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.7	15.2	15.3	15.7	16.2	15.2	15.7	15.7	16.1	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.6				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

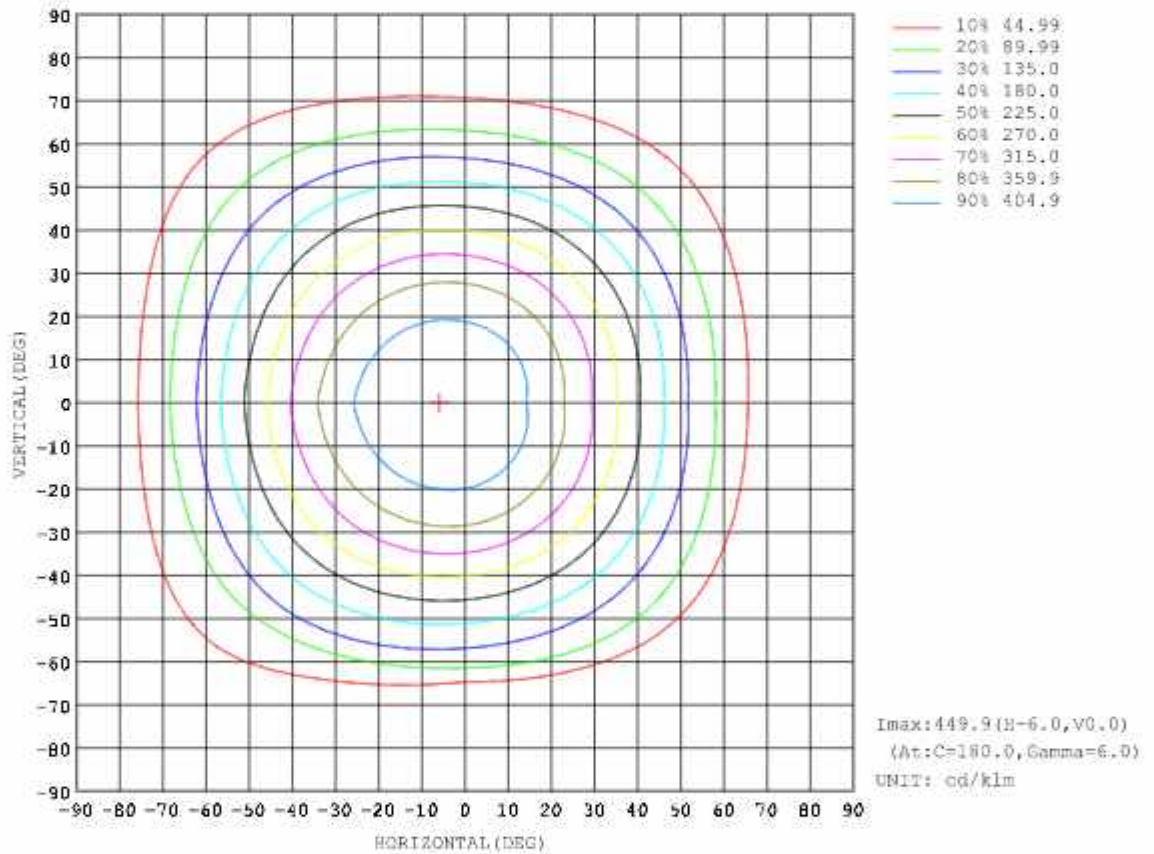
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	51	45	60	50	44	59	50	44	39
0.80	71	61	54	70	60	54	68	60	54	48
1.00	79	69	63	78	69	63	76	70	62	56
1.25	85	77	71	84	76	70	81	74	69	63
1.50	90	82	76	88	81	75	85	79	74	67
2.00	96	89	83	94	87	83	90	85	81	74
2.50	99	92	87	97	91	86	93	88	84	77
3.00	102	96	91	99	94	90	95	91	88	80
4.00	105	100	96	102	98	95	98	95	92	83
5.00	107	103	99	104	101	98	100	97	94	85
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



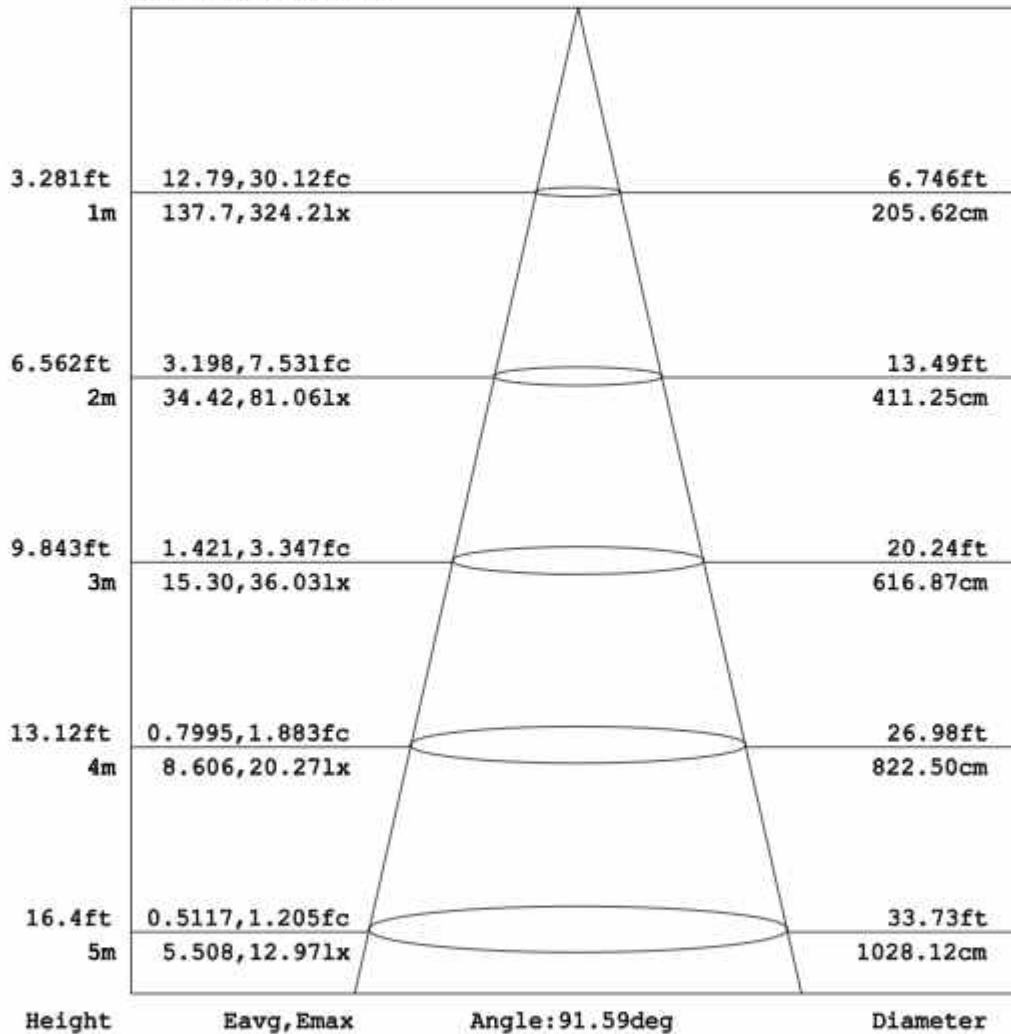
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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 Figure

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:463.9 lm



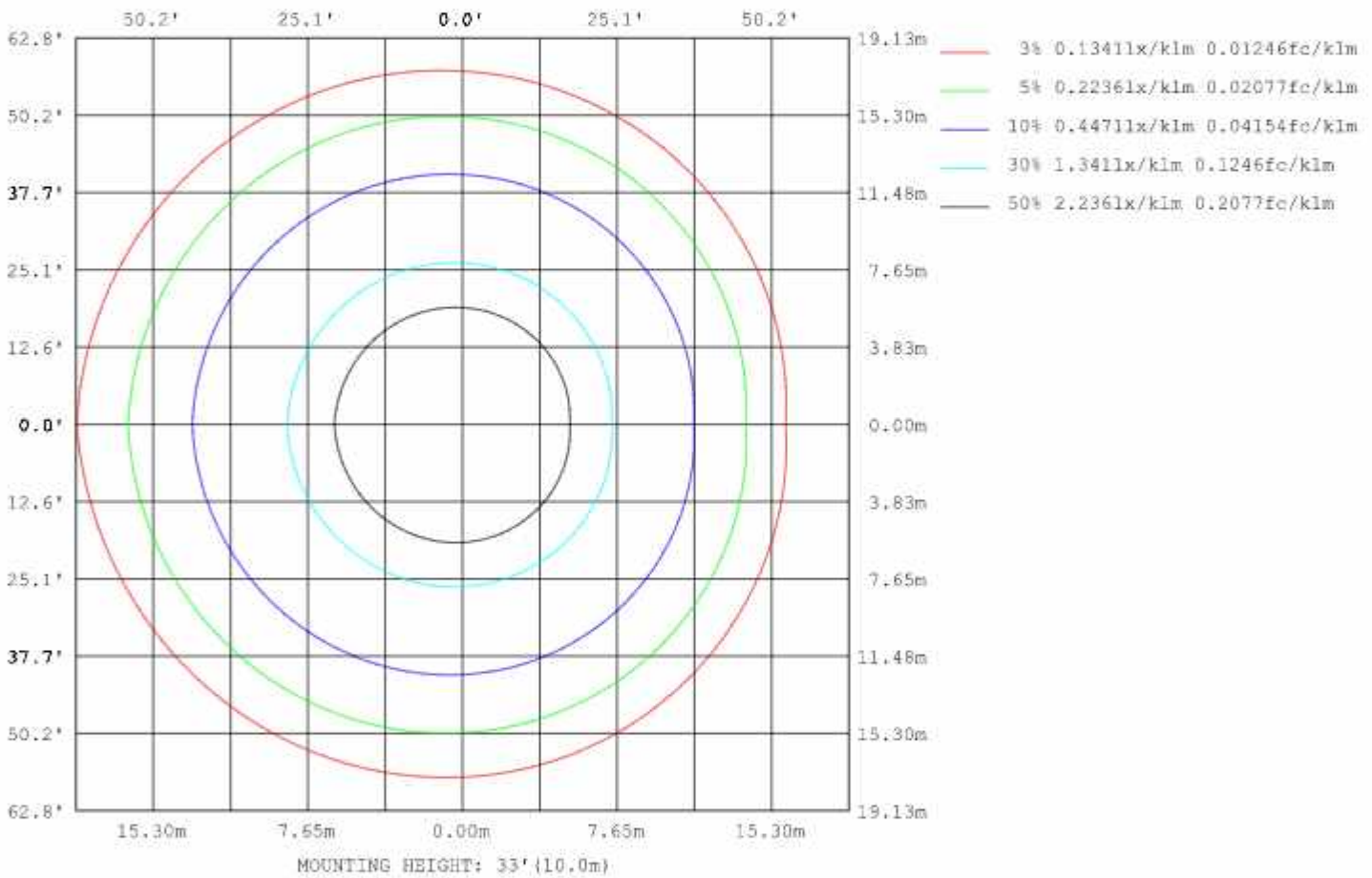
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

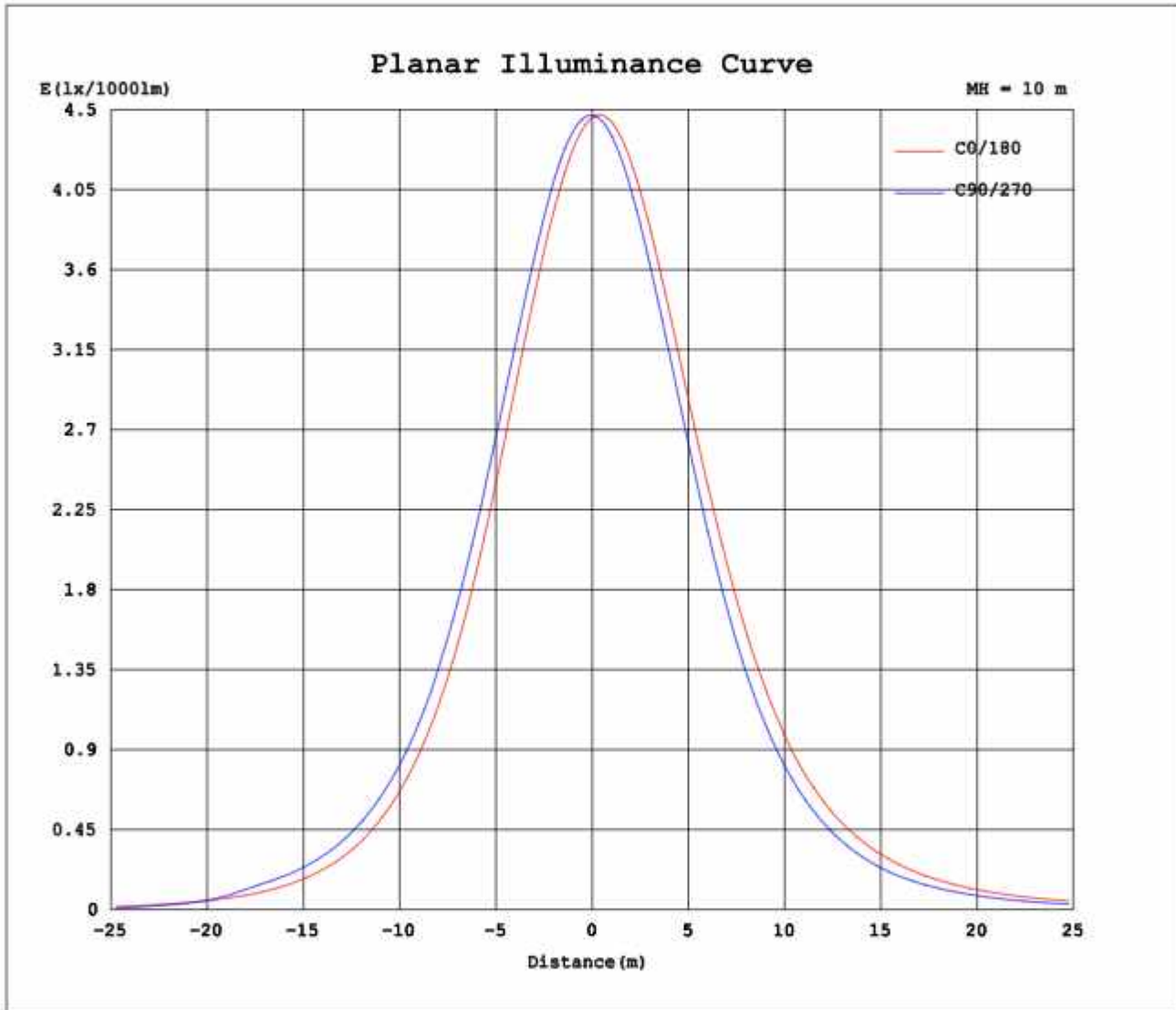
Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	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	446	447	446	447																
5	436	445	450	443																
10	421	437	448	434																
15	401	424	441	419																
20	377	405	427	400																
25	346	380	408	375																
30	310	350	384	345																
35	271	314	354	309																
40	230	272	318	270																
45	188	230	277	229																
50	148	189	235	188																
55	111	149	193	148																
60	76.9	112	152	111																
65	47.9	42.2	114	77.6																
70	26.8	9.54	79.4	48.5																
75	16.6	6.58	49.3	25.2																
80	8.96	10.9	26.7	7.84																
85	3.99	6.89	15.5	5.36																
90	3.98	4.33	7.47	1.65																
95	3.98	4.01	1.56	1.76																
100	3.98	3.95	1.72	1.96																
105	3.99	3.94	1.90	2.15																
110	4.04	3.99	2.09	2.38																
115	4.10	4.05	2.29	2.62																
120	4.18	4.13	2.52	2.87																
125	4.27	4.22	2.76	3.15																
130	4.37	4.36	2.99	3.44																
135	4.48	4.47	3.25	3.68																
140	4.58	4.59	3.48	3.91																
145	4.71	4.73	3.71	4.11																
150	4.82	4.87	3.95	4.33																
155	4.95	5.01	4.21	4.55																
160	5.09	5.14	4.48	4.77																
165	5.22	5.26	4.74	4.97																
170	5.35	5.37	5.00	5.16																
175	5.38	5.43	5.21	5.30																
180	5.37	5.40	5.36	5.43																

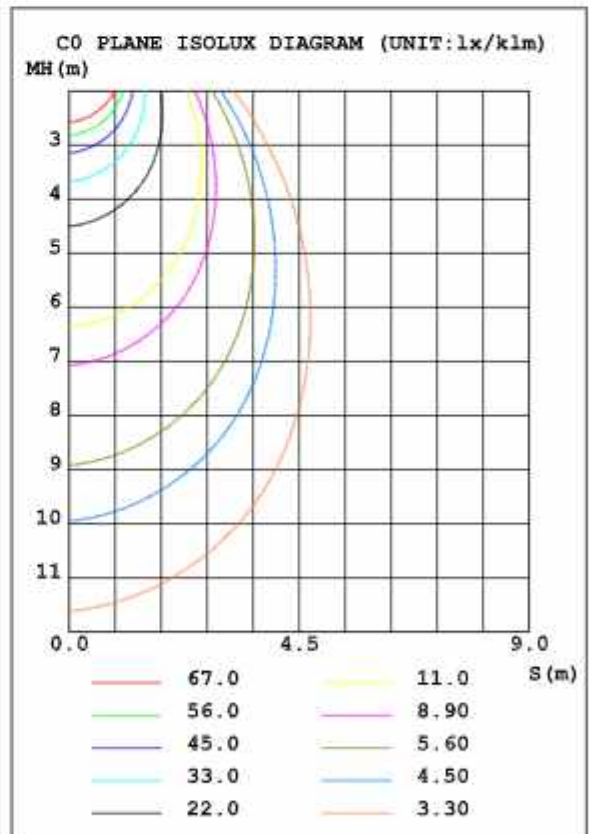
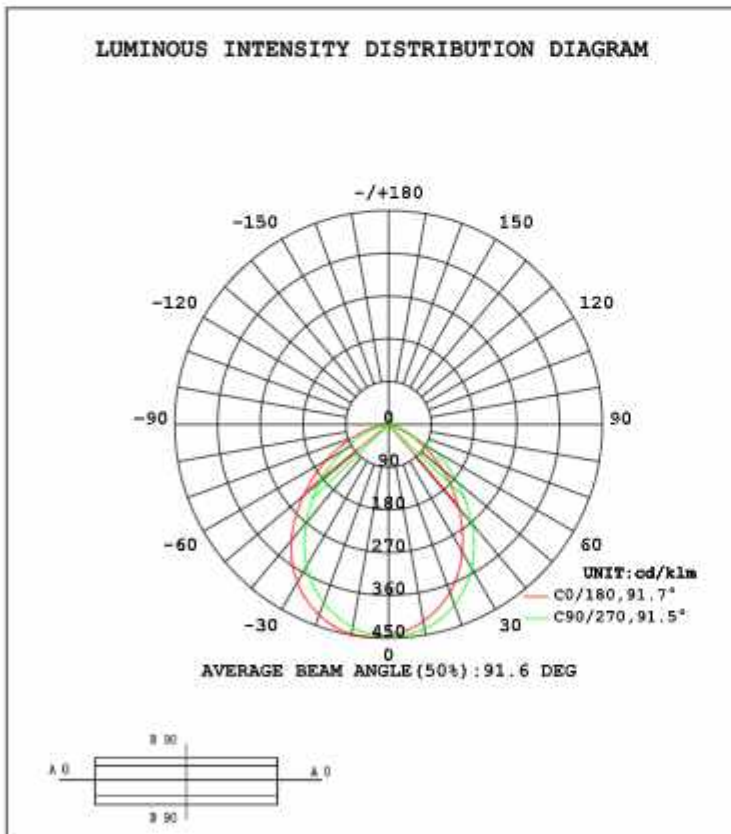
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	6W-3000K	Imax (cd/klm)	449.9	S/MH (C0/180)	1.07
NOMINAL POWER (W)	6	LOR (%)	97.2	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	971.75	η UP, DN (C0-180)	1.4, 42.6
NOMINAL FLUX (lm)	725.192	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 52.3
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	94.9	CIBSE SHR MAX	1.30



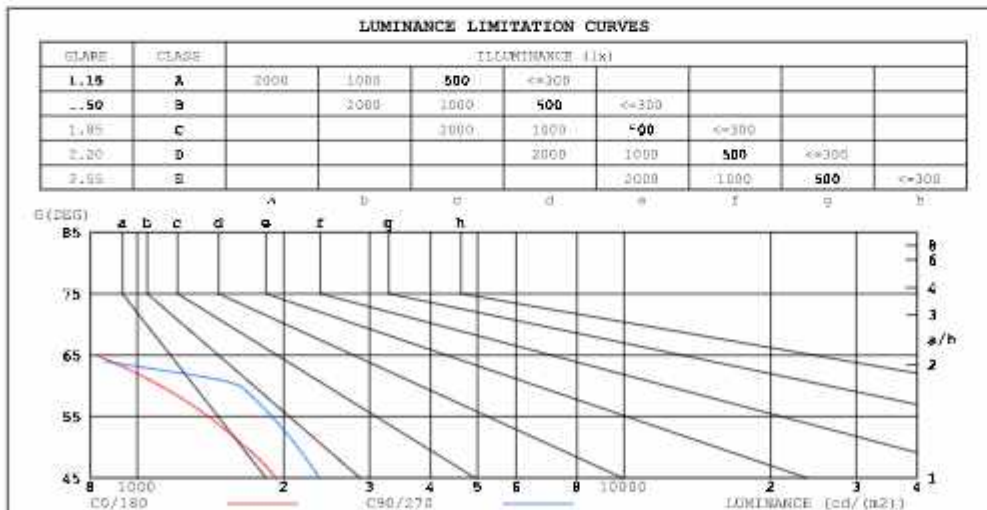
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp
10	420.9	437.3	448.2	433.8				0- 10	42.06	42.06	4.33, 4.21
20	376.9	404.6	427.3	399.7				10- 20	118.7	160.7	16.5, 16.1
30	310.0	350.0	384.2	344.7				20- 30	173.5	334.2	34.4, 33.4
40	229.5	271.7	318.3	269.7				30- 40	194.5	528.7	54.4, 52.9
50	148.2	189.1	234.7	188.2				40- 50	178.2	706.9	72.7, 70.7
60	76.86	112.2	152.5	111.2				50- 60	134.5	841.4	86.6, 84.1
70	26.77	9.539	79.41	48.46				60- 70	71.85	913.3	94, 91.3
80	8.960	10.87	26.69	7.837				70- 80	26.60	939.9	96.7, 94
90	3.977	4.335	7.467	1.649				80- 90	8.895	948.8	97.6, 94.9
100	3.985	3.947	1.724	1.963				90-100	3.465	952.2	98, 95.2
110	4.036	3.986	2.087	2.376				100-110	3.173	955.4	98.3, 95.5
120	4.178	4.128	2.519	2.873				110-120	3.241	958.7	98.7, 95.9
130	4.371	4.357	2.993	3.438				120-130	3.230	961.9	99, 96.2
140	4.578	4.592	3.480	3.912				130-140	3.066	965.0	99.3, 96.5
150	4.821	4.872	3.953	4.325				140-150	2.708	967.7	99.6, 96.8
160	5.088	5.144	4.478	4.767				150-160	2.160	969.8	99.8, 97
170	5.345	5.369	5.001	5.157				160-170	1.426	971.2	99.9, 97.1
180	5.373	5.401	5.364	5.428				170-180	0.5052	971.8	100, 97.2
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd / (m²)		
θ (DEG)	C0/180	C90/270
85	332	574
80	374	454
75	466	184
70	568	202
65	822	724
60	1115	1627
55	1398	1890
50	1672	2134
45	1932	2364

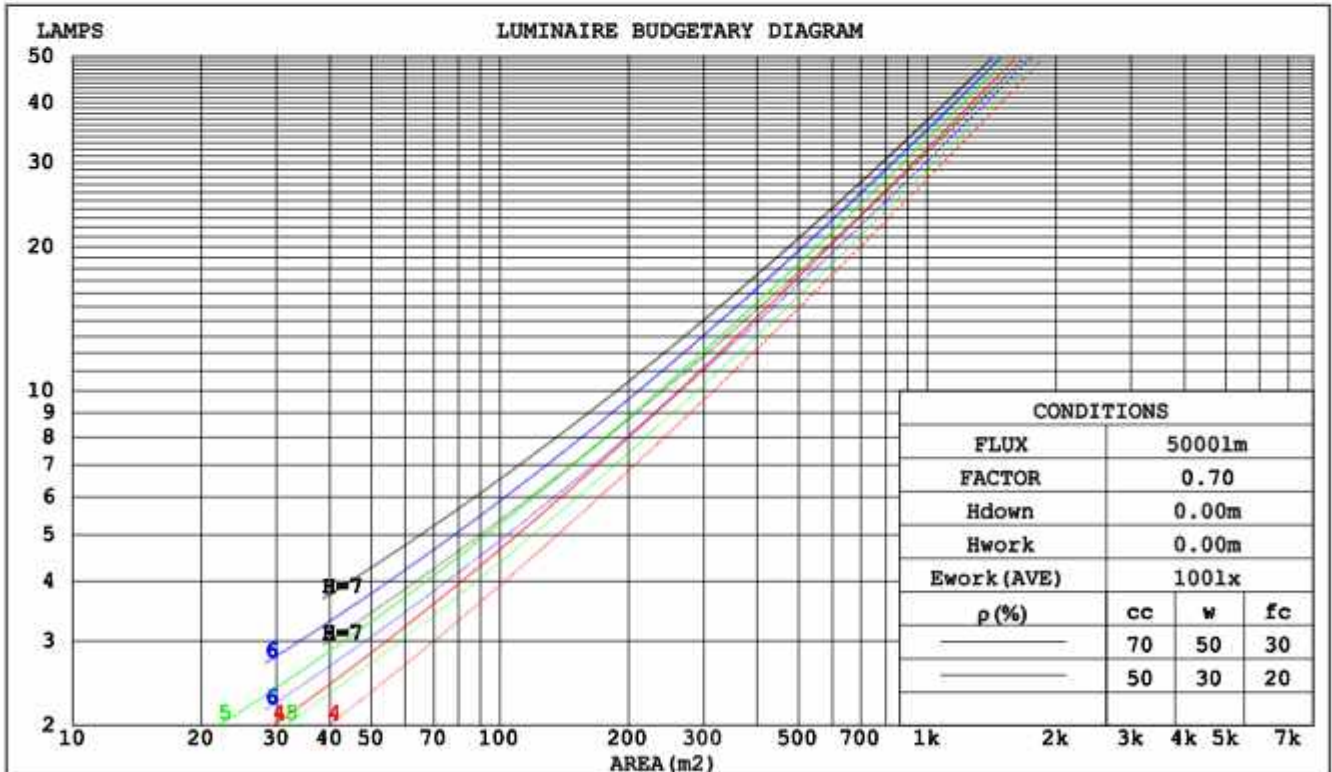
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	.97	.97	.97	.95
1.0	1.03	.99	.96	1.00	.97	.94	.96	.93	.91	.92	.90	.88	.88	.86	.85	.83
2.0	.91	.86	.81	.90	.84	.80	.86	.81	.78	.82	.79	.76	.79	.76	.74	.72
3.0	.82	.75	.69	.80	.74	.68	.77	.71	.67	.74	.69	.65	.71	.67	.64	.62
4.0	.73	.66	.60	.72	.65	.59	.69	.63	.58	.67	.61	.57	.64	.60	.56	.54
5.0	.66	.58	.52	.65	.57	.52	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.54	.48	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.52	.46	.41	.51	.45	.40	.49	.44	.40	.38
8.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.36	.45	.40	.36	.34
9.0	.46	.39	.34	.46	.38	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31
10.0	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	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	.254	.144	.046	.246	.140	.045	.232	.133	.043	.219	.127	.041	.208	.120	.039	
2.0	.244	.134	.041	.237	.131	.040	.225	.125	.039	.214	.120	.038	.203	.115	.036	
3.0	.230	.122	.037	.224	.120	.036	.213	.116	.035	.203	.111	.034	.194	.107	.033	
4.0	.216	.112	.033	.210	.110	.033	.201	.107	.032	.192	.103	.031	.184	.100	.030	
5.0	.202	.103	.030	.197	.101	.030	.189	.098	.029	.181	.095	.028	.174	.093	.028	
6.0	.189	.095	.027	.185	.094	.027	.178	.091	.026	.171	.089	.026	.164	.086	.026	
7.0	.178	.088	.025	.174	.087	.025	.167	.085	.024	.161	.083	.024	.155	.080	.024	
8.0	.167	.082	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	.147	.075	.022	
9.0	.158	.076	.021	.155	.076	.021	.149	.074	.021	.144	.072	.021	.139	.071	.020	
10.0	.149	.072	.020	.147	.071	.020	.142	.069	.020	.137	.068	.019	.132	.066	.019	

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	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.190	.170	.152	.162	.146	.131	.111	.100	.090	.064	.058	.053	.020	.019	.017	
2.0	.180	.146	.118	.154	.126	.102	.106	.087	.071	.061	.051	.042	.020	.016	.014	
3.0	.171	.129	.095	.147	.111	.082	.101	.077	.058	.058	.045	.034	.019	.015	.011	
4.0	.164	.115	.079	.141	.100	.068	.097	.070	.048	.056	.041	.028	.018	.013	.009	
5.0	.157	.105	.067	.135	.091	.058	.093	.064	.041	.054	.037	.024	.017	.012	.008	
6.0	.150	.097	.059	.129	.084	.051	.089	.059	.036	.052	.035	.022	.017	.011	.007	
7.0	.144	.090	.052	.124	.078	.046	.086	.055	.032	.050	.032	.019	.016	.011	.006	
8.0	.138	.084	.048	.119	.073	.042	.082	.051	.029	.048	.030	.018	.015	.010	.006	
9.0	.133	.080	.044	.114	.069	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
10.0	.128	.076	.041	.110	.066	.036	.076	.046	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm										
NAME: 4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	14.1	15.4	14.4	15.7	15.9	15.1	16.4	15.4	16.7	16.9
3H	14.3	15.6	14.6	15.8	16.1	15.0	16.3	15.4	16.5	16.8
4H	14.4	15.5	14.7	15.8	16.1	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.7	15.8	16.1	14.9	16.0	15.3	16.3	16.6
8H	14.4	15.4	14.7	15.7	16.1	14.9	16.0	15.3	16.3	16.6
12H	14.3	15.3	14.7	15.7	16.0	15.0	16.0	15.3	16.3	16.6
4H 2H	14.3	15.5	14.6	15.7	16.0	15.1	16.3	15.5	16.6	16.9
3H	14.6	15.6	14.9	15.9	16.2	15.1	16.1	15.5	16.5	16.8
4H	14.6	15.5	15.0	15.9	16.3	15.1	16.0	15.5	16.3	16.7
6H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.2	15.9	16.3	15.1	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.3	15.0	15.7	16.1	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.7	15.6	16.1	16.6
8H	14.7	15.3	15.2	15.7	16.2	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.2	15.3	15.7	16.2	15.3	15.8	15.8	16.3	16.8
12H 4H	14.5	15.2	15.0	15.6	16.1	14.9	15.6	15.4	16.0	16.5
6H	14.7	15.2	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.7	15.2	15.3	15.7	16.2	15.2	15.7	15.7	16.1	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.6				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸筒照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

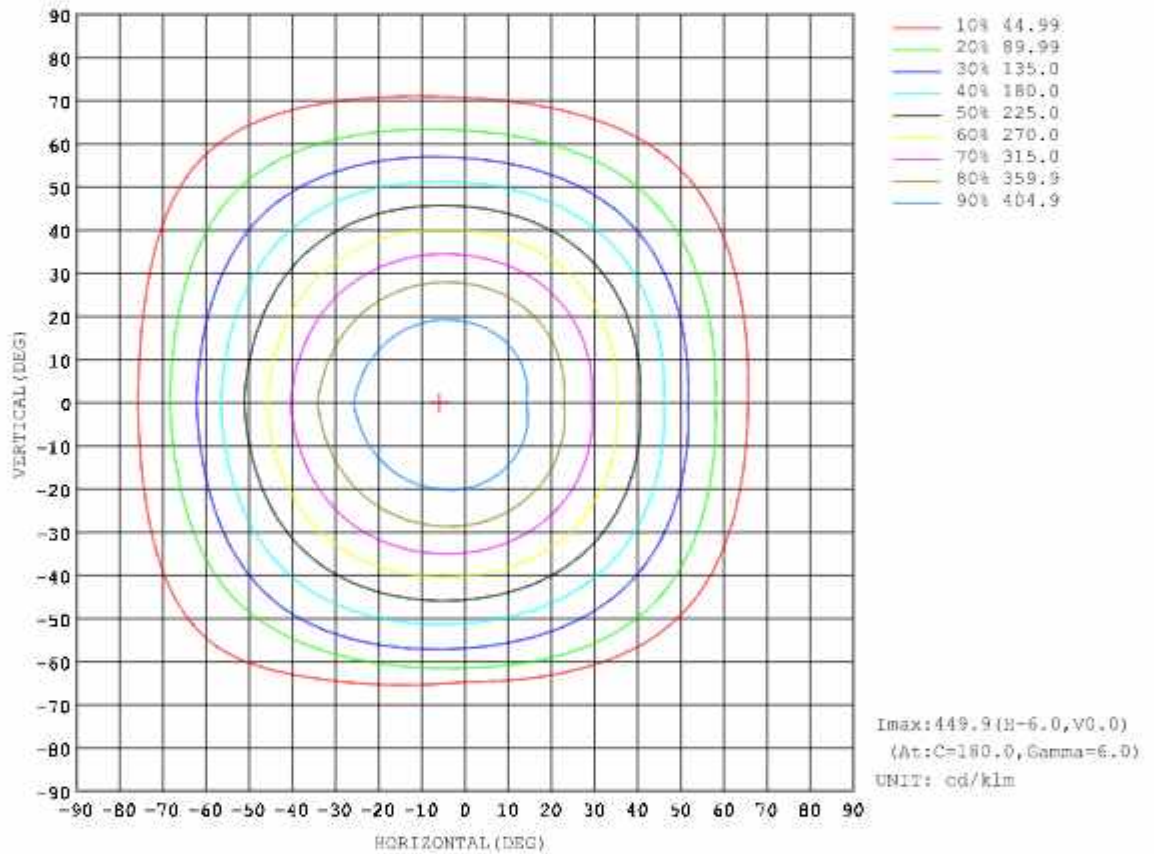
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	51	45	60	50	44	59	50	44	39
0.80	71	61	54	70	60	54	68	60	54	48
1.00	79	69	63	78	69	63	76	70	62	56
1.25	85	77	71	84	76	70	81	74	69	63
1.50	90	82	76	88	81	75	85	79	74	67
2.00	96	89	83	94	87	83	90	85	81	74
2.50	99	92	87	97	91	86	93	88	84	77
3.00	102	96	91	99	94	90	95	91	88	80
4.00	105	100	96	102	98	95	98	95	92	83
5.00	107	103	99	104	101	98	100	97	94	85
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



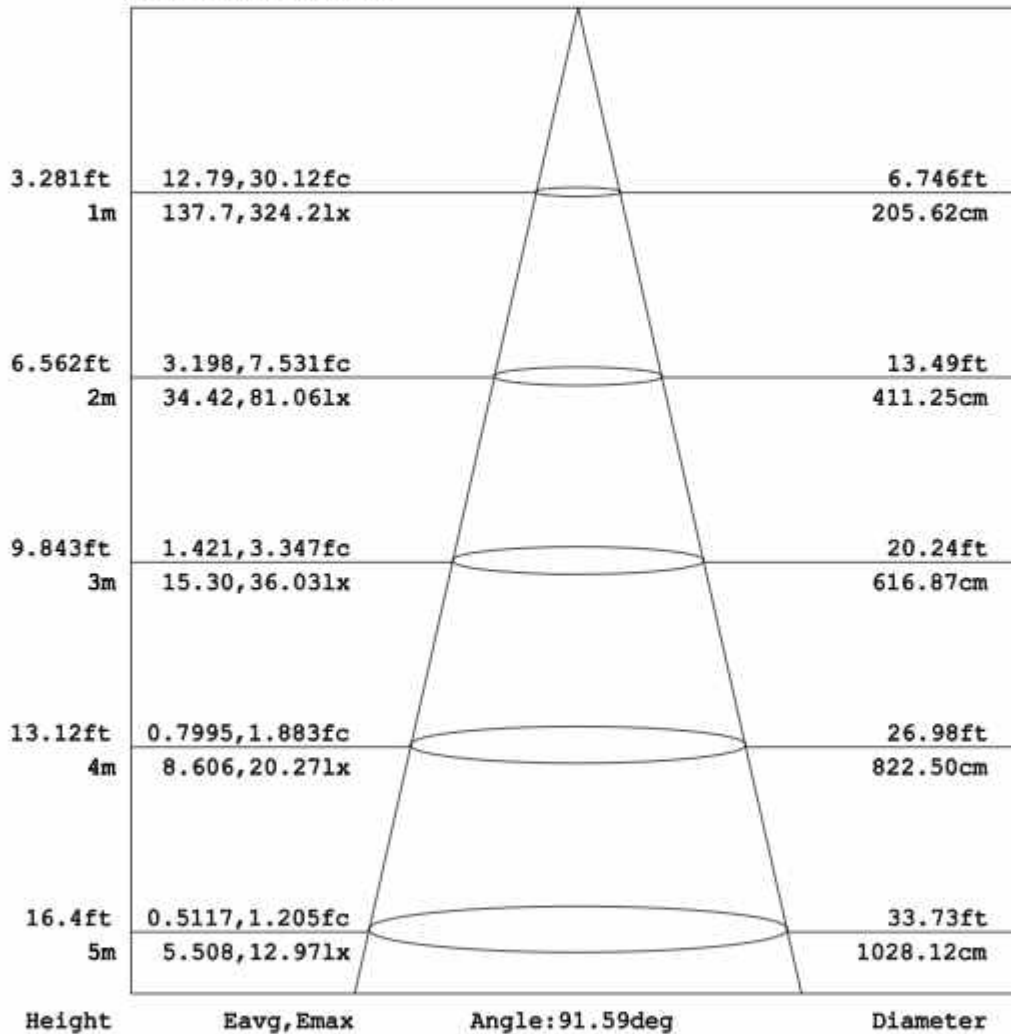
C Range: 0 - 360DEG
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 Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

AAI Figure

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:463.9 lm



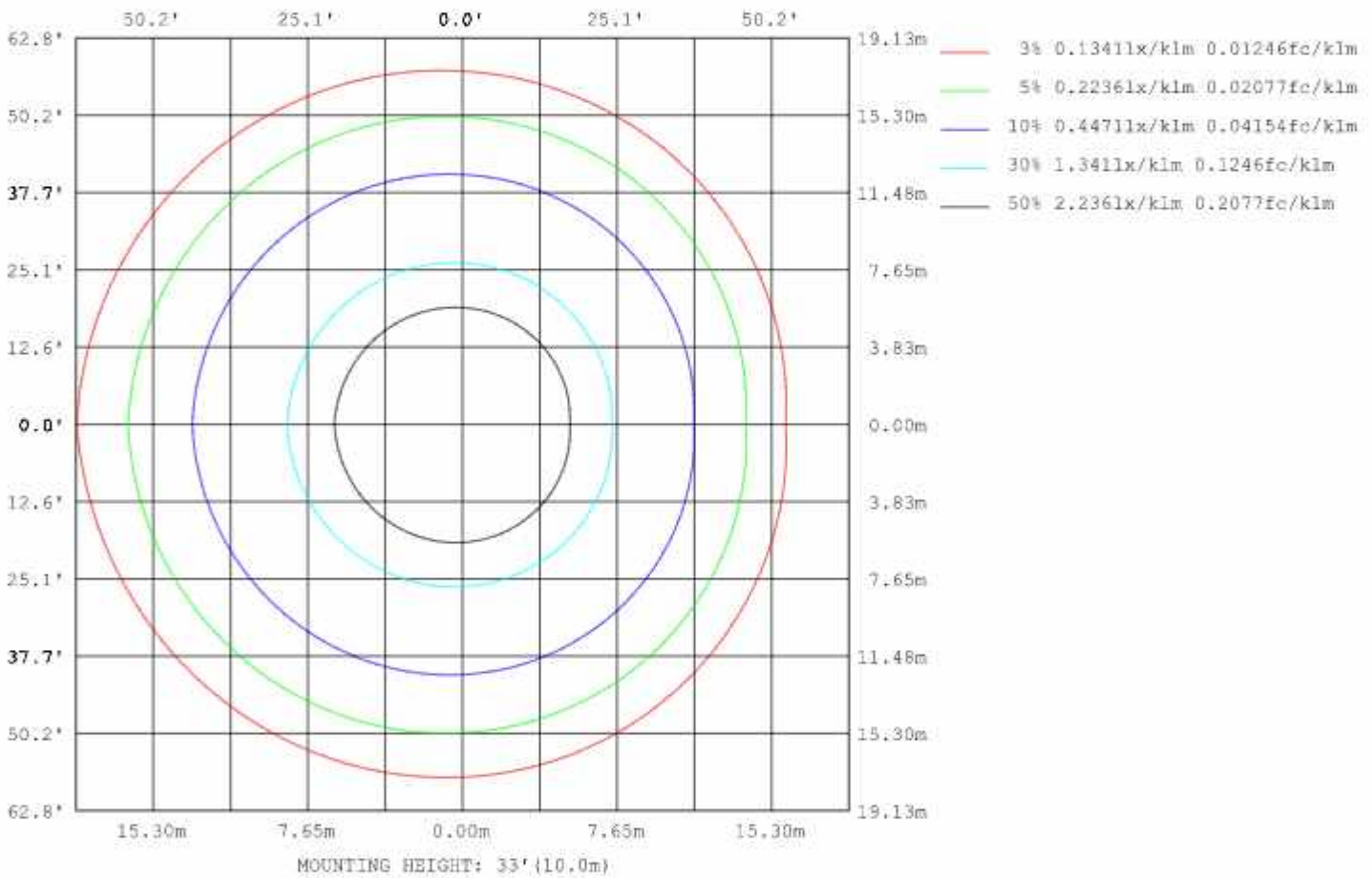
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

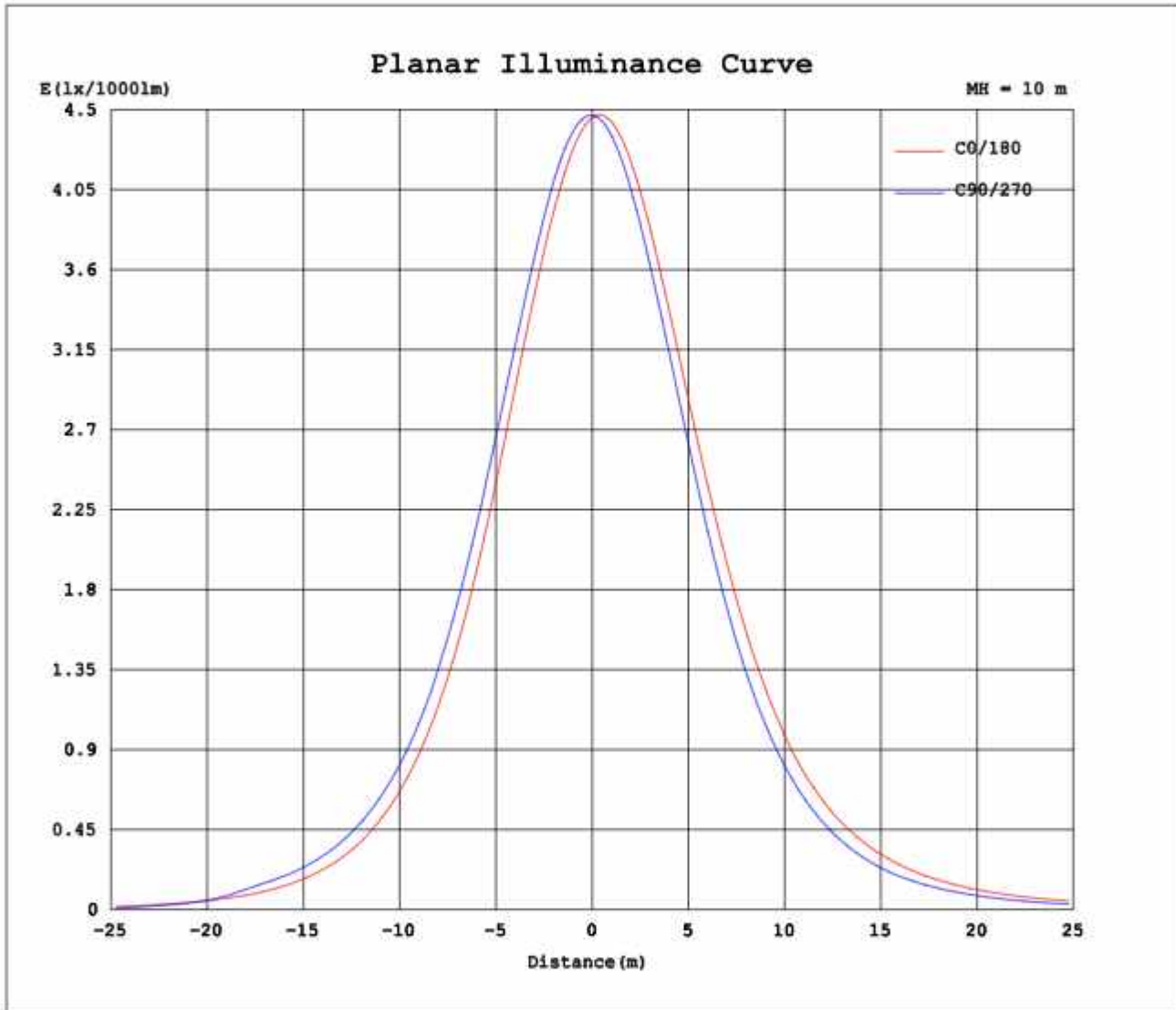
Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0530A P:6.400W PF:0.9830 Lamp Flux:725.192x1 lm		
NAME: 4寸商照	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	446	447	446	447																
5	436	445	450	443																
10	421	437	448	434																
15	401	424	441	419																
20	377	405	427	400																
25	346	380	408	375																
30	310	350	384	345																
35	271	314	354	309																
40	230	272	318	270																
45	188	230	277	229																
50	148	189	235	188																
55	111	149	193	148																
60	76.9	112	152	111																
65	47.9	42.2	114	77.6																
70	26.8	9.54	79.4	48.5																
75	16.6	6.58	49.3	25.2																
80	8.96	10.9	26.7	7.84																
85	3.99	6.89	15.5	5.36																
90	3.98	4.33	7.47	1.65																
95	3.98	4.01	1.56	1.76																
100	3.98	3.95	1.72	1.96																
105	3.99	3.94	1.90	2.15																
110	4.04	3.99	2.09	2.38																
115	4.10	4.05	2.29	2.62																
120	4.18	4.13	2.52	2.87																
125	4.27	4.22	2.76	3.15																
130	4.37	4.36	2.99	3.44																
135	4.48	4.47	3.25	3.68																
140	4.58	4.59	3.48	3.91																
145	4.71	4.73	3.71	4.11																
150	4.82	4.87	3.95	4.33																
155	4.95	5.01	4.21	4.55																
160	5.09	5.14	4.48	4.77																
165	5.22	5.26	4.74	4.97																
170	5.35	5.37	5.00	5.16																
175	5.38	5.43	5.21	5.30																
180	5.37	5.40	5.36	5.43																

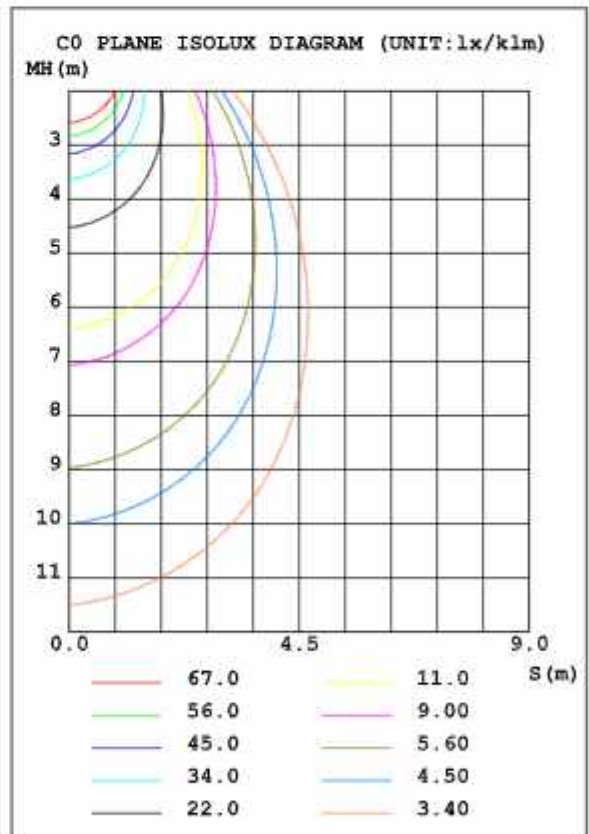
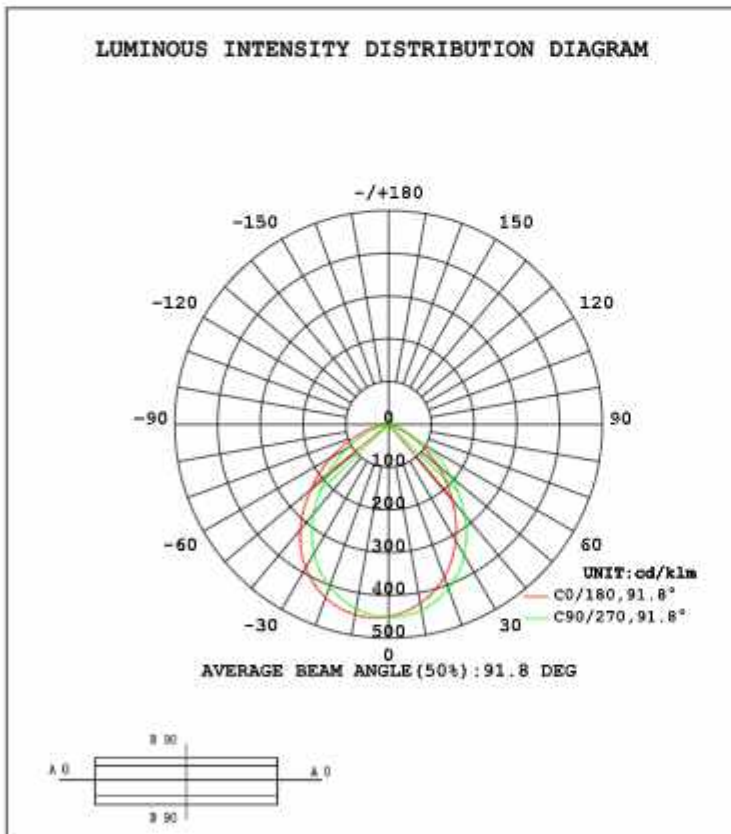
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.10 lm/W			
MODEL	6W-4000K	I _{max} (cd/klm)	454.2	S/MH (C0/180)	1.07
NOMINAL POWER (W)	6	LOR (%)	98.3	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	983.03	η UP, DN (C0-180)	1.4, 43.1
NOMINAL FLUX (lm)	747.578	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 52.9
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	96.0	CIBSE SHR MAX	1.30



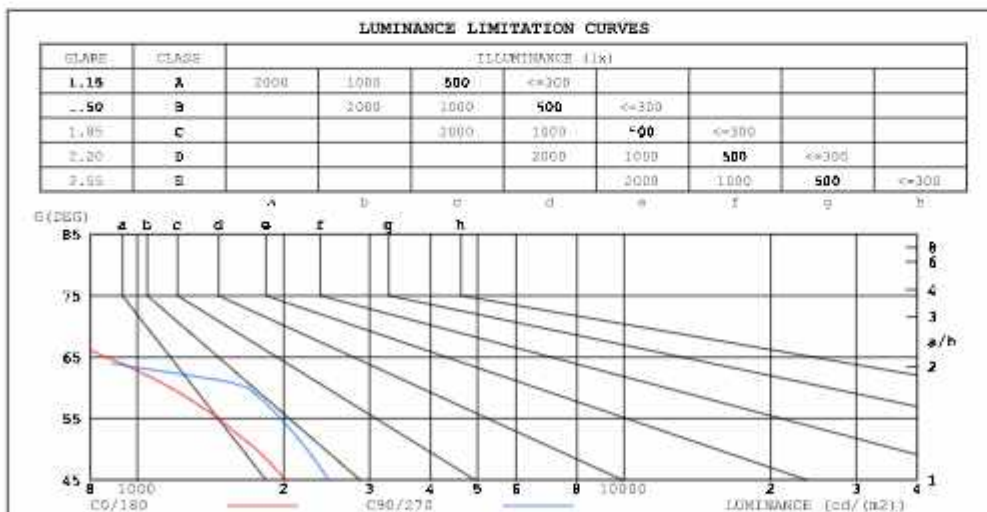
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	lum, lamp
10	425.0	441.4	452.3	438.1				0- 10	42.46	42.46	4.32, 4.25
20	380.6	408.7	431.2	403.9				10- 20	119.8	162.3	16.5, 16.2
30	313.0	353.7	387.8	348.8				20- 30	175.3	337.5	34.3, 33.8
40	232.0	277.8	321.3	273.6				30- 40	196.7	534.2	54.3, 53.4
50	150.7	191.5	237.2	191.2				40- 50	180.5	714.7	72.7, 71.5
60	78.30	113.1	154.6	112.6				50- 60	136.3	851.1	86.6, 85.1
70	27.20	9.636	80.90	48.86				60- 70	72.79	923.9	94, 92.4
80	9.067	10.99	27.13	7.906				70- 80	27.00	950.9	96.7, 95.1
90	4.004	4.344	7.564	1.645				80- 90	8.999	959.9	97.6, 96
100	4.010	3.983	1.730	1.962				90-100	3.480	963.3	98, 96.3
110	4.062	4.037	2.100	2.394				100-110	3.199	966.5	98.3, 96.7
120	4.218	4.169	2.546	2.894				110-120	3.271	969.8	98.7, 97
130	4.414	4.396	3.037	3.460				120-130	3.261	973.1	99, 97.3
140	4.624	4.651	3.518	3.942				130-140	3.096	976.2	99.3, 97.6
150	4.869	4.918	3.995	4.343				140-150	2.732	978.9	99.6, 97.9
160	5.145	5.204	4.522	4.789				150-160	2.180	981.1	99.8, 98.1
170	5.377	5.413	5.043	5.199				160-170	1.439	982.5	99.9, 98.3
180	5.440	5.458	5.413	5.471				170-180	0.5095	983.0	100, 98.3
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	345	596
80	390	473
75	486	192
70	594	211
65	864	747
60	1171	1691
55	1464	1968
50	1753	2227
45	2016	2468

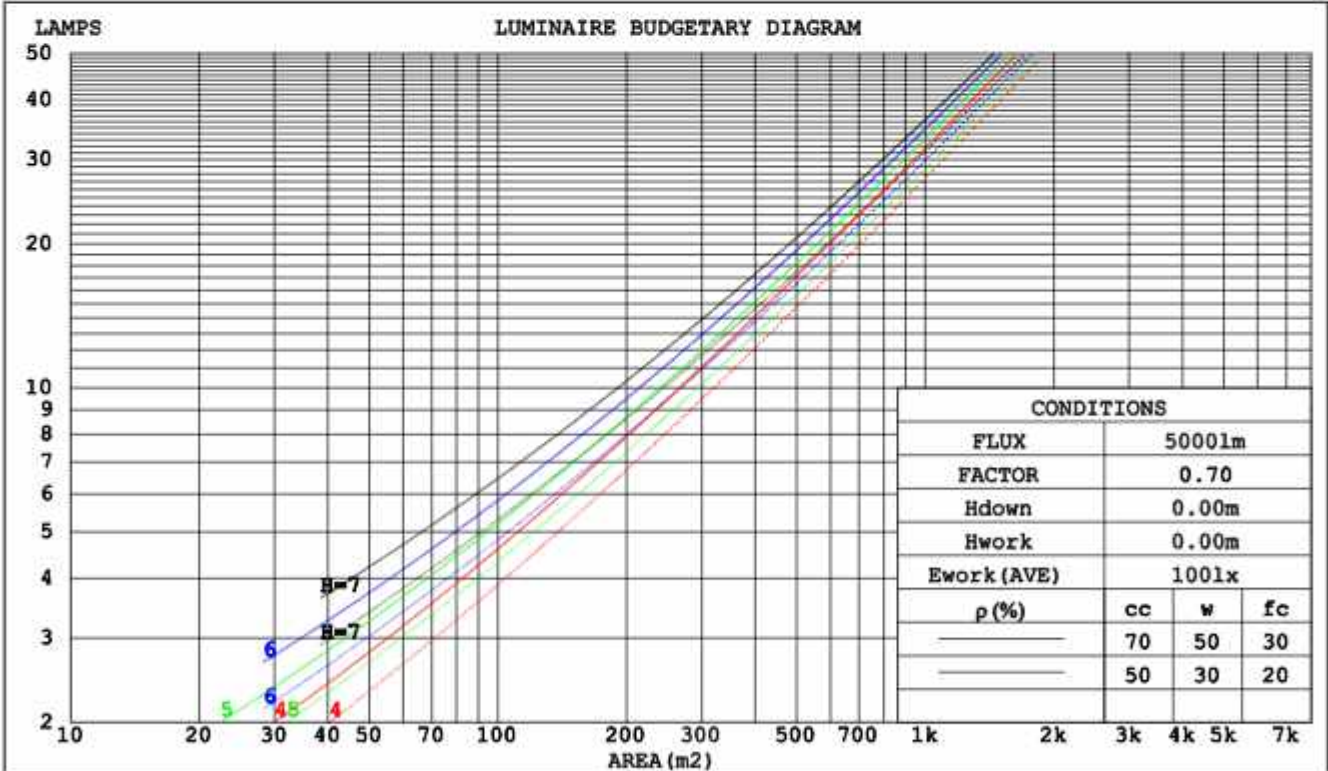
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4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	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	.98	.98	.98	.96
1.0	1.04	1.00	.97	1.02	.98	.95	.97	.94	.92	.93	.91	.89	.89	.87	.86	.84
2.0	.93	.87	.82	.91	.85	.81	.87	.82	.79	.83	.80	.76	.80	.77	.74	.72
3.0	.83	.75	.70	.81	.74	.69	.78	.72	.68	.75	.70	.66	.72	.68	.65	.63
4.0	.74	.66	.60	.73	.65	.60	.70	.64	.59	.68	.62	.58	.65	.61	.57	.55
5.0	.67	.59	.53	.66	.58	.52	.63	.57	.52	.61	.56	.51	.59	.54	.50	.48
6.0	.61	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.54	.49	.45	.43
7.0	.55	.47	.42	.54	.47	.42	.53	.46	.41	.51	.45	.41	.50	.44	.40	.38
8.0	.51	.43	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.46	.40	.36	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.29



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸商照	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	.257	.146	.046	.249	.142	.045	.235	.135	.043	.222	.128	.041	.210	.122	.039	
2.0	.247	.135	.041	.240	.132	.041	.228	.127	.039	.216	.121	.038	.206	.116	.037	
3.0	.233	.124	.037	.227	.121	.037	.216	.117	.036	.206	.113	.035	.196	.109	.034	
4.0	.218	.113	.033	.213	.111	.033	.203	.108	.032	.194	.104	.031	.186	.101	.031	
5.0	.204	.104	.030	.200	.103	.030	.191	.100	.029	.183	.097	.029	.176	.094	.028	
6.0	.192	.096	.028	.188	.095	.027	.180	.092	.027	.173	.090	.026	.166	.087	.026	
7.0	.180	.089	.025	.176	.088	.025	.169	.086	.025	.163	.084	.024	.157	.081	.024	
8.0	.169	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.023	.148	.076	.022	
9.0	.160	.077	.022	.157	.076	.021	.151	.075	.021	.146	.073	.021	.141	.072	.021	
10.0	.151	.072	.020	.148	.072	.020	.143	.070	.020	.138	.069	.020	.134	.067	.019	

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	.205	.205	.205	.175	.175	.175	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.192	.172	.154	.164	.147	.132	.112	.101	.091	.065	.059	.053	.021	.019	.017	
2.0	.182	.148	.119	.156	.127	.103	.107	.088	.072	.062	.051	.042	.020	.017	.014	
3.0	.173	.130	.096	.149	.112	.083	.102	.078	.058	.059	.046	.034	.019	.015	.011	
4.0	.166	.117	.079	.142	.101	.069	.098	.070	.049	.057	.041	.029	.018	.013	.009	
5.0	.159	.106	.068	.136	.092	.059	.094	.064	.042	.054	.038	.025	.018	.012	.008	
6.0	.152	.098	.059	.131	.085	.052	.090	.059	.037	.052	.035	.022	.017	.011	.007	
7.0	.146	.091	.053	.125	.079	.046	.087	.055	.033	.050	.033	.019	.016	.011	.006	
8.0	.140	.085	.048	.120	.074	.042	.083	.052	.030	.048	.031	.018	.016	.010	.006	
9.0	.134	.081	.044	.116	.070	.039	.080	.049	.028	.047	.029	.016	.015	.010	.005	
10.0	.129	.076	.041	.111	.066	.036	.077	.047	.026	.045	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm										
NAME: 4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	14.1	15.5	14.4	15.7	16.0	15.1	16.5	15.4	16.7	16.9
3H	14.4	15.6	14.7	15.9	16.2	15.1	16.3	15.4	16.6	16.8
4H	14.4	15.6	14.8	15.9	16.2	15.0	16.2	15.3	16.4	16.7
6H	14.4	15.5	14.8	15.8	16.1	15.0	16.1	15.3	16.4	16.7
8H	14.4	15.5	14.8	15.8	16.1	15.0	16.0	15.3	16.3	16.7
12H	14.4	15.4	14.8	15.7	16.1	15.0	16.0	15.4	16.3	16.7
4H 2H	14.3	15.5	14.7	15.8	16.1	15.2	16.3	15.5	16.6	16.9
3H	14.6	15.6	15.0	15.9	16.3	15.2	16.2	15.5	16.5	16.8
4H	14.7	15.6	15.1	16.0	16.3	15.1	16.0	15.5	16.4	16.7
6H	14.8	15.6	15.2	16.0	16.4	15.1	15.9	15.6	16.3	16.7
8H	14.8	15.5	15.2	15.9	16.3	15.2	15.9	15.6	16.3	16.8
12H	14.8	15.4	15.2	15.9	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.4	15.1	15.8	16.2	15.0	15.8	15.5	16.2	16.6
6H	14.7	15.4	15.2	15.8	16.3	15.1	15.7	15.6	16.2	16.6
8H	14.8	15.3	15.3	15.8	16.3	15.2	15.8	15.7	16.2	16.7
12H	14.8	15.3	15.3	15.8	16.3	15.3	15.8	15.9	16.3	16.8
12H 4H	14.6	15.3	15.0	15.7	16.1	15.0	15.7	15.4	16.1	16.5
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.8	15.3	15.3	15.8	16.3	15.2	15.7	15.7	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

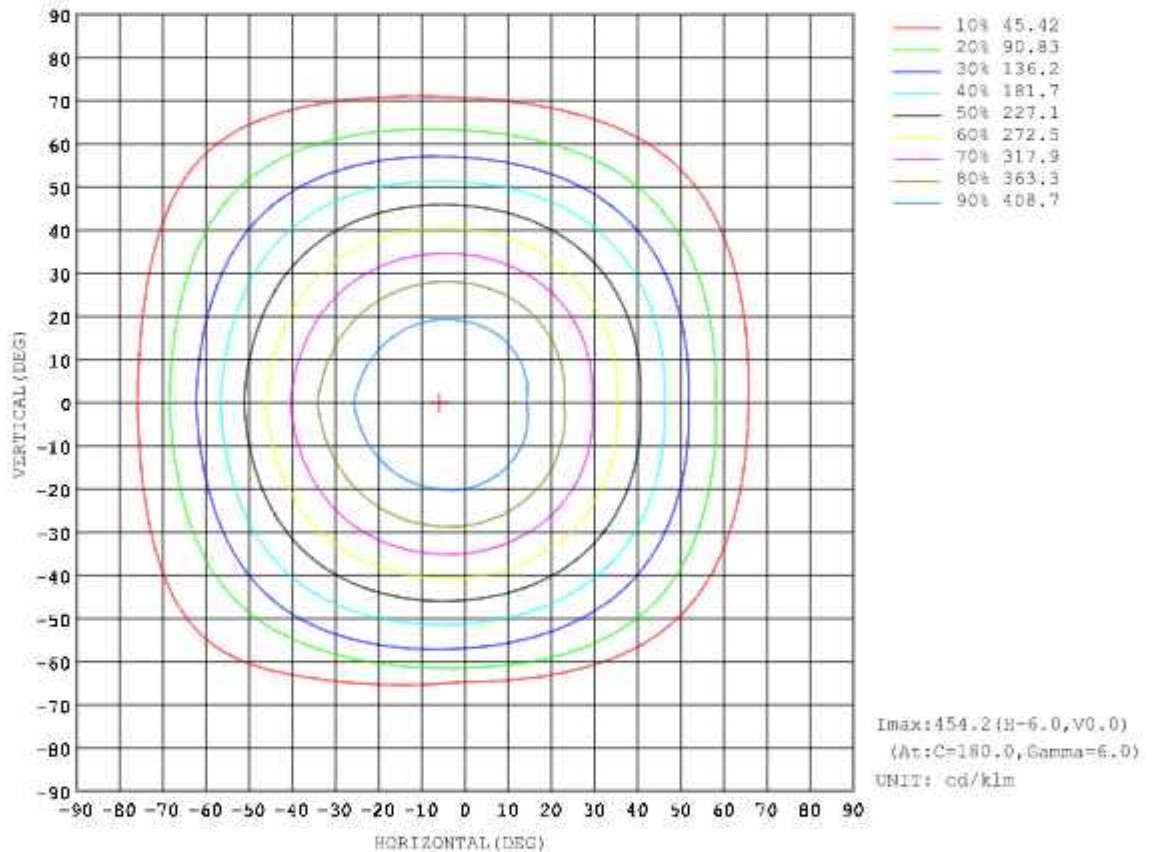
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	45	60	50	45	39
0.80	72	61	55	71	61	55	69	60	54	48
1.00	80	70	64	79	70	64	76	70	63	57
1.25	86	77	71	85	77	71	82	75	70	63
1.50	91	83	77	89	82	76	86	80	75	68
2.00	97	90	84	95	88	83	91	86	82	74
2.50	100	94	88	98	92	87	94	89	85	77
3.00	103	97	92	101	95	91	97	92	89	81
4.00	106	101	97	104	99	96	99	96	93	84
5.00	108	104	101	105	102	99	101	98	95	86
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

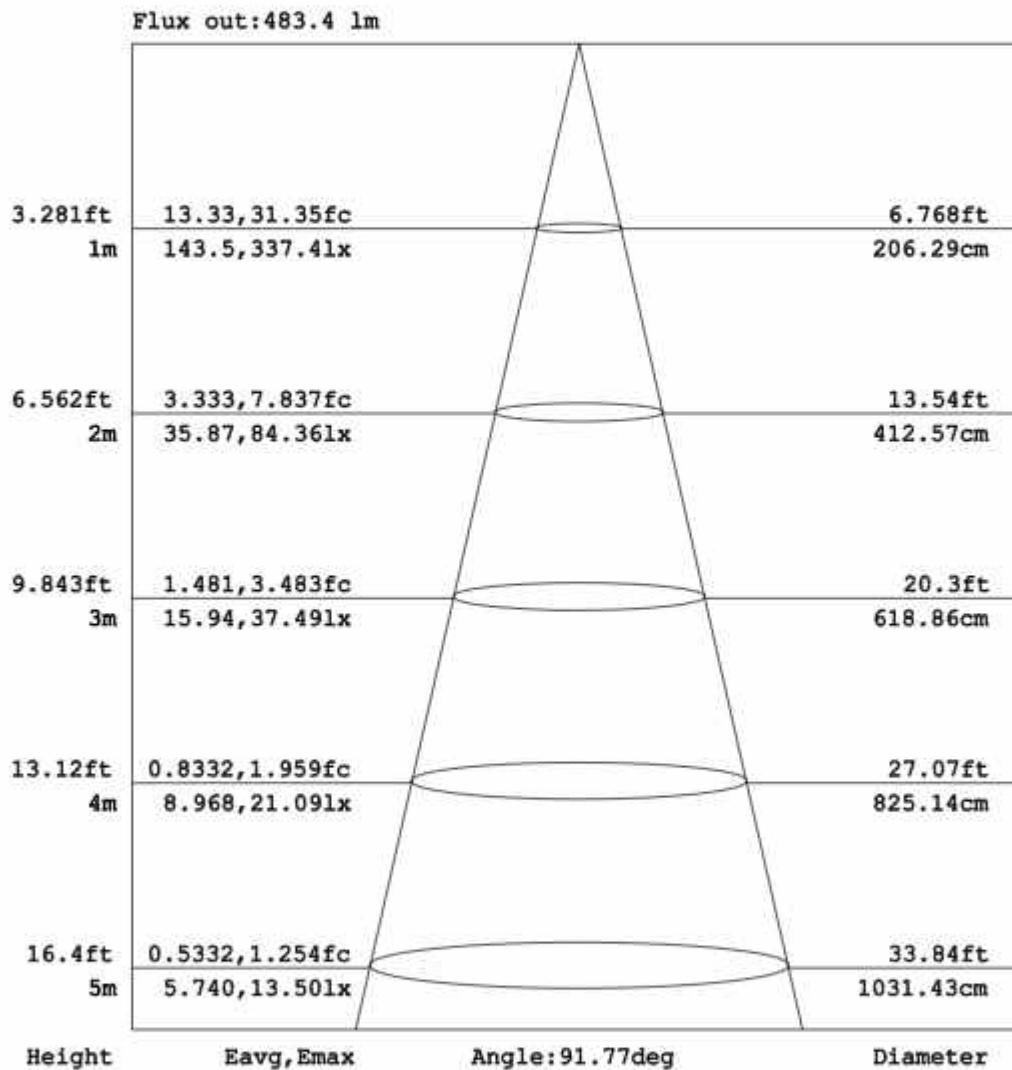


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸筒照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



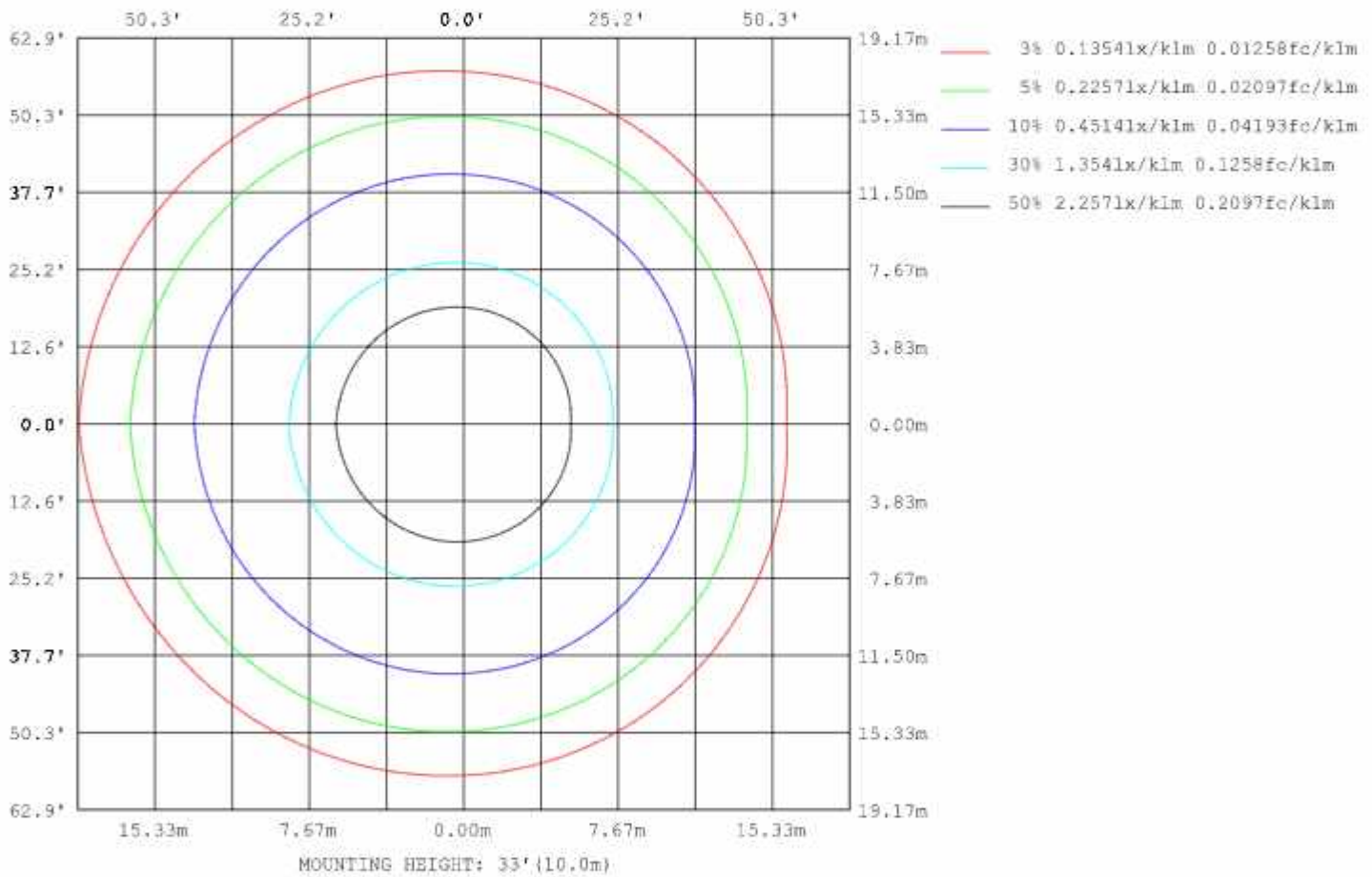
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

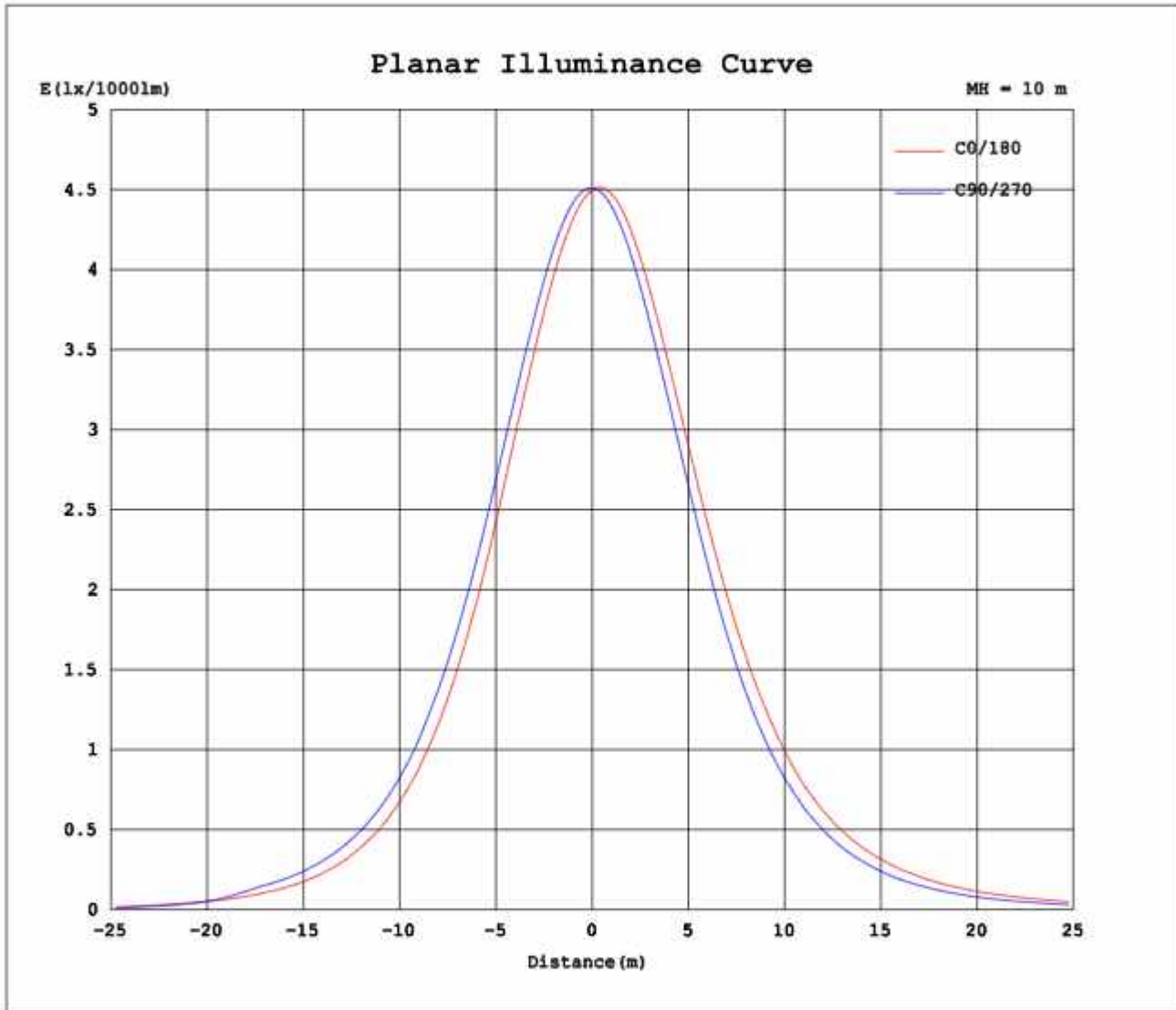
Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0530A P:6.330W PF:0.9820 Lamp Flux:747.578x1 lm		
NAME: 4寸商照	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	450	451	450	451																
5	440	449	454	447																
10	425	441	452	438																
15	405	428	445	423																
20	381	409	431	404																
25	350	384	412	379																
30	313	354	388	349																
35	273	317	358	313																
40	232	278	321	274																
45	191	233	281	232																
50	151	192	237	191																
55	112	151	195	151																
60	78.3	113	155	113																
65	48.9	42.2	116	78.5																
70	27.2	9.64	80.9	48.9																
75	16.8	6.65	50.3	25.5																
80	9.07	11.0	27.1	7.91																
85	4.03	6.95	15.7	5.40																
90	4.00	4.34	7.56	1.64																
95	4.01	3.98	1.57	1.77																
100	4.01	3.98	1.73	1.96																
105	4.01	4.00	1.90	2.16																
110	4.06	4.04	2.10	2.39																
115	4.13	4.10	2.31	2.64																
120	4.22	4.17	2.55	2.89																
125	4.31	4.27	2.79	3.19																
130	4.41	4.40	3.04	3.46																
135	4.51	4.52	3.27	3.70																
140	4.62	4.65	3.52	3.94																
145	4.76	4.78	3.76	4.12																
150	4.87	4.92	4.00	4.34																
155	5.00	5.06	4.25	4.57																
160	5.15	5.20	4.52	4.79																
165	5.27	5.32	4.79	5.01																
170	5.38	5.41	5.04	5.20																
175	5.44	5.48	5.26	5.35																
180	5.44	5.46	5.41	5.47																

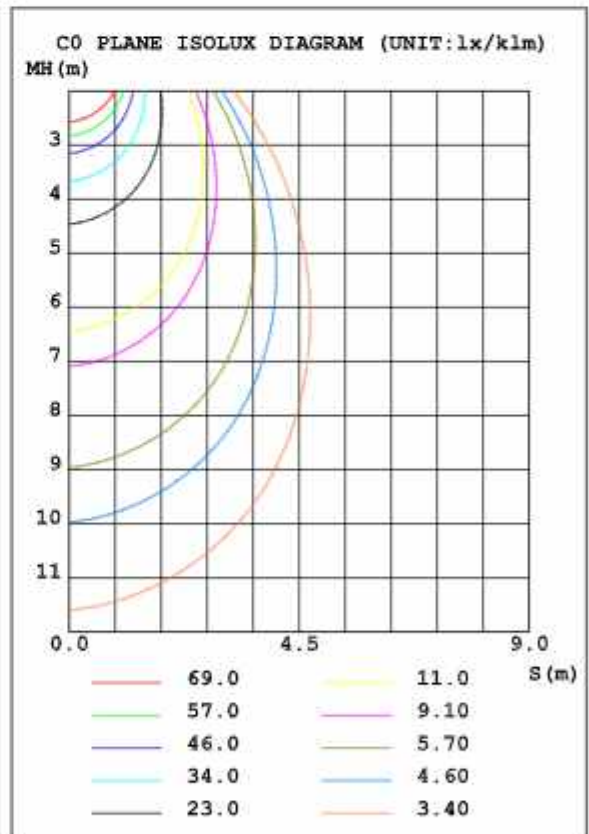
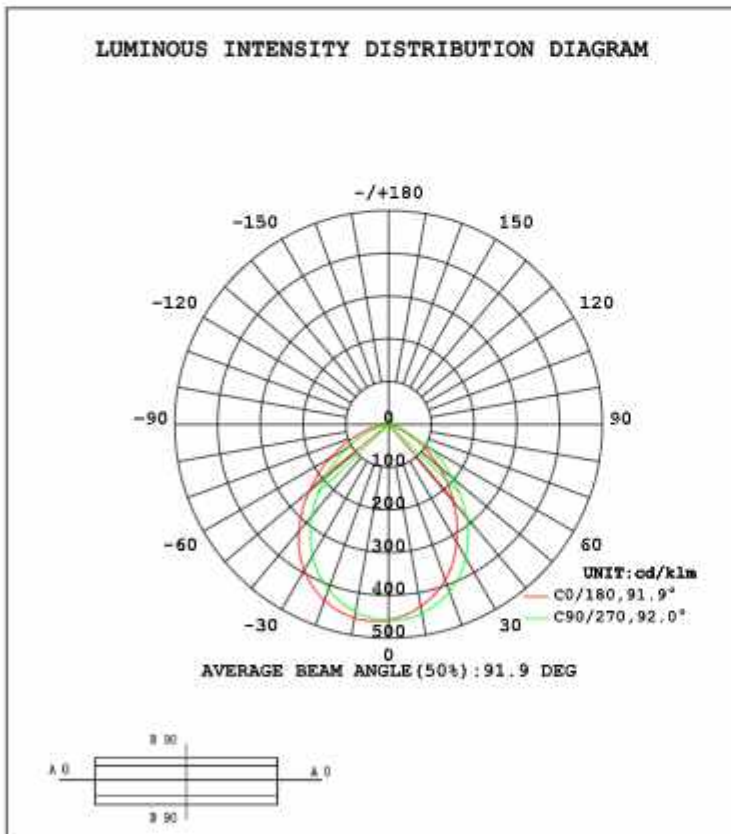
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.26 lm/W			
MODEL	W-5000K	I _{max} (cd/klm)	461.9	S/MH (C0/180)	1.07
NOMINAL POWER (W)	6	LOR (%)	100.2	S/MH (C90/270)	1.18
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	1001.9	η UP, DN (C0-180)	1.4, 44.0
NOMINAL FLUX (lm)	746.193	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.0, 53.9
LAMPS INSIDE	1	η up (%)	2.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	97.8	CIBSE SHR MAX	1.30



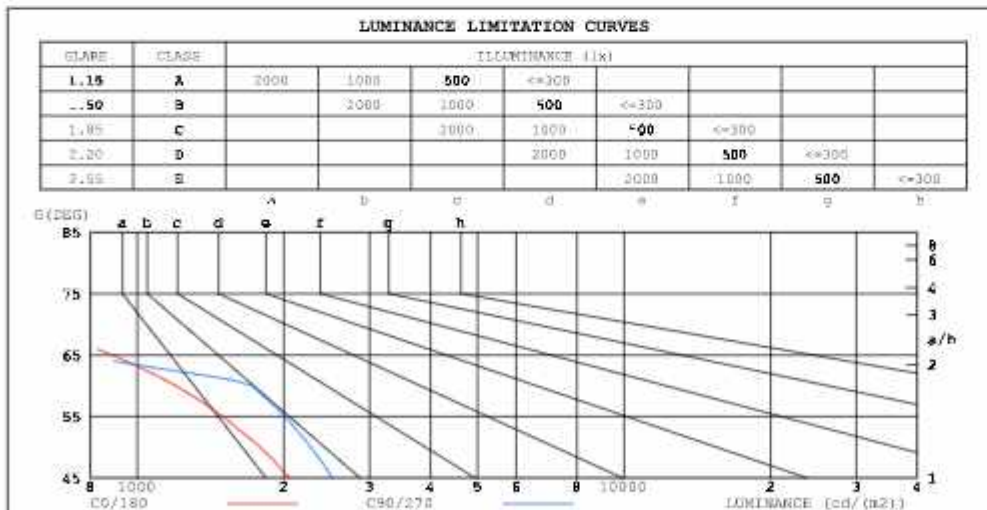
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp	
10	432.4	449.0	460.0	445.5				0- 10	43.19	43.19	4.31, 4.32	
20	387.4	416.1	438.6	411.0				10- 20	121.9	165.1	16.5, 16.5	
30	318.6	360.5	394.6	355.3				20- 30	178.4	343.5	34.3, 34.3	
40	236.3	283.5	326.8	279.3				30- 40	200.4	543.9	54.3, 54.4	
50	154.0	195.5	241.5	195.2				40- 50	184.2	728.1	72.7, 72.8	
60	80.34	115.2	157.8	114.6				50- 60	139.2	867.3	86.6, 86.7	
70	27.85	9.912	83.01	49.07				60- 70	74.28	941.6	94, 94.2	
80	9.245	11.15	27.86	7.979				70- 80	27.98	969.2	96.7, 96.9	
90	4.086	4.047	7.739	1.670				80- 90	9.161	978.3	97.7, 97.8	
100	4.080	4.043	1.774	1.988				90-100	3.525	981.8	98, 98.2	
110	4.136	4.092	2.149	2.421				100-110	3.251	985.1	98.3, 98.5	
120	4.288	4.235	2.600	2.926				110-120	3.325	988.4	98.7, 98.8	
130	4.485	4.463	3.087	3.493				120-130	3.316	991.7	99, 99.2	
140	4.699	4.717	3.587	4.007				130-140	3.146	994.9	99.3, 99.5	
150	4.936	4.994	4.070	4.413				140-150	2.776	997.7	99.6, 99.8	
160	5.226	5.276	4.606	4.869				150-160	2.216	999.9	99.8, 100	
170	5.485	5.508	5.128	5.284				160-170	1.463	1001	99.9, 100	
180	5.517	5.557	5.499	5.535				170-180	0.5181	1002	100, 100	
DEG	LUMINOUS INTENSITY: cd/klm							UNIT: lm/klm				



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	351	606
80	397	479
75	496	195
70	608	216
65	987	758
60	1199	1719
55	1496	2005
50	1787	2270
45	2053	2518

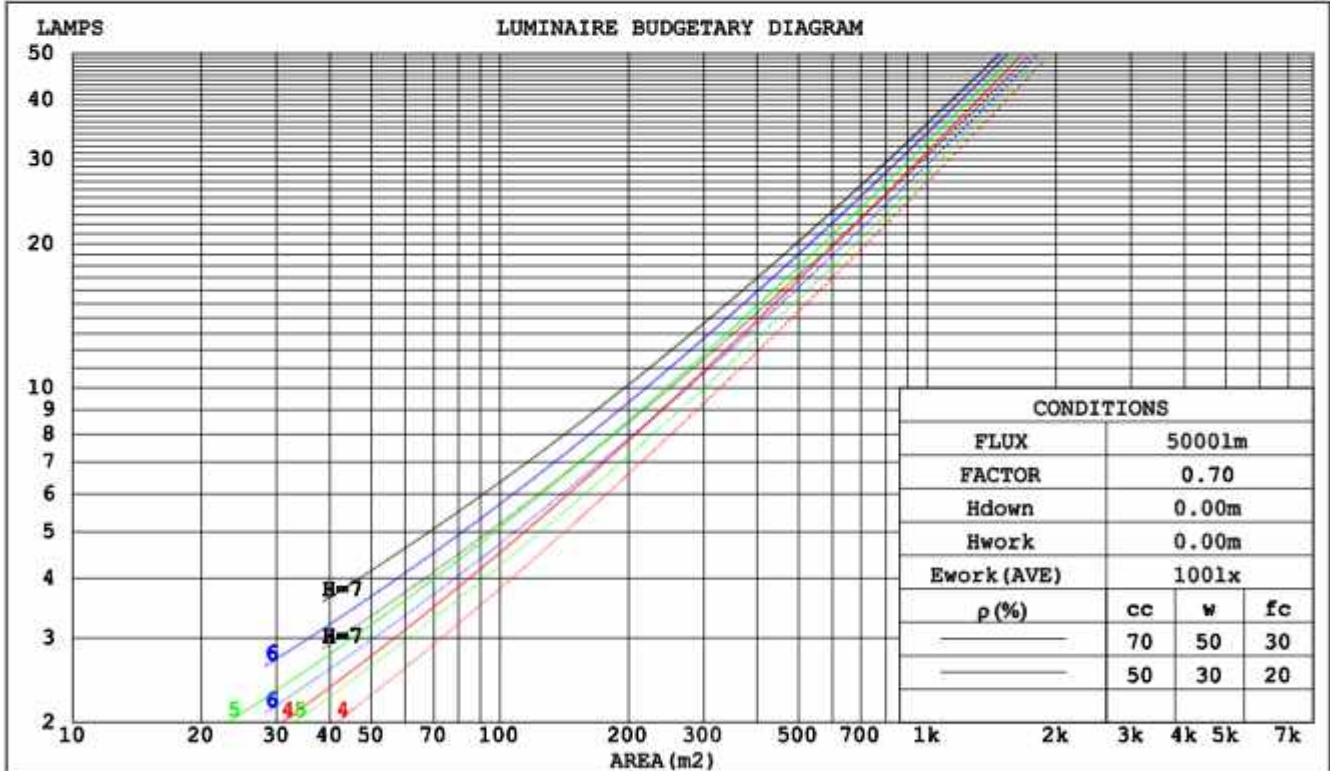
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4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	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.91	.89	.88	.85
2.0	.94	.88	.83	.92	.87	.82	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.77	.71	.82	.76	.70	.79	.74	.69	.76	.71	.67	.73	.69	.66	.64
4.0	.75	.68	.62	.74	.67	.61	.71	.65	.60	.69	.63	.59	.66	.62	.58	.56
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.62	.57	.52	.60	.55	.51	.49
6.0	.62	.54	.48	.61	.53	.47	.59	.52	.47	.57	.51	.46	.55	.50	.46	.44
7.0	.56	.48	.43	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.34	.44	.38	.34	.43	.38	.34	.32
10.0	.44	.37	.32	.43	.36	.32	.42	.36	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸商照	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	.262	.149	.047	.254	.145	.046	.240	.137	.044	.226	.131	.042	.214	.124	.040	
2.0	.251	.138	.042	.245	.135	.042	.232	.129	.040	.221	.124	.039	.210	.119	.037	
3.0	.237	.126	.038	.231	.124	.037	.220	.119	.036	.210	.115	.035	.200	.111	.034	
4.0	.222	.116	.034	.217	.114	.034	.207	.110	.033	.198	.106	.032	.190	.103	.031	
5.0	.208	.106	.031	.204	.105	.030	.195	.102	.030	.187	.099	.029	.179	.096	.029	
6.0	.195	.098	.028	.191	.097	.028	.183	.094	.027	.176	.091	.027	.169	.089	.026	
7.0	.184	.091	.026	.180	.090	.026	.173	.087	.025	.166	.085	.025	.160	.083	.024	
8.0	.173	.084	.024	.169	.083	.024	.163	.081	.023	.157	.080	.023	.151	.078	.023	
9.0	.163	.079	.022	.160	.078	.022	.154	.076	.022	.149	.075	.021	.144	.073	.021	
10.0	.154	.074	.021	.151	.073	.020	.146	.072	.020	.141	.070	.020	.136	.069	.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	.209	.209	.209	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.195	.175	.157	.167	.150	.135	.114	.103	.093	.066	.060	.054	.021	.019	.018	
2.0	.185	.151	.121	.159	.130	.105	.109	.090	.073	.063	.052	.043	.020	.017	.014	
3.0	.177	.133	.097	.151	.114	.084	.104	.079	.059	.060	.046	.035	.019	.015	.011	
4.0	.169	.119	.081	.145	.103	.070	.100	.072	.049	.058	.042	.029	.019	.014	.010	
5.0	.162	.108	.069	.139	.094	.060	.096	.065	.042	.055	.038	.025	.018	.013	.008	
6.0	.155	.100	.060	.133	.086	.053	.092	.060	.037	.053	.036	.022	.017	.012	.007	
7.0	.148	.093	.054	.128	.080	.047	.088	.056	.033	.051	.033	.020	.017	.011	.007	
8.0	.142	.087	.049	.123	.075	.043	.085	.053	.030	.049	.031	.018	.016	.010	.006	
9.0	.137	.082	.045	.118	.071	.039	.082	.050	.028	.048	.030	.017	.015	.010	.006	
10.0	.131	.078	.042	.113	.068	.037	.079	.048	.026	.046	.028	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm										
NAME: 4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	14.2	15.6	14.5	15.8	16.1	15.2	16.5	15.5	16.8	17.0
3H	14.5	15.7	14.8	16.0	16.2	15.2	16.4	15.5	16.7	16.9
4H	14.5	15.7	14.8	16.0	16.3	15.1	16.2	15.4	16.5	16.8
6H	14.5	15.6	14.9	15.9	16.2	15.0	16.1	15.4	16.4	16.8
8H	14.5	15.6	14.9	15.9	16.2	15.1	16.1	15.4	16.4	16.8
12H	14.5	15.5	14.8	15.8	16.2	15.1	16.1	15.4	16.4	16.7
4H 2H	14.4	15.6	14.8	15.9	16.2	15.2	16.4	15.6	16.7	17.0
3H	14.7	15.7	15.1	16.0	16.4	15.2	16.2	15.6	16.6	16.9
4H	14.8	15.7	15.2	16.0	16.4	15.2	16.1	15.6	16.4	16.8
6H	14.8	15.7	15.3	16.0	16.4	15.2	16.0	15.6	16.4	16.8
8H	14.9	15.6	15.3	16.0	16.4	15.3	16.0	15.7	16.4	16.8
12H	14.8	15.5	15.3	16.0	16.4	15.3	16.0	15.8	16.4	16.9
8H 4H	14.7	15.4	15.1	15.8	16.3	15.1	15.8	15.5	16.2	16.7
6H	14.8	15.4	15.3	15.9	16.4	15.2	15.8	15.7	16.2	16.7
8H	14.9	15.4	15.4	15.9	16.4	15.3	15.8	15.8	16.3	16.8
12H	14.9	15.4	15.4	15.9	16.4	15.4	15.9	15.9	16.4	16.9
12H 4H	14.7	15.3	15.1	15.8	16.2	15.1	15.7	15.5	16.2	16.6
6H	14.8	15.4	15.3	15.8	16.3	15.2	15.7	15.7	16.2	16.7
8H	14.9	15.4	15.4	15.8	16.4	15.3	15.8	15.8	16.3	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.0 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

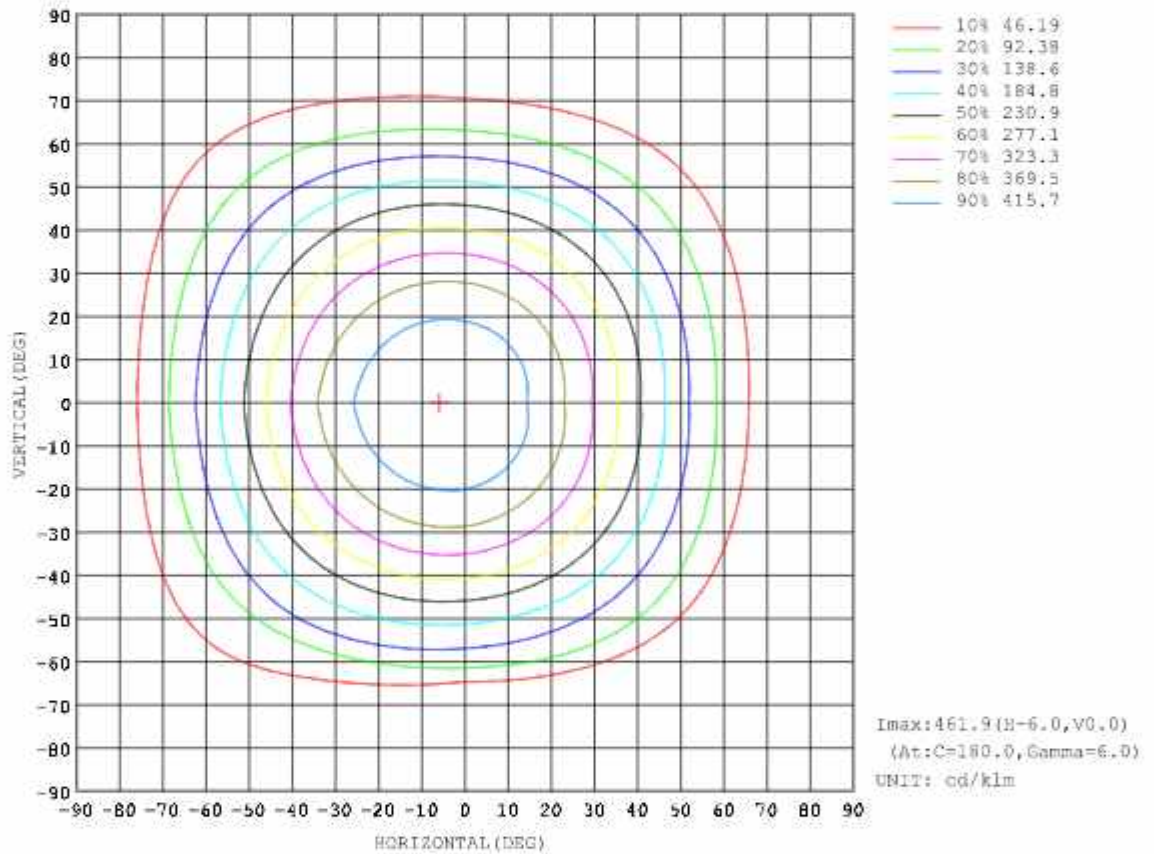
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	52	46	62	52	46	61	51	46	40
0.80	73	63	56	72	62	56	70	61	55	49
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	71	65
1.50	93	84	78	91	83	78	88	81	76	69
2.00	99	91	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	98	94	91	82
4.00	108	103	99	106	101	98	101	98	95	86
5.00	110	106	102	108	104	101	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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

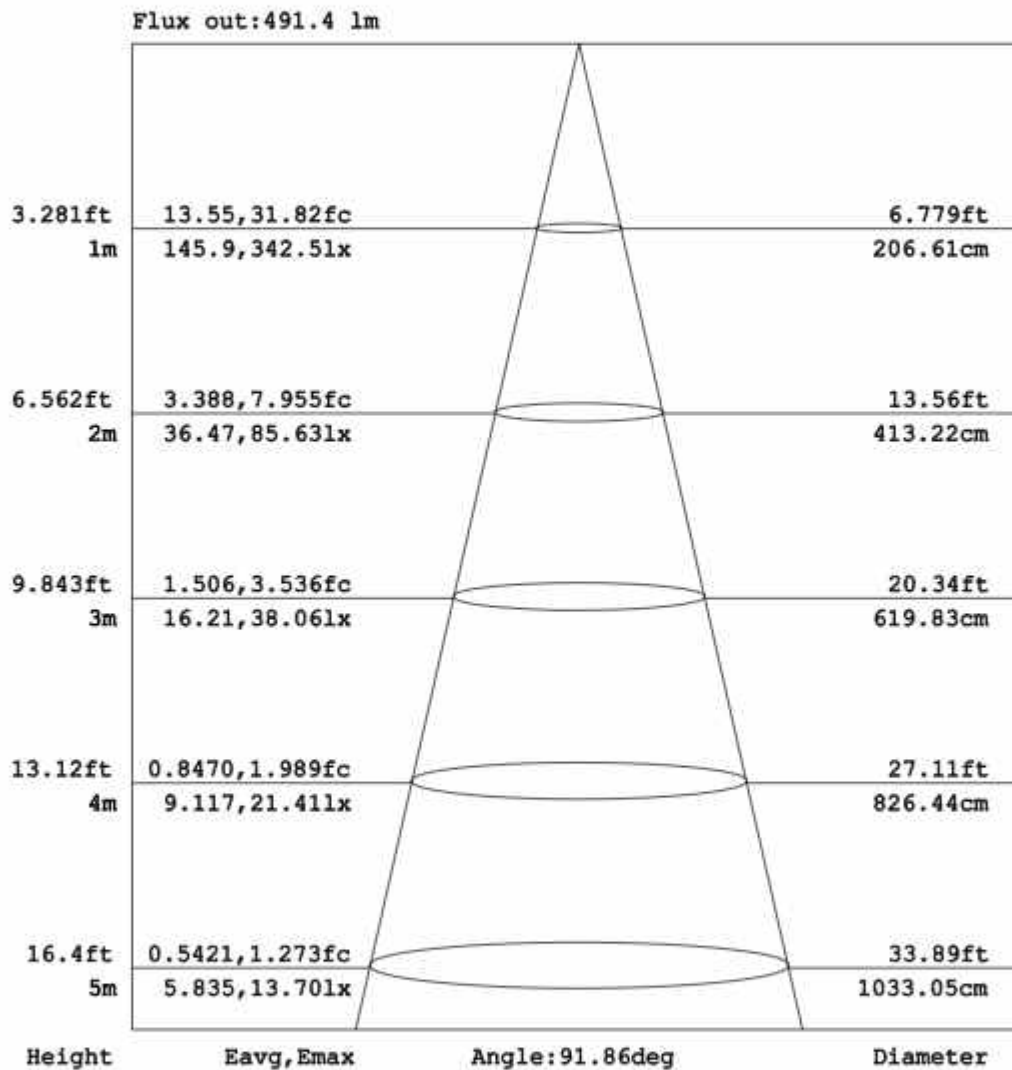


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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 Figure

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



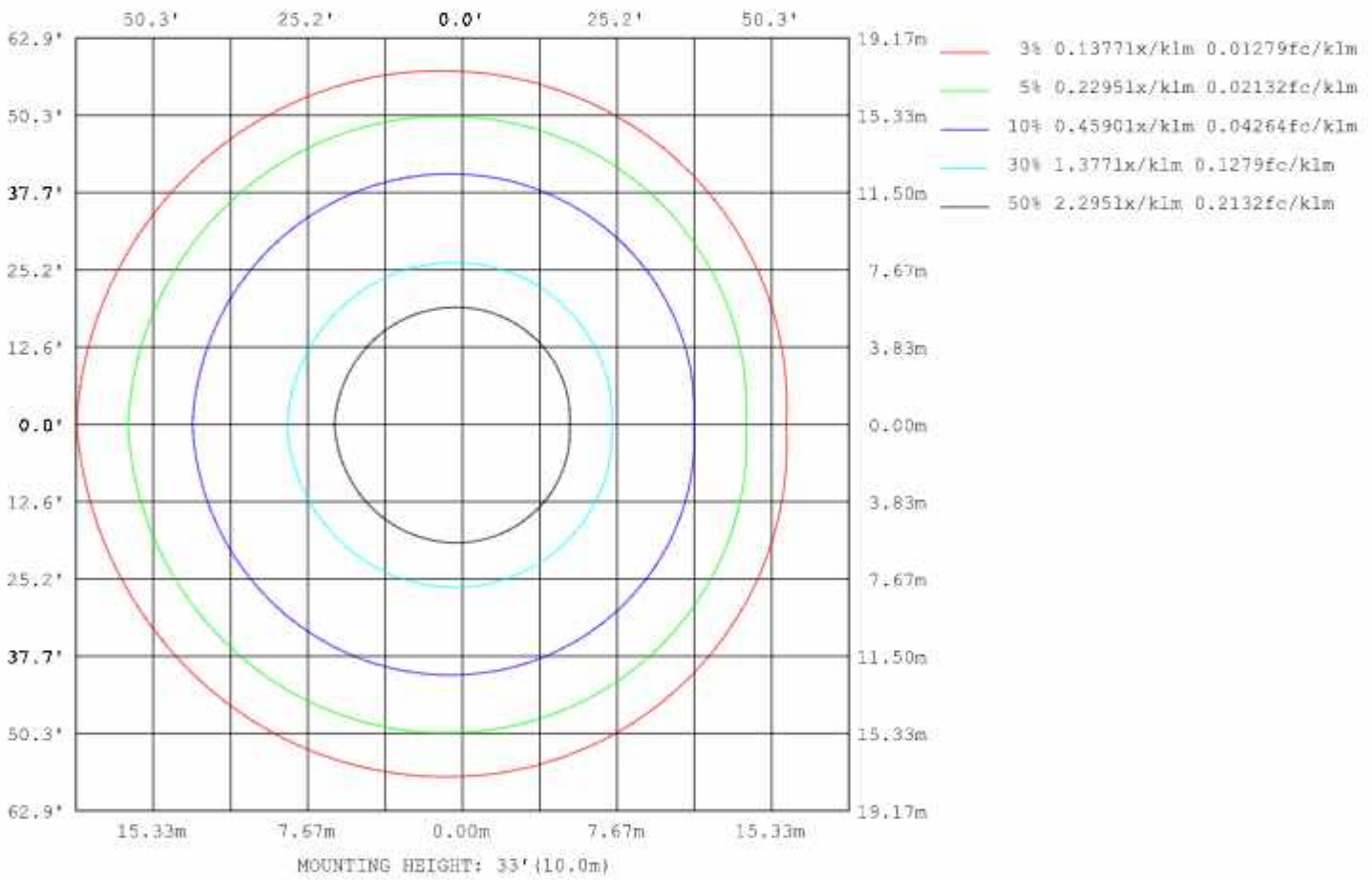
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

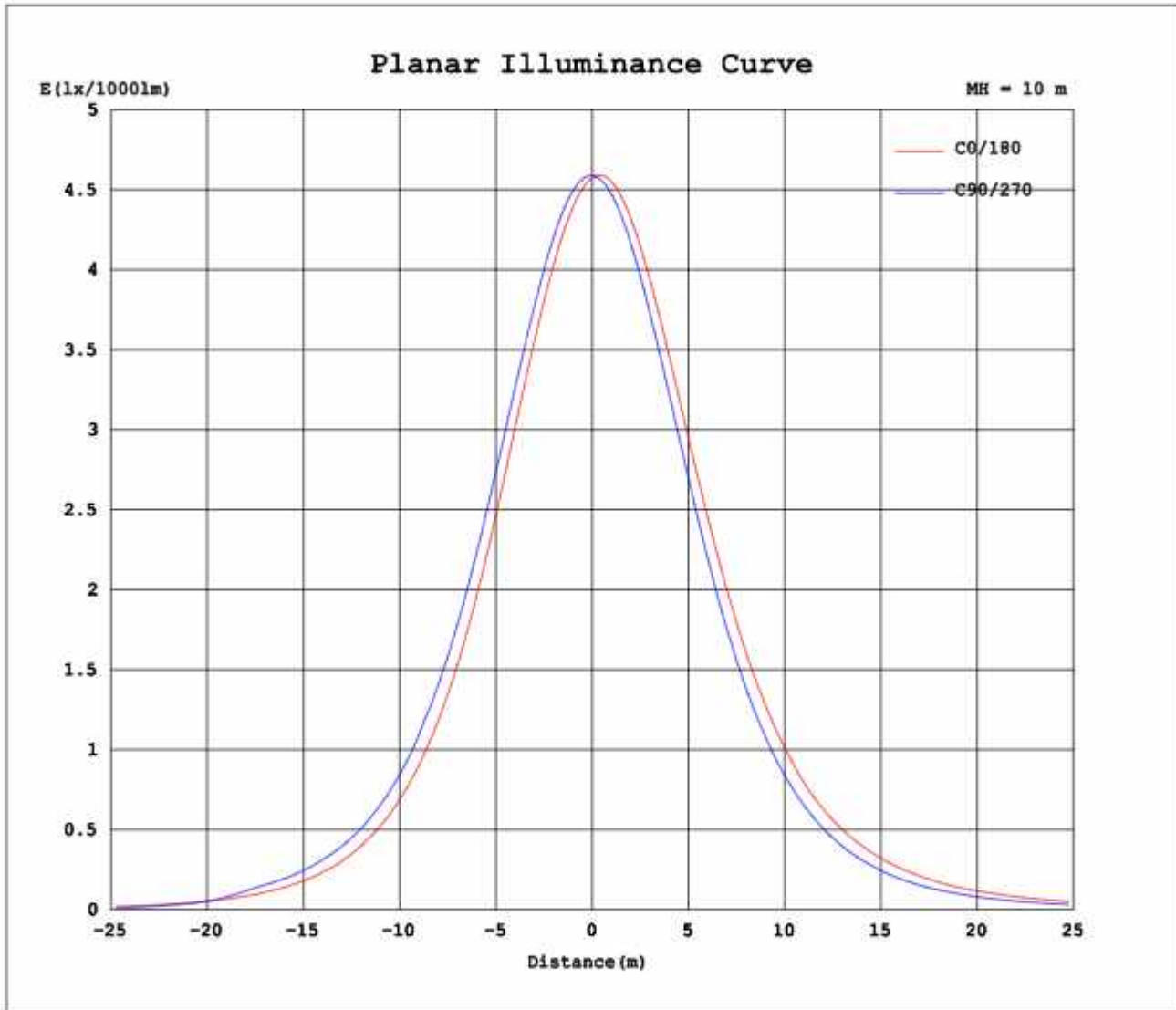
Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0540A P:6.430W PF:0.9810 Lamp Flux:746.193x1 lm		
NAME: 4寸商照	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	457	459	457	459																
5	448	457	462	455																
10	432	449	460	445																
15	413	435	452	431																
20	387	416	439	411																
25	356	391	419	386																
30	319	361	395	355																
35	278	324	364	319																
40	236	284	327	279																
45	195	239	286	237																
50	154	196	241	195																
55	115	154	199	154																
60	80.3	115	158	115																
65	50.2	42.9	119	79.7																
70	27.9	9.91	83.0	49.1																
75	17.2	6.77	51.6	25.7																
80	9.25	11.1	27.9	7.98																
85	4.10	7.08	16.0	5.49																
90	4.09	4.05	7.74	1.67																
95	4.08	4.04	1.62	1.80																
100	4.08	4.04	1.77	1.99																
105	4.09	4.05	1.95	2.19																
110	4.14	4.09	2.15	2.42																
115	4.20	4.15	2.36	2.67																
120	4.29	4.23	2.60	2.93																
125	4.38	4.35	2.85	3.22																
130	4.48	4.46	3.09	3.49																
135	4.58	4.59	3.33	3.77																
140	4.70	4.72	3.59	4.01																
145	4.82	4.85	3.82	4.19																
150	4.94	4.99	4.07	4.41																
155	5.09	5.13	4.33	4.64																
160	5.23	5.28	4.61	4.87																
165	5.36	5.40	4.87	5.09																
170	5.49	5.51	5.13	5.28																
175	5.53	5.56	5.36	5.43																
180	5.52	5.56	5.50	5.53																

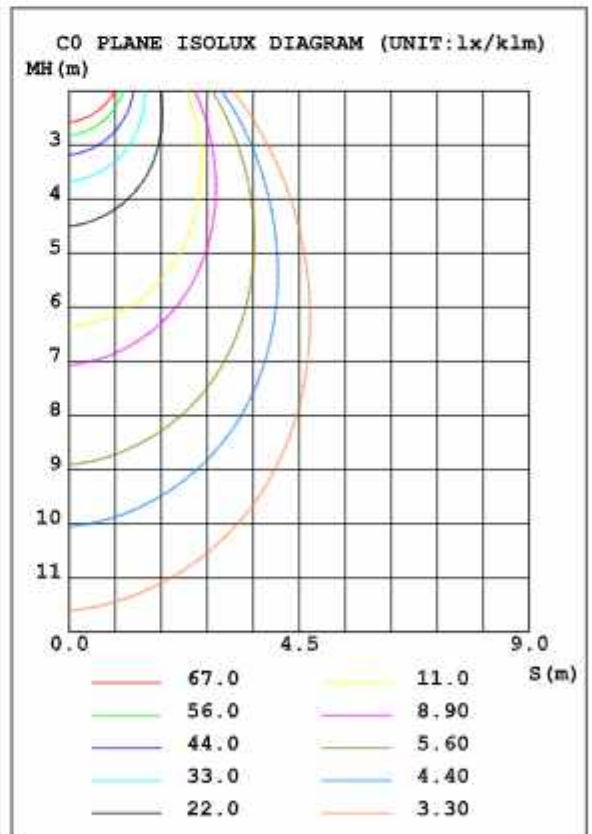
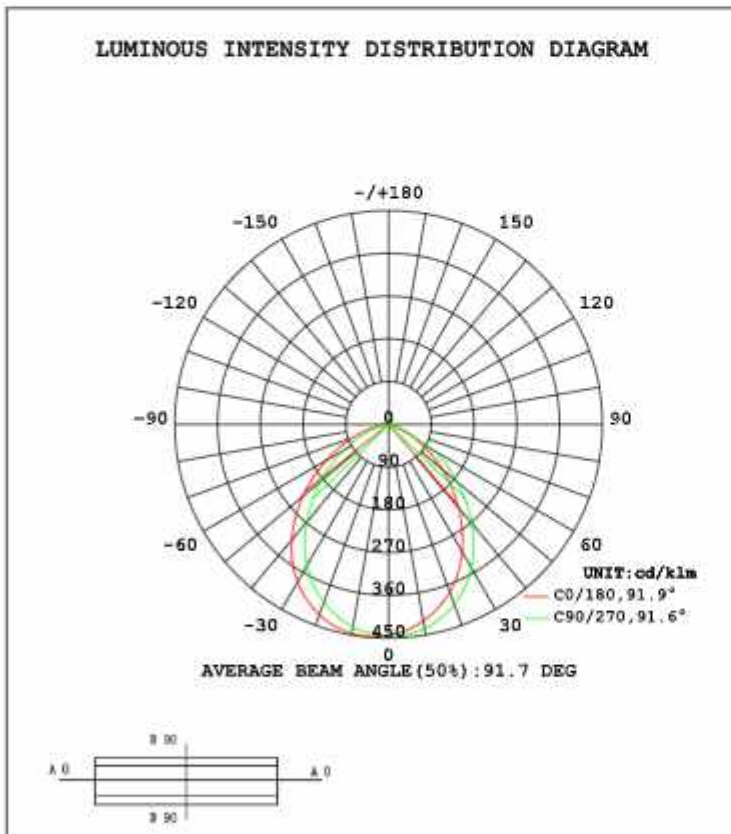
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	9W-2700K	Imax (cd/klm)	449.1	S/MH (C0/180)	1.07
NOMINAL POWER (W)	9	LOR (%)	96.9	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	968.95	η UP, DN (C0-180)	1.3, 42.5
NOMINAL FLUX (lm)	961.336	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 52.1
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	94.7	CIBSE SHR MAX	1.30



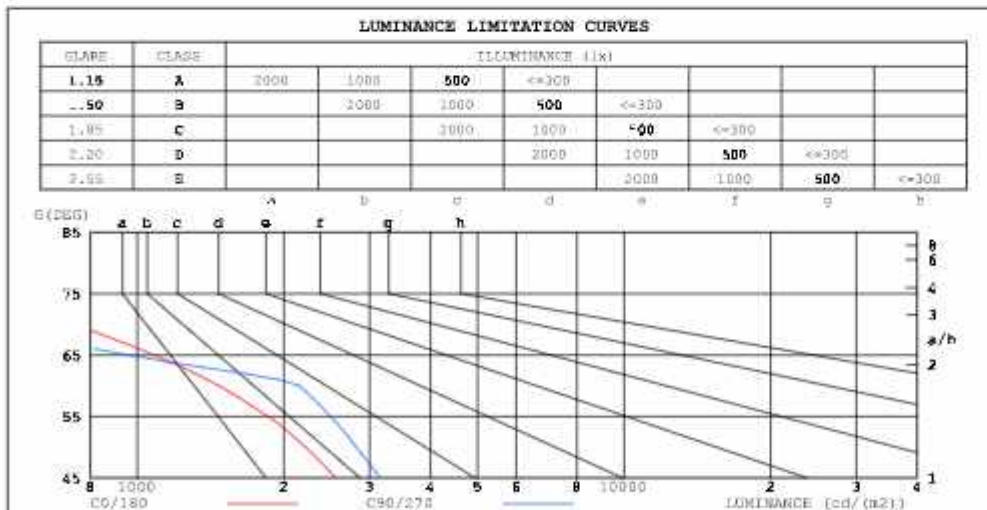
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φ lum, lamp
10	420.2	436.4	447.3	433.1				0- 10	41.98	41.98	4.33, 4.2
20	376.1	403.7	426.3	399.0				10- 20	118.4	160.4	16.6, 16
30	309.4	348.7	383.3	343.9				20- 30	173.1	333.5	34.4, 33.4
40	229.0	272.5	317.5	268.6				30- 40	193.9	527.4	54.4, 52.7
50	148.1	188.2	235.9	187.4				40- 50	178.0	705.4	72.8, 70.5
60	76.41	111.8	151.6	111.3				50- 60	134.3	839.8	86.7, 84
70	26.64	9.518	78.61	48.59				60- 70	71.58	911.3	94.1, 91.1
80	8.905	10.81	26.32	7.748				70- 80	26.41	937.8	96.8, 93.8
90	3.887	3.890	7.315	1.557				80- 90	8.747	946.5	97.7, 94.7
100	3.893	3.885	1.623	1.872				90-100	3.344	949.8	98, 95
110	3.953	3.942	1.994	2.288				100-110	3.091	952.9	98.3, 95.3
120	4.105	4.050	2.441	2.788				110-120	3.166	956.1	98.7, 95.6
130	4.303	4.275	2.920	3.335				120-130	3.161	959.3	99, 95.9
140	4.504	4.518	3.385	3.835				130-140	3.007	962.3	99.3, 96.2
150	4.750	4.799	3.873	4.237				140-150	2.656	964.9	99.6, 96.5
160	5.028	5.066	4.387	4.684				150-160	2.124	967.1	99.8, 96.7
170	5.260	5.288	4.917	5.073				160-170	1.404	968.5	99.9, 96.8
180	5.298	5.319	5.274	5.322				170-180	0.4974	969.0	100, 96.9
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd/ (m2)		
θ (DEG)	C0/180	C90/270
85	431	749
80	493	538
75	615	243
70	749	268
65	1083	962
60	1469	2150
55	1854	2494
50	2215	2815
45	2583	3144

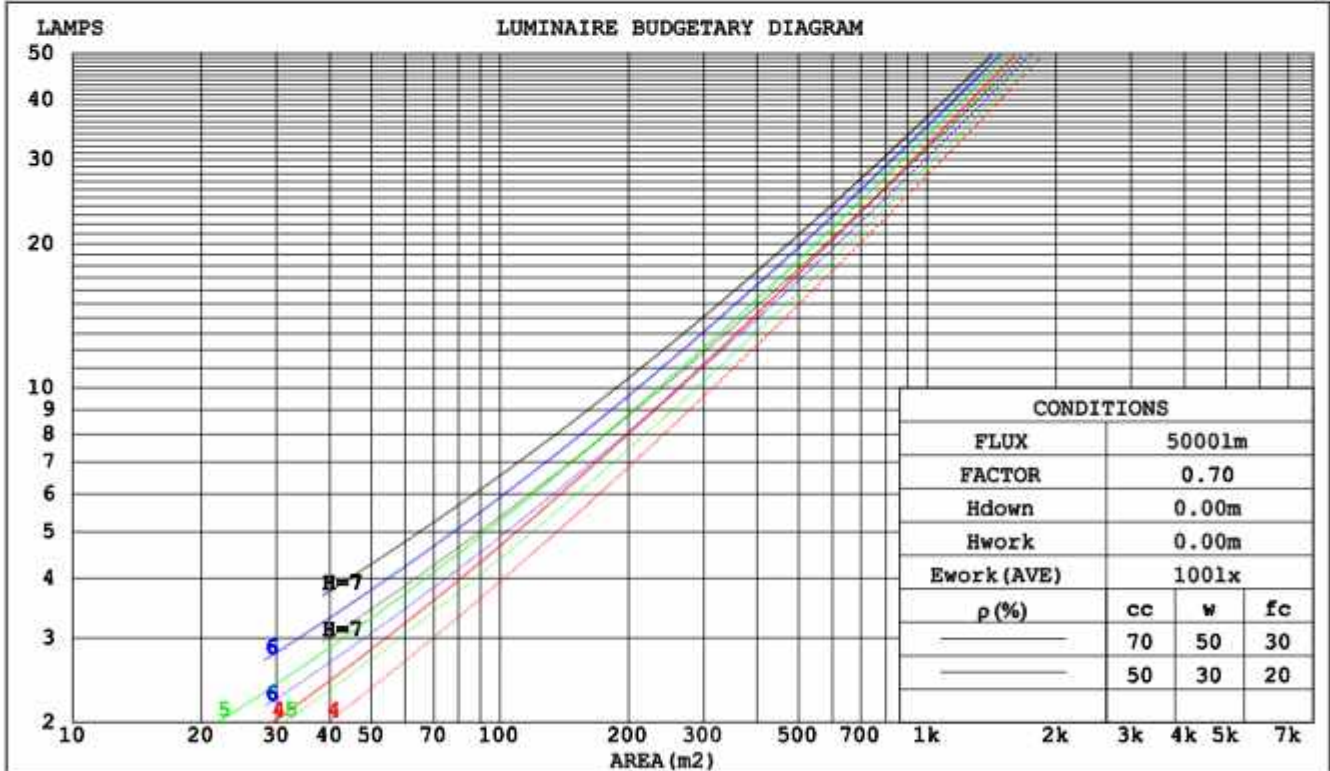
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4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	1.15	1.15	1.15	1.12	1.12	1.12	1.06	1.06	1.06	1.01	1.01	1.01	.97	.97	.97	.95
1.0	1.03	.99	.96	1.00	.97	.94	.96	.93	.91	.92	.90	.88	.88	.86	.85	.83
2.0	.91	.86	.81	.89	.84	.80	.86	.81	.77	.82	.79	.75	.79	.76	.73	.71
3.0	.81	.74	.69	.80	.73	.68	.77	.71	.67	.74	.69	.65	.71	.67	.64	.62
4.0	.73	.65	.60	.72	.65	.59	.69	.63	.58	.67	.61	.57	.64	.60	.56	.54
5.0	.66	.58	.52	.65	.57	.52	.63	.56	.51	.60	.55	.50	.58	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.53	.48	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.52	.45	.41	.51	.45	.40	.49	.44	.40	.38
8.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.36	.45	.40	.36	.34
9.0	.46	.39	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31
10.0	.43	.35	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸商照	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	.253	.144	.046	.245	.140	.044	.231	.133	.042	.219	.126	.040	.207	.120	.039	
2.0	.243	.133	.041	.236	.130	.040	.224	.125	.039	.213	.119	.037	.203	.115	.036	
3.0	.229	.122	.037	.223	.120	.036	.213	.115	.035	.203	.111	.034	.193	.107	.033	
4.0	.215	.112	.033	.210	.110	.032	.200	.106	.032	.191	.103	.031	.183	.100	.030	
5.0	.201	.103	.030	.197	.101	.029	.188	.098	.029	.180	.095	.028	.173	.092	.028	
6.0	.189	.095	.027	.185	.093	.027	.177	.091	.026	.170	.088	.026	.163	.086	.026	
7.0	.177	.088	.025	.174	.087	.025	.167	.084	.024	.161	.082	.024	.154	.080	.024	
8.0	.167	.082	.023	.164	.081	.023	.158	.079	.022	.152	.077	.022	.146	.075	.022	
9.0	.157	.076	.021	.155	.075	.021	.149	.074	.021	.144	.072	.021	.139	.070	.020	
10.0	.149	.071	.020	.146	.071	.020	.141	.069	.019	.136	.068	.019	.132	.066	.019	

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	.202	.202	.202	.172	.172	.172	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.189	.169	.151	.161	.145	.130	.110	.100	.090	.064	.058	.052	.020	.019	.017	
2.0	.179	.145	.117	.153	.125	.101	.105	.087	.071	.061	.050	.041	.019	.016	.013	
3.0	.171	.128	.094	.146	.110	.082	.100	.077	.057	.058	.045	.034	.019	.015	.011	
4.0	.163	.115	.078	.140	.099	.068	.096	.069	.048	.056	.040	.028	.018	.013	.009	
5.0	.156	.104	.067	.134	.090	.058	.092	.063	.041	.053	.037	.024	.017	.012	.008	
6.0	.149	.096	.058	.128	.083	.051	.089	.058	.036	.051	.034	.021	.017	.011	.007	
7.0	.143	.090	.052	.123	.078	.045	.085	.054	.032	.049	.032	.019	.016	.010	.006	
8.0	.137	.084	.047	.118	.073	.041	.082	.051	.029	.048	.030	.017	.015	.010	.006	
9.0	.132	.079	.043	.114	.069	.038	.079	.048	.027	.046	.029	.016	.015	.009	.005	
10.0	.127	.075	.041	.109	.065	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm										
NAME: 4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	14.1	15.4	14.4	15.7	15.9	15.1	16.4	15.4	16.6	16.9
3H	14.3	15.5	14.6	15.8	16.1	15.0	16.3	15.4	16.5	16.8
4H	14.4	15.5	14.7	15.8	16.1	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.7	15.8	16.1	14.9	16.0	15.3	16.3	16.6
8H	14.3	15.4	14.7	15.7	16.0	14.9	16.0	15.3	16.3	16.6
12H	14.3	15.3	14.7	15.7	16.0	14.9	16.0	15.3	16.3	16.6
4H 2H	14.3	15.4	14.6	15.7	16.0	15.1	16.3	15.5	16.6	16.9
3H	14.5	15.6	14.9	15.9	16.2	15.1	16.1	15.5	16.5	16.8
4H	14.6	15.5	15.0	15.9	16.3	15.1	16.0	15.5	16.3	16.7
6H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.2	15.2	15.9	15.7	16.3	16.8
8H 4H	14.5	15.3	15.0	15.7	16.1	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.7	15.5	16.1	16.6
8H	14.7	15.3	15.2	15.7	16.2	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.2	15.3	15.7	16.2	15.3	15.8	15.8	16.2	16.8
12H 4H	14.5	15.2	15.0	15.6	16.1	14.9	15.6	15.4	16.0	16.5
6H	14.7	15.2	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.7	15.2	15.2	15.7	16.2	15.2	15.6	15.7	16.1	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.6				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸筒照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

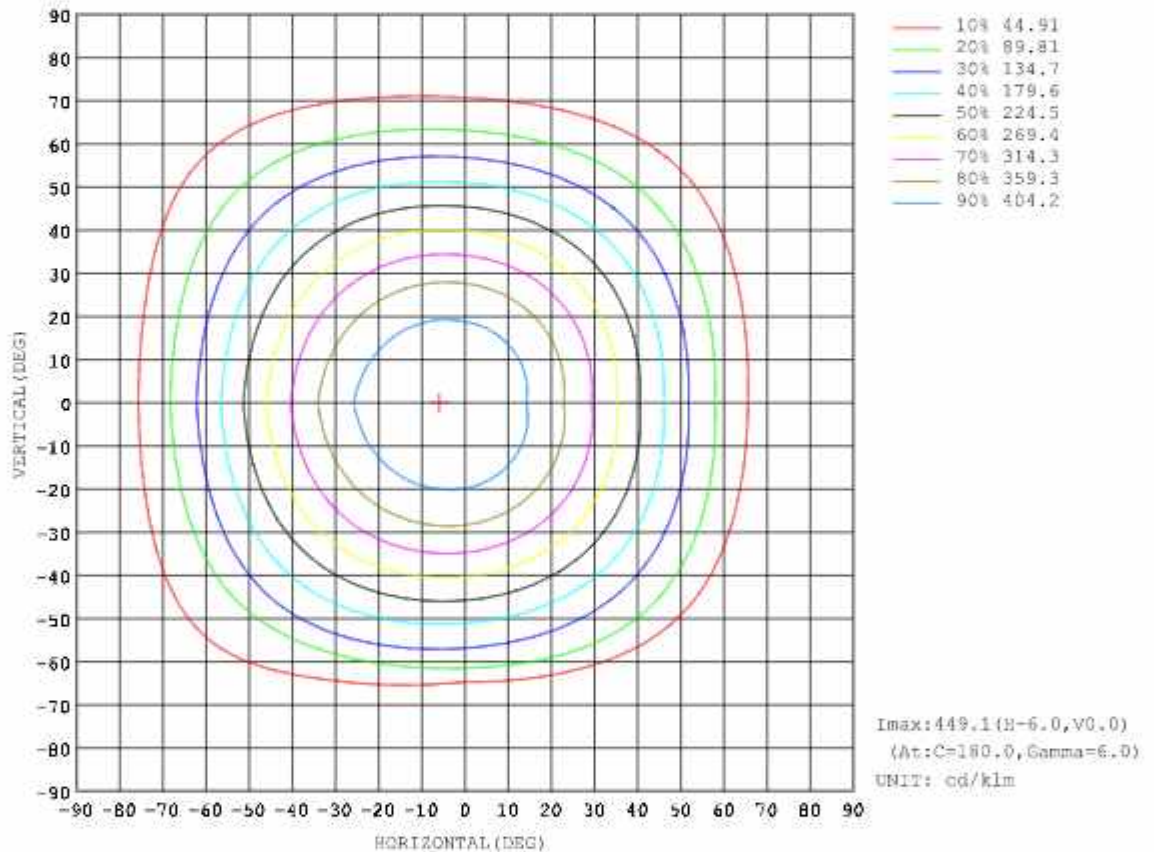
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	51	44	60	50	44	59	50	44	38
0.80	71	61	54	70	60	54	68	59	54	48
1.00	79	69	63	78	69	63	75	69	62	56
1.25	85	76	70	84	76	70	81	74	69	63
1.50	90	81	76	88	81	75	85	79	74	67
2.00	95	88	83	94	87	82	90	85	81	73
2.50	99	92	87	97	91	86	93	88	84	76
3.00	101	96	91	99	94	90	95	91	88	80
4.00	105	100	96	102	98	95	98	95	92	83
5.00	106	102	99	104	100	97	99	97	94	85
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



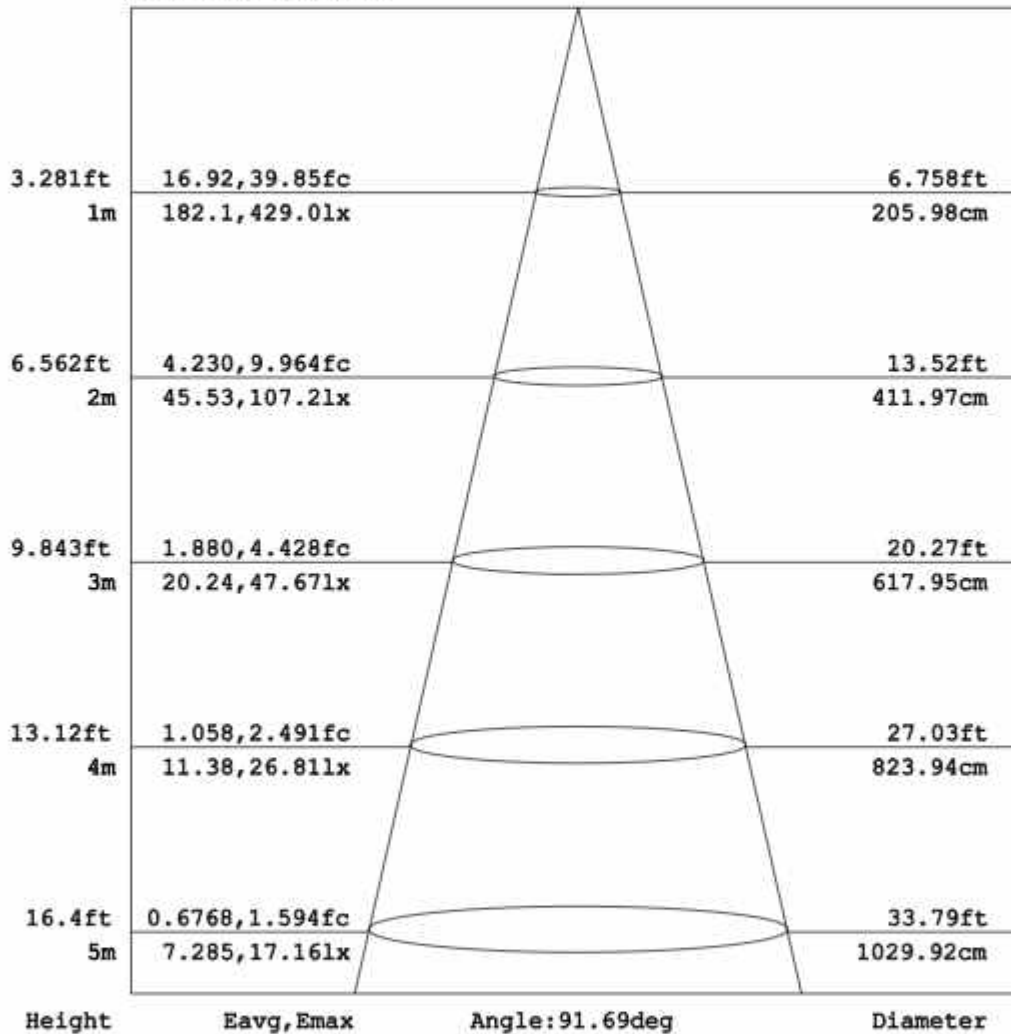
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:613.6 lm



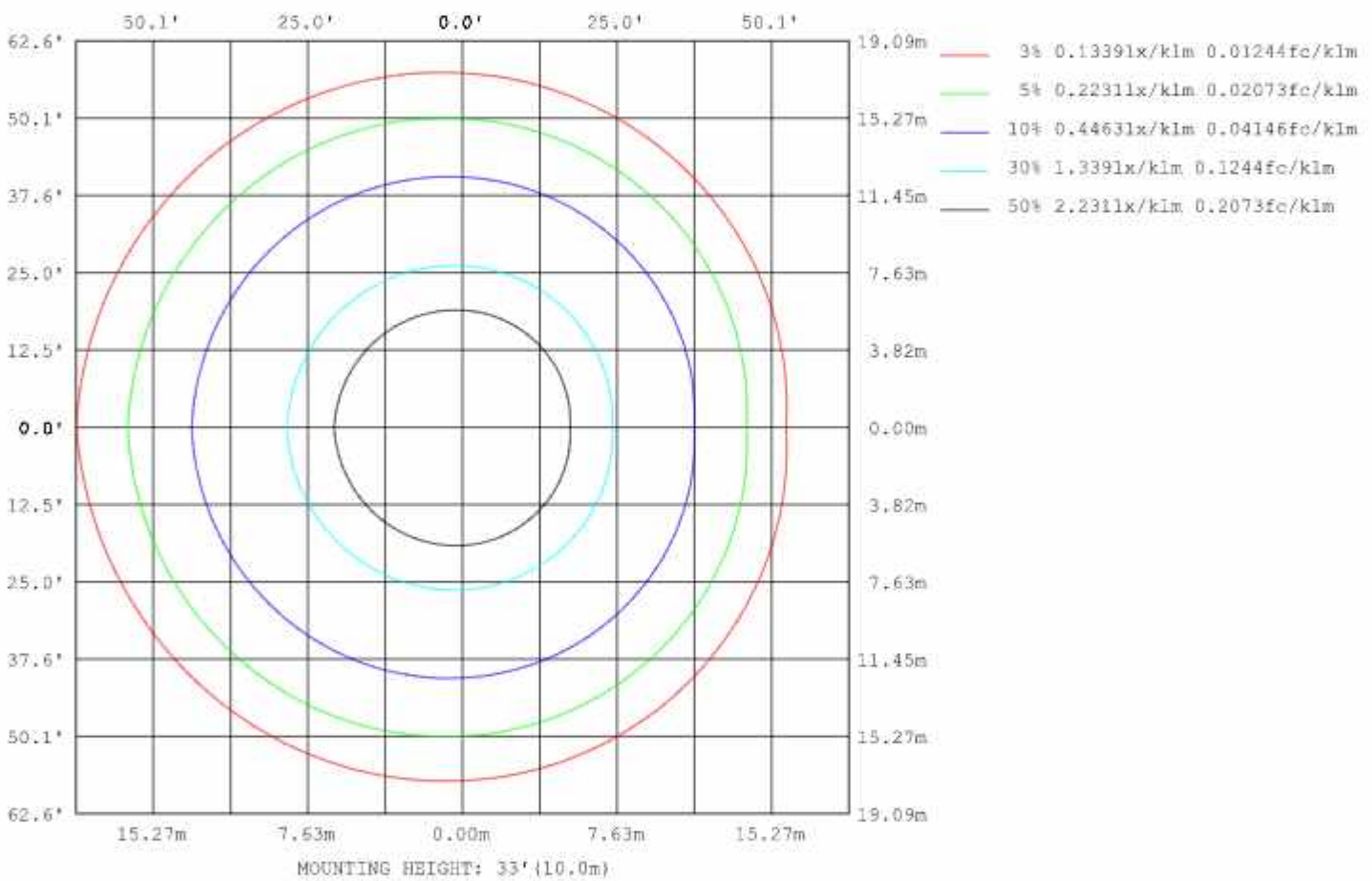
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

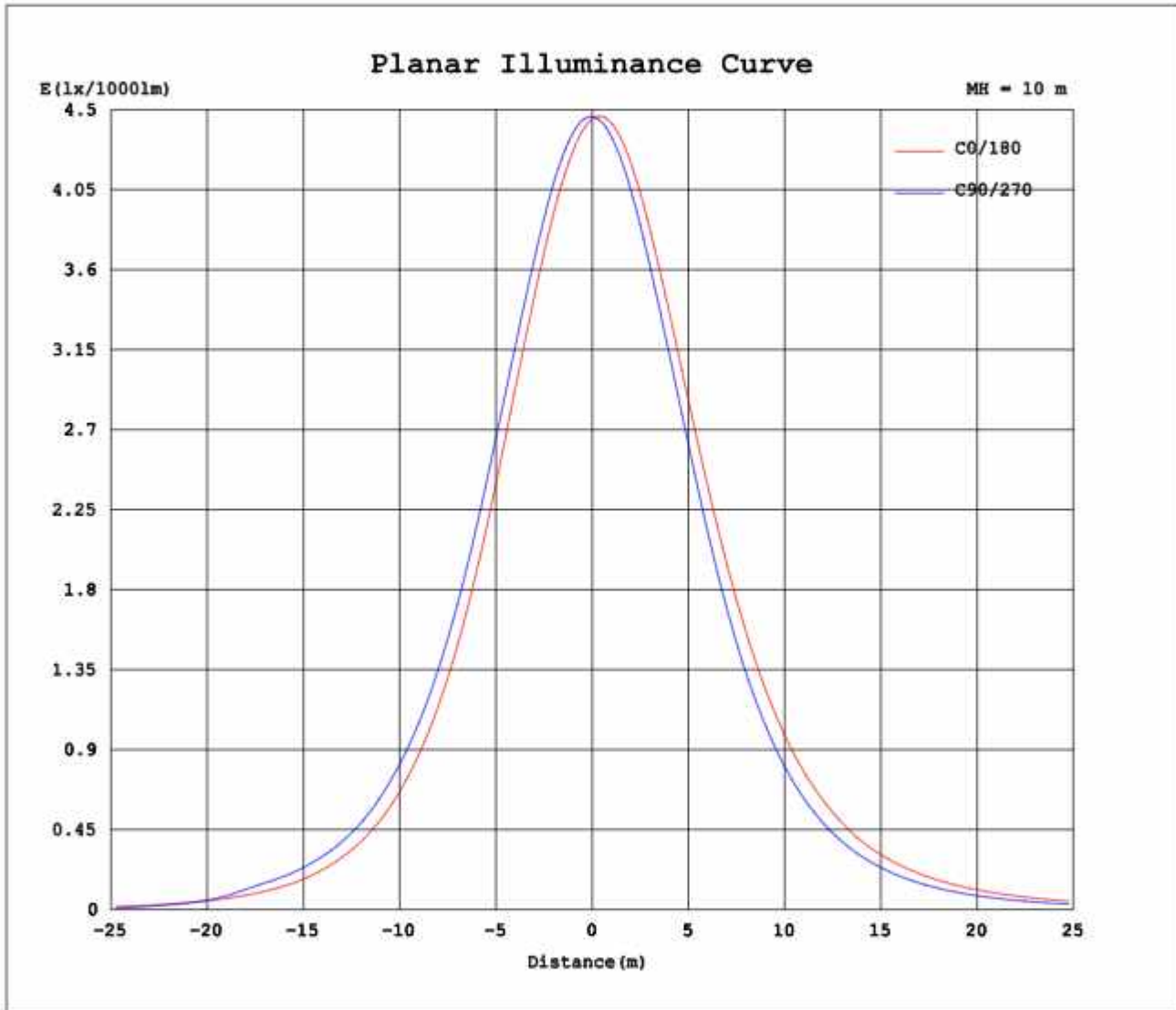
Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0750A P:9.040W PF:0.9920 Lamp Flux:961.336x1 lm		
NAME: 4寸商照	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	445	446	445	446															
5	435	444	449	442															
10	420	436	447	433															
15	401	423	440	418															
20	376	404	426	399															
25	345	379	407	374															
30	309	349	383	344															
35	270	312	353	308															
40	229	273	317	269															
45	188	231	278	228															
50	148	188	236	187															
55	111	149	192	148															
60	76.4	112	152	111															
65	47.6	42.3	113	77.6															
70	26.6	9.52	78.6	48.6															
75	16.5	6.53	48.6	25.3															
80	8.91	10.8	26.3	7.75															
85	3.91	6.79	15.2	5.27															
90	3.89	3.89	7.31	1.56															
95	3.89	3.89	1.46	1.70															
100	3.89	3.89	1.62	1.87															
105	3.91	3.89	1.80	2.07															
110	3.95	3.94	1.99	2.29															
115	4.03	3.98	2.21	2.54															
120	4.11	4.05	2.44	2.79															
125	4.20	4.14	2.68	3.07															
130	4.30	4.28	2.92	3.34															
135	4.40	4.40	3.16	3.60															
140	4.50	4.52	3.38	3.83															
145	4.63	4.67	3.63	4.00															
150	4.75	4.80	3.87	4.24															
155	4.89	4.93	4.13	4.47															
160	5.03	5.07	4.39	4.68															
165	5.16	5.18	4.67	4.89															
170	5.26	5.29	4.92	5.07															
175	5.32	5.34	5.13	5.21															
180	5.30	5.32	5.27	5.32															

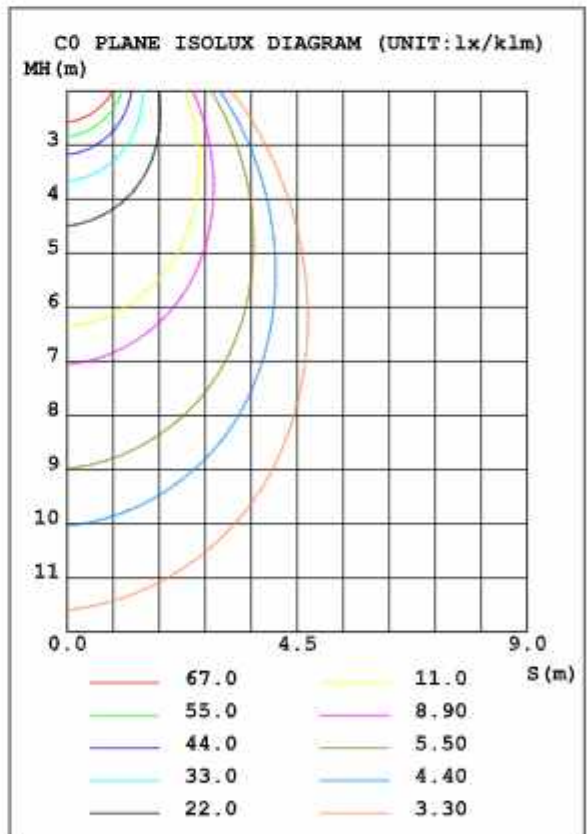
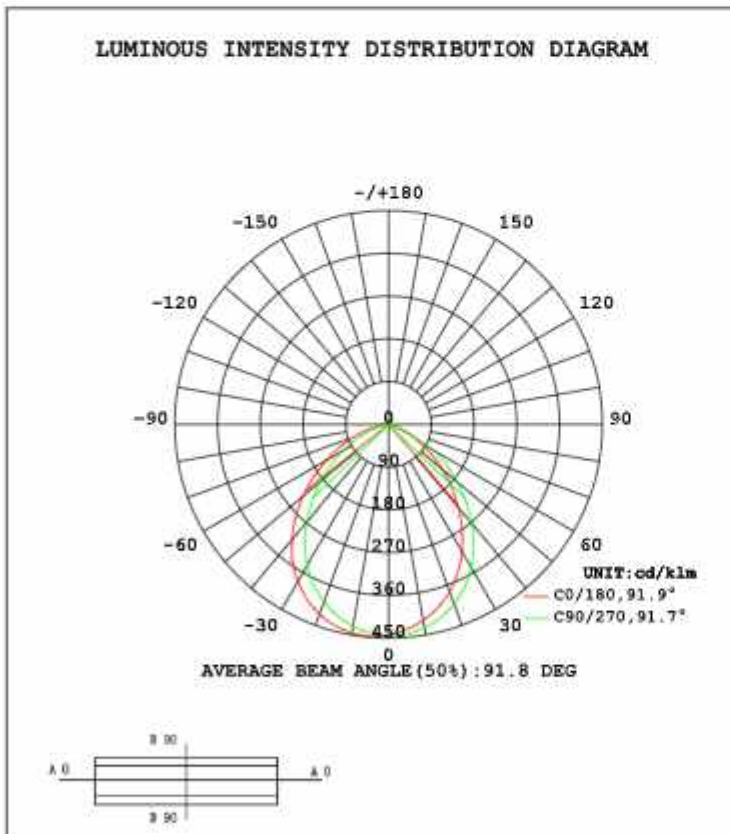
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	9W-3000K	Imax (cd/klm)	447.7	S/MH (C0/180)	1.07
NOMINAL POWER (W)	9	LOR (%)	96.7	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	966.91	η UP, DN (C0-180)	1.3, 42.4
NOMINAL FLUX (lm)	994.24	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 52.0
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	94.5	CIBSE SHR MAX	1.30



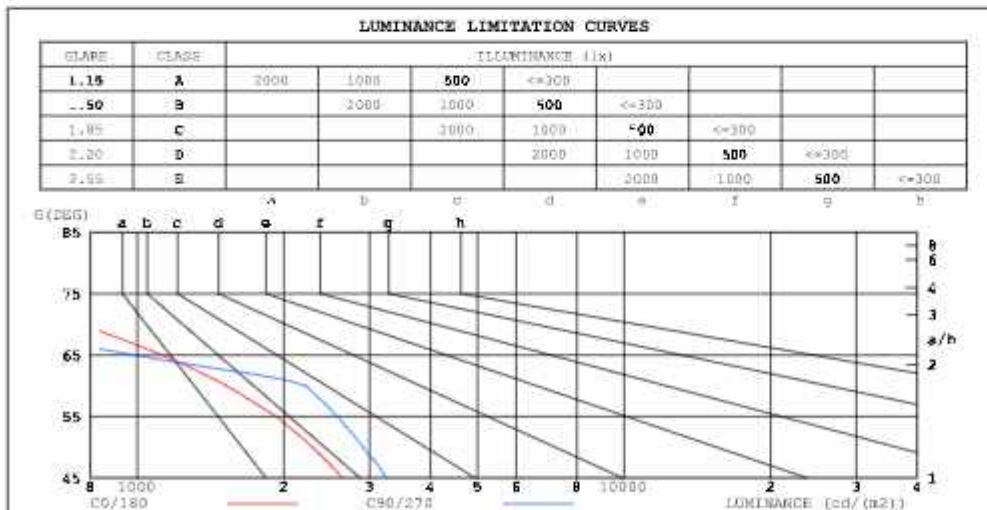
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp
10	418.9	435.1	446.0	431.7				0- 10	41.85	41.85	4.33, 4.19
20	375.1	402.5	425.0	397.8				10- 20	118.1	159.9	16.5, 16
30	308.6	347.9	382.2	343.1				20- 30	172.6	332.6	34.4, 33.3
40	228.4	272.1	316.6	268.4				30- 40	193.5	526.1	54.4, 52.6
50	148.0	187.9	235.2	187.3				40- 50	177.7	703.8	72.6, 70.4
60	76.53	111.4	151.5	111.6				50- 60	134.2	838.0	86.7, 83.8
70	26.63	9.477	78.81	48.31				60- 70	71.49	909.5	94.1, 90.9
80	8.869	10.74	26.37	7.717				70- 80	26.39	935.9	96.8, 93.6
90	3.862	3.849	7.310	1.539				80- 90	8.717	944.6	97.7, 94.5
100	3.867	3.835	1.613	1.861				90-100	3.318	947.9	98, 94.8
110	3.932	3.892	1.982	2.289				100-110	3.066	951.0	98.4, 95.1
120	4.080	4.030	2.424	2.773				110-120	3.146	954.1	98.7, 95.4
130	4.281	4.255	2.900	3.325				120-130	3.143	957.3	99, 95.7
140	4.486	4.506	3.373	3.812				130-140	2.991	960.3	99.3, 96
150	4.724	4.771	3.852	4.221				140-150	2.644	962.9	99.6, 96.3
160	4.995	5.036	4.369	4.653				150-160	2.113	965.0	99.8, 96.5
170	5.237	5.254	4.865	5.042				160-170	1.395	966.4	99.9, 96.6
180	5.274	5.311	5.237	5.307				170-180	0.4942	966.9	100, 96.7
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	443	767
80	508	615
75	633	249
70	774	276
65	1122	987
60	1522	2216
55	1923	2874
50	2289	2907
45	2636	3248

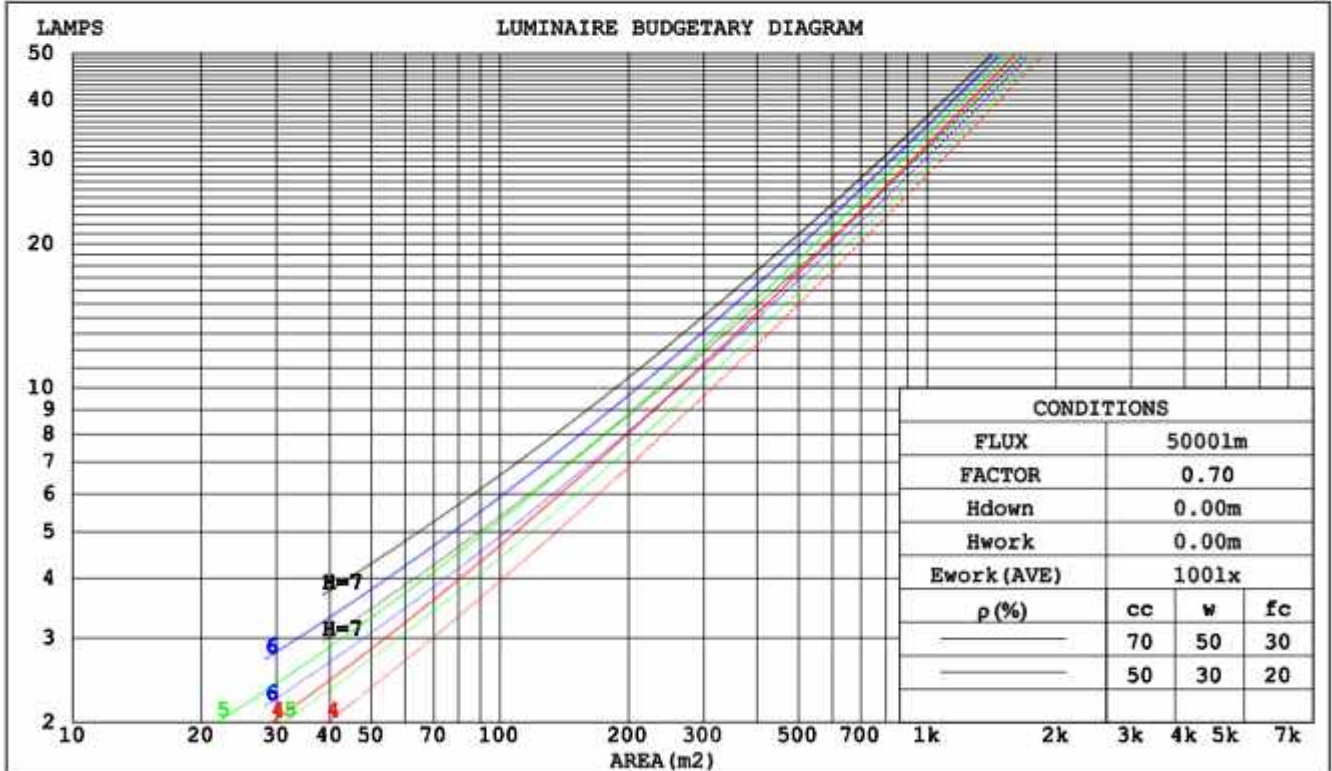
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4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	1.15	1.15	1.15	1.12	1.12	1.12	1.06	1.06	1.06	1.01	1.01	1.01	.97	.97	.97	.94
1.0	1.02	.99	.96	.90	.97	.94	.96	.93	.91	.91	.89	.87	.88	.86	.85	.82
2.0	.91	.85	.81	.89	.84	.79	.85	.81	.77	.82	.78	.75	.79	.76	.73	.71
3.0	.81	.74	.69	.80	.73	.68	.77	.71	.67	.74	.69	.65	.71	.67	.64	.62
4.0	.73	.65	.59	.71	.64	.59	.69	.63	.58	.66	.61	.57	.64	.60	.56	.54
5.0	.66	.58	.52	.65	.57	.52	.62	.56	.51	.60	.55	.50	.58	.53	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.53	.48	.44	.42
7.0	.54	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
8.0	.50	.42	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.45	.40	.36	.34
9.0	.46	.39	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31
10.0	.43	.35	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸商照	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	.252	.143	.045	.245	.140	.044	.231	.132	.042	.218	.126	.040	.206	.120	.039	
2.0	.242	.133	.041	.236	.130	.040	.224	.124	.039	.213	.119	.037	.202	.114	.036	
3.0	.229	.122	.036	.223	.119	.036	.212	.115	.035	.202	.111	.034	.193	.107	.033	
4.0	.214	.111	.033	.209	.110	.032	.200	.106	.032	.191	.103	.031	.183	.099	.030	
5.0	.201	.102	.030	.196	.101	.029	.188	.098	.029	.180	.095	.028	.173	.092	.028	
6.0	.188	.094	.027	.184	.093	.027	.177	.091	.026	.170	.088	.026	.163	.086	.026	
7.0	.177	.088	.025	.173	.086	.025	.167	.084	.024	.160	.082	.024	.154	.080	.024	
8.0	.167	.081	.023	.163	.080	.023	.157	.079	.022	.151	.077	.022	.146	.075	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.143	.072	.021	.138	.070	.020	
10.0	.149	.071	.020	.146	.071	.020	.141	.069	.019	.136	.068	.019	.132	.066	.019	

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	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.188	.169	.151	.161	.145	.130	.110	.100	.090	.063	.058	.052	.020	.019	.017	
2.0	.178	.145	.117	.153	.125	.101	.105	.086	.070	.060	.050	.041	.019	.016	.013	
3.0	.170	.128	.094	.146	.110	.081	.100	.076	.057	.058	.045	.034	.019	.015	.011	
4.0	.163	.114	.078	.139	.099	.068	.096	.069	.048	.055	.040	.028	.018	.013	.009	
5.0	.156	.104	.066	.134	.090	.058	.092	.063	.041	.053	.037	.024	.017	.012	.008	
6.0	.149	.096	.058	.128	.083	.050	.088	.058	.036	.051	.034	.021	.017	.011	.007	
7.0	.143	.089	.052	.123	.077	.045	.085	.054	.032	.049	.032	.019	.016	.010	.006	
8.0	.137	.084	.047	.118	.073	.041	.082	.051	.029	.047	.030	.017	.015	.010	.006	
9.0	.132	.079	.043	.113	.068	.038	.079	.048	.027	.046	.028	.016	.015	.009	.005	
10.0	.126	.075	.040	.109	.065	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm										
NAME: 4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	14.1	15.4	14.4	15.7	15.9	15.1	16.4	15.4	16.6	16.9
3H	14.3	15.6	14.6	15.8	16.1	15.0	16.3	15.3	16.5	16.8
4H	14.4	15.5	14.7	15.8	16.1	14.9	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.7	15.8	16.1	14.9	16.0	15.3	16.3	16.6
8H	14.3	15.4	14.7	15.7	16.0	14.9	16.0	15.3	16.3	16.6
12H	14.3	15.3	14.7	15.7	16.0	14.9	15.9	15.3	16.3	16.6
4H 2H	14.3	15.4	14.6	15.7	16.0	15.1	16.3	15.5	16.6	16.9
3H	14.5	15.6	14.9	15.9	16.2	15.1	16.1	15.5	16.4	16.8
4H	14.6	15.5	15.0	15.9	16.3	15.0	16.0	15.5	16.3	16.7
6H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.3	15.2	15.9	15.6	16.3	16.7
8H 4H	14.5	15.3	15.0	15.7	16.1	15.0	15.7	15.4	16.1	16.5
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.7	15.5	16.1	16.6
8H	14.7	15.3	15.2	15.7	16.2	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.2	15.3	15.7	16.2	15.3	15.7	15.8	16.2	16.8
12H 4H	14.5	15.2	15.0	15.6	16.1	14.9	15.6	15.4	16.0	16.5
6H	14.7	15.2	15.2	15.7	16.2	15.1	15.6	15.5	16.1	16.6
8H	14.7	15.2	15.2	15.7	16.2	15.2	15.6	15.7	16.1	16.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

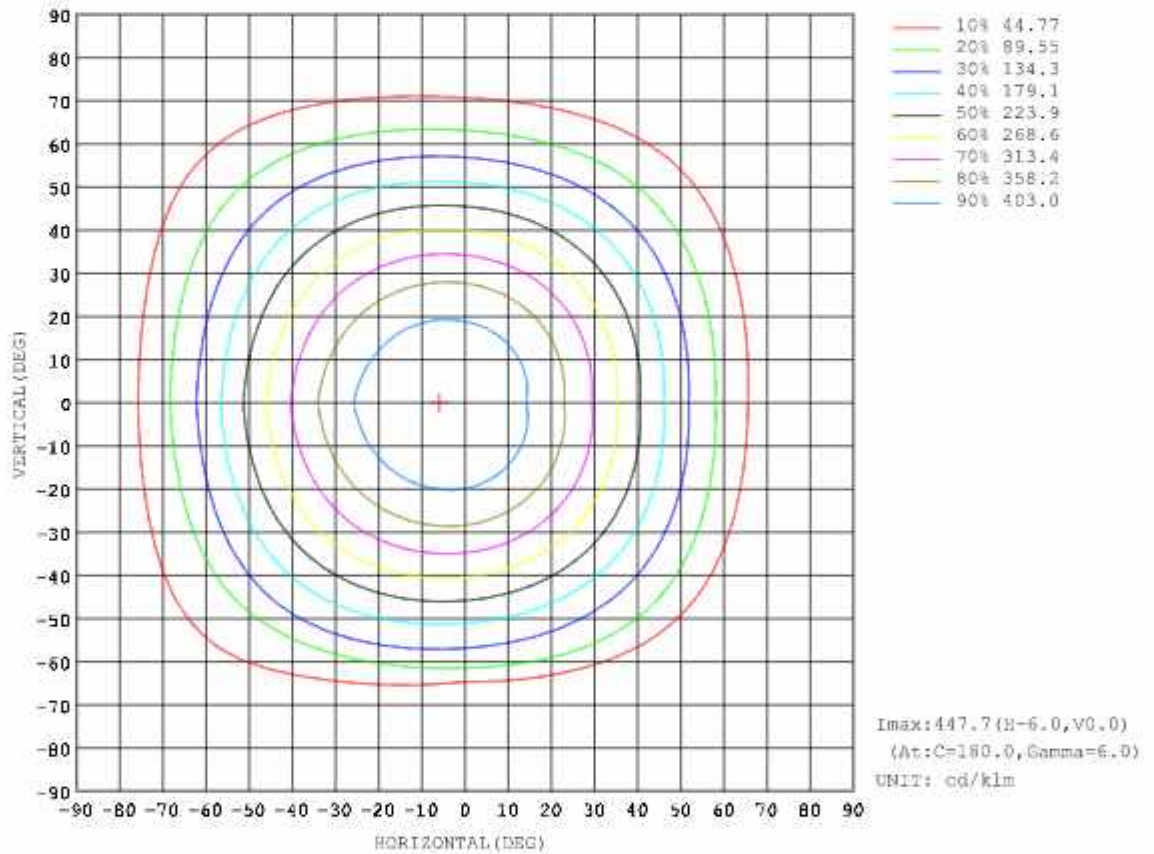
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	44	60	50	44	59	50	44	38
0.80	71	61	54	70	60	54	68	59	54	47
1.00	79	69	63	77	69	63	75	69	62	56
1.25	85	76	70	84	76	70	81	74	69	62
1.50	89	81	76	88	80	75	85	79	74	67
2.00	95	88	83	93	87	82	90	85	80	73
2.50	98	92	87	96	91	86	93	88	84	76
3.00	101	96	91	99	94	90	95	91	87	79
4.00	104	100	96	102	98	94	98	94	91	83
5.00	106	102	99	104	100	97	99	96	94	85
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



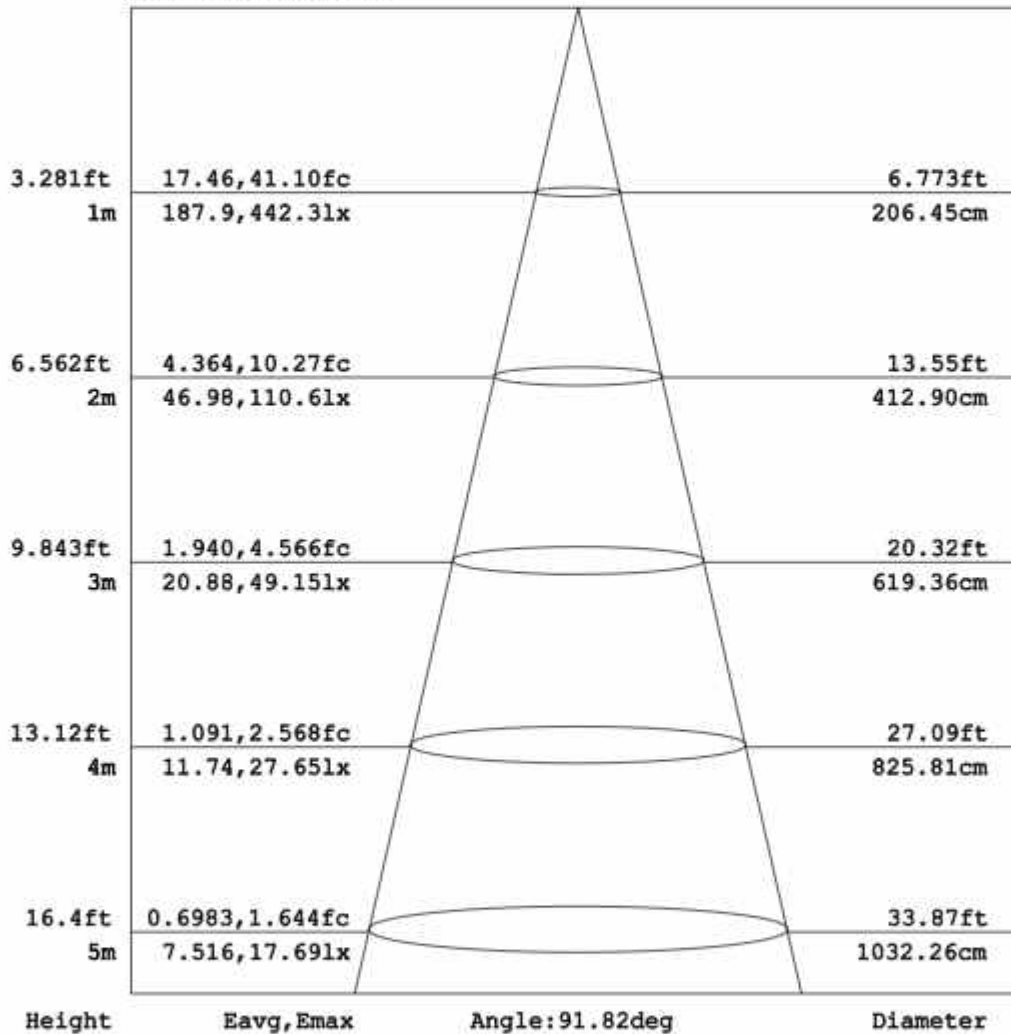
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:633.0 lm



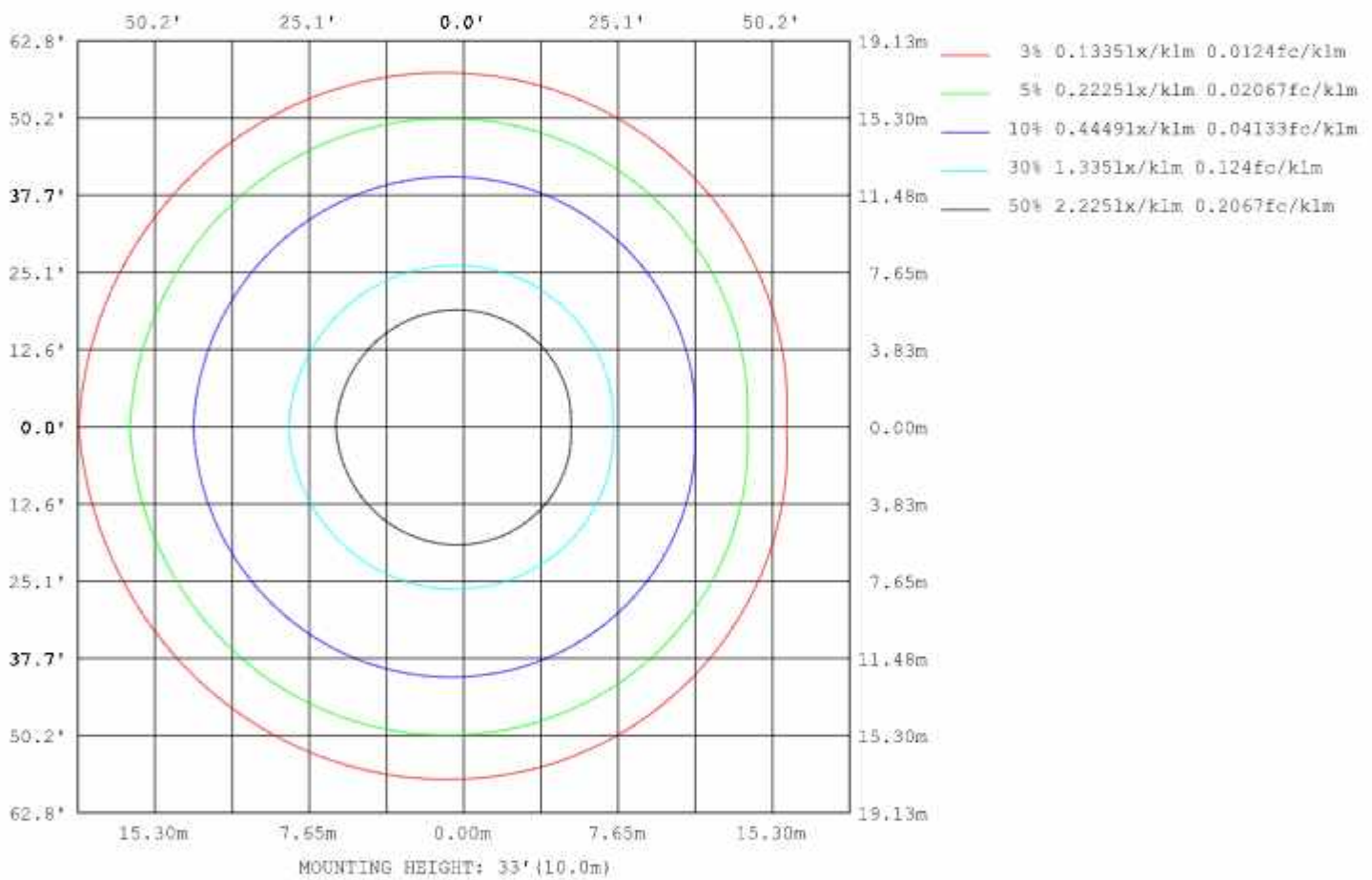
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

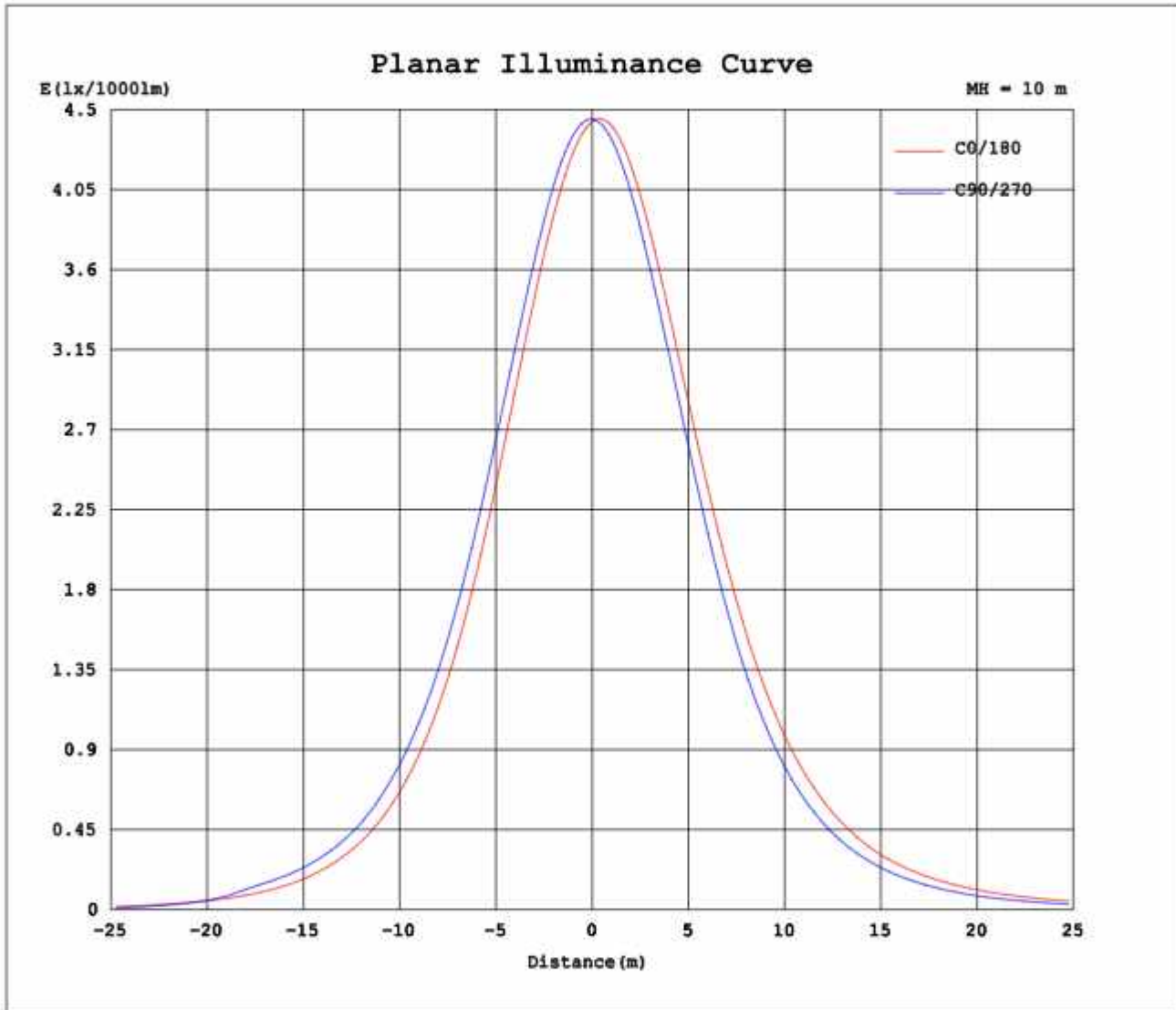
Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0740A P:8.960W PF:0.9910 Lamp Flux:994.24x1 lm		
NAME: 4寸商照	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	443	445	443	445															
5	434	443	448	441															
10	419	435	446	432															
15	400	422	438	417															
20	375	403	425	398															
25	344	378	406	373															
30	309	348	382	343															
35	269	312	352	307															
40	228	272	317	268															
45	188	231	277	228															
50	148	188	235	187															
55	111	149	192	148															
60	76.5	111	151	112															
65	47.7	41.9	114	77.4															
70	26.6	9.48	78.8	48.3															
75	16.5	6.48	48.8	25.1															
80	8.87	10.7	26.4	7.72															
85	3.89	6.73	15.2	5.24															
90	3.86	3.85	7.31	1.54															
95	3.86	3.84	1.45	1.67															
100	3.87	3.83	1.61	1.86															
105	3.88	3.85	1.79	2.06															
110	3.93	3.89	1.98	2.29															
115	4.01	3.96	2.20	2.52															
120	4.08	4.03	2.42	2.77															
125	4.17	4.13	2.66	3.06															
130	4.28	4.25	2.90	3.33															
135	4.38	4.38	3.14	3.58															
140	4.49	4.51	3.37	3.81															
145	4.61	4.63	3.60	3.99															
150	4.72	4.77	3.85	4.22															
155	4.85	4.90	4.10	4.44															
160	5.00	5.04	4.37	4.65															
165	5.13	5.16	4.61	4.87															
170	5.24	5.25	4.86	5.04															
175	5.29	5.30	5.08	5.19															
180	5.27	5.31	5.24	5.31															

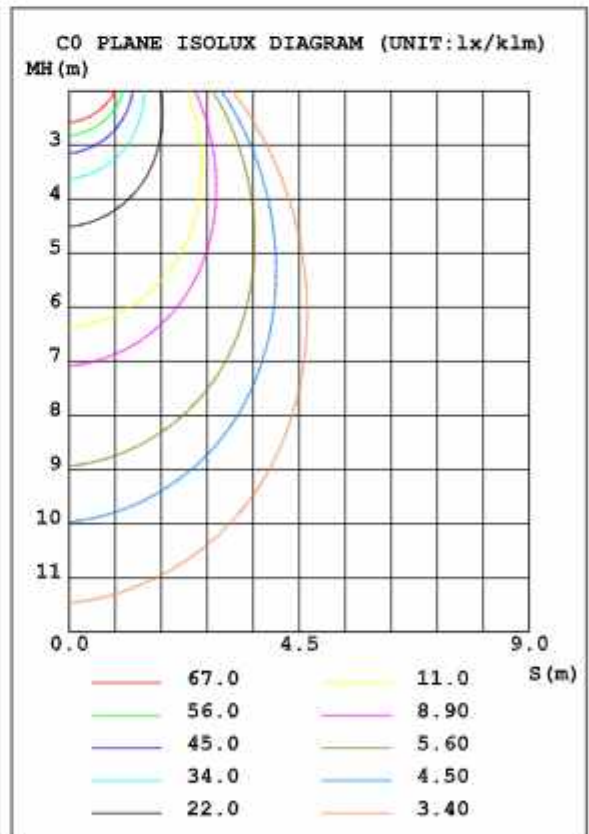
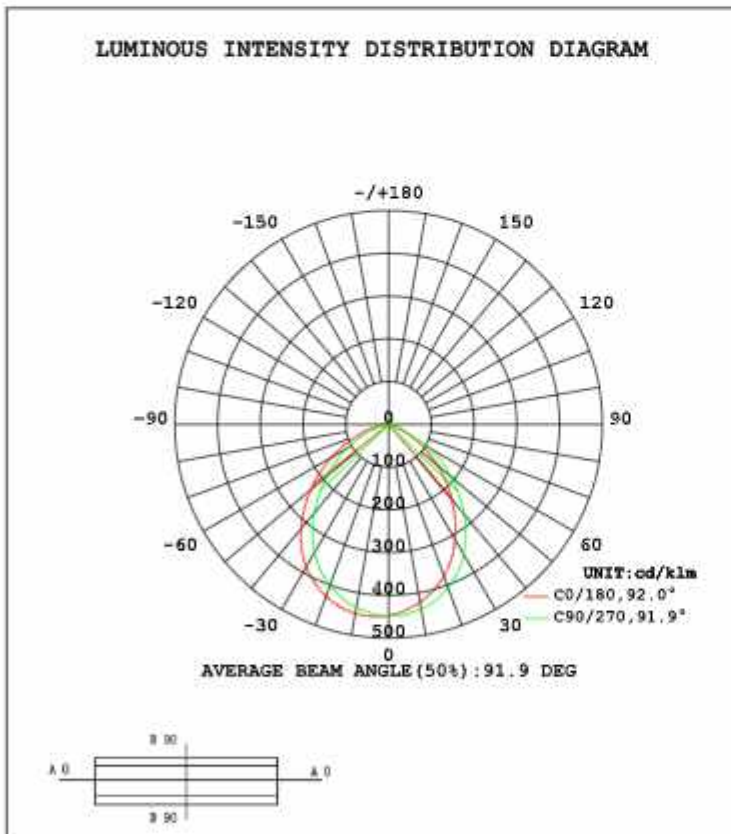
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.34 lm/W			
MODEL	9W-3500K	I _{max} (cd/klm)	451.3	S/MH (C0/180)	1.07
NOMINAL POWER (W)	9	LOR (%)	97.6	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	975.84	η UP, DN (C0-180)	1.3, 42.8
NOMINAL FLUX (lm)	1018.86	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 52.5
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	95.3	CIBSE SHR MAX	1.30



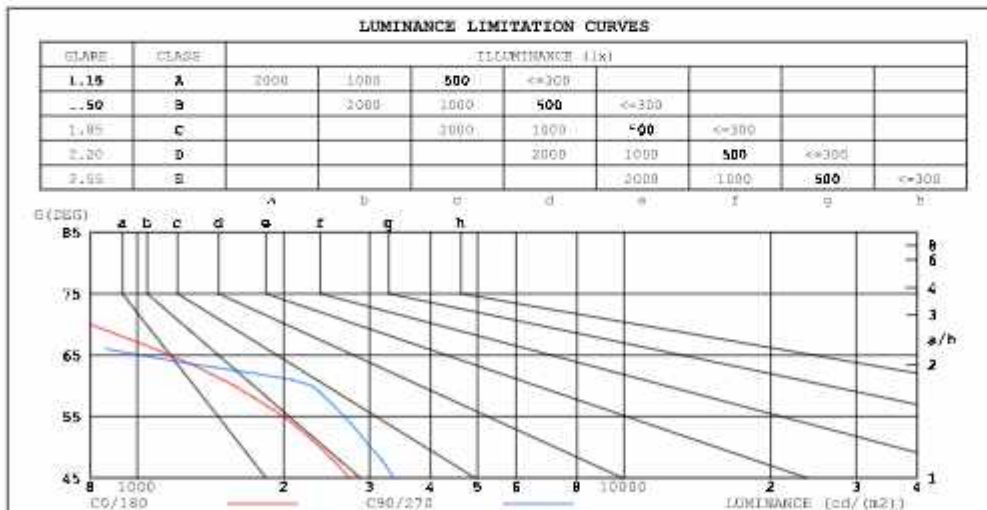
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp	
10	422.3	438.6	449.4	435.4				0- 10	42.19	42.19	4.32, 4.22	
20	378.3	406.0	428.4	401.4				10- 20	119.0	161.2	16.5, 16.1	
30	311.2	351.1	385.3	346.5				20- 30	174.1	335.4	34.4, 33.5	
40	230.5	275.0	319.0	271.4				30- 40	195.3	530.7	54.4, 53.1	
50	149.5	189.8	237.3	189.5				40- 50	179.5	710.2	72.8, 71	
60	77.56	112.3	153.1	112.6				50- 60	135.6	845.8	86.7, 84.6	
70	26.95	9.513	79.90	48.59				60- 70	72.20	918.0	94.1, 91.8	
80	8.920	10.80	26.73	7.756				70- 80	26.68	944.7	96.8, 94.5	
90	3.867	3.844	7.391	1.525				80- 90	8.786	953.5	97.7, 95.3	
100	3.865	3.844	1.620	1.845				90-100	3.321	956.8	98.1, 95.7	
110	3.932	3.896	1.996	2.270				100-110	3.068	959.9	98.4, 96	
120	4.096	4.031	2.434	2.758				110-120	3.149	963.0	98.7, 96.3	
130	4.286	4.263	2.918	3.311				120-130	3.146	966.2	99, 96.6	
140	4.485	4.508	3.400	3.808				130-140	2.994	969.2	99.3, 96.9	
150	4.734	4.770	3.870	4.240				140-150	2.650	971.8	99.6, 97.2	
160	5.009	5.051	4.394	4.678				150-160	2.120	973.9	99.8, 97.4	
170	5.241	5.267	4.921	5.058				160-170	1.400	975.3	99.9, 97.5	
180	5.284	5.336	5.287	5.303				170-180	0.4965	975.8	100, 97.6	
DEG	LUMINOUS INTENSITY: cd/klm							UNIT: lm/klm				



LUMINANCE cd / (m²)		
θ (DEG)	C0/180	C90/270
85	455	789
80	523	634
75	655	256
70	803	283
65	1166	1015
60	1580	2288
55	1992	2662
50	2370	3009
45	2727	3362

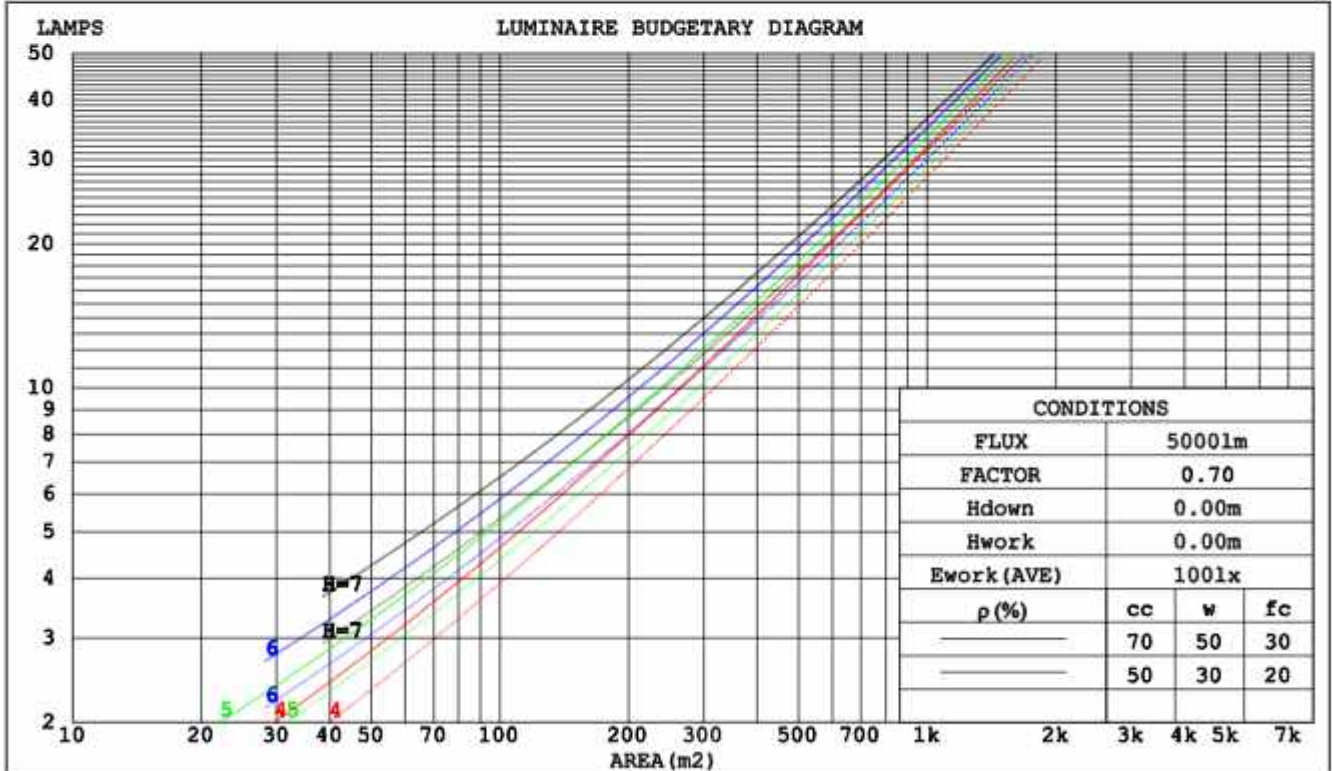
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4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	1.16	1.16	1.16	1.13	1.13	1.13	1.07	1.07	1.07	1.02	1.02	1.02	.98	.98	.98	.95
1.0	1.03	.90	.97	1.01	.98	.95	.96	.94	.91	.92	.90	.88	.89	.87	.85	.83
2.0	.92	.86	.81	.90	.85	.80	.86	.82	.78	.83	.79	.76	.80	.77	.74	.72
3.0	.82	.75	.69	.80	.74	.69	.77	.72	.67	.74	.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	.53	.65	.58	.52	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.52	.46	.57	.51	.46	.55	.50	.45	.54	.49	.45	.43
7.0	.55	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.49	.44	.40	.38
8.0	.50	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.39	.34	.46	.39	.34	.45	.38	.33	.43	.37	.33	.42	.37	.33	.31
10.0	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸商照	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	.255	.145	.046	.247	.141	.045	.233	.134	.043	.220	.127	.041	.208	.121	.039	
2.0	.245	.134	.041	.238	.131	.040	.226	.126	.039	.215	.120	.038	.204	.116	.036	
3.0	.231	.123	.037	.225	.121	.036	.214	.116	.035	.204	.112	.034	.195	.108	.033	
4.0	.217	.113	.033	.211	.111	.033	.202	.107	.032	.193	.104	.031	.185	.100	.031	
5.0	.203	.103	.030	.198	.102	.030	.190	.099	.029	.182	.096	.029	.174	.093	.028	
6.0	.190	.095	.027	.186	.094	.027	.179	.092	.027	.171	.089	.026	.165	.087	.026	
7.0	.179	.088	.025	.175	.087	.025	.168	.085	.024	.162	.083	.024	.156	.081	.024	
8.0	.168	.082	.023	.165	.081	.023	.159	.079	.023	.153	.077	.022	.147	.076	.022	
9.0	.159	.077	.021	.156	.076	.021	.150	.074	.021	.145	.073	.021	.140	.071	.021	
10.0	.150	.072	.020	.147	.071	.020	.142	.070	.020	.137	.068	.019	.133	.067	.019	

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	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.190	.170	.152	.162	.146	.131	.111	.100	.091	.064	.058	.053	.020	.019	.017	
2.0	.180	.146	.118	.154	.126	.102	.106	.087	.071	.061	.051	.042	.020	.016	.014	
3.0	.172	.129	.094	.147	.111	.082	.101	.077	.057	.058	.045	.034	.019	.015	.011	
4.0	.164	.115	.078	.141	.100	.068	.097	.069	.048	.056	.041	.028	.018	.013	.009	
5.0	.157	.105	.067	.135	.091	.058	.093	.063	.041	.054	.037	.024	.017	.012	.008	
6.0	.150	.097	.058	.129	.084	.051	.089	.059	.036	.052	.034	.021	.017	.011	.007	
7.0	.144	.090	.052	.124	.078	.045	.086	.055	.032	.050	.032	.019	.016	.011	.006	
8.0	.138	.084	.047	.119	.073	.041	.082	.051	.029	.048	.030	.017	.015	.010	.006	
9.0	.133	.079	.044	.114	.069	.038	.079	.048	.027	.046	.029	.016	.015	.009	.005	
10.0	.128	.075	.041	.110	.065	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm										
NAME: 4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	14.1	15.5	14.4	15.7	15.9	15.1	16.4	15.4	16.7	16.9
3H	14.4	15.6	14.7	15.9	16.1	15.1	16.3	15.4	16.6	16.8
4H	14.4	15.6	14.7	15.8	16.1	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.8	15.8	16.1	14.9	16.0	15.3	16.3	16.7
8H	14.4	15.4	14.8	15.8	16.1	15.0	16.0	15.3	16.3	16.7
12H	14.4	15.4	14.7	15.7	16.0	15.0	16.0	15.3	16.3	16.6
4H 2H	14.3	15.5	14.7	15.8	16.1	15.2	16.3	15.5	16.6	16.9
3H	14.6	15.6	15.0	15.9	16.3	15.1	16.2	15.5	16.5	16.8
4H	14.7	15.6	15.1	15.9	16.3	15.1	16.0	15.5	16.4	16.7
6H	14.7	15.5	15.2	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.2	15.9	16.3	15.2	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.3	15.0	15.7	16.2	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.3	15.2	15.8	16.3	15.1	15.7	15.6	16.2	16.6
8H	14.8	15.3	15.3	15.8	16.3	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.3	15.3	15.7	16.3	15.3	15.8	15.8	16.3	16.8
12H 4H	14.6	15.2	15.0	15.7	16.1	15.0	15.6	15.4	16.1	16.5
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.8	15.2	15.3	15.7	16.2	15.2	15.7	15.7	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

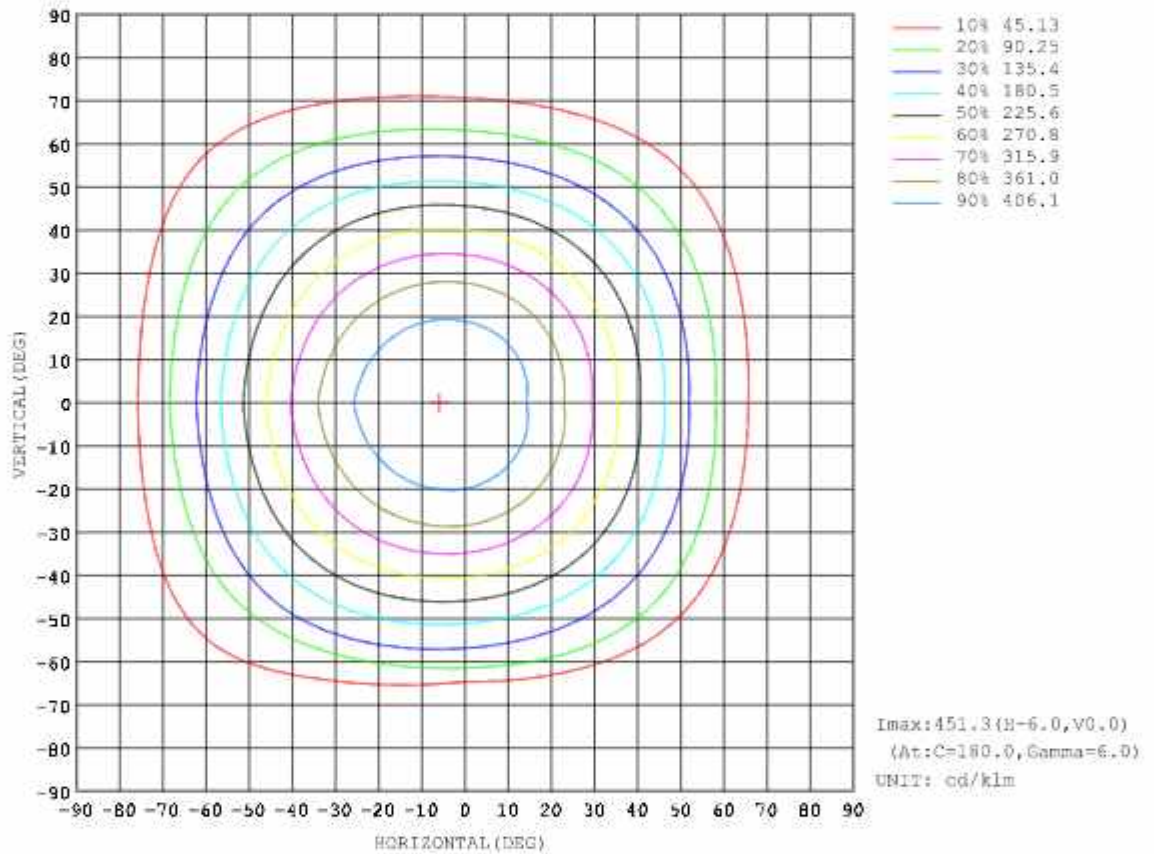
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	51	45	60	51	45	59	50	44	39
0.80	71	61	55	70	61	54	68	60	54	48
1.00	79	70	64	78	69	63	76	70	63	56
1.25	86	77	71	84	76	71	82	75	70	63
1.50	90	82	76	89	81	76	86	79	74	68
2.00	96	89	84	94	88	83	91	85	81	74
2.50	99	93	88	97	91	87	93	89	85	77
3.00	102	96	92	100	95	91	96	92	88	80
4.00	105	101	97	103	99	95	99	95	92	84
5.00	107	103	100	105	101	98	100	97	95	86
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



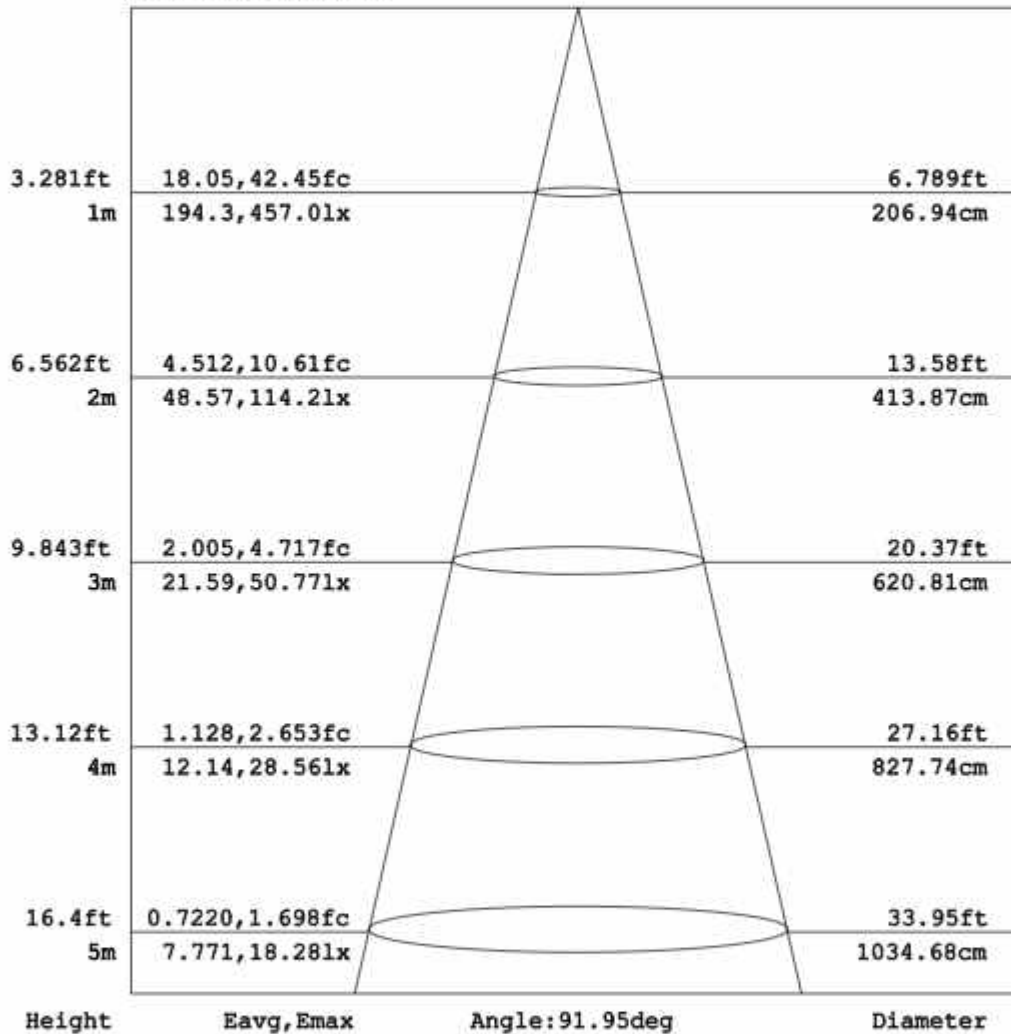
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸筒照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:654.5 lm



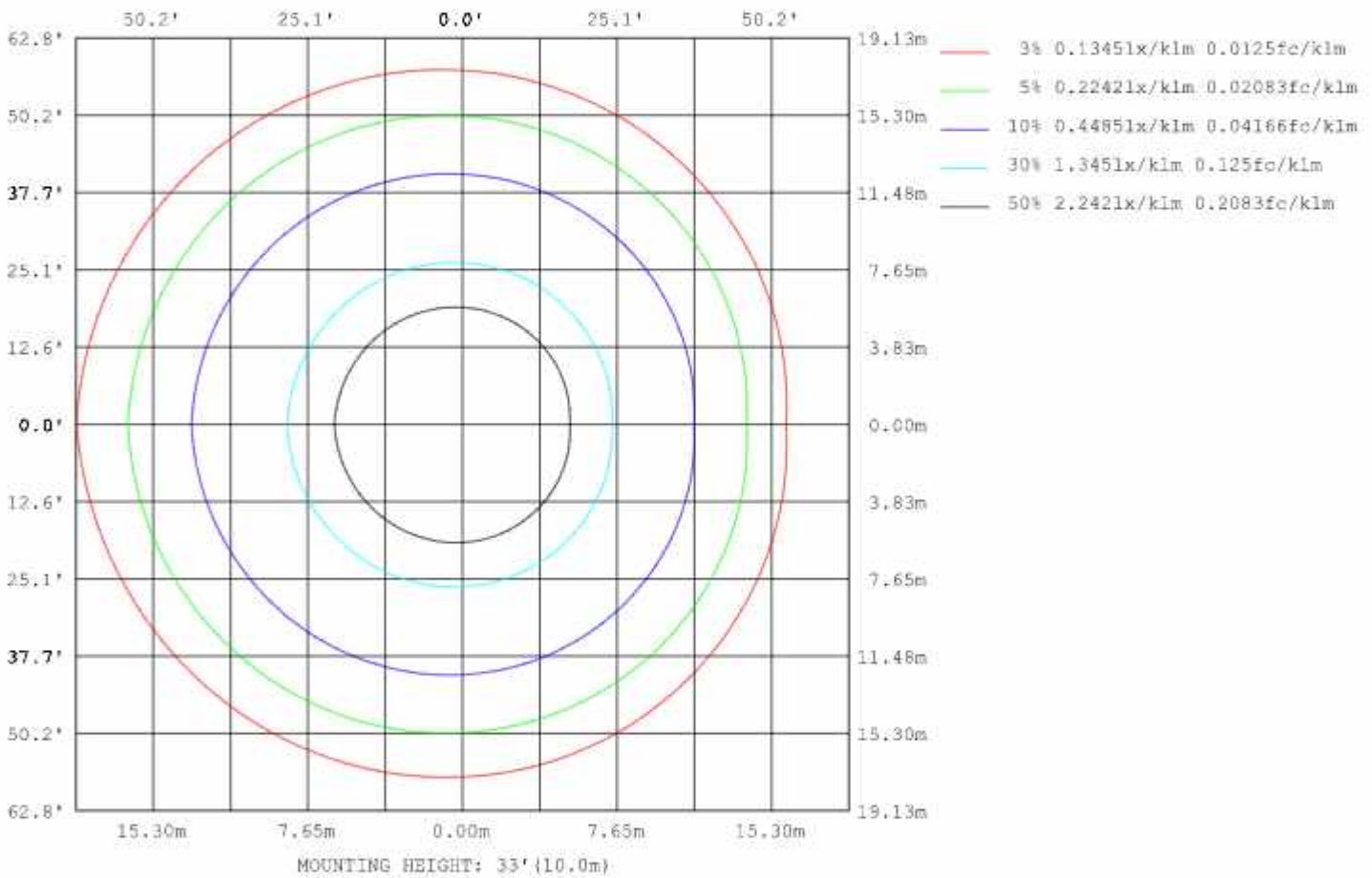
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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

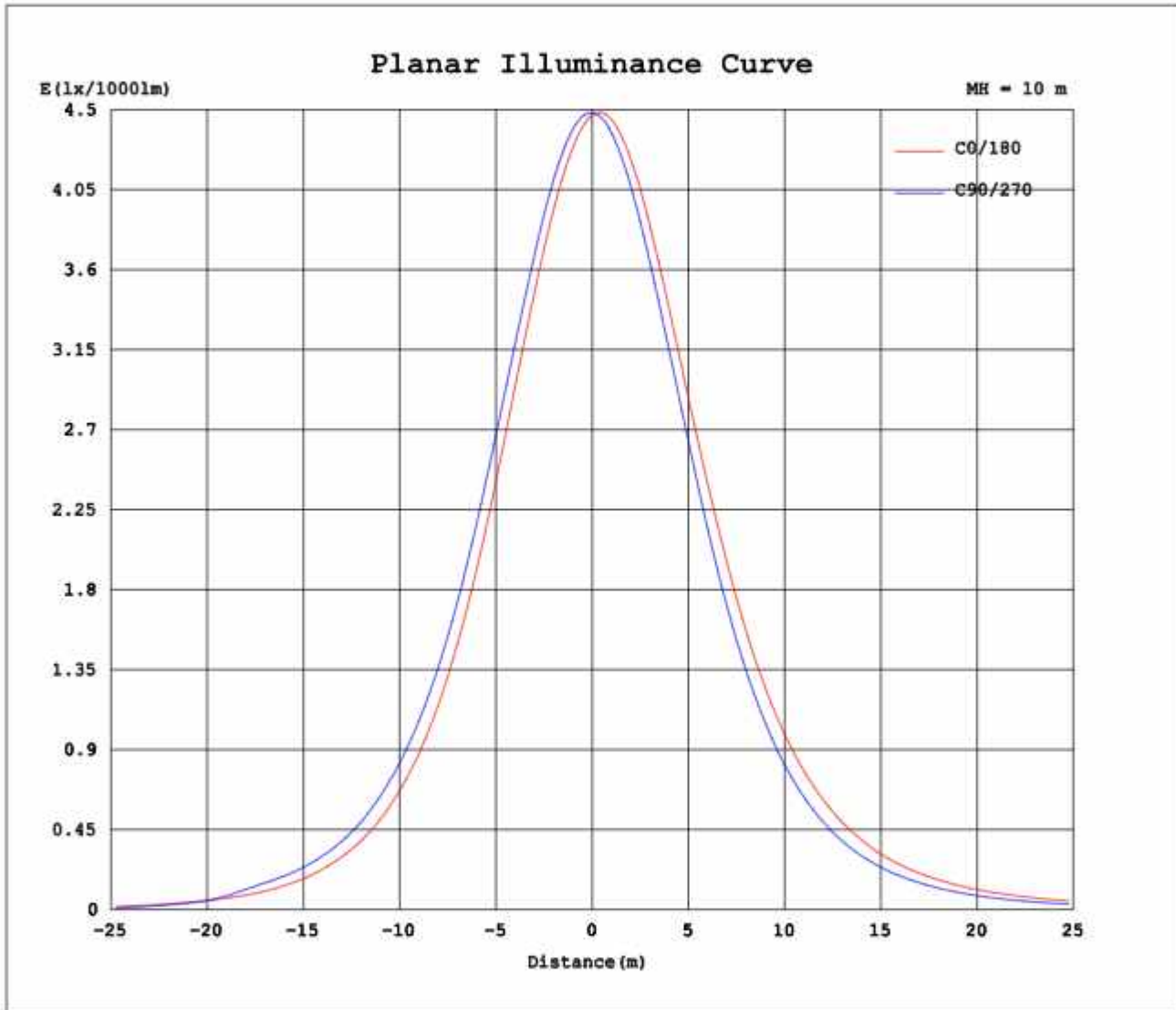
Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1018.86x1 lm		
NAME: 4寸商照	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	447	448	447	448																
5	437	446	451	445																
10	422	439	449	435																
15	403	425	442	421																
20	378	406	428	401																
25	347	382	409	377																
30	311	351	385	346																
35	272	315	355	311																
40	230	275	319	271																
45	189	233	279	231																
50	150	190	237	190																
55	112	150	195	150																
60	77.6	112	153	113																
65	48.4	42.1	115	78.0																
70	26.9	9.51	79.9	48.6																
75	16.6	6.50	49.6	25.3																
80	8.92	10.8	26.7	7.76																
85	3.89	6.75	15.4	5.27																
90	3.87	3.84	7.39	1.53																
95	3.86	3.84	1.47	1.66																
100	3.87	3.84	1.62	1.85																
105	3.89	3.84	1.81	2.04																
110	3.93	3.90	2.00	2.27																
115	4.02	3.96	2.21	2.51																
120	4.10	4.03	2.43	2.76																
125	4.18	4.14	2.68	3.04																
130	4.29	4.26	2.92	3.31																
135	4.38	4.38	3.15	3.57																
140	4.49	4.51	3.40	3.81																
145	4.61	4.64	3.63	4.01																
150	4.73	4.77	3.87	4.24																
155	4.86	4.91	4.13	4.46																
160	5.01	5.05	4.39	4.68																
165	5.14	5.17	4.66	4.86																
170	5.24	5.27	4.92	5.06																
175	5.29	5.33	5.14	5.20																
180	5.28	5.34	5.29	5.30																

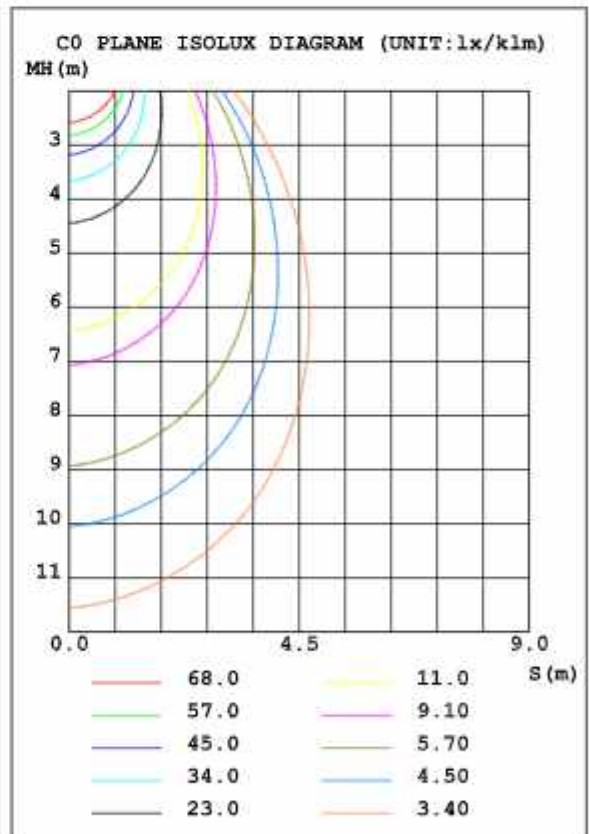
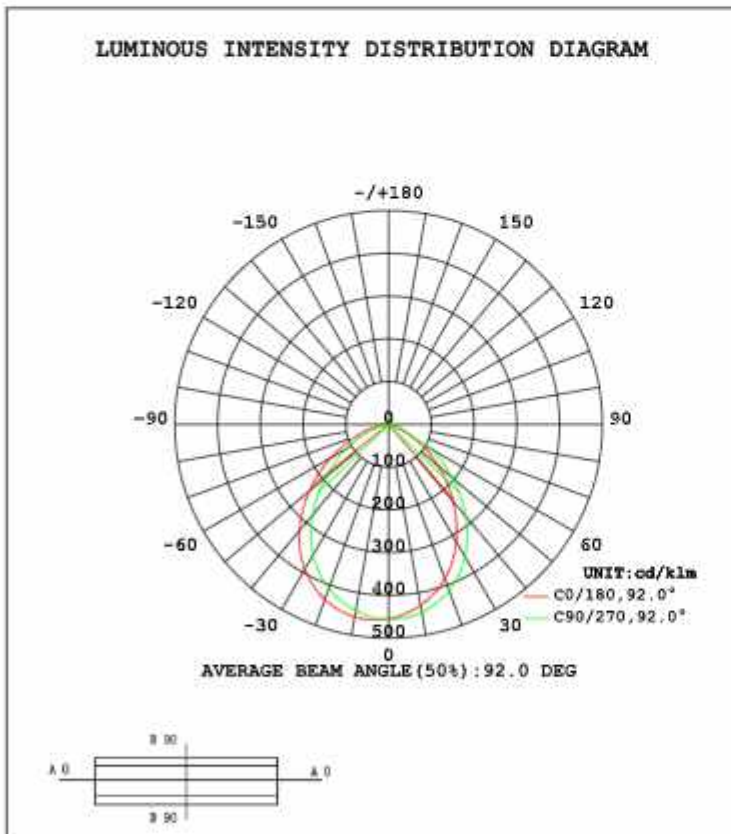
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.03 lm/W			
MODEL	9W-4000K	I _{max} (cd/klm)	459.2	S/MH (C0/180)	1.07
NOMINAL POWER (W)	9	LOR (%)	99.4	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	994.29	η UP, DN (C0-180)	1.4, 43.6
NOMINAL FLUX (lm)	1014.99	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 53.5
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	97.1	CIBSE SHR MAX	1.30



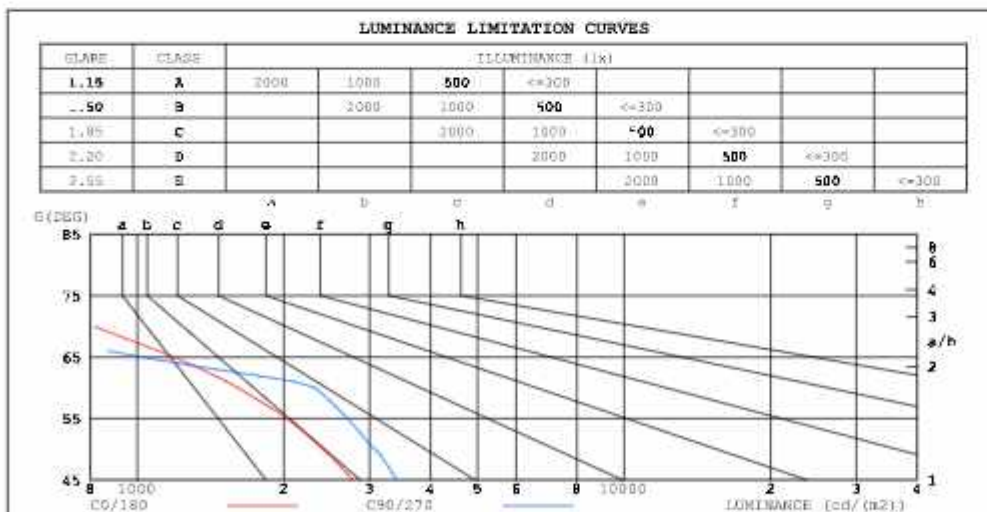
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Δlum, lamp
10	429.7	446.5	457.4	443.2				0- 10	42.95	42.95	4.32, 4.29
20	385.0	413.4	436.1	408.8				10- 20	121.2	164.1	16.5, 16.4
30	316.7	357.7	392.1	353.1				20- 30	177.3	341.4	34.3, 34.1
40	234.7	280.4	324.7	277.0				30- 40	199.0	540.4	54.3, 54
50	152.4	194.8	241.6	193.5				40- 50	183.0	723.4	72.6, 72.3
60	79.23	114.2	156.1	114.9				50- 60	138.3	861.7	86.7, 86.2
70	27.50	9.687	81.66	49.44				60- 70	73.61	935.3	94.1, 93.5
80	9.112	11.01	27.29	7.921				70- 80	27.22	962.5	96.8, 96.2
90	3.951	4.448	7.537	1.564				80- 90	9.011	971.5	97.7, 97.1
100	3.951	3.913	1.642	1.882				90-100	3.401	974.9	98, 97.5
110	4.029	3.964	2.020	2.331				100-110	3.128	978.0	98.4, 97.8
120	4.190	4.102	2.473	2.828				110-120	3.211	981.2	98.7, 98.1
130	4.371	4.358	2.969	3.392				120-130	3.214	984.4	99, 98.4
140	4.584	4.595	3.455	3.888				130-140	3.055	987.5	99.3, 98.7
150	4.827	4.864	3.941	4.308				140-150	2.701	990.2	99.6, 99
160	5.107	5.146	4.480	4.759				150-160	2.160	992.4	99.8, 99.2
170	5.350	5.370	4.999	5.162				160-170	1.427	993.8	99.9, 99.4
180	5.386	5.442	5.373	5.412				170-180	0.5060	994.3	100, 99.4
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



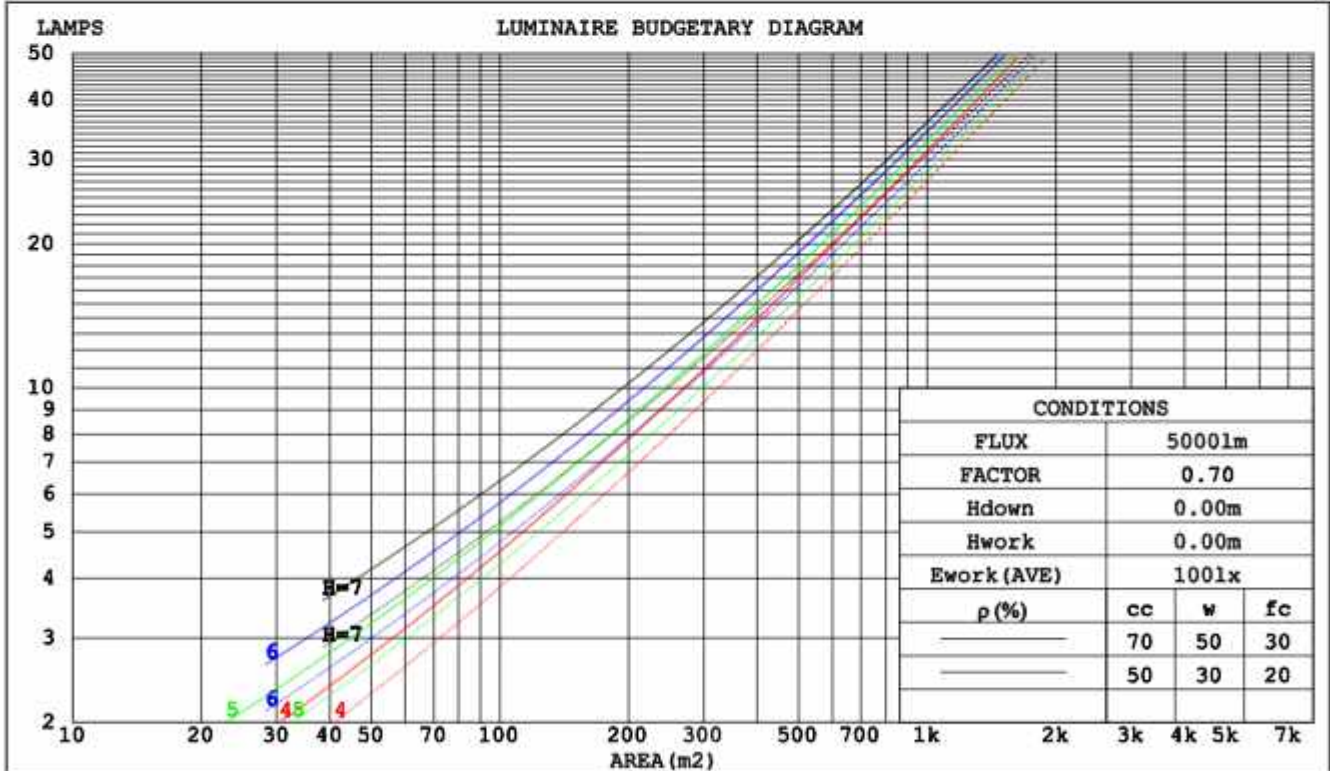
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.05	1.02	.98	1.03	.90	.97	.98	.96	.93	.94	.92	.90	.90	.88	.87	.85
2.0	.94	.88	.83	.92	.86	.82	.88	.83	.79	.84	.81	.77	.81	.78	.75	.73
3.0	.84	.76	.71	.82	.75	.70	.79	.73	.68	.76	.71	.67	.73	.69	.66	.63
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.68	.63	.59	.66	.61	.58	.55
5.0	.68	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.52	.60	.55	.51	.49
6.0	.61	.53	.47	.60	.53	.47	.58	.52	.46	.57	.50	.46	.55	.49	.45	.43
7.0	.56	.48	.42	.55	.47	.42	.53	.47	.42	.52	.46	.41	.50	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.46	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸商照	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	.259	.148	.047	.252	.144	.046	.238	.136	.044	.225	.130	.042	.212	.123	.040	
2.0	.249	.137	.042	.243	.134	.041	.230	.128	.040	.219	.123	.038	.208	.118	.037	
3.0	.235	.125	.038	.229	.123	.037	.218	.118	.036	.208	.114	.035	.199	.110	.034	
4.0	.221	.115	.034	.216	.113	.033	.206	.109	.033	.197	.106	.032	.188	.102	.031	
5.0	.207	.105	.031	.202	.104	.030	.193	.101	.030	.185	.098	.029	.178	.095	.029	
6.0	.194	.097	.028	.190	.096	.028	.182	.093	.027	.175	.091	.027	.168	.088	.026	
7.0	.182	.090	.026	.178	.089	.025	.171	.087	.025	.165	.085	.025	.159	.082	.024	
8.0	.171	.084	.024	.168	.083	.023	.162	.081	.023	.156	.079	.023	.150	.077	.022	
9.0	.162	.078	.022	.159	.077	.022	.153	.076	.021	.148	.074	.021	.142	.072	.021	
10.0	.153	.073	.020	.150	.073	.020	.145	.071	.020	.140	.070	.020	.135	.068	.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	.193	.173	.155	.166	.149	.133	.113	.102	.092	.065	.059	.054	.021	.019	.017	
2.0	.183	.149	.120	.157	.128	.104	.108	.089	.072	.062	.052	.042	.020	.017	.014	
3.0	.175	.131	.096	.150	.113	.083	.103	.079	.059	.059	.046	.035	.019	.015	.011	
4.0	.167	.118	.080	.143	.102	.069	.099	.071	.049	.057	.041	.029	.018	.014	.009	
5.0	.160	.107	.068	.137	.093	.059	.095	.065	.042	.055	.038	.025	.018	.012	.008	
6.0	.153	.099	.060	.132	.085	.052	.091	.060	.037	.053	.035	.022	.017	.011	.007	
7.0	.147	.092	.053	.126	.079	.046	.087	.056	.033	.051	.033	.020	.016	.011	.006	
8.0	.141	.086	.048	.121	.075	.042	.084	.052	.030	.049	.031	.018	.016	.010	.006	
9.0	.135	.081	.044	.116	.070	.039	.081	.049	.028	.047	.029	.016	.015	.010	.005	
10.0	.130	.077	.041	.112	.067	.036	.078	.047	.026	.045	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm										
NAME: 4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	14.2	15.5	14.5	15.8	16.0	15.2	16.5	15.5	16.7	17.0
3H	14.4	15.7	14.8	15.9	16.2	15.1	16.4	15.4	16.6	16.9
4H	14.5	15.6	14.8	15.9	16.2	15.0	16.2	15.4	16.5	16.8
6H	14.5	15.6	14.8	15.9	16.2	15.0	16.1	15.4	16.4	16.7
8H	14.5	15.5	14.8	15.8	16.2	15.0	16.1	15.4	16.4	16.7
12H	14.4	15.4	14.8	15.8	16.1	15.0	16.0	15.4	16.4	16.7
4H 2H	14.4	15.6	14.7	15.8	16.1	15.2	16.4	15.6	16.7	17.0
3H	14.7	15.7	15.0	16.0	16.3	15.2	16.2	15.6	16.5	16.9
4H	14.7	15.7	15.1	16.0	16.4	15.1	16.1	15.6	16.4	16.8
6H	14.8	15.6	15.2	16.0	16.4	15.2	16.0	15.6	16.4	16.8
8H	14.8	15.6	15.3	16.0	16.4	15.2	16.0	15.7	16.4	16.8
12H	14.8	15.5	15.3	15.9	16.4	15.3	16.0	15.7	16.4	16.8
8H 4H	14.7	15.4	15.1	15.8	16.2	15.1	15.8	15.5	16.2	16.6
6H	14.8	15.4	15.3	15.8	16.3	15.2	15.8	15.6	16.2	16.7
8H	14.8	15.4	15.3	15.8	16.3	15.3	15.8	15.8	16.3	16.8
12H	14.9	15.3	15.4	15.8	16.3	15.4	15.8	15.9	16.3	16.9
12H 4H	14.6	15.3	15.1	15.7	16.2	15.0	15.7	15.5	16.1	16.6
6H	14.8	15.3	15.3	15.8	16.3	15.1	15.7	15.6	16.2	16.7
8H	14.8	15.3	15.4	15.8	16.3	15.3	15.7	15.8	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.0 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

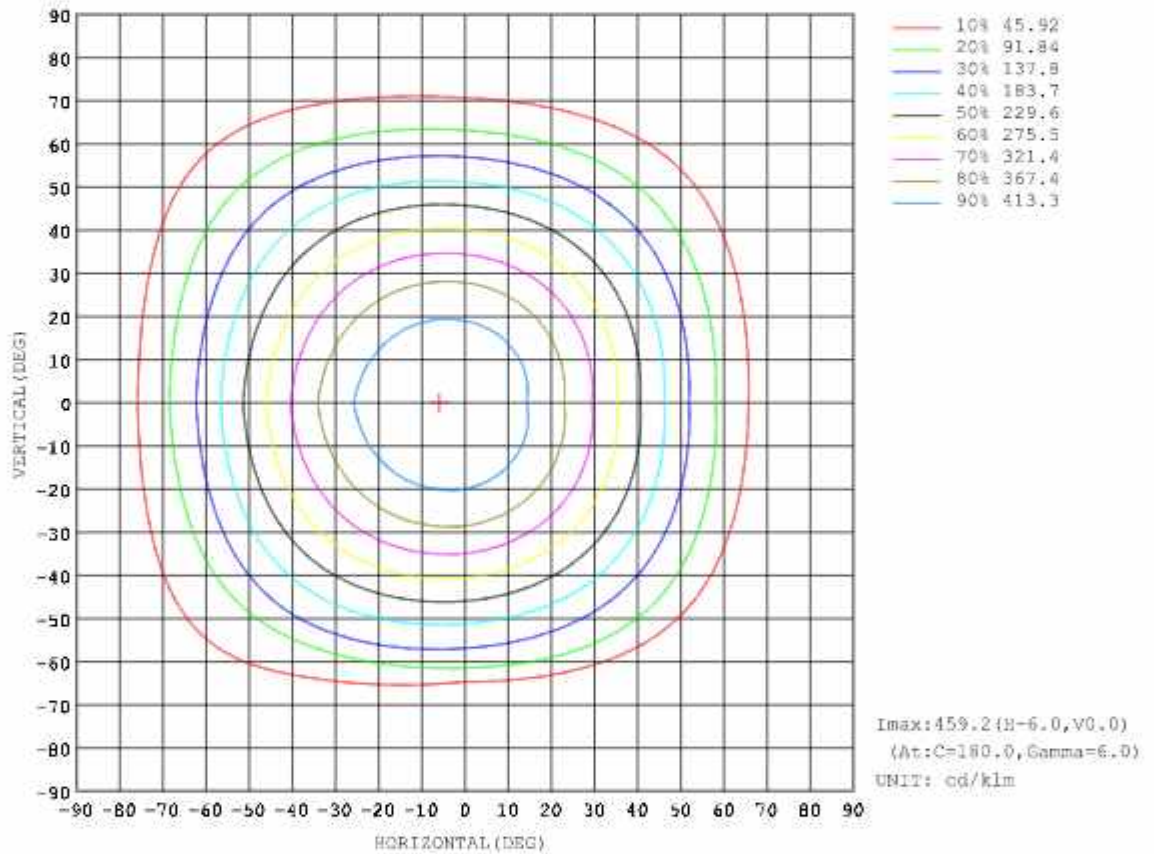
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	52	46	62	52	45	60	51	45	39
0.80	73	62	56	71	62	55	70	61	55	49
1.00	81	71	65	80	70	64	77	71	64	57
1.25	87	78	72	86	78	72	83	76	71	64
1.50	92	84	78	90	83	77	87	81	76	69
2.00	98	91	85	96	89	84	93	87	83	75
2.50	101	95	89	99	93	88	95	90	86	78
3.00	104	98	94	102	97	92	98	93	90	82
4.00	107	102	99	105	101	97	100	97	94	85
5.00	109	105	102	107	103	100	102	99	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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

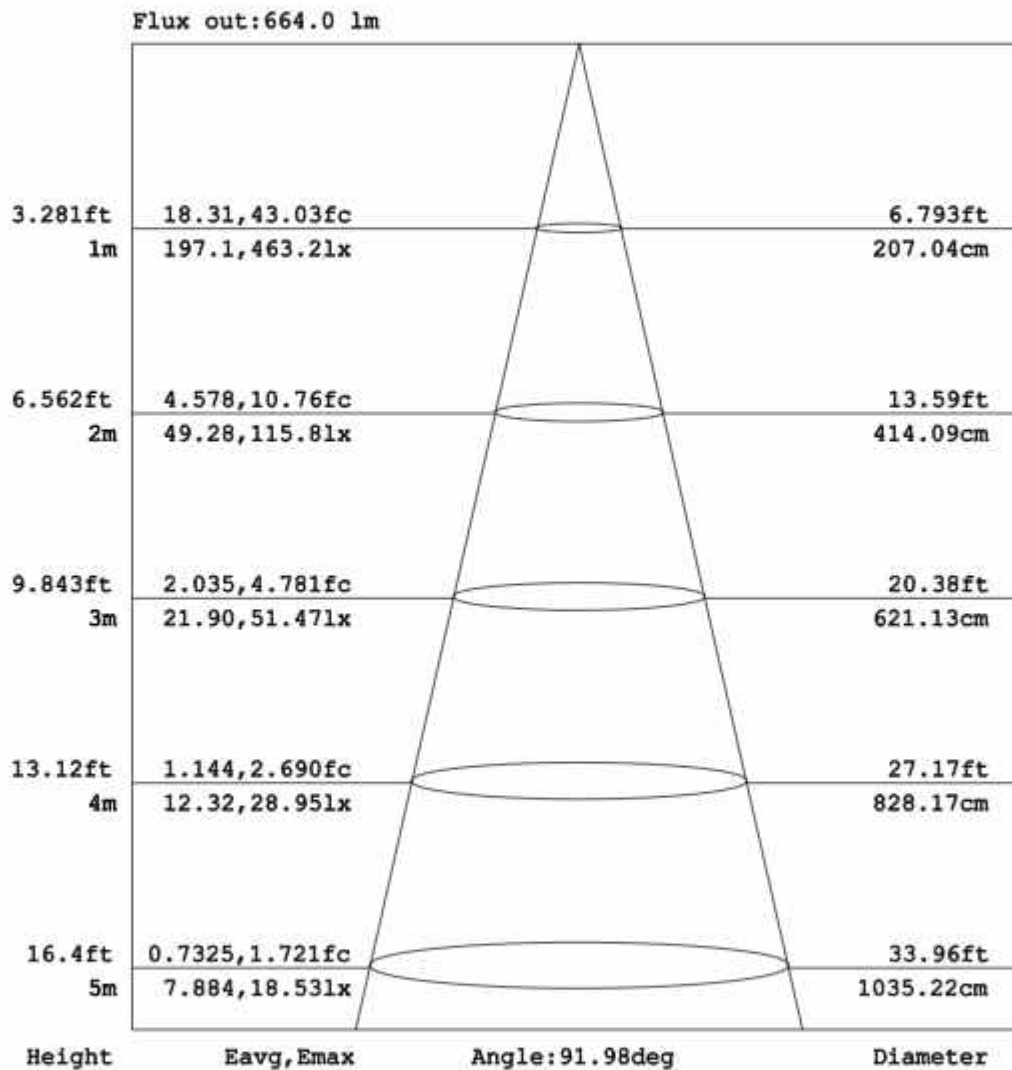


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



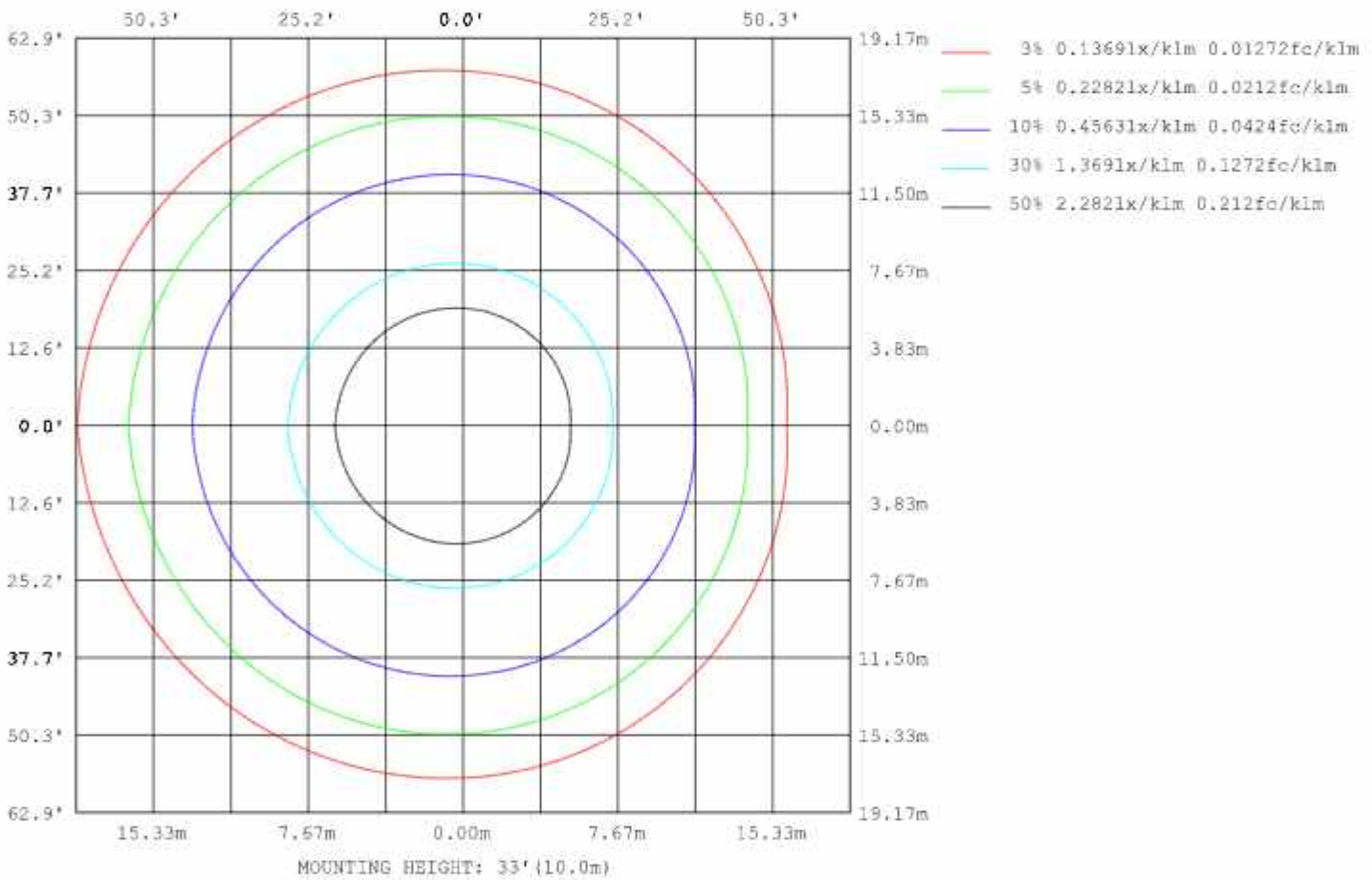
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

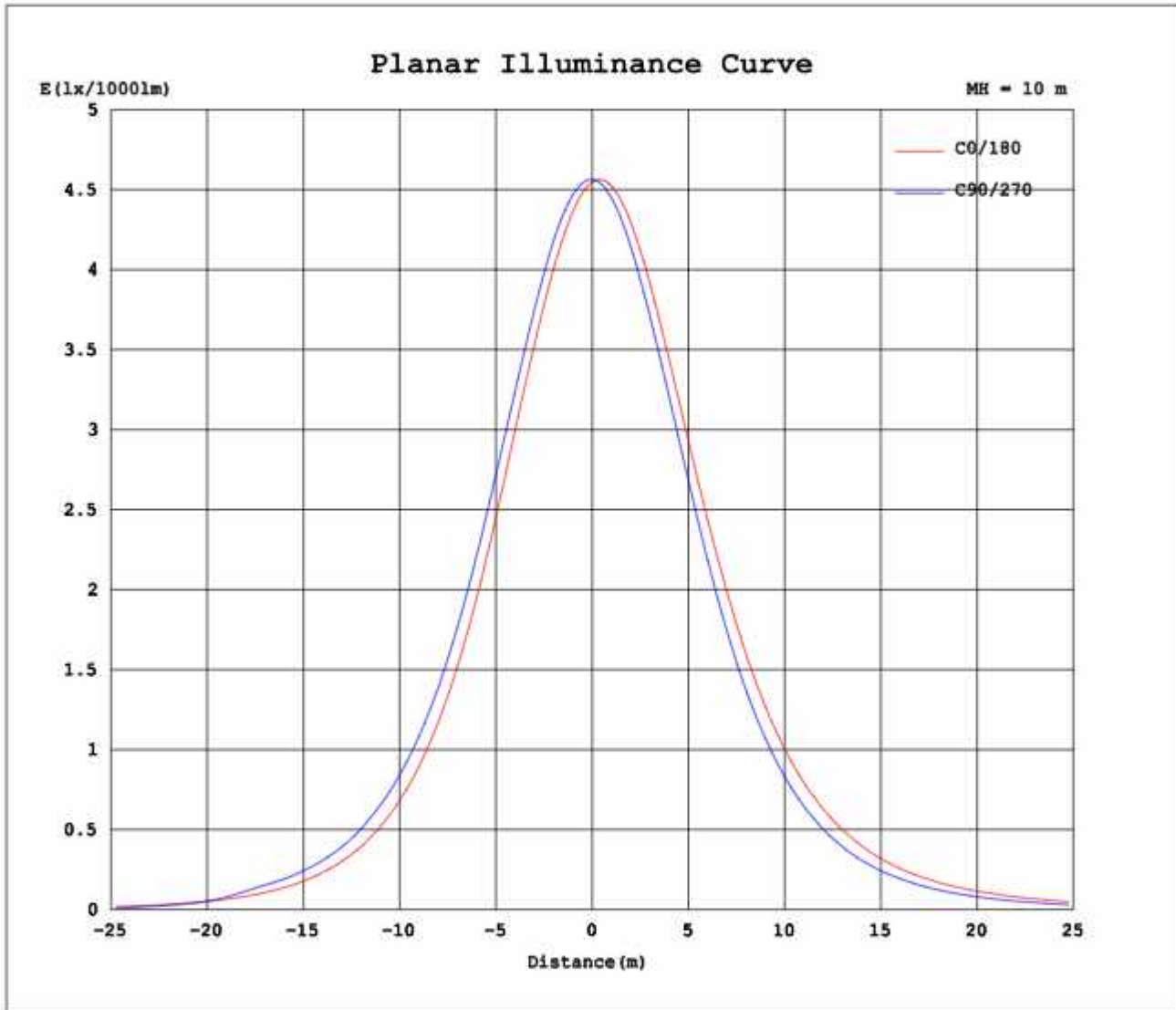
Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0730A P:8.850W PF:0.9910 Lamp Flux:1014.99x1 lm		
NAME: 4寸商照	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	455	456	455	456															
5	445	454	459	453															
10	430	446	457	443															
15	410	433	450	428															
20	385	413	436	409															
25	354	389	417	384															
30	317	358	392	353															
35	277	321	362	317															
40	235	280	325	277															
45	193	238	284	235															
50	152	195	242	193															
55	114	153	198	153															
60	79.2	114	156	115															
65	49.4	42.7	117	79.5															
70	27.5	9.69	81.7	49.4															
75	17.0	6.62	50.6	25.7															
80	9.11	11.0	27.3	7.92															
85	3.98	6.91	15.7	5.38															
90	3.95	4.45	7.54	1.56															
95	3.95	3.91	1.48	1.69															
100	3.95	3.91	1.64	1.88															
105	3.97	3.92	1.83	2.10															
110	4.03	3.96	2.02	2.33															
115	4.09	4.04	2.24	2.57															
120	4.19	4.10	2.47	2.83															
125	4.27	4.24	2.72	3.12															
130	4.37	4.36	2.97	3.39															
135	4.48	4.47	3.21	3.66															
140	4.58	4.59	3.46	3.89															
145	4.71	4.73	3.68	4.08															
150	4.83	4.86	3.94	4.31															
155	4.97	5.01	4.20	4.54															
160	5.11	5.15	4.48	4.76															
165	5.25	5.27	4.75	4.98															
170	5.35	5.37	5.00	5.16															
175	5.41	5.42	5.22	5.31															
180	5.39	5.44	5.37	5.41															

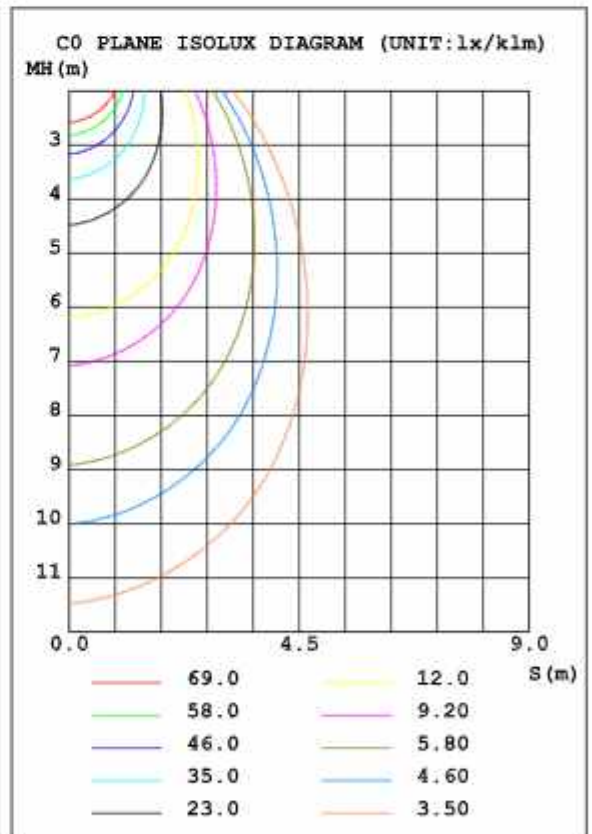
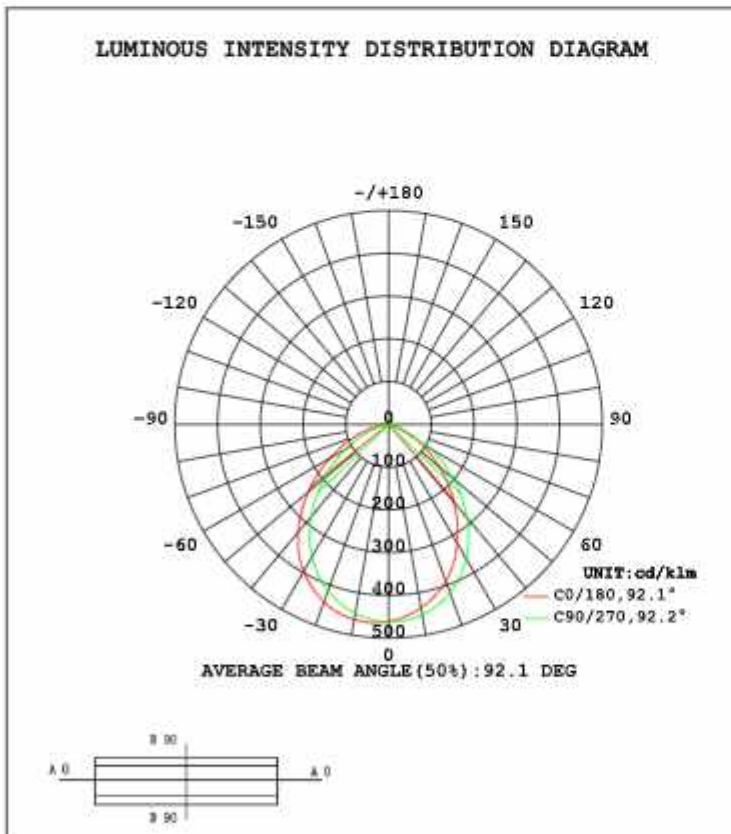
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.83 lm/W			
MODEL	9W-5000K	I _{max} (cd/klm)	465.6	S/MH (C0/180)	1.07
NOMINAL POWER (W)	9	LOR (%)	101.0	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	1009.6	η UP, DN (C0-180)	1.4, 44.3
NOMINAL FLUX (lm)	1009.13	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 54.4
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	98.7	CIBSE SHR MAX	1.30



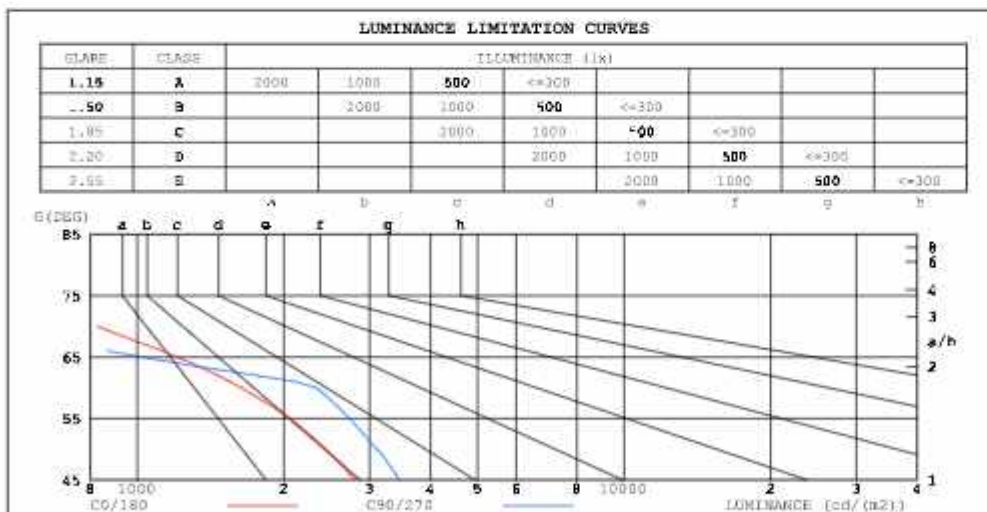
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp	
10	435.7	452.4	463.6	449.2				0- 10	43.53	43.53	4.31, 4.35	
20	390.4	419.1	442.0	414.5				10- 20	122.9	166.4	16.5, 16.6	
30	321.2	363.1	397.6	358.5				20- 30	179.8	346.2	34.3, 34.6	
40	238.3	285.1	329.3	281.9				30- 40	202.0	548.2	54.3, 54.8	
50	155.2	197.8	245.1	197.1				40- 50	186.0	734.2	72.7, 73.4	
60	80.90	115.7	159.0	116.9				50- 60	140.6	874.9	86.6, 87.5	
70	28.03	9.796	83.52	50.03				60- 70	74.86	949.7	94.1, 95	
80	9.241	11.13	27.92	8.059				70- 80	27.74	977.5	96.8, 97.7	
90	4.000	3.987	7.663	1.570				80- 90	9.115	986.6	97.7, 98.7	
100	4.003	3.977	1.662	1.909				90-100	3.436	990.0	98.1, 99	
110	4.076	4.027	2.045	2.358				100-110	3.170	993.2	98.4, 99.3	
120	4.228	4.172	2.507	2.857				110-120	3.252	996.4	98.7, 99.6	
130	4.426	4.410	3.003	3.425				120-130	3.252	999.7	99, 100	
140	4.644	4.671	3.492	3.927				130-140	3.092	1003	99.3, 100	
150	4.892	4.928	3.987	4.360				140-150	2.733	1005	99.6, 101	
160	5.173	5.213	4.523	4.806				150-160	2.186	1008	99.8, 101	
170	5.424	5.440	5.051	5.225				160-170	1.445	1009	99.9, 101	
180	5.457	5.493	5.440	5.490				170-180	0.5122	1010	100, 101	
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm				



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	465	809
80	537	647
75	673	262
70	827	289
65	1208	1024
60	1633	2335
55	2053	2726
50	2437	3106
45	2797	3434

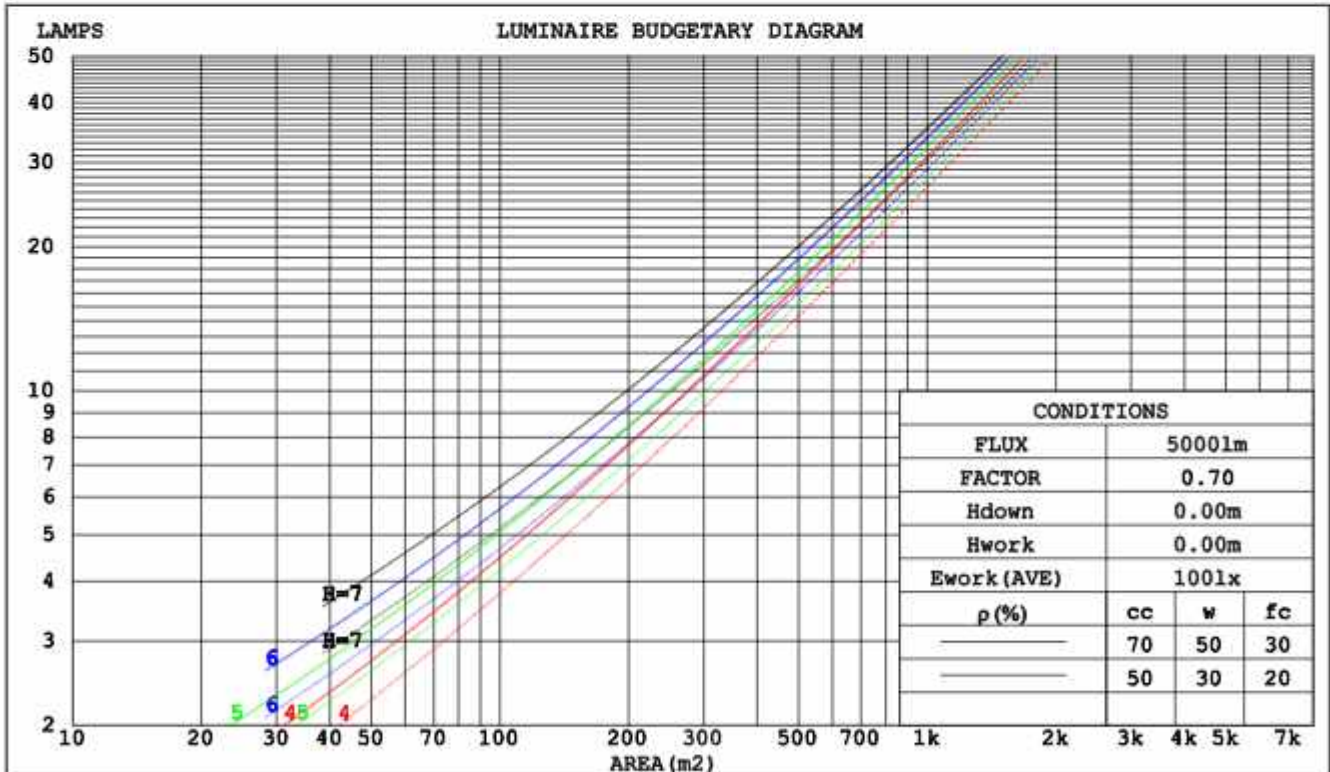
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4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	1.20	1.20	1.20	1.17	1.17	1.17	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.07	1.03	.90	1.04	1.01	.98	.90	.97	.95	.96	.93	.91	.92	.90	.88	.86
2.0	.95	.89	.84	.93	.88	.83	.89	.85	.81	.86	.82	.79	.82	.79	.76	.74
3.0	.85	.78	.72	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.64
4.0	.76	.68	.62	.75	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.69	.60	.54	.67	.60	.54	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.42	.53	.46	.42	.51	.46	.41	.39
8.0	.52	.44	.39	.51	.44	.38	.50	.43	.38	.48	.42	.38	.47	.42	.37	.35
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.41	.35	.31	.29



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸商照	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	.264	.150	.047	.256	.146	.046	.241	.138	.044	.228	.132	.042	.216	.125	.040	
2.0	.253	.139	.043	.247	.136	.042	.234	.130	.040	.222	.125	.039	.212	.120	.038	
3.0	.239	.127	.038	.233	.125	.038	.222	.120	.037	.212	.116	.036	.202	.112	.035	
4.0	.224	.117	.034	.219	.115	.034	.209	.111	.033	.200	.107	.032	.191	.104	.032	
5.0	.210	.107	.031	.205	.105	.031	.197	.102	.030	.188	.099	.030	.181	.097	.029	
6.0	.197	.099	.028	.193	.097	.028	.185	.095	.028	.177	.092	.027	.171	.090	.027	
7.0	.185	.091	.026	.181	.090	.026	.174	.088	.025	.167	.086	.025	.161	.084	.025	
8.0	.174	.085	.024	.171	.084	.024	.164	.082	.023	.158	.080	.023	.153	.078	.023	
9.0	.164	.079	.022	.161	.079	.022	.155	.077	.022	.150	.075	.022	.145	.074	.021	
10.0	.155	.074	.021	.153	.074	.021	.147	.072	.020	.142	.071	.020	.138	.069	.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	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.196	.176	.157	.168	.151	.135	.115	.104	.094	.066	.060	.054	.021	.019	.018	
2.0	.186	.151	.122	.160	.130	.105	.109	.090	.073	.063	.052	.043	.020	.017	.014	
3.0	.178	.133	.098	.152	.115	.085	.104	.080	.059	.060	.047	.035	.019	.015	.011	
4.0	.170	.119	.081	.146	.103	.070	.100	.072	.050	.058	.042	.029	.019	.014	.010	
5.0	.162	.109	.069	.139	.094	.060	.096	.066	.042	.056	.039	.025	.018	.013	.008	
6.0	.155	.100	.060	.134	.087	.053	.092	.061	.037	.053	.036	.022	.017	.012	.007	
7.0	.149	.093	.054	.128	.081	.047	.089	.057	.033	.051	.033	.020	.017	.011	.007	
8.0	.143	.087	.049	.123	.076	.043	.085	.053	.030	.050	.031	.018	.016	.010	.006	
9.0	.137	.082	.045	.118	.071	.039	.082	.050	.028	.048	.030	.017	.015	.010	.006	
10.0	.132	.078	.042	.114	.068	.037	.079	.048	.026	.046	.028	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm										
NAME: 4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	14.3	15.6	14.6	15.8	16.1	15.2	16.6	15.5	16.8	17.0
3H	14.5	15.7	14.8	16.0	16.3	15.2	16.4	15.5	16.7	16.9
4H	14.5	15.7	14.9	16.0	16.3	15.1	16.3	15.4	16.5	16.8
6H	14.5	15.6	14.9	15.9	16.3	15.1	16.2	15.4	16.5	16.8
8H	14.5	15.6	14.9	15.9	16.2	15.1	16.1	15.4	16.4	16.8
12H	14.5	15.5	14.9	15.8	16.2	15.1	16.1	15.5	16.4	16.8
4H 2H	14.5	15.6	14.8	15.9	16.2	15.3	16.4	15.6	16.7	17.0
3H	14.7	15.7	15.1	16.1	16.4	15.3	16.3	15.6	16.6	16.9
4H	14.8	15.7	15.2	16.1	16.5	15.2	16.1	15.6	16.5	16.8
6H	14.9	15.7	15.3	16.1	16.5	15.2	16.0	15.7	16.4	16.8
8H	14.9	15.6	15.3	16.0	16.5	15.3	16.0	15.7	16.4	16.9
12H	14.9	15.6	15.3	16.0	16.4	15.3	16.0	15.8	16.4	16.9
8H 4H	14.7	15.5	15.2	15.9	16.3	15.1	15.9	15.6	16.3	16.7
6H	14.9	15.5	15.3	15.9	16.4	15.2	15.8	15.7	16.3	16.7
8H	14.9	15.4	15.4	15.9	16.4	15.3	15.9	15.8	16.3	16.8
12H	14.9	15.4	15.4	15.9	16.4	15.4	15.9	15.9	16.4	16.9
12H 4H	14.7	15.4	15.2	15.8	16.2	15.1	15.8	15.5	16.2	16.6
6H	14.8	15.4	15.3	15.9	16.3	15.2	15.7	15.7	16.2	16.7
8H	14.9	15.4	15.4	15.9	16.4	15.3	15.8	15.8	16.3	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.8					+ 0.5 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.0 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

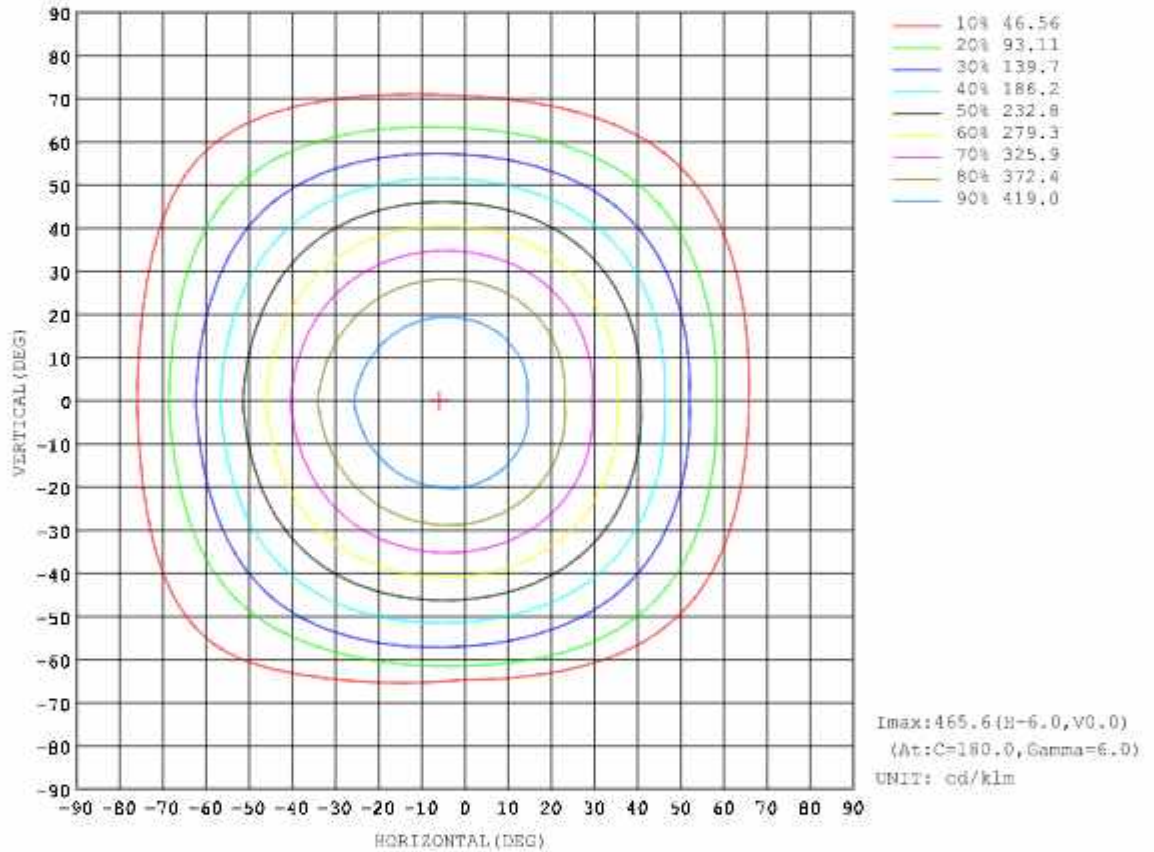
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	53	46	63	52	46	61	52	46	40
0.80	74	63	57	73	63	56	71	62	56	49
1.00	82	72	66	81	71	65	78	72	65	58
1.25	89	80	73	87	79	73	85	77	72	65
1.50	93	85	79	92	84	78	89	82	77	70
2.00	99	92	87	98	91	86	94	88	84	76
2.50	103	96	91	101	95	90	97	92	88	80
3.00	106	100	95	103	98	94	99	95	91	83
4.00	109	104	100	106	102	99	102	98	96	86
5.00	111	107	103	108	105	102	104	101	98	89
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

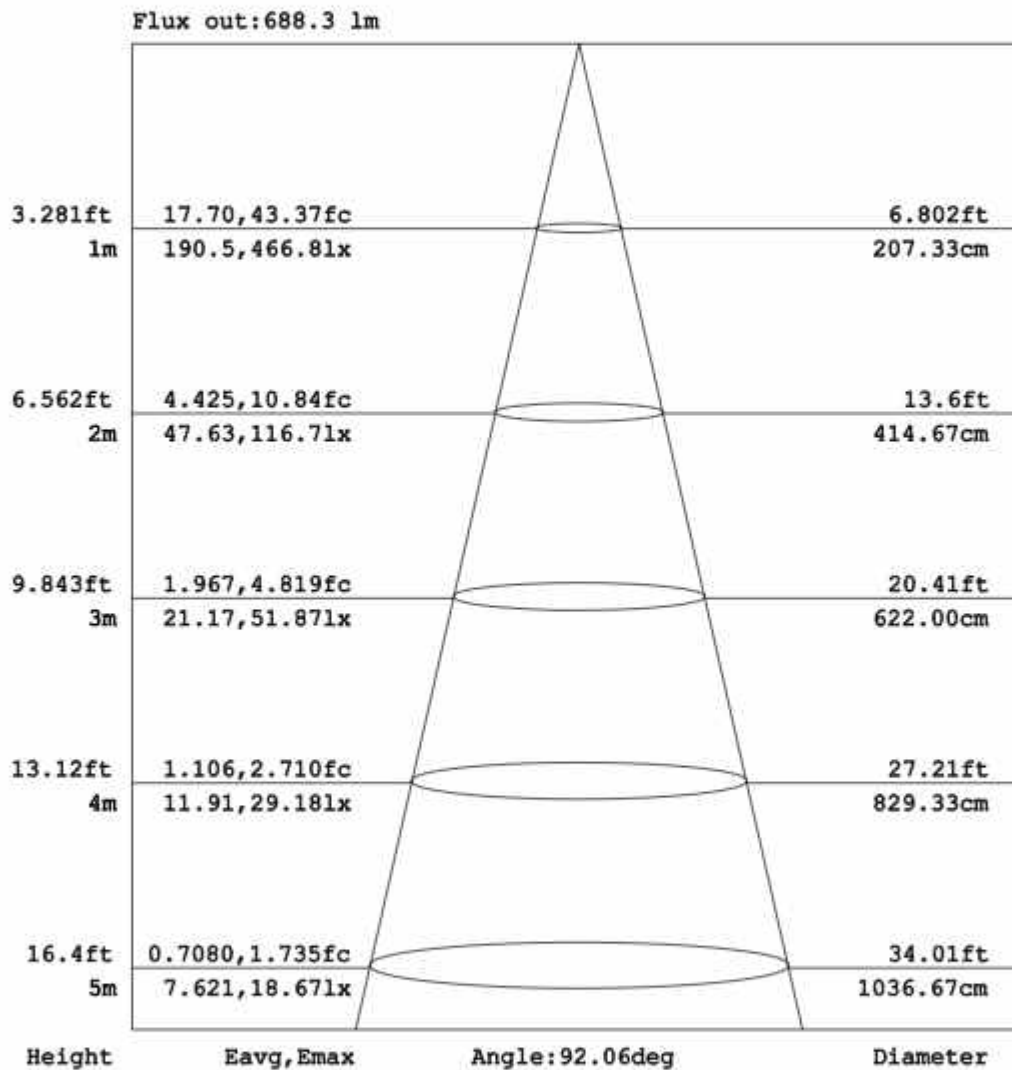


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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 Figure

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



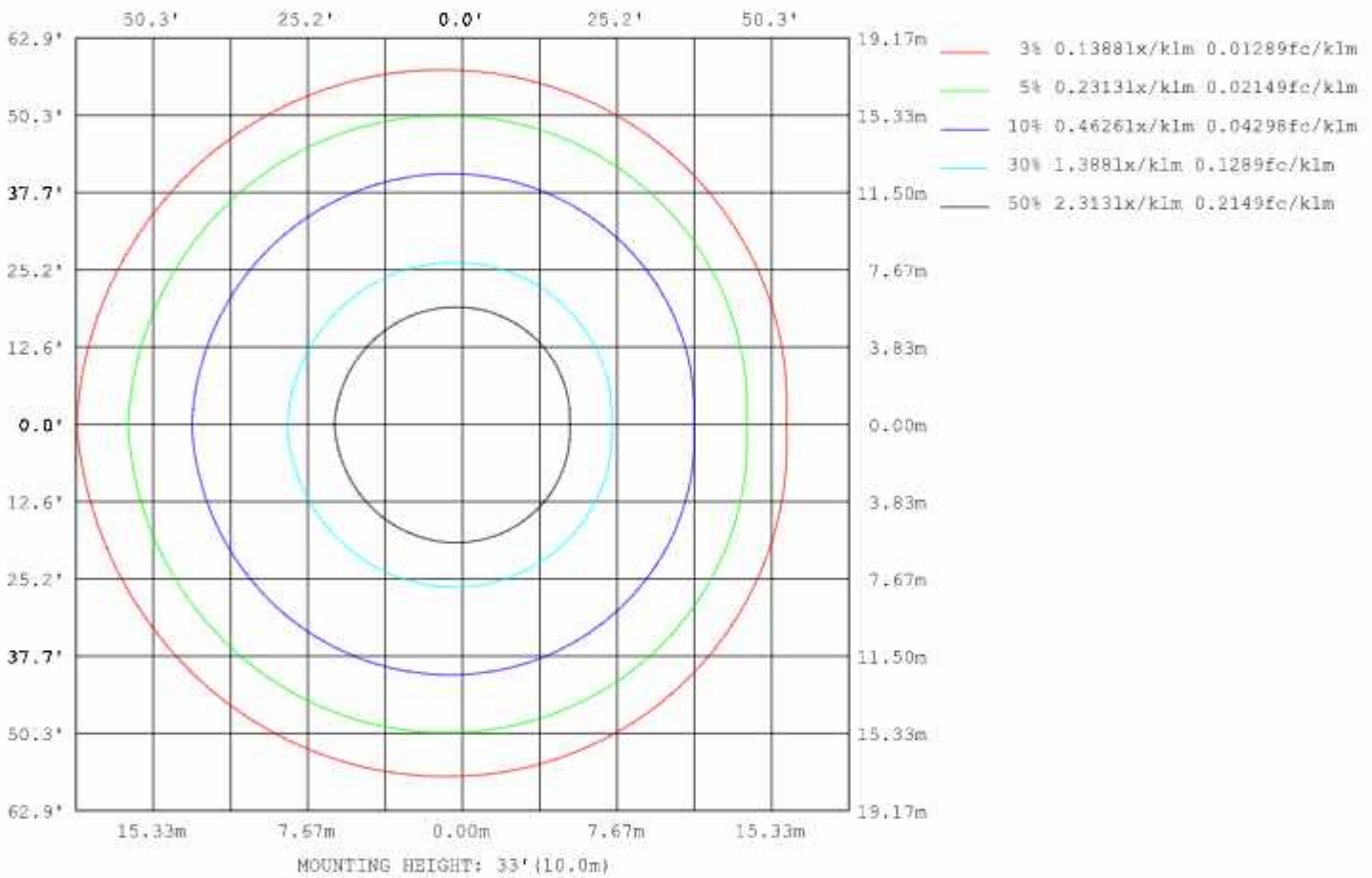
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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

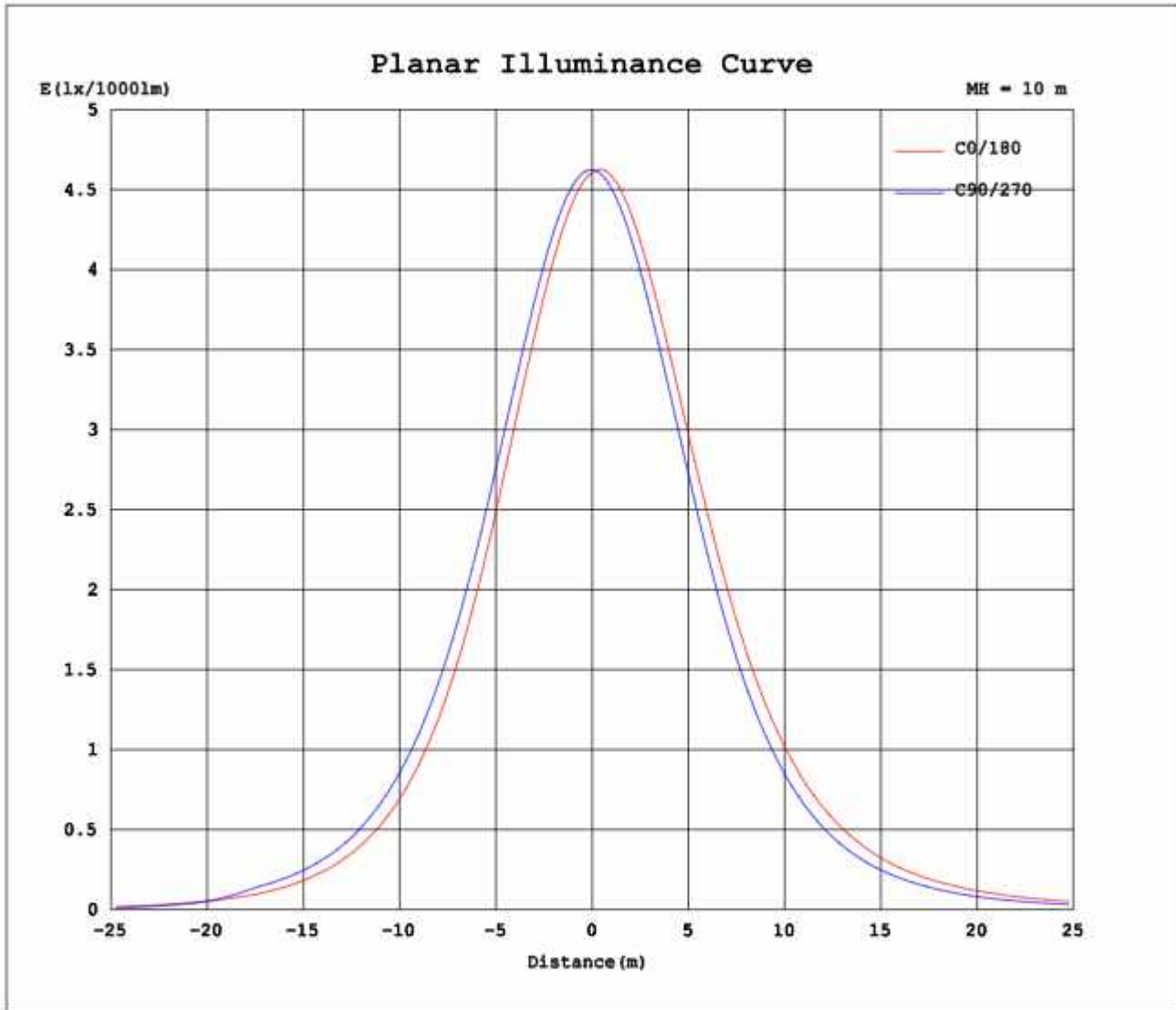
Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0750A P:9.030W PF:0.9920 Lamp Flux:1009.13x1 lm		
NAME: 4寸商照	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	461	462	461	462															
5	451	460	465	459															
10	436	452	464	449															
15	416	439	456	434															
20	390	419	442	415															
25	359	394	422	390															
30	321	363	398	358															
35	280	326	367	322															
40	238	285	329	282															
45	196	242	288	240															
50	155	198	245	197															
55	117	155	201	156															
60	80.9	116	159	117															
65	50.6	42.9	120	80.6															
70	28.0	9.80	83.5	50.0															
75	17.3	6.72	51.9	26.1															
80	9.24	11.1	27.9	8.06															
85	4.02	6.98	16.0	5.46															
90	4.00	3.99	7.66	1.57															
95	4.00	3.98	1.50	1.72															
100	4.00	3.98	1.66	1.91															
105	4.02	3.98	1.85	2.12															
110	4.08	4.03	2.04	2.36															
115	4.14	4.09	2.27	2.60															
120	4.23	4.17	2.51	2.86															
125	4.33	4.27	2.76	3.16															
130	4.43	4.41	3.00	3.42															
135	4.53	4.53	3.24	3.69															
140	4.64	4.67	3.49	3.93															
145	4.76	4.78	3.73	4.11															
150	4.89	4.93	3.99	4.36															
155	5.03	5.07	4.25	4.59															
160	5.17	5.21	4.52	4.81															
165	5.31	5.34	4.80	5.03															
170	5.42	5.44	5.05	5.23															
175	5.48	5.50	5.28	5.37															
180	5.46	5.49	5.44	5.49															

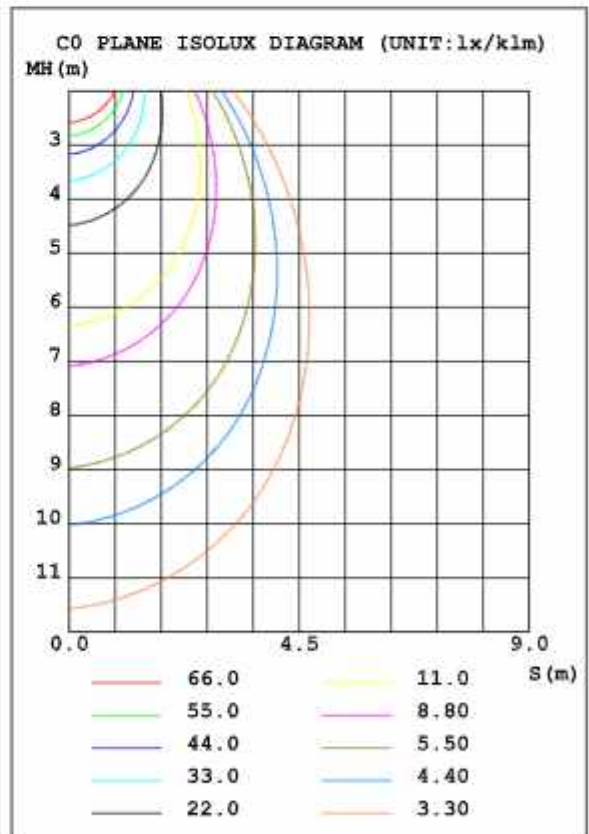
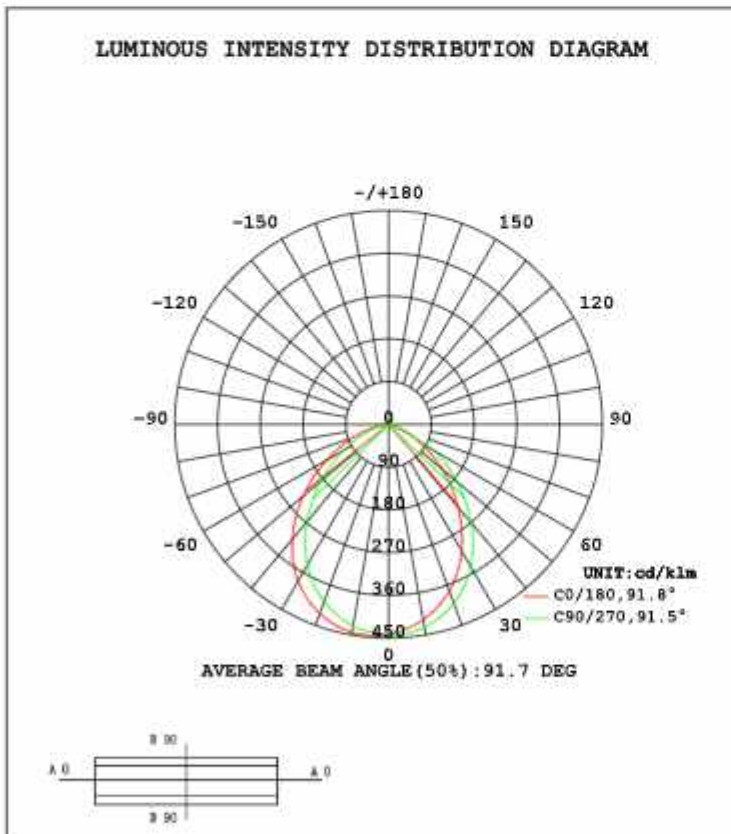
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	12W-2700K	Imax (cd/klm)	446.4	S/MH (C0/180)	1.07
NOMINAL POWER (W)	12	LOR (%)	96.3	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	963.21	η UP, DN (C0-180)	1.3, 42.2
NOMINAL FLUX (lm)	1195.95	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 51.9
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	94.1	CIBSE SHR MAX	1.30



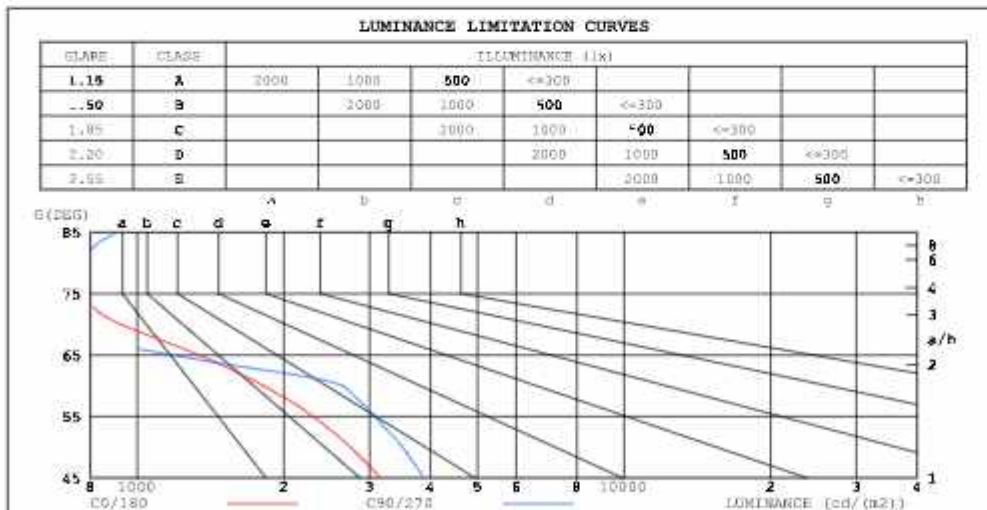
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φ lum, lamp
10	417.5	433.8	444.6	430.7				0- 10	41.74	41.74	4.33, 4.17
20	373.9	401.0	423.8	396.9				10- 20	117.7	159.5	16.6, 15.9
30	307.5	346.2	381.0	342.3				20- 30	172.1	331.5	34.4, 33.2
40	227.5	270.4	315.6	267.6				30- 40	192.8	524.3	54.4, 52.4
50	147.1	188.2	234.4	186.8				40- 50	177.0	701.3	72.6, 70.1
60	75.91	110.7	150.7	111.4				50- 60	133.8	835.1	86.7, 83.5
70	26.43	9.387	78.25	48.62				60- 70	71.23	906.4	94.1, 90.6
80	8.791	10.65	26.17	7.677				70- 80	26.27	932.6	96.8, 93.3
90	3.807	3.790	7.256	1.484				80- 90	8.637	941.3	97.7, 94.1
100	3.804	3.771	1.564	1.795				90-100	3.255	944.5	98.1, 94.5
110	3.882	3.835	1.932	2.226				100-110	3.007	947.5	98.4, 94.8
120	4.022	3.966	2.372	2.703				110-120	3.088	950.6	98.7, 95.1
130	4.222	4.195	2.851	3.261				120-130	3.091	953.7	99, 95.4
140	4.426	4.446	3.325	3.754				130-140	2.945	956.6	99.3, 95.7
150	4.671	4.705	3.799	4.155				140-150	2.607	959.3	99.6, 95.9
160	4.939	4.978	4.318	4.596				150-160	2.086	961.3	99.8, 96.1
170	5.178	5.198	4.836	4.989				160-170	1.380	962.7	99.9, 96.3
180	5.209	5.248	5.215	5.243				170-180	0.4894	963.2	100, 96.3
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd/ (m2)		
θ (DEG)	C0/180	C90/270
85	524	910
80	605	734
75	756	297
70	924	328
65	1337	1184
60	1816	2647
55	2295	3074
50	2736	3502
45	3156	3875

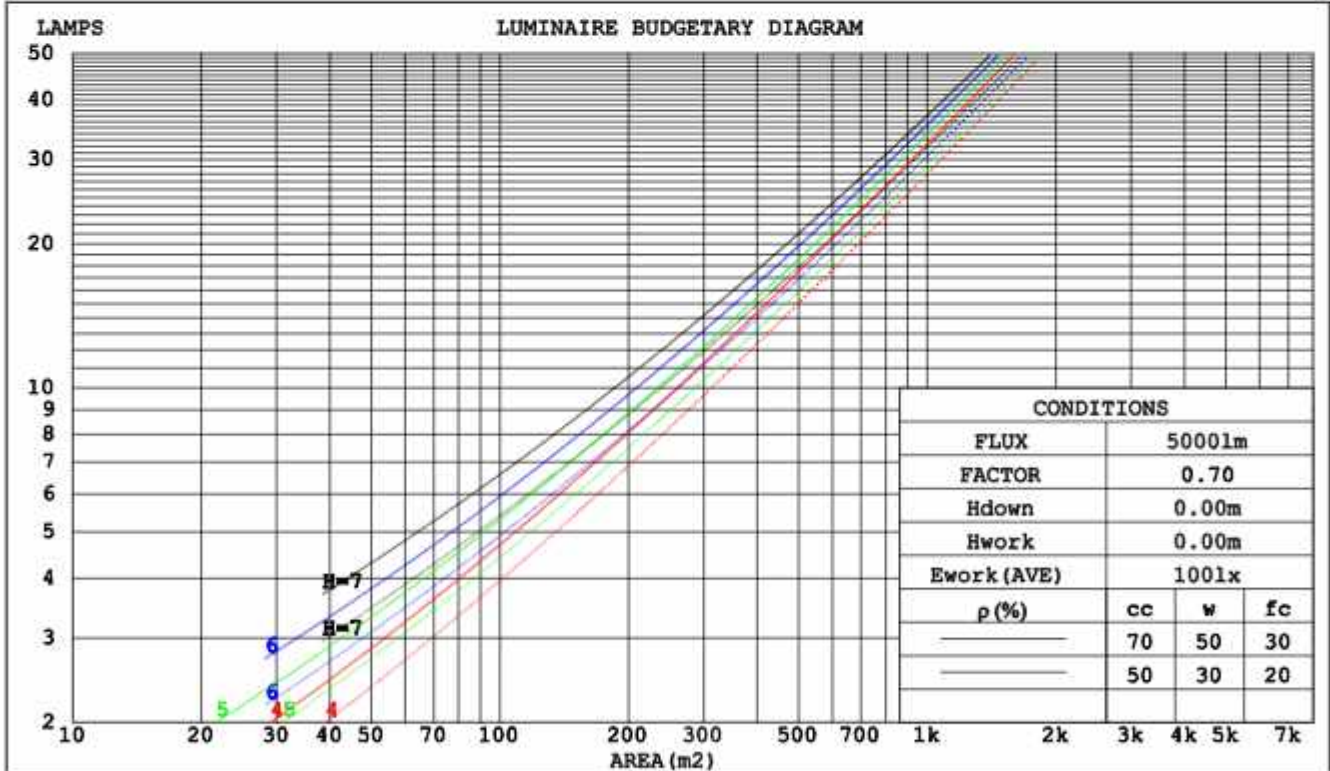
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4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	1.14	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	.99	.95	.90	.96	.94	.95	.93	.90	.91	.89	.87	.87	.86	.84	.82
2.0	.91	.85	.80	.89	.84	.79	.85	.81	.77	.82	.78	.75	.79	.76	.73	.71
3.0	.81	.74	.68	.79	.73	.68	.76	.71	.66	.73	.69	.65	.71	.67	.64	.62
4.0	.73	.65	.59	.71	.64	.59	.69	.63	.58	.66	.61	.57	.64	.59	.56	.54
5.0	.66	.58	.52	.64	.57	.51	.62	.56	.51	.60	.54	.50	.58	.53	.49	.47
6.0	.59	.52	.46	.58	.51	.46	.57	.50	.45	.55	.49	.44	.53	.48	.44	.42
7.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.49	.44	.39	.38
8.0	.50	.42	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.45	.40	.36	.34
9.0	.46	.38	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.36	.32	.31
10.0	.42	.35	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	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	.251	.143	.045	.244	.139	.044	.230	.132	.042	.217	.125	.040	.206	.119	.038	
2.0	.241	.132	.041	.235	.129	.040	.223	.124	.039	.212	.119	.037	.202	.114	.036	
3.0	.228	.121	.036	.222	.119	.036	.211	.115	.035	.202	.110	.034	.192	.107	.033	
4.0	.214	.111	.033	.209	.109	.032	.199	.106	.032	.190	.102	.031	.182	.099	.030	
5.0	.200	.102	.030	.196	.100	.029	.187	.098	.029	.179	.095	.028	.172	.092	.028	
6.0	.188	.094	.027	.184	.093	.027	.176	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.176	.087	.025	.173	.086	.025	.166	.084	.024	.160	.082	.024	.154	.080	.023	
8.0	.166	.081	.023	.163	.080	.023	.157	.078	.022	.151	.076	.022	.145	.075	.022	
9.0	.157	.076	.021	.154	.075	.021	.148	.073	.021	.143	.072	.021	.138	.070	.020	
10.0	.148	.071	.020	.145	.070	.020	.140	.069	.019	.136	.067	.019	.131	.066	.019	

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.187	.168	.150	.160	.144	.129	.110	.099	.089	.063	.057	.052	.020	.018	.017	
2.0	.178	.144	.116	.152	.124	.100	.104	.086	.070	.060	.050	.041	.019	.016	.013	
3.0	.169	.127	.093	.145	.110	.081	.100	.076	.057	.058	.044	.033	.018	.014	.011	
4.0	.162	.114	.077	.139	.098	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009	
5.0	.155	.104	.066	.133	.090	.057	.092	.063	.040	.053	.037	.024	.017	.012	.008	
6.0	.148	.095	.058	.127	.083	.050	.088	.058	.035	.051	.034	.021	.016	.011	.007	
7.0	.142	.089	.051	.122	.077	.045	.084	.054	.032	.049	.032	.019	.016	.010	.006	
8.0	.136	.083	.047	.117	.072	.041	.081	.051	.029	.047	.030	.017	.015	.010	.006	
9.0	.131	.078	.043	.113	.068	.037	.078	.048	.027	.045	.028	.016	.015	.009	.005	
10.0	.126	.074	.040	.108	.064	.035	.075	.045	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm										
NAME: 4寸筒照					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	14.1	15.4	14.4	15.6	15.9	15.0	16.4	15.3	16.6	16.9
3H	14.3	15.5	14.6	15.8	16.1	15.0	16.2	15.3	16.5	16.8
4H	14.3	15.5	14.7	15.8	16.1	14.9	16.1	15.3	16.4	16.7
6H	14.3	15.4	14.7	15.7	16.0	14.9	16.0	15.2	16.3	16.6
8H	14.3	15.4	14.7	15.7	16.0	14.9	16.0	15.3	16.3	16.6
12H	14.3	15.3	14.7	15.6	16.0	14.9	15.9	15.3	16.2	16.6
4H 2H	14.3	15.4	14.6	15.7	16.0	15.1	16.3	15.4	16.5	16.8
3H	14.5	15.5	14.9	15.9	16.2	15.1	16.1	15.5	16.4	16.8
4H	14.6	15.5	15.0	15.9	16.2	15.0	15.9	15.4	16.3	16.7
6H	14.7	15.5	15.1	15.9	16.3	15.1	15.9	15.5	16.2	16.7
8H	14.7	15.4	15.1	15.8	16.2	15.1	15.9	15.5	16.3	16.7
12H	14.7	15.3	15.1	15.8	16.2	15.2	15.8	15.6	16.3	16.7
8H 4H	14.5	15.3	15.0	15.7	16.1	14.9	15.7	15.4	16.1	16.5
6H	14.6	15.3	15.1	15.7	16.2	15.0	15.7	15.5	16.1	16.6
8H	14.7	15.2	15.2	15.7	16.2	15.1	15.7	15.6	16.1	16.6
12H	14.7	15.2	15.2	15.7	16.2	15.3	15.7	15.8	16.2	16.7
12H 4H	14.5	15.2	14.9	15.6	16.0	14.9	15.6	15.4	16.0	16.5
6H	14.6	15.2	15.1	15.6	16.1	15.0	15.6	15.5	16.0	16.5
8H	14.7	15.2	15.2	15.7	16.2	15.1	15.6	15.7	16.1	16.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

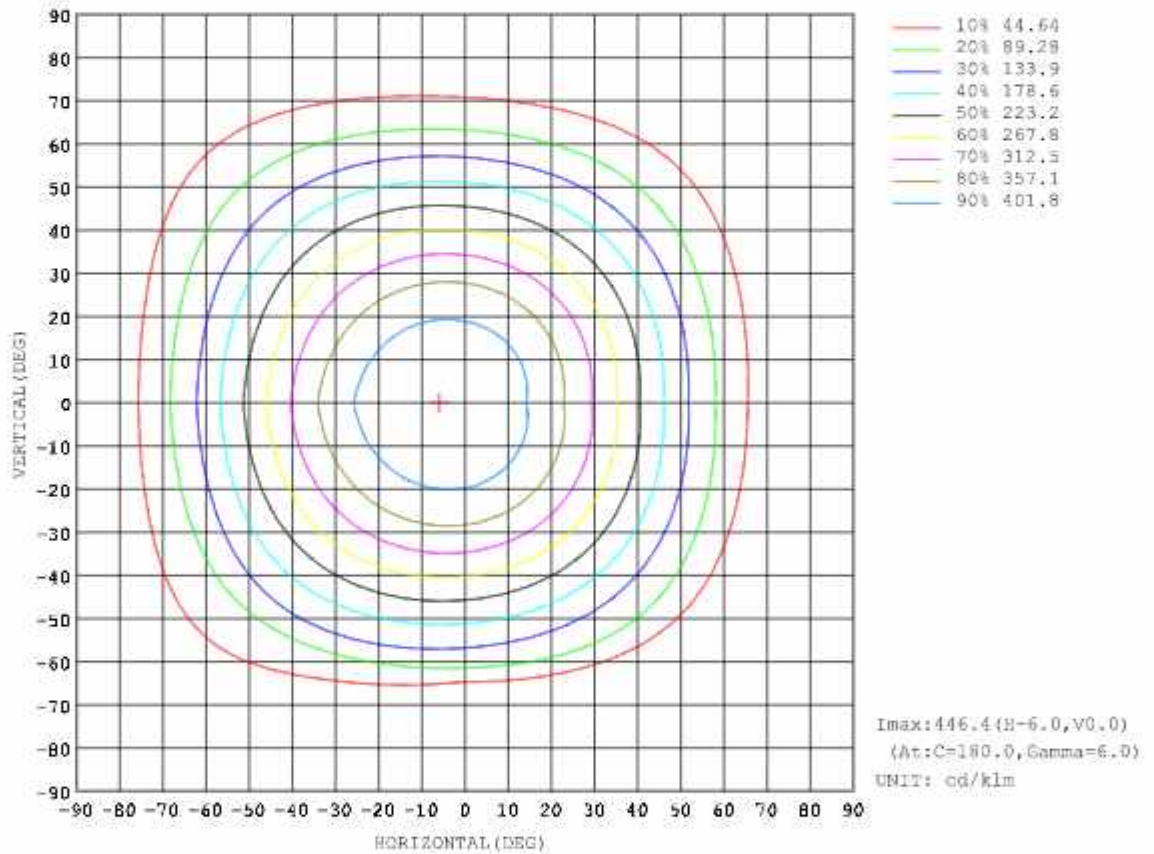
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	60	50	44	60	50	44	59	50	44	38
0.80	70	60	54	69	60	54	68	59	53	47
1.00	78	69	63	77	68	62	75	69	62	56
1.25	85	76	70	83	75	70	81	74	69	62
1.50	89	81	75	88	80	75	85	78	73	67
2.00	95	88	83	93	87	82	90	84	80	73
2.50	98	92	87	96	90	86	92	88	84	76
3.00	101	95	91	99	94	90	95	91	87	79
4.00	104	99	96	102	97	94	97	94	91	83
5.00	106	102	99	103	100	97	99	96	94	85
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



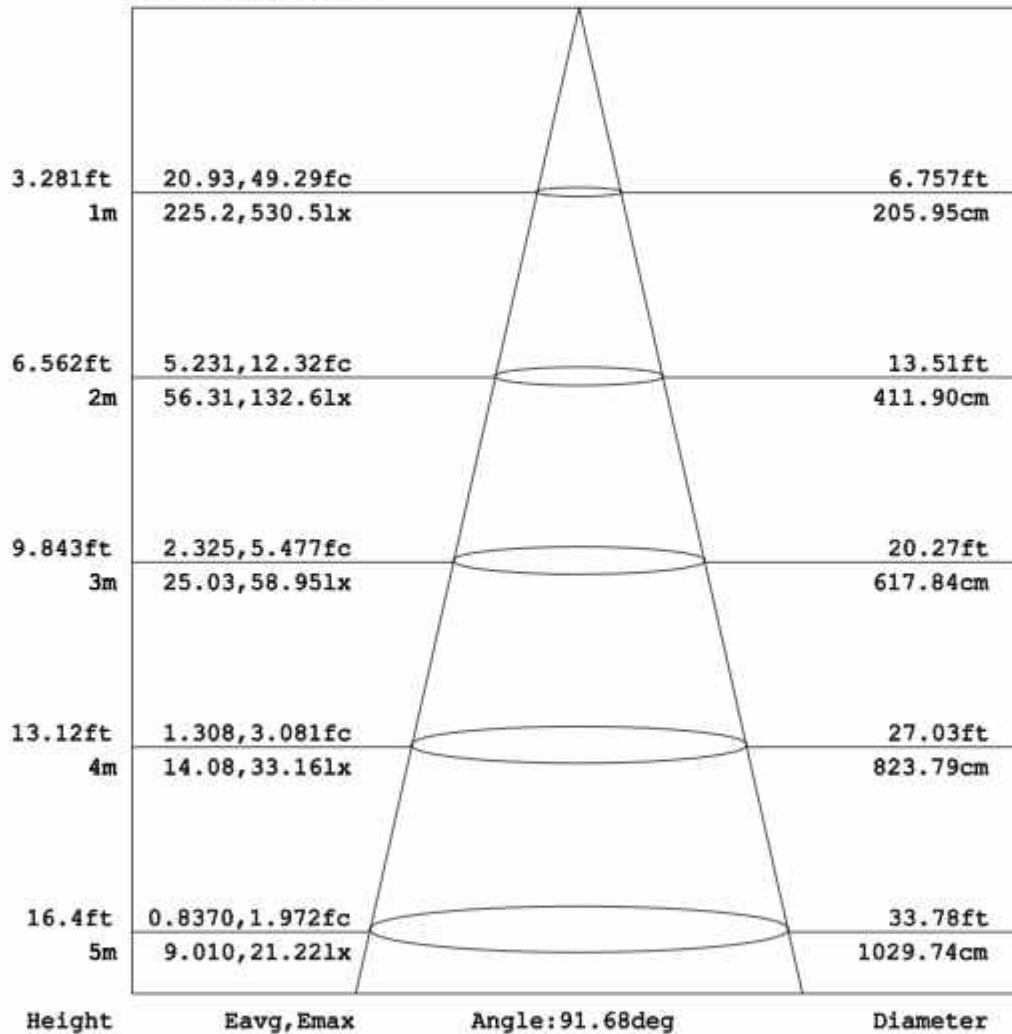
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:758.8 lm



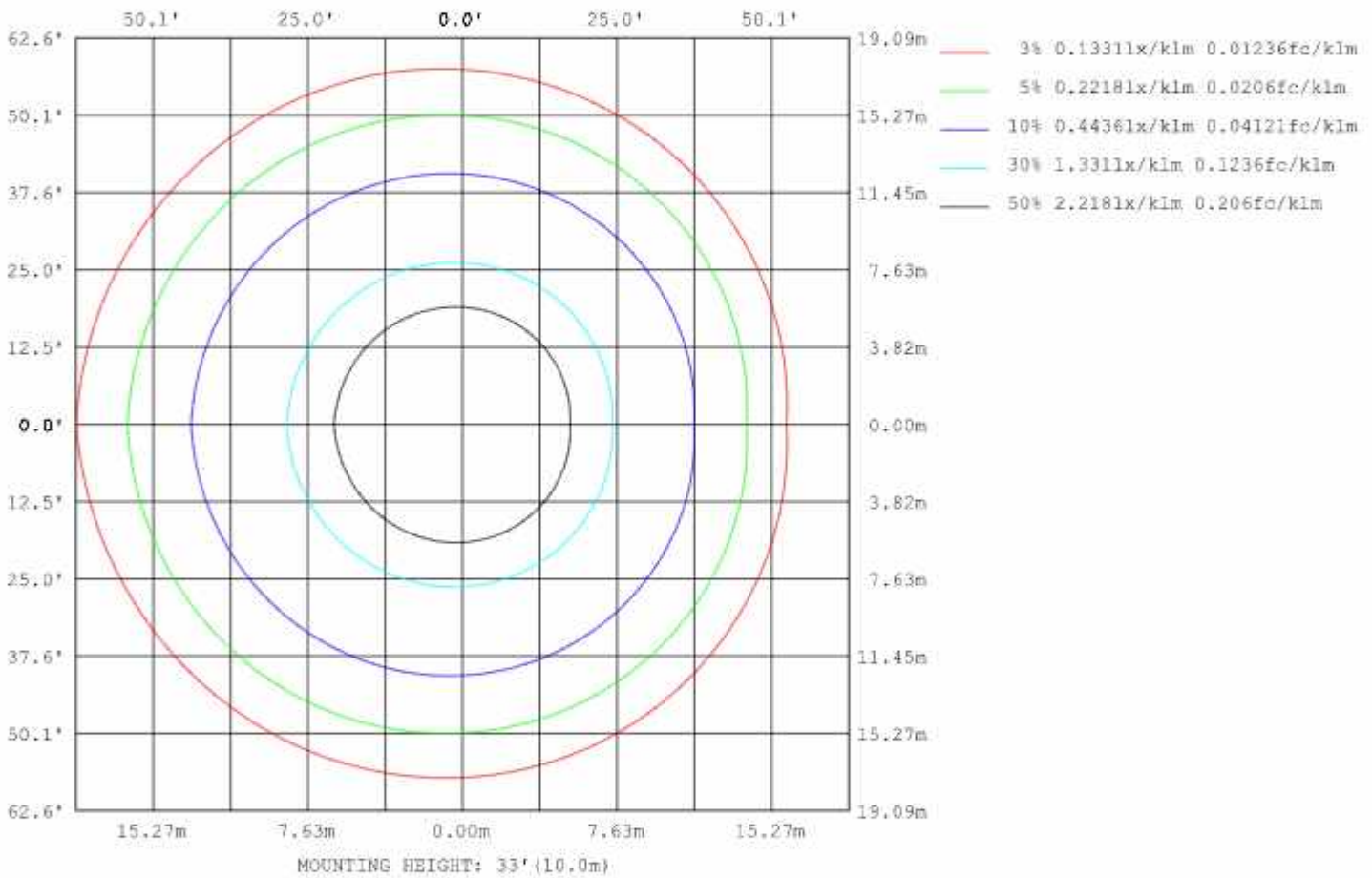
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

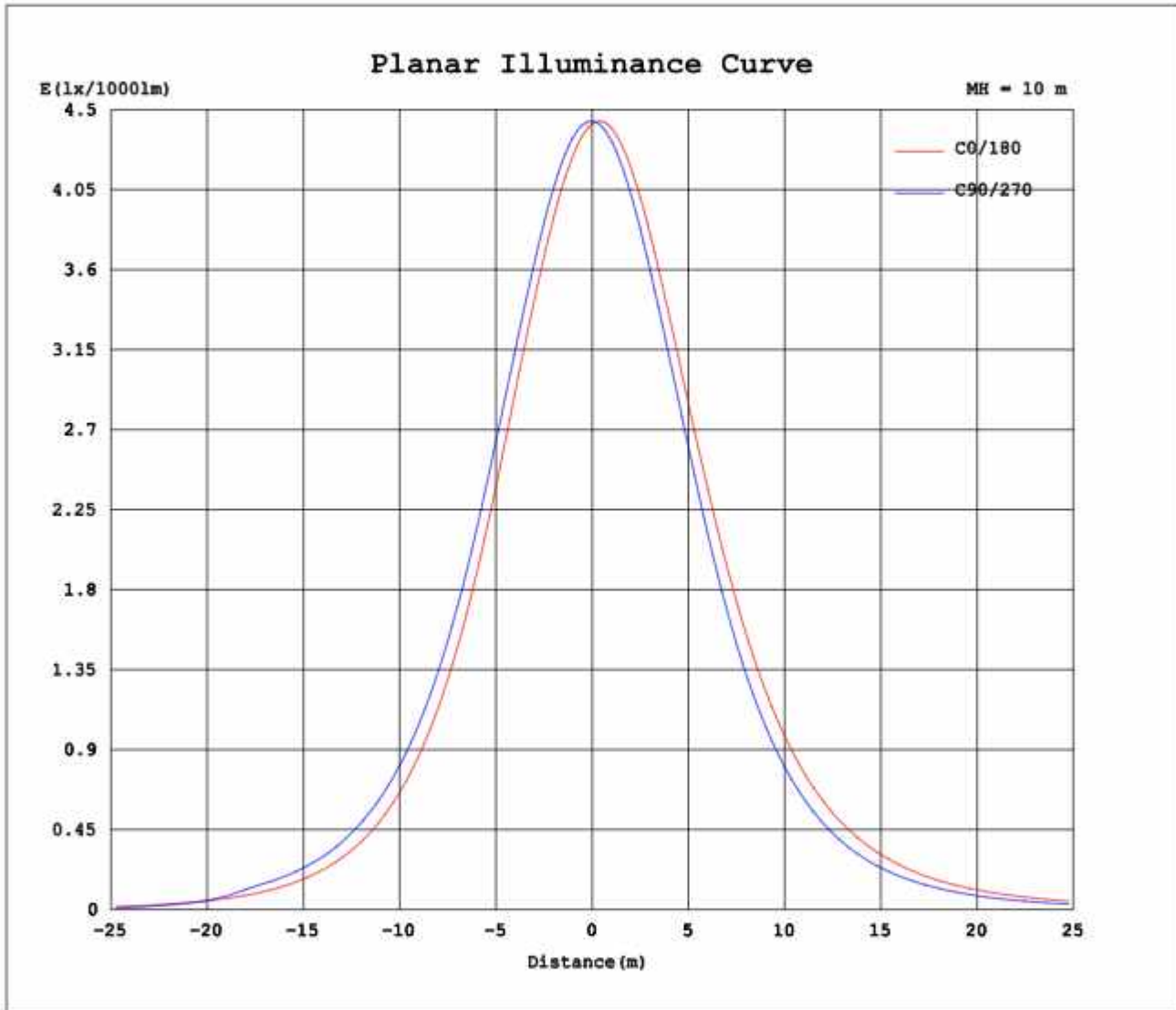
Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0960A P:11.60W PF:0.9950 Lamp Flux:1195.95x1 lm		
NAME: 4寸商照	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	442	444	442	444															
5	432	442	446	440															
10	417	434	445	431															
15	398	420	437	416															
20	374	401	424	397															
25	343	377	405	373															
30	308	346	381	342															
35	268	310	351	307															
40	227	270	316	268															
45	187	229	276	227															
50	147	188	234	187															
55	110	147	192	148															
60	75.9	111	151	111															
65	47.3	41.8	113	77.6															
70	26.4	9.39	78.3	48.6															
75	16.4	6.42	48.3	25.3															
80	8.79	10.7	26.2	7.68															
85	3.82	6.63	15.1	5.21															
90	3.81	3.79	7.26	1.48															
95	3.80	3.78	1.41	1.61															
100	3.80	3.77	1.56	1.79															
105	3.84	3.78	1.74	2.00															
110	3.88	3.84	1.93	2.23															
115	3.94	3.89	2.15	2.46															
120	4.02	3.97	2.37	2.70															
125	4.12	4.06	2.61	3.00															
130	4.22	4.19	2.85	3.26															
135	4.32	4.32	3.09	3.52															
140	4.43	4.45	3.33	3.75															
145	4.54	4.57	3.56	3.92															
150	4.67	4.70	3.80	4.16															
155	4.80	4.84	4.05	4.38															
160	4.94	4.98	4.32	4.60															
165	5.08	5.09	4.59	4.80															
170	5.18	5.20	4.84	4.99															
175	5.23	5.26	5.04	5.13															
180	5.21	5.25	5.21	5.24															

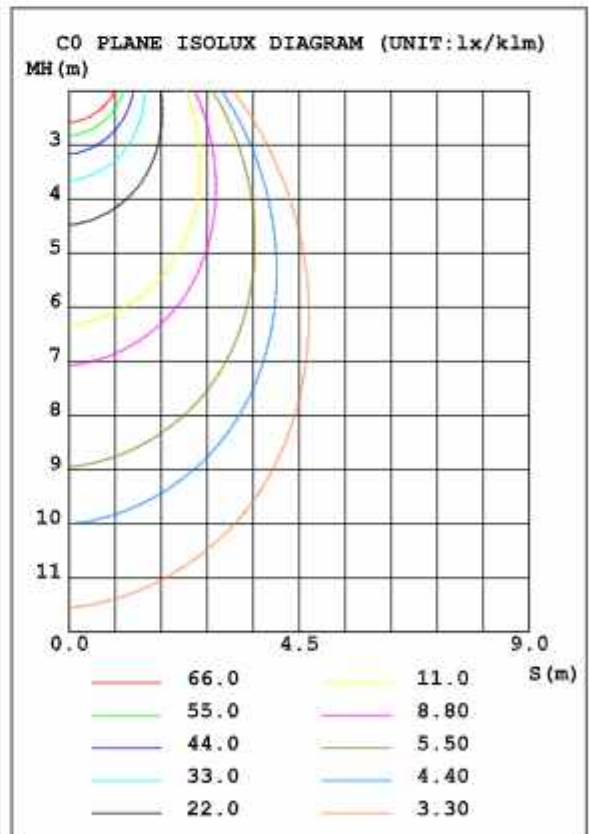
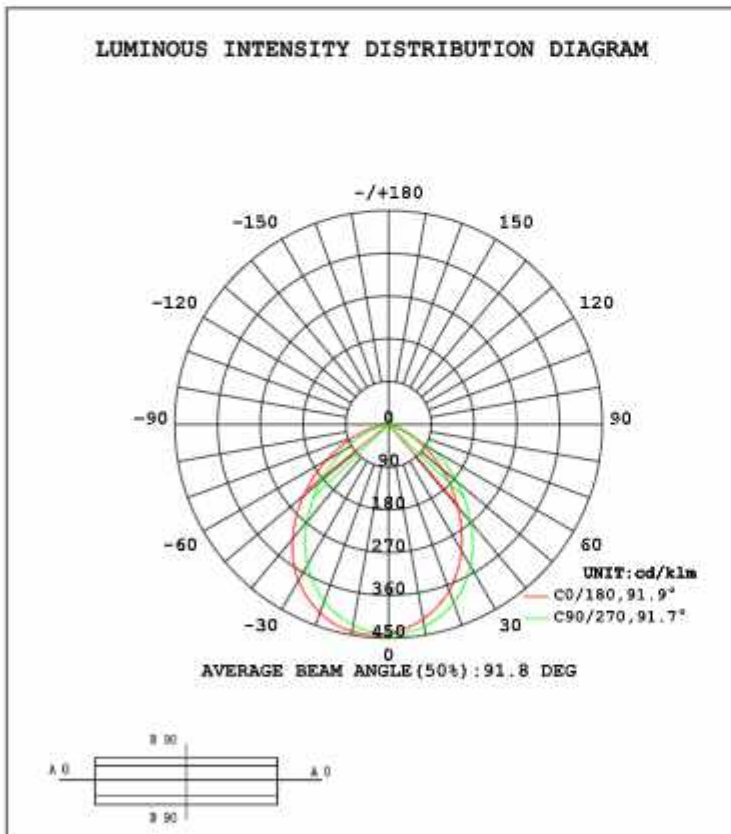
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.00 lm/W			
MODEL	12W-3000K	Imax (cd/klm)	445.0	S/MH (C0/180)	1.07
NOMINAL POWER (W)	12	LOR (%)	96.1	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	961.39	η UP, DN (C0-180)	1.3, 42.1
NOMINAL FLUX (lm)	1243.98	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 51.9
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	94.0	CIBSE SHR MAX	1.30



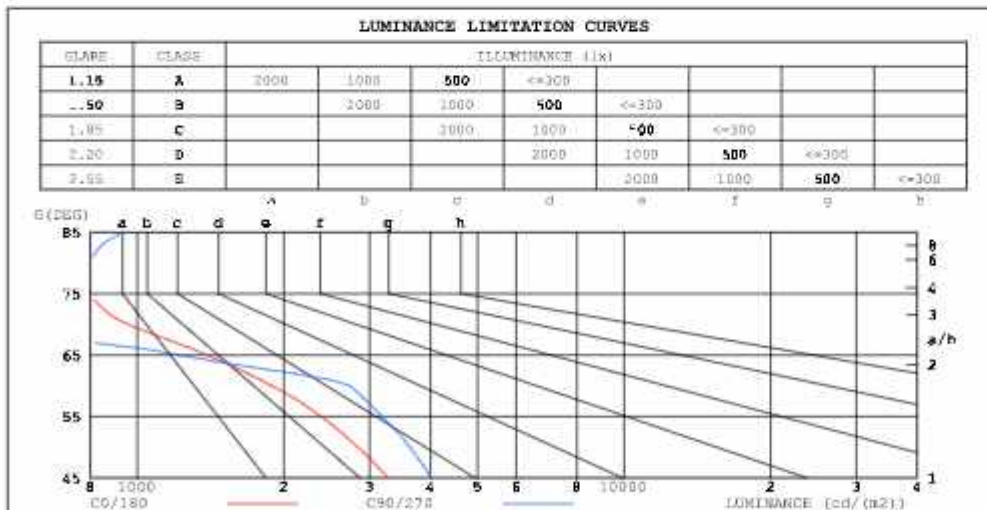
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	lum, lamp	
10	416.2	432.3	443.2	429.5				0- 10	41.61	41.61	4.33, 4.16	
20	372.6	399.7	422.5	396.1				10- 20	117.4	159.0	16.5, 15.9	
30	306.5	345.0	380.0	342.0				20- 30	171.6	330.6	34.4, 33.1	
40	226.8	269.6	314.9	267.8				30- 40	192.4	522.9	54.4, 52.3	
50	146.7	187.3	234.0	187.3				40- 50	176.7	699.6	72.8, 70	
60	75.84	109.9	150.8	111.7				50- 60	133.7	833.3	86.7, 83.3	
70	26.33	9.407	78.51	48.69				60- 70	71.23	904.6	94.1, 90.5	
80	8.720	10.55	26.29	7.713				70- 80	26.33	930.9	96.8, 93.1	
90	3.792	3.770	7.292	1.484				80- 90	8.638	939.5	97.7, 94	
100	3.792	3.760	1.562	1.787				90-100	3.249	942.8	98.1, 94.3	
110	3.856	3.813	1.924	2.213				100-110	2.994	945.8	98.4, 94.6	
120	4.017	3.952	2.369	2.693				110-120	3.074	948.8	98.7, 94.9	
130	4.193	4.183	2.832	3.247				120-130	3.079	951.9	99, 95.2	
140	4.410	4.435	3.296	3.733				130-140	2.932	954.9	99.3, 95.5	
150	4.654	4.695	3.773	4.137				140-150	2.596	957.5	99.6, 95.7	
160	4.925	4.968	4.291	4.579				150-160	2.077	959.5	99.8, 96	
170	5.145	5.182	4.805	4.962				160-170	1.374	960.9	99.9, 96.1	
180	5.185	5.236	5.185	5.230				170-180	0.4874	961.4	100, 96.1	
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm				



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	543	947
80	625	755
75	784	307
70	958	342
65	1389	1221
60	1887	2734
55	2383	3181
50	2839	3625
45	3273	4070

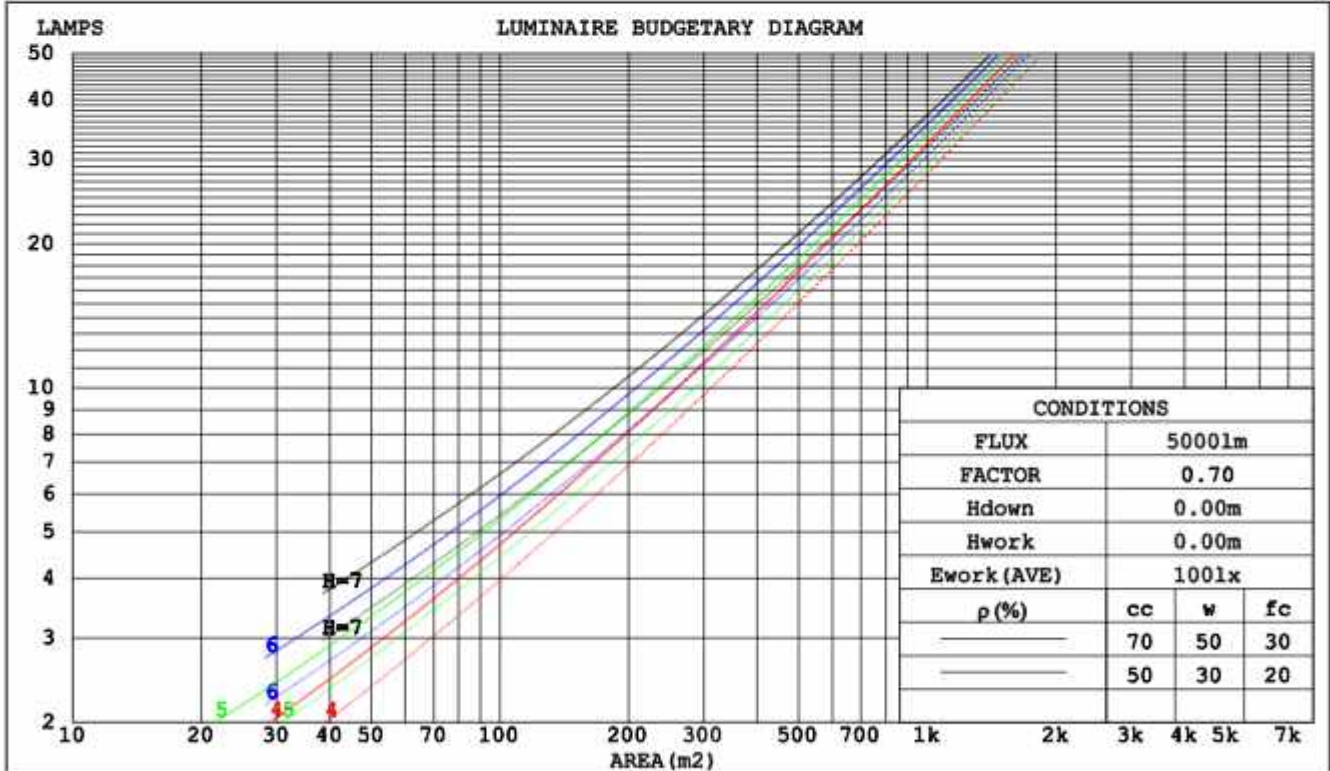
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4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	1.14	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	.91	.85	.80	.89	.83	.79	.85	.81	.77	.82	.78	.75	.78	.75	.73	.71
3.0	.81	.74	.68	.79	.73	.68	.76	.71	.66	.73	.69	.65	.71	.67	.63	.61
4.0	.72	.65	.59	.71	.64	.59	.68	.62	.58	.66	.61	.57	.64	.59	.56	.54
5.0	.65	.58	.52	.64	.57	.51	.62	.56	.51	.60	.54	.50	.58	.53	.49	.47
6.0	.59	.51	.46	.58	.51	.45	.56	.50	.45	.55	.49	.44	.53	.48	.44	.42
7.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.49	.43	.39	.38
8.0	.50	.42	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
9.0	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31
10.0	.42	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.33	.30	.28



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸商照	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	.251	.143	.045	.243	.139	.044	.230	.132	.042	.217	.125	.040	.205	.119	.038	
2.0	.241	.132	.041	.235	.129	.040	.223	.124	.038	.212	.119	.037	.201	.114	.036	
3.0	.227	.121	.036	.222	.119	.036	.211	.114	.035	.201	.110	.034	.192	.106	.033	
4.0	.213	.111	.033	.208	.109	.032	.199	.105	.032	.190	.102	.031	.182	.099	.030	
5.0	.200	.102	.030	.195	.100	.029	.187	.097	.029	.179	.095	.028	.172	.092	.028	
6.0	.187	.094	.027	.183	.093	.027	.176	.090	.026	.169	.088	.026	.162	.085	.025	
7.0	.176	.087	.025	.173	.086	.024	.166	.084	.024	.159	.082	.024	.153	.080	.023	
8.0	.166	.081	.023	.163	.080	.023	.156	.078	.022	.151	.076	.022	.145	.075	.022	
9.0	.156	.076	.021	.153	.075	.021	.148	.073	.021	.143	.072	.020	.138	.070	.020	
10.0	.148	.071	.020	.145	.070	.020	.140	.069	.019	.135	.067	.019	.131	.066	.019	

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.187	.167	.150	.160	.144	.129	.109	.099	.089	.063	.057	.052	.020	.018	.017	
2.0	.177	.144	.116	.152	.124	.100	.104	.086	.070	.060	.050	.041	.019	.016	.013	
3.0	.169	.127	.093	.145	.109	.081	.099	.076	.057	.057	.044	.033	.018	.014	.011	
4.0	.161	.114	.077	.139	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
5.0	.154	.103	.066	.133	.089	.057	.091	.062	.040	.053	.037	.024	.017	.012	.008	
6.0	.148	.095	.057	.127	.082	.050	.088	.058	.035	.051	.034	.021	.016	.011	.007	
7.0	.142	.088	.051	.122	.077	.045	.084	.054	.032	.049	.032	.019	.016	.010	.006	
8.0	.136	.083	.046	.117	.072	.041	.081	.050	.029	.047	.030	.017	.015	.010	.006	
9.0	.131	.078	.043	.112	.068	.037	.078	.048	.027	.045	.028	.016	.015	.009	.005	
10.0	.125	.074	.040	.108	.064	.035	.075	.045	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm										
NAME: 4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	14.1	15.4	14.3	15.6	15.9	15.0	16.4	15.3	16.6	16.8
3H	14.3	15.5	14.6	15.8	16.0	15.0	16.2	15.3	16.5	16.8
4H	14.3	15.5	14.7	15.8	16.1	14.9	16.1	15.2	16.3	16.6
6H	14.3	15.4	14.7	15.7	16.0	14.9	16.0	15.2	16.3	16.6
8H	14.3	15.4	14.7	15.7	16.0	14.9	15.9	15.2	16.2	16.6
12H	14.3	15.3	14.7	15.6	16.0	14.9	15.9	15.3	16.2	16.6
4H 2H	14.2	15.4	14.6	15.7	16.0	15.1	16.2	15.4	16.5	16.8
3H	14.5	15.5	14.9	15.8	16.2	15.1	16.1	15.4	16.4	16.7
4H	14.6	15.5	15.0	15.9	16.2	15.0	15.9	15.4	16.3	16.6
6H	14.7	15.5	15.1	15.8	16.3	15.0	15.8	15.5	16.2	16.6
8H	14.7	15.4	15.1	15.8	16.2	15.1	15.8	15.5	16.2	16.7
12H	14.7	15.3	15.1	15.8	16.2	15.1	15.8	15.6	16.2	16.7
8H 4H	14.5	15.3	14.9	15.7	16.1	14.9	15.7	15.4	16.1	16.5
6H	14.6	15.3	15.1	15.7	16.2	15.0	15.6	15.5	16.1	16.5
8H	14.7	15.2	15.2	15.7	16.2	15.1	15.7	15.6	16.1	16.6
12H	14.7	15.2	15.2	15.7	16.2	15.2	15.7	15.7	16.2	16.7
12H 4H	14.5	15.2	14.9	15.6	16.0	14.9	15.6	15.3	16.0	16.4
6H	14.6	15.2	15.1	15.6	16.1	15.0	15.5	15.5	16.0	16.5
8H	14.7	15.2	15.2	15.6	16.2	15.1	15.6	15.6	16.1	16.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

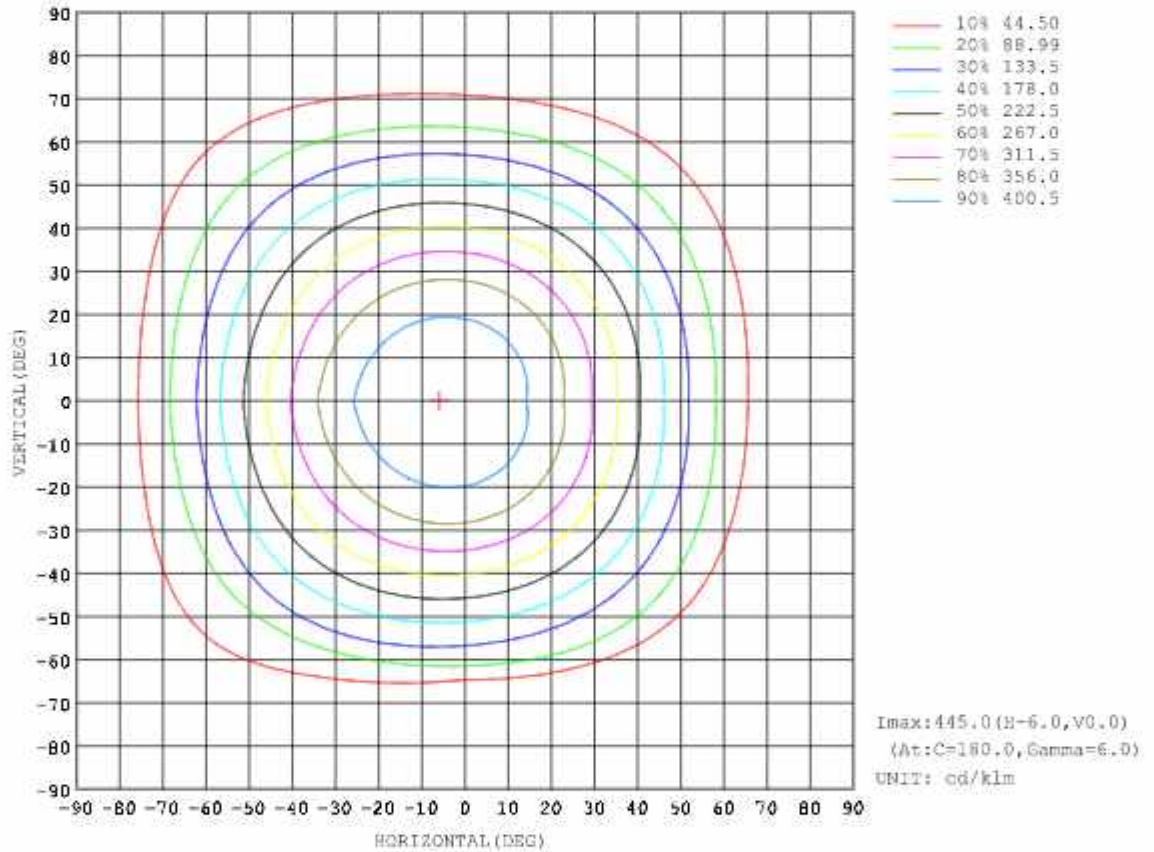
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	50	44	60	50	44	58	49	44	38
0.80	70	60	54	69	60	54	67	59	53	47
1.00	78	69	63	77	68	62	75	69	62	55
1.25	85	76	70	83	75	69	81	74	69	62
1.50	89	81	75	87	80	75	84	78	73	67
2.00	95	88	83	93	87	82	90	84	80	73
2.50	98	91	87	96	90	86	92	87	84	76
3.00	101	95	91	98	93	89	94	90	87	79
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

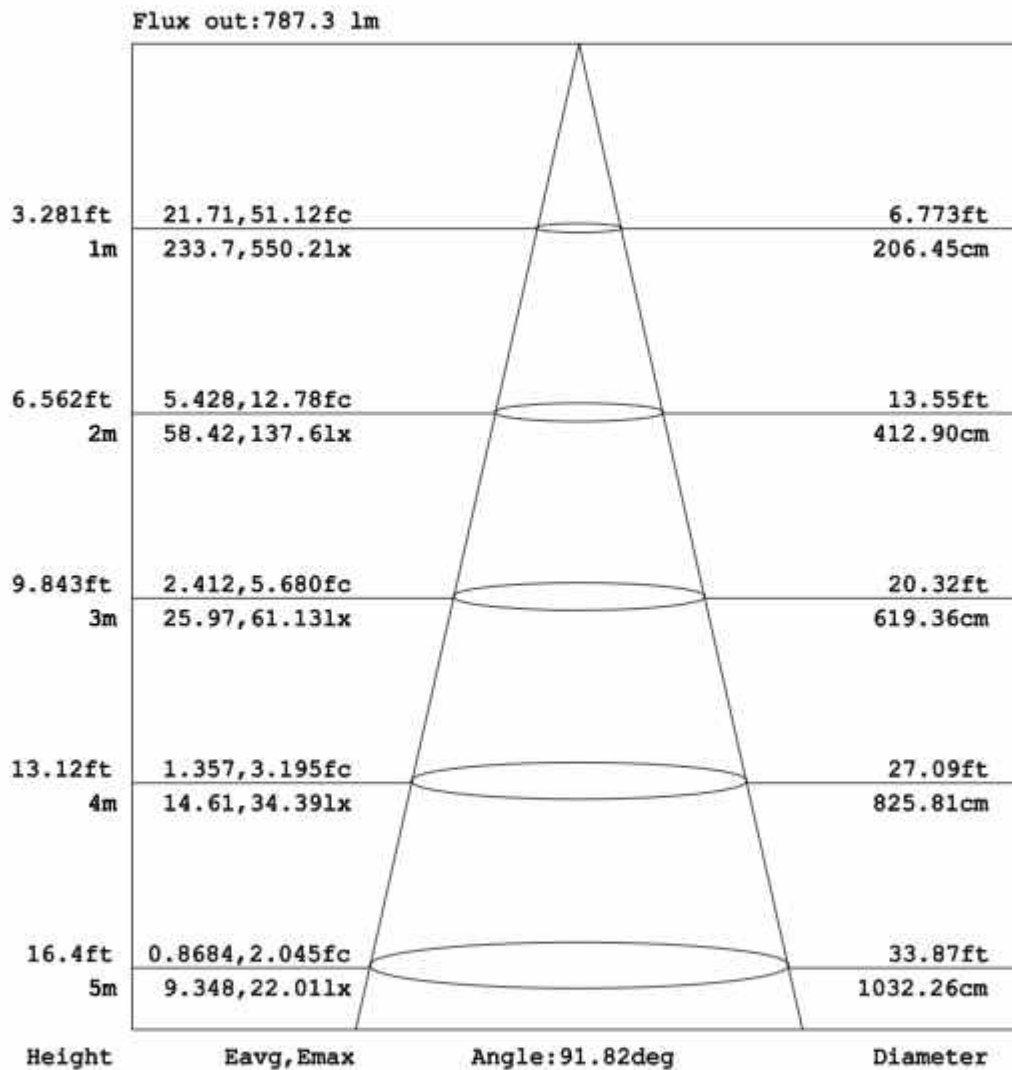


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



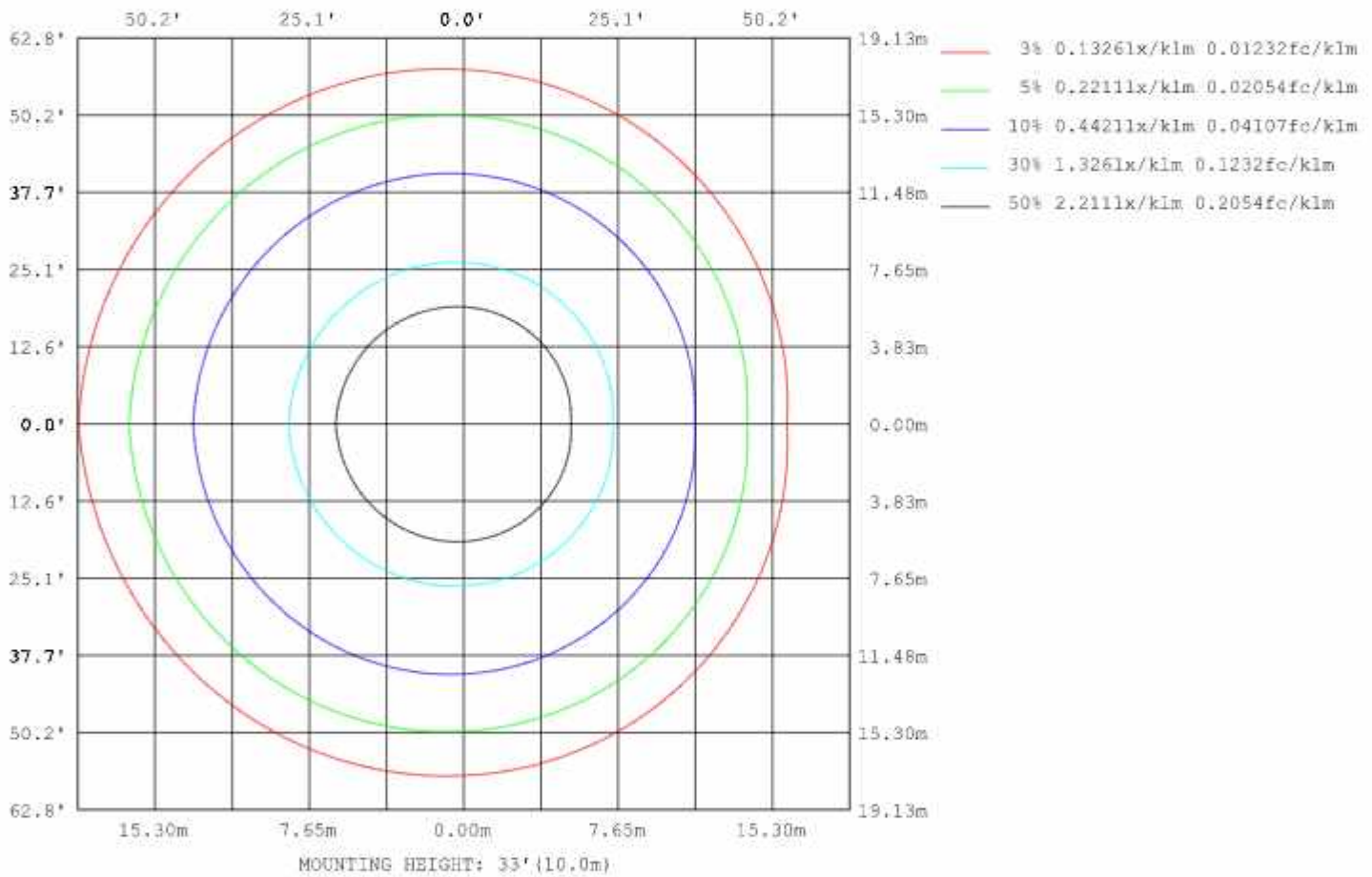
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-11

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

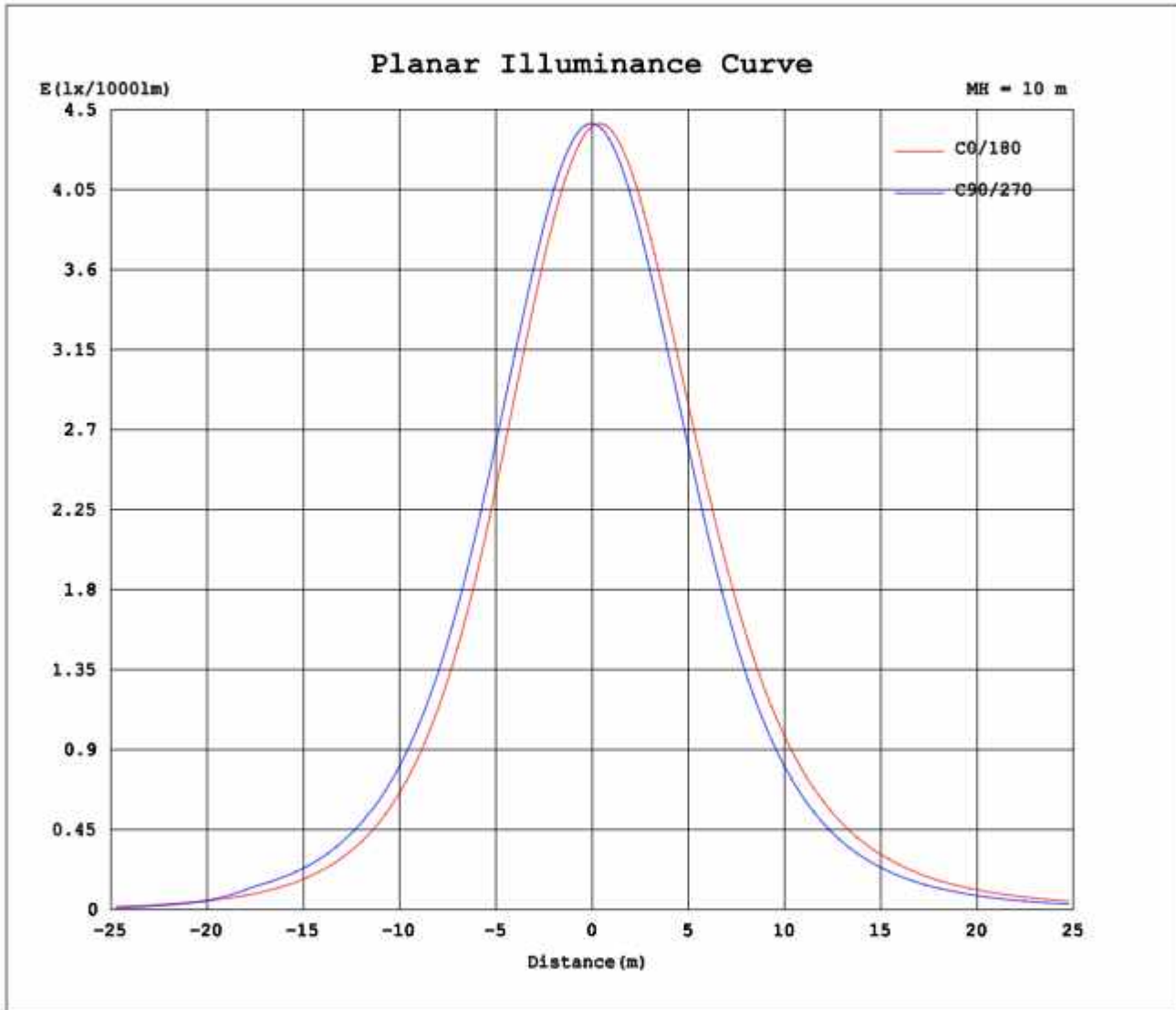
Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0950A P:11.50W PF:0.9950 Lamp Flux:1243.98x1 lm		
NAME: 4寸商照	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	441	442	441	442															
5	431	440	445	439															
10	416	432	443	430															
15	397	419	436	415															
20	373	400	422	396															
25	342	376	404	372															
30	306	345	380	342															
35	267	309	350	307															
40	227	270	315	268															
45	186	229	275	228															
50	147	187	234	187															
55	110	147	192	148															
60	75.8	110	151	112															
65	47.2	41.5	113	77.7															
70	26.3	9.41	78.5	48.7															
75	16.3	6.40	48.6	25.4															
80	8.72	10.5	26.3	7.71															
85	3.81	6.57	15.2	5.28															
90	3.78	3.77	7.29	1.48															
95	3.78	3.76	1.40	1.62															
100	3.79	3.76	1.56	1.79															
105	3.81	3.78	1.74	1.98															
110	3.86	3.81	1.92	2.21															
115	3.93	3.88	2.14	2.44															
120	4.02	3.95	2.37	2.69															
125	4.11	4.06	2.60	2.98															
130	4.19	4.18	2.83	3.25															
135	4.30	4.30	3.07	3.50															
140	4.41	4.43	3.30	3.73															
145	4.53	4.56	3.54	3.90															
150	4.65	4.69	3.77	4.14															
155	4.79	4.83	4.02	4.36															
160	4.92	4.97	4.29	4.58															
165	5.05	5.08	4.55	4.79															
170	5.14	5.18	4.80	4.96															
175	5.23	5.24	5.02	5.11															
180	5.18	5.24	5.18	5.23															

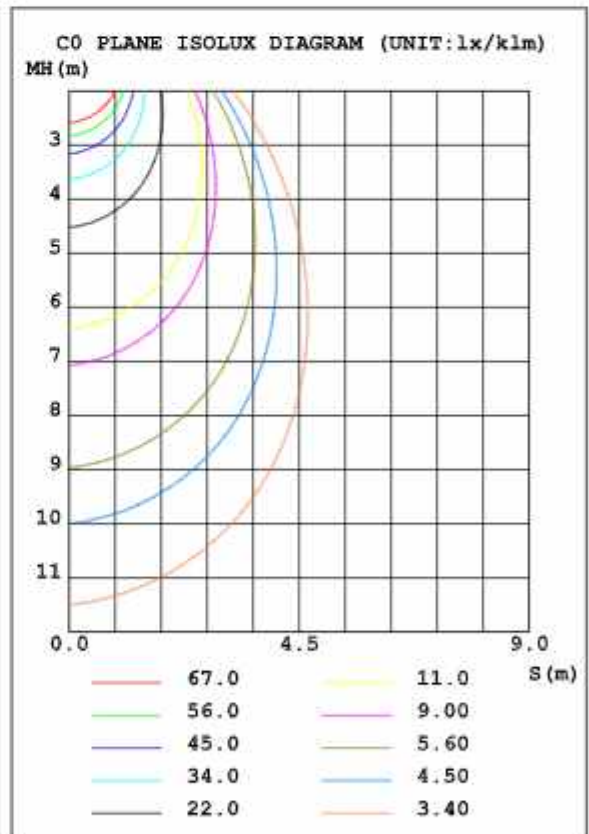
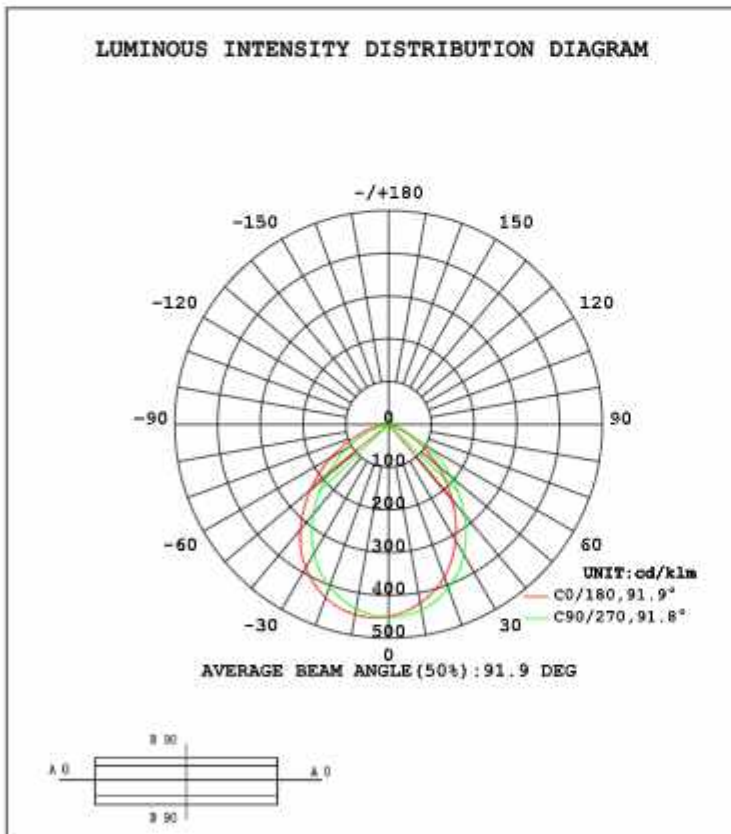
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	12W-3500K	Imax (cd/klm)	453.9	S/MH (C0/180)	1.07
NOMINAL POWER (W)	12	LOR (%)	98.2	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	981.78	η UP, DN (C0-180)	1.3, 43.0
NOMINAL FLUX (lm)	1267.06	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 53.0
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	96.0	CIBSE SHR MAX	1.30



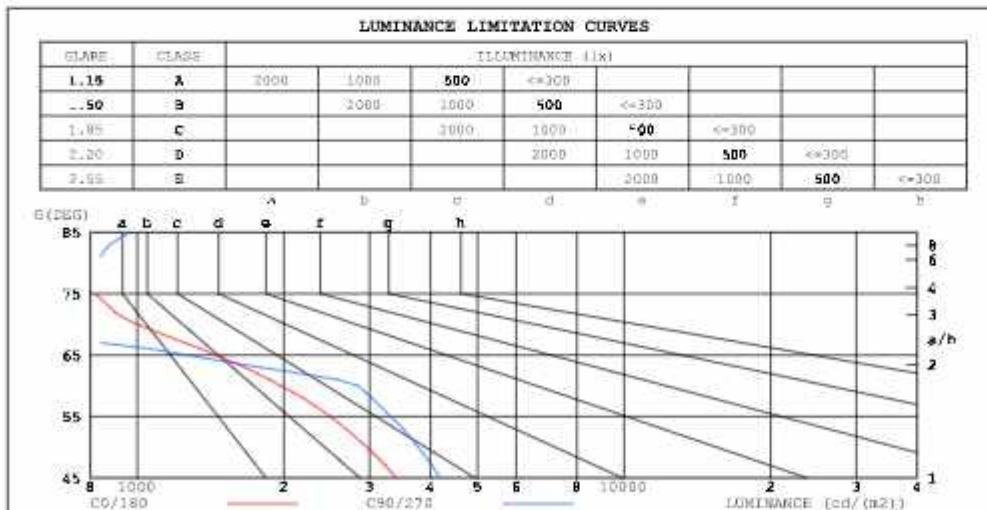
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	Φlum, lamp
10	424.7	440.9	452.1	438.1				0- 10	42.44	42.44	4.32, 4.24
20	380.3	407.8	431.1	404.3				10- 20	119.7	162.2	16.5, 16.2
30	312.8	352.3	387.7	349.3				20- 30	175.1	337.3	34.4, 33.7
40	231.5	275.6	321.1	274.1				30- 40	196.5	533.8	54.4, 53.4
50	150.1	191.5	238.9	191.7				40- 50	180.6	714.4	72.0, 71.4
60	77.72	112.0	154.1	114.2				50- 60	136.7	851.1	86.7, 85.1
70	26.97	9.517	80.54	49.55				60- 70	72.79	923.9	94.1, 92.4
80	8.895	10.74	26.92	7.865				70- 80	26.92	950.8	96.8, 95.1
90	3.851	3.836	7.421	1.486				80- 90	8.810	959.6	97.7, 96
100	3.845	3.817	1.563	1.807				90-100	3.291	962.9	98.1, 96.3
110	3.928	3.870	1.931	2.238				100-110	3.034	965.9	98.4, 96.6
120	4.085	4.017	2.384	2.736				110-120	3.118	969.0	98.7, 96.9
130	4.277	4.254	2.860	3.299				120-130	3.125	972.2	99, 97.2
140	4.493	4.493	3.347	3.783				130-140	2.977	975.1	99.3, 97.5
150	4.732	4.770	3.825	4.201				140-150	2.636	977.8	99.6, 97.8
160	5.009	5.046	4.354	4.654				150-160	2.110	979.9	99.8, 98
170	5.259	5.264	4.883	5.048				160-170	1.396	981.3	99.9, 98.1
180	5.277	5.309	5.261	5.304				170-180	0.4956	981.8	100, 98.2
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	563	971
80	649	783
75	816	318
70	999	353
65	1453	1262
60	1970	2829
55	2486	3308
50	2959	3775
45	3406	4187

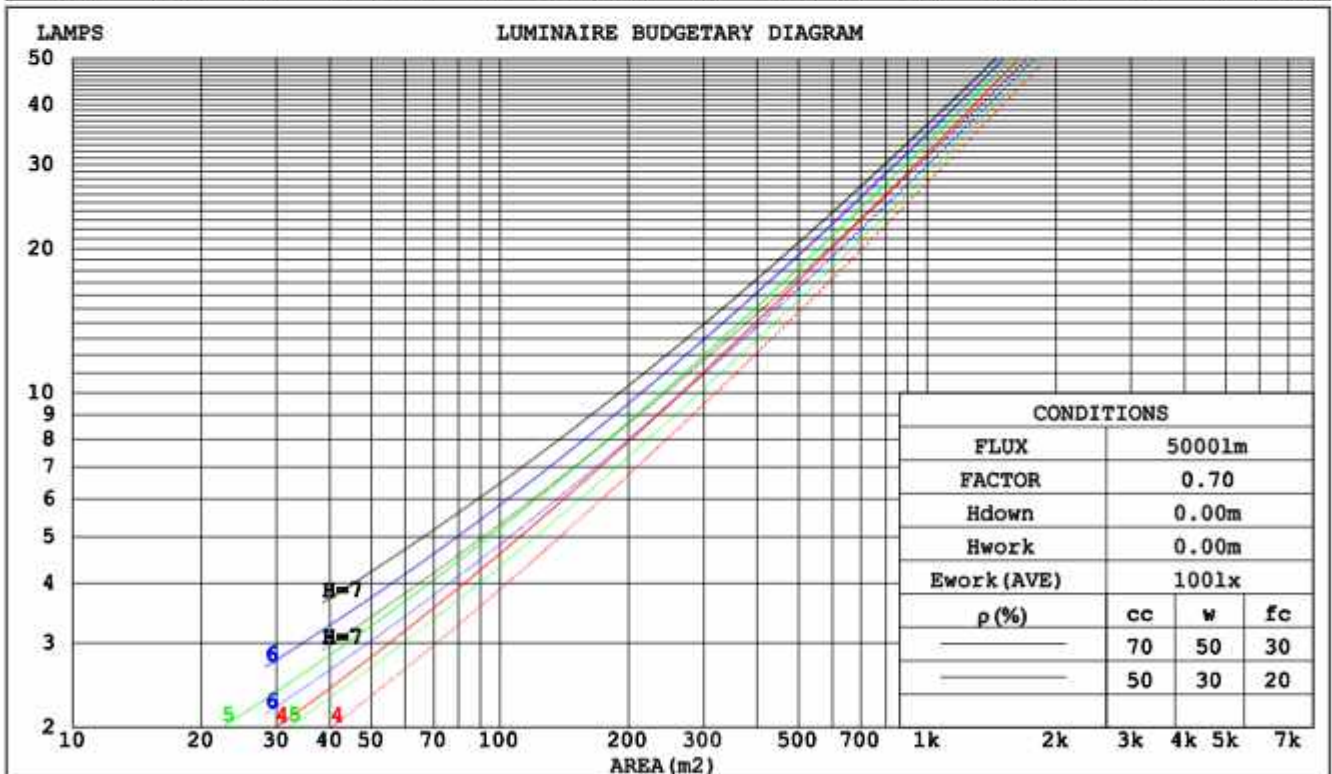
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4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	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	.98	.98	.98	.96
1.0	1.04	1.00	.97	1.02	.98	.95	.97	.94	.92	.93	.91	.89	.89	.87	.86	.84
2.0	.92	.87	.82	.90	.85	.81	.87	.82	.78	.83	.80	.76	.80	.77	.74	.72
3.0	.82	.75	.70	.81	.74	.69	.78	.72	.68	.75	.70	.66	.72	.68	.65	.63
4.0	.74	.66	.60	.73	.65	.60	.70	.64	.59	.67	.62	.58	.65	.61	.57	.55
5.0	.67	.59	.53	.66	.58	.52	.63	.57	.52	.61	.55	.51	.59	.54	.50	.48
6.0	.61	.52	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.54	.49	.45	.43
7.0	.55	.47	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.50	.44	.40	.38
8.0	.51	.43	.38	.50	.43	.37	.48	.42	.37	.47	.41	.37	.46	.40	.36	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.29



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸商照	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	.256	.146	.046	.249	.142	.045	.235	.135	.043	.222	.128	.041	.210	.122	.039	
2.0	.246	.135	.041	.240	.132	.041	.227	.126	.039	.216	.121	.038	.206	.116	.037	
3.0	.232	.124	.037	.227	.121	.037	.216	.117	.036	.206	.113	.035	.196	.109	.034	
4.0	.218	.113	.033	.213	.111	.033	.203	.108	.032	.194	.104	.031	.186	.101	.031	
5.0	.204	.104	.030	.200	.102	.030	.191	.099	.029	.183	.097	.029	.176	.094	.028	
6.0	.191	.096	.027	.187	.095	.027	.180	.092	.027	.173	.090	.026	.166	.087	.026	
7.0	.180	.089	.025	.176	.088	.025	.169	.086	.025	.163	.083	.024	.157	.081	.024	
8.0	.169	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	
9.0	.160	.077	.022	.157	.076	.021	.151	.075	.021	.146	.073	.021	.141	.071	.021	
10.0	.151	.072	.020	.148	.072	.020	.143	.070	.020	.138	.069	.020	.134	.067	.019	

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.191	.171	.153	.163	.147	.131	.112	.101	.091	.064	.058	.053	.021	.019	.017	
2.0	.181	.147	.118	.155	.126	.102	.106	.087	.071	.061	.051	.042	.020	.016	.014	
3.0	.172	.129	.095	.148	.111	.082	.101	.077	.058	.059	.045	.034	.019	.015	.011	
4.0	.165	.116	.079	.141	.100	.068	.097	.070	.048	.056	.041	.028	.018	.013	.009	
5.0	.158	.105	.067	.135	.091	.058	.093	.064	.041	.054	.037	.024	.017	.012	.008	
6.0	.151	.097	.058	.130	.084	.051	.089	.059	.036	.052	.035	.021	.017	.011	.007	
7.0	.145	.090	.052	.124	.078	.045	.086	.055	.032	.050	.032	.019	.016	.011	.006	
8.0	.139	.085	.047	.119	.073	.041	.083	.051	.029	.048	.030	.017	.016	.010	.006	
9.0	.133	.080	.044	.115	.069	.038	.080	.049	.027	.046	.029	.016	.015	.009	.005	
10.0	.128	.076	.041	.110	.066	.035	.077	.046	.025	.045	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm										
NAME: 4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	14.1	15.5	14.4	15.7	16.0	15.1	16.4	15.4	16.7	16.9
3H	14.4	15.6	14.7	15.9	16.1	15.1	16.3	15.4	16.6	16.8
4H	14.4	15.6	14.7	15.8	16.1	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.8	15.8	16.1	14.9	16.0	15.3	16.3	16.7
8H	14.4	15.4	14.8	15.8	16.1	14.9	16.0	15.3	16.3	16.6
12H	14.4	15.4	14.7	15.7	16.0	15.0	16.0	15.3	16.3	16.6
4H 2H	14.3	15.5	14.7	15.8	16.1	15.1	16.3	15.5	16.6	16.9
3H	14.6	15.6	15.0	15.9	16.3	15.1	16.1	15.5	16.5	16.8
4H	14.7	15.6	15.1	15.9	16.3	15.1	16.0	15.5	16.3	16.7
6H	14.7	15.5	15.2	15.9	16.3	15.1	15.9	15.5	16.3	16.7
8H	14.7	15.5	15.2	15.9	16.3	15.2	15.9	15.6	16.3	16.7
12H	14.7	15.4	15.2	15.8	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.3	15.0	15.7	16.2	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.3	15.2	15.8	16.2	15.1	15.7	15.6	16.1	16.6
8H	14.8	15.3	15.3	15.8	16.3	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.3	15.3	15.7	16.3	15.3	15.8	15.8	16.2	16.8
12H 4H	14.6	15.2	15.0	15.7	16.1	15.0	15.6	15.4	16.1	16.5
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.8	15.2	15.3	15.7	16.2	15.2	15.7	15.7	16.1	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.8				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

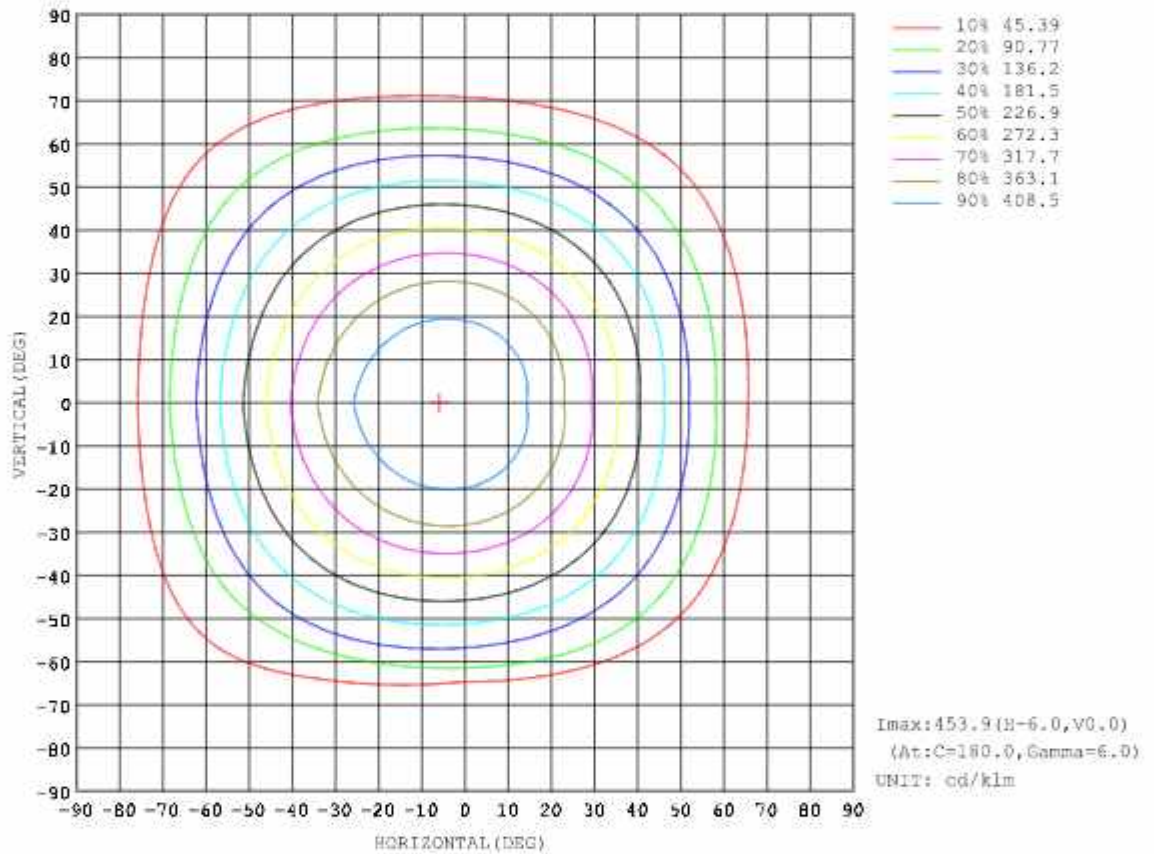
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	51	45	61	51	45	60	50	45	39
0.80	72	61	55	71	61	55	69	60	54	48
1.00	80	70	64	79	70	64	76	70	63	57
1.25	86	77	71	85	77	71	82	75	70	63
1.50	91	83	77	89	82	76	86	80	75	68
2.00	97	90	84	95	88	83	91	86	82	74
2.50	100	93	88	98	92	87	94	89	85	77
3.00	103	97	92	101	95	91	96	92	89	81
4.00	106	101	97	104	99	96	99	96	93	84
5.00	108	104	100	105	102	99	101	98	95	86
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



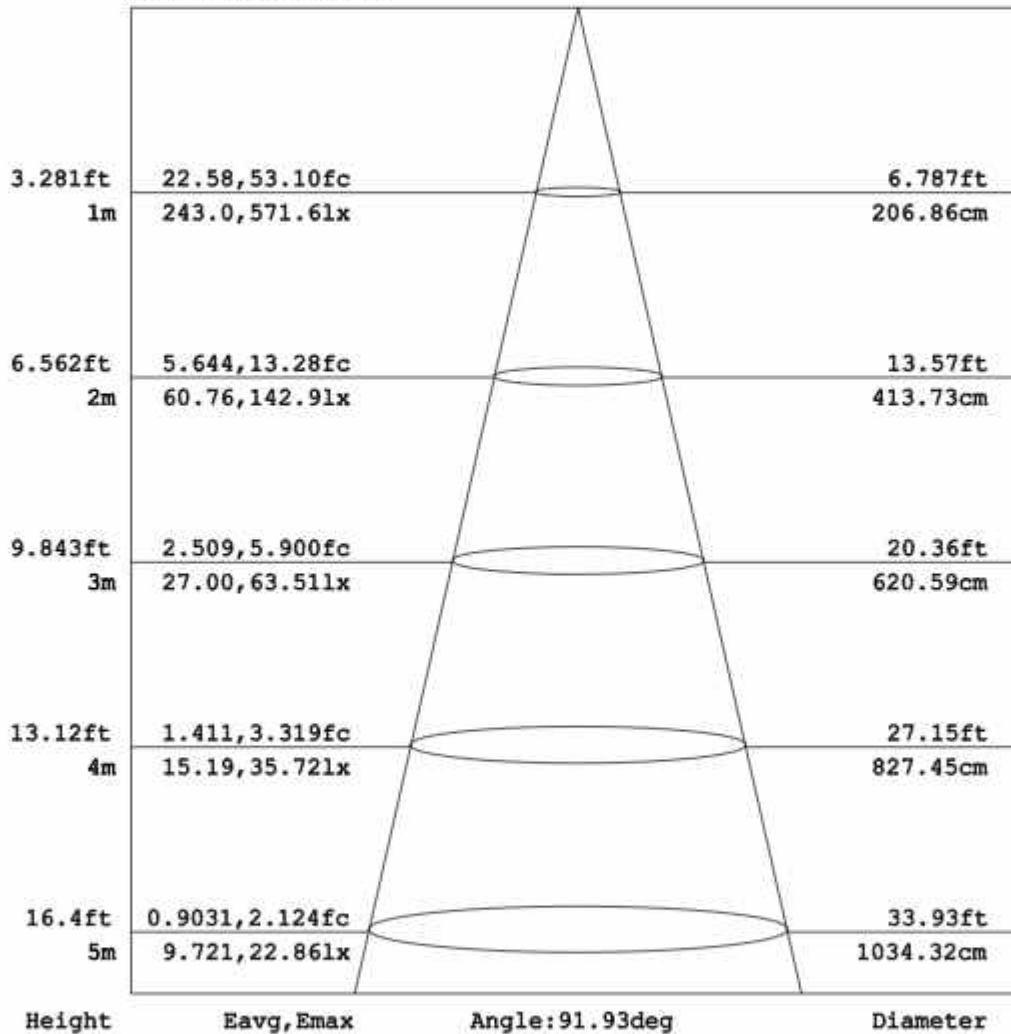
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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 Figure

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:818.7 lm



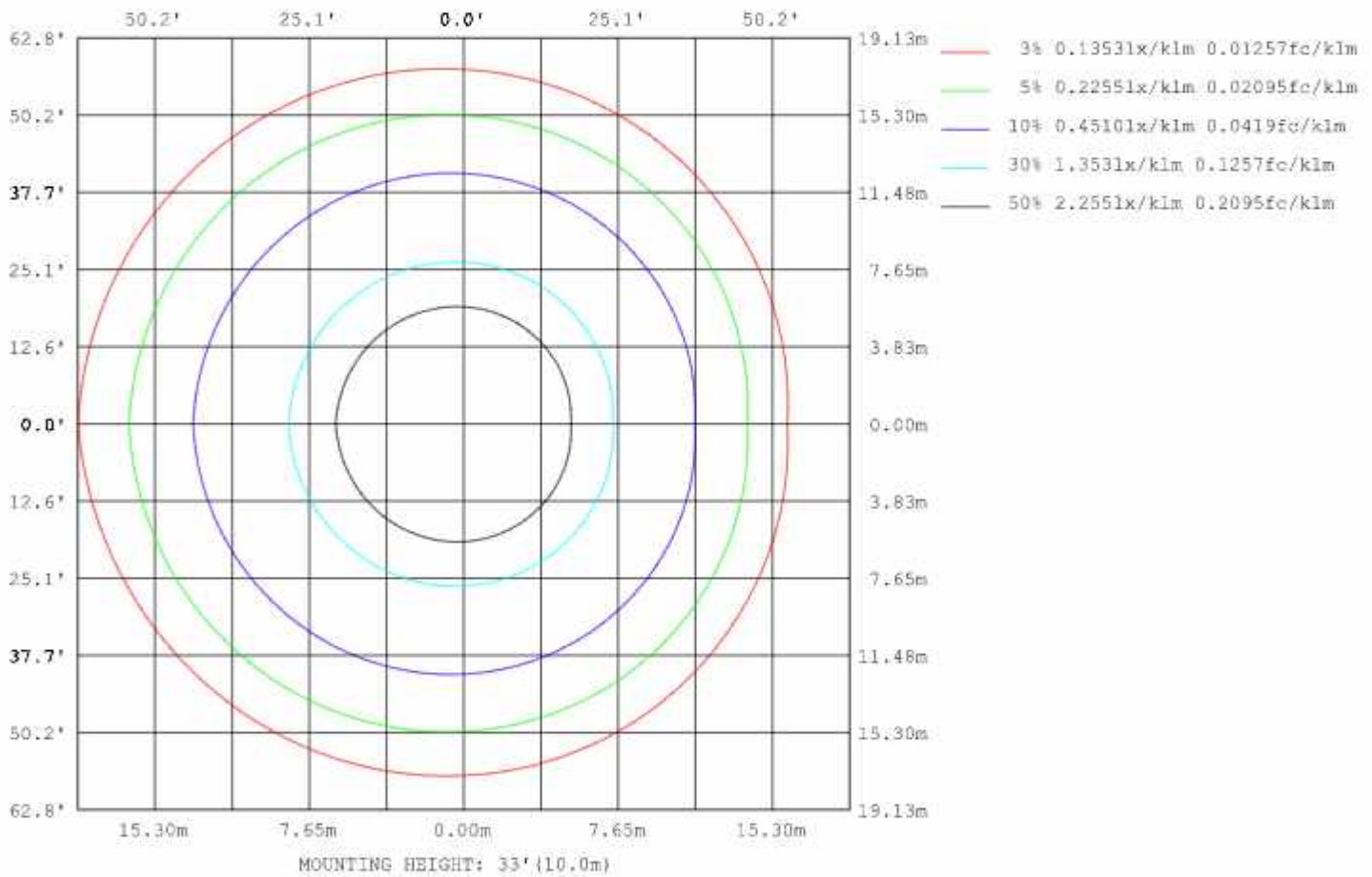
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

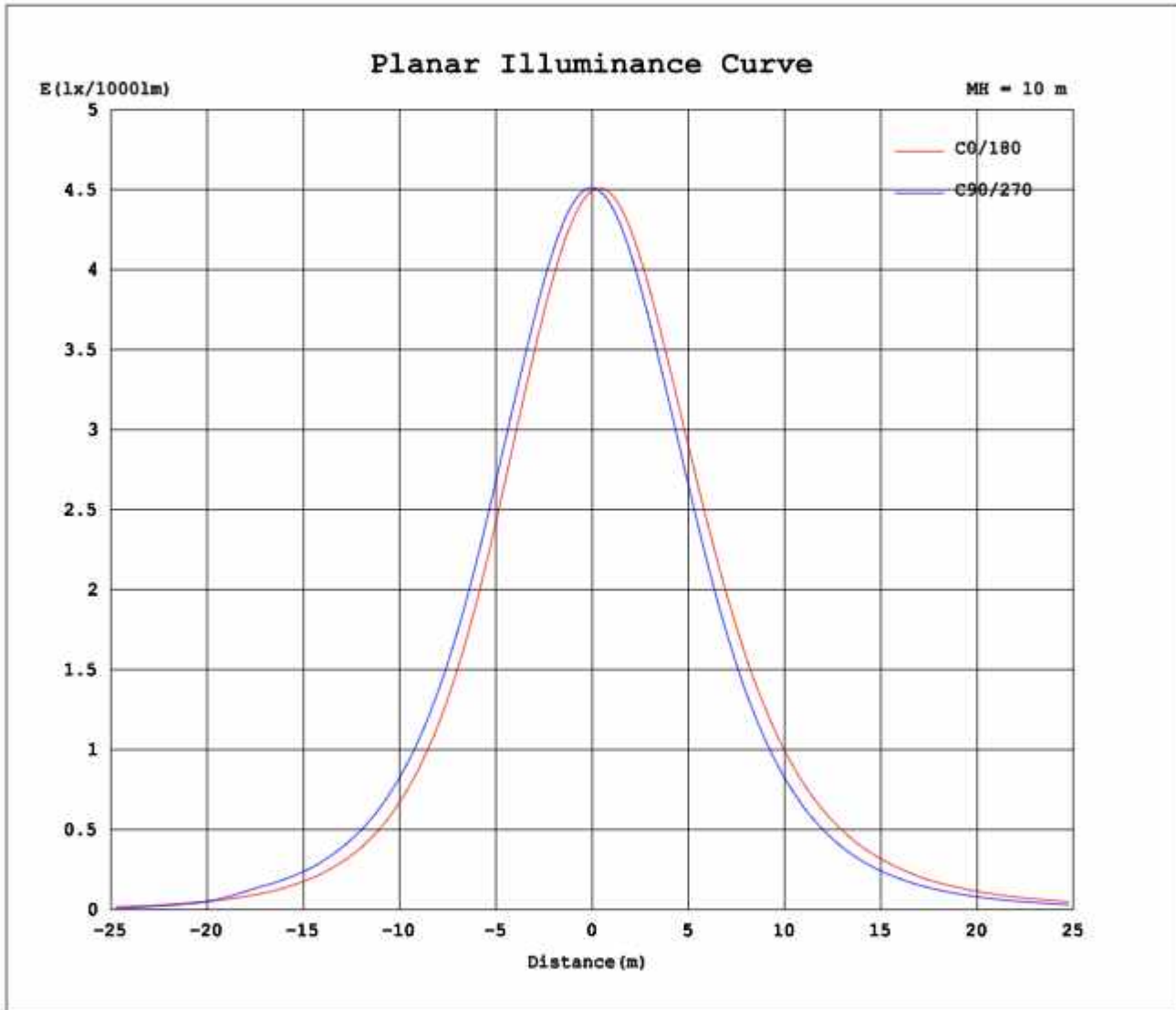
Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0940A P:11.30W PF:0.9950 Lamp Flux:1267.06x1 lm		
NAME: 4寸商照	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	449	451	449	451																
5	440	449	454	448																
10	425	441	452	438																
15	405	427	445	424																
20	380	408	431	404																
25	349	383	412	380																
30	313	352	388	349																
35	273	316	358	313																
40	232	276	321	274																
45	190	234	281	233																
50	150	191	239	192																
55	113	150	196	152																
60	77.7	112	154	114																
65	48.5	42.1	116	79.3																
70	27.0	9.52	80.5	49.6																
75	16.7	6.49	49.9	25.9																
80	8.90	10.7	26.9	7.86																
85	3.87	6.68	15.5	5.38																
90	3.85	3.84	7.42	1.49																
95	3.84	3.82	1.40	1.63																
100	3.85	3.82	1.56	1.81																
105	3.87	3.83	1.74	2.01																
110	3.93	3.87	1.93	2.24																
115	4.00	3.93	2.15	2.49																
120	4.09	4.02	2.38	2.74																
125	4.17	4.12	2.62	3.02																
130	4.28	4.25	2.86	3.30																
135	4.38	4.37	3.11	3.57																
140	4.49	4.49	3.35	3.78																
145	4.60	4.63	3.58	3.97																
150	4.73	4.77	3.83	4.20																
155	4.86	4.90	4.08	4.43																
160	5.01	5.05	4.35	4.65																
165	5.14	5.16	4.63	4.86																
170	5.26	5.26	4.88	5.05																
175	5.30	5.31	5.10	5.20																
180	5.28	5.31	5.26	5.30																

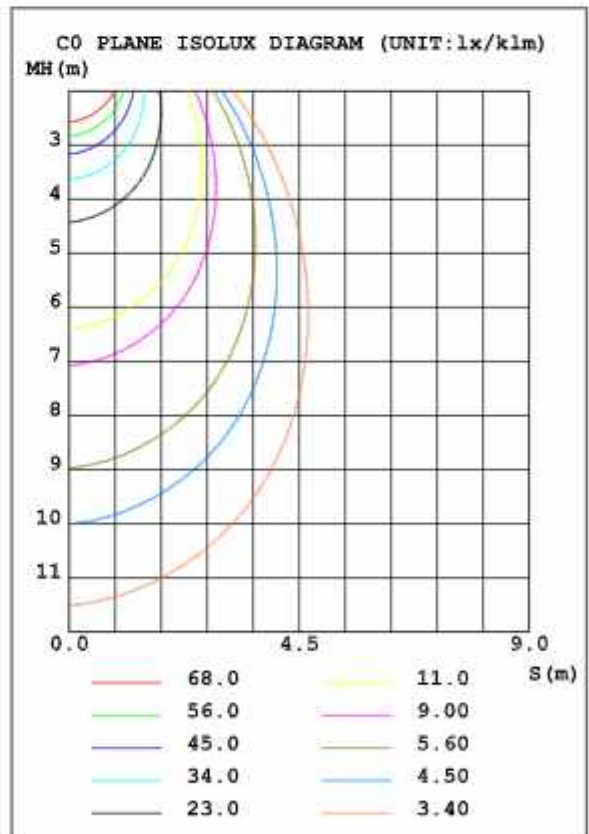
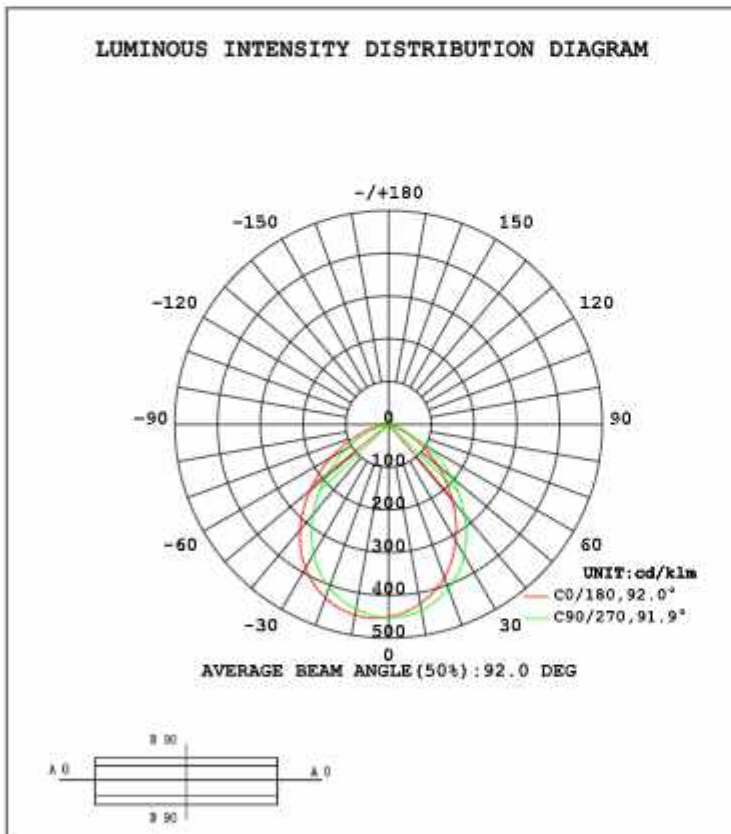
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.15 lm/W			
MODEL	12W-4000K	I _{max} (cd/klm)	455.1	S/MH (C0/180)	1.07
NOMINAL POWER (W)	12	LOR (%)	98.5	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	985.36	η UP, DN (C0-180)	1.3, 43.1
NOMINAL FLUX (lm)	1285.89	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.9, 53.2
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	96.3	CIBSE SHR MAX	1.30



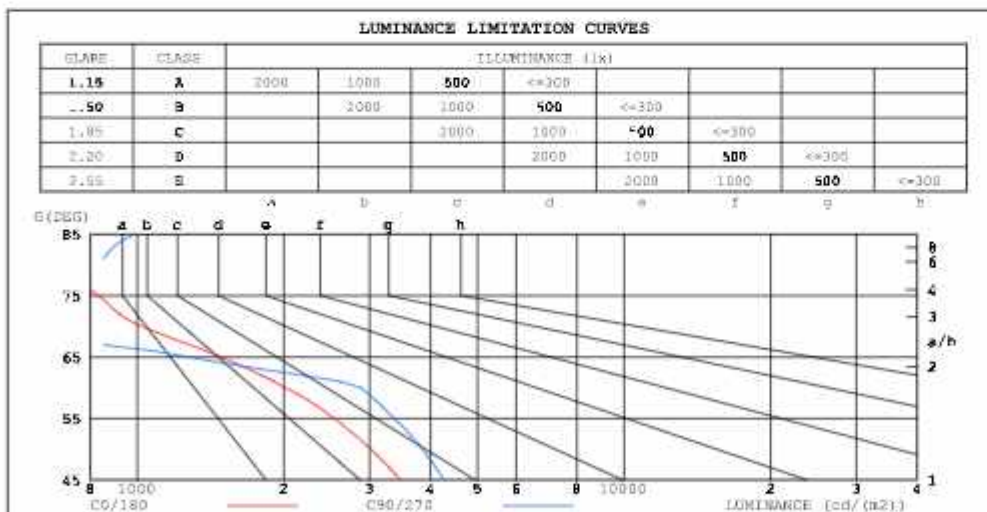
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	lum, lamp
10	425.9	442.1	453.3	439.4				0- 10	42.56	42.56	4.32, 4.26
20	381.5	408.9	432.2	405.5				10- 20	120.1	162.6	16.5, 16.3
30	313.7	353.5	388.8	350.7				20- 30	175.7	338.3	34.3, 33.8
40	232.3	276.7	322.0	275.5				30- 40	197.1	535.4	54.3, 53.5
50	150.8	192.1	239.7	192.7				40- 50	181.3	716.7	72.7, 71.7
60	78.17	112.2	155.7	114.7				50- 60	137.3	854.1	86.7, 85.4
70	27.12	9.522	81.12	49.67				60- 70	73.12	927.2	94.1, 92.7
80	8.916	10.77	27.12	7.910				70- 80	27.07	954.3	96.8, 95.4
90	3.862	3.849	7.463	1.496				80- 90	8.854	963.1	97.7, 96.3
100	3.864	3.824	1.574	1.809				90-100	3.305	966.4	98.1, 96.6
110	3.935	3.875	1.949	2.242				100-110	3.043	969.5	98.4, 96.9
120	4.090	4.021	2.401	2.743				110-120	3.129	972.6	98.7, 97.3
130	4.282	4.251	2.885	3.300				120-130	3.133	975.7	99, 97.6
140	4.503	4.508	3.363	3.792				130-140	2.985	978.7	99.3, 97.9
150	4.738	4.772	3.844	4.210				140-150	2.643	981.3	99.6, 98.1
160	5.013	5.055	4.374	4.653				150-160	2.116	983.5	99.8, 98.3
170	5.259	5.275	4.902	5.065				160-170	1.400	984.9	99.9, 98.5
180	5.291	5.330	5.273	5.335				170-180	0.4970	985.4	100, 98.5
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm			



LUMINANCE cd/ (m2)		
θ (DEG)	C0/180	C90/270
85	573	987
80	660	797
75	831	324
70	1020	358
65	1484	1277
60	2010	2884
55	2537	3366
50	3017	3843
45	3472	4265

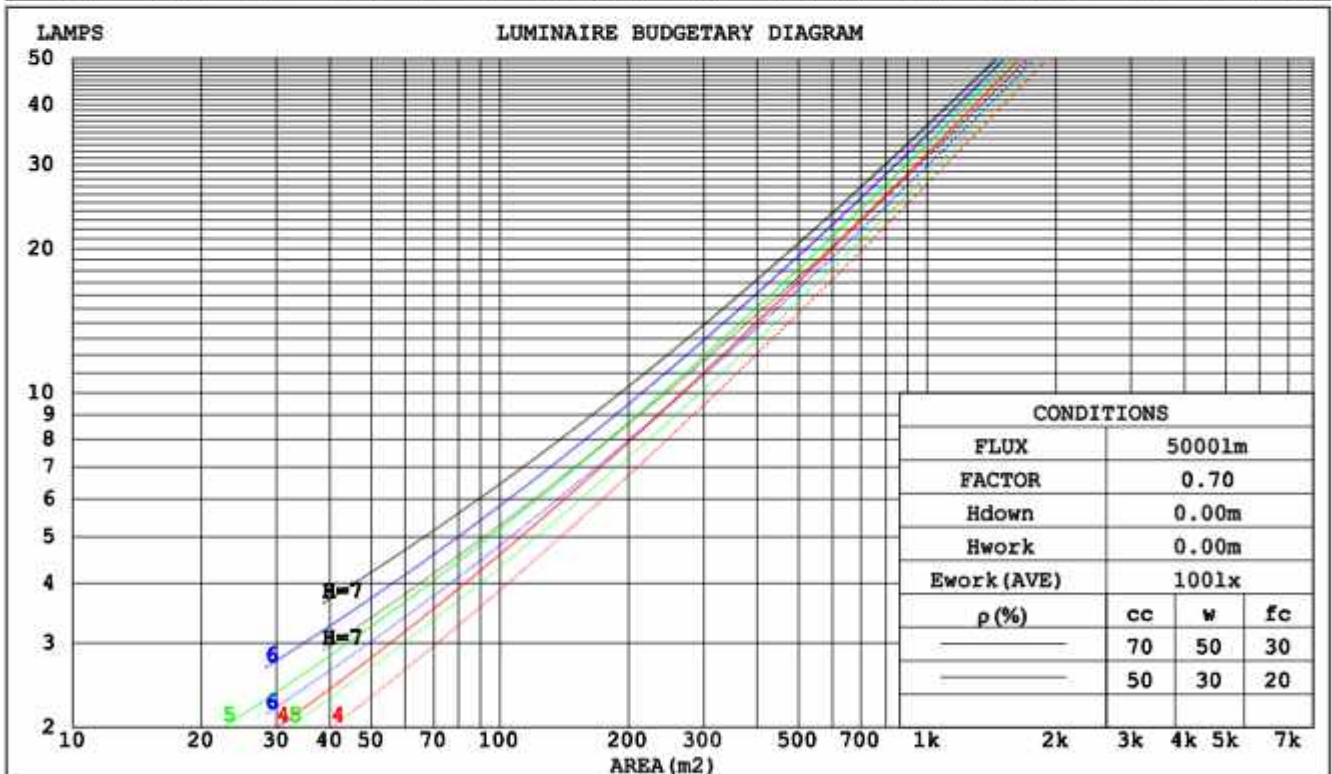
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4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	1.17	1.17	1.17	1.14	1.14	1.14	1.08	1.08	1.08	1.03	1.03	1.03	.99	.99	.99	.96
1.0	1.04	1.01	.98	1.02	.99	.96	.97	.95	.92	.93	.91	.89	.89	.88	.86	.84
2.0	.93	.87	.82	.91	.85	.81	.87	.83	.79	.84	.80	.77	.80	.77	.75	.73
3.0	.83	.76	.70	.81	.75	.69	.78	.72	.68	.75	.70	.66	.72	.68	.65	.63
4.0	.74	.66	.61	.73	.66	.60	.70	.64	.59	.68	.62	.58	.65	.61	.57	.55
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.61	.56	.51	.59	.54	.50	.48
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.45	.54	.49	.45	.43
7.0	.55	.47	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.50	.44	.40	.38
8.0	.51	.43	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.46	.41	.36	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.34	.30	.29



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸商照	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	.257	.146	.046	.250	.142	.045	.236	.135	.043	.223	.128	.041	.211	.122	.039	
2.0	.247	.136	.042	.241	.133	.041	.228	.127	.039	.217	.122	.038	.206	.117	.037	
3.0	.233	.124	.037	.227	.122	.037	.217	.117	.036	.206	.113	.035	.197	.109	.034	
4.0	.219	.114	.033	.214	.112	.033	.204	.108	.032	.195	.105	.032	.187	.101	.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	.181	.089	.025	.177	.088	.025	.170	.086	.025	.163	.084	.024	.157	.082	.024	
8.0	.170	.083	.023	.167	.082	.023	.160	.080	.023	.154	.078	.023	.149	.076	.022	
9.0	.160	.078	.022	.157	.077	.022	.152	.075	.021	.146	.073	.021	.141	.072	.021	
10.0	.152	.073	.020	.149	.072	.020	.144	.070	.020	.139	.069	.020	.134	.068	.019	

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	.205	.205	.205	.175	.175	.175	.119	.119	.119	.069	.069	.069	.022	.022	.022	
1.0	.191	.171	.153	.164	.147	.132	.112	.101	.091	.064	.059	.053	.021	.019	.017	
2.0	.182	.147	.119	.156	.127	.103	.107	.088	.072	.061	.051	.042	.020	.017	.014	
3.0	.173	.130	.095	.148	.112	.082	.102	.078	.058	.059	.045	.034	.019	.015	.011	
4.0	.165	.116	.079	.142	.100	.068	.098	.070	.048	.056	.041	.029	.018	.013	.009	
5.0	.158	.106	.067	.136	.092	.058	.094	.064	.041	.054	.038	.024	.017	.012	.008	
6.0	.151	.097	.059	.130	.084	.051	.090	.059	.036	.052	.035	.021	.017	.011	.007	
7.0	.145	.091	.052	.125	.079	.046	.086	.055	.032	.050	.032	.019	.016	.011	.006	
8.0	.139	.085	.048	.120	.074	.041	.083	.052	.029	.048	.030	.018	.016	.010	.006	
9.0	.134	.080	.044	.115	.069	.038	.080	.049	.027	.046	.029	.016	.015	.009	.005	
10.0	.129	.076	.041	.111	.066	.036	.077	.046	.025	.045	.027	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm										
NAME: 4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	14.2	15.5	14.4	15.7	16.0	15.1	16.4	15.4	16.7	16.9
3H	14.4	15.6	14.7	15.9	16.2	15.1	16.3	15.4	16.6	16.8
4H	14.4	15.6	14.8	15.9	16.2	15.0	16.1	15.3	16.4	16.7
6H	14.4	15.5	14.8	15.8	16.1	14.9	16.0	15.3	16.3	16.7
8H	14.4	15.5	14.8	15.8	16.1	15.0	16.0	15.3	16.3	16.7
12H	14.4	15.4	14.8	15.7	16.1	15.0	16.0	15.3	16.3	16.6
4H 2H	14.3	15.5	14.7	15.8	16.1	15.2	16.3	15.5	16.6	16.9
3H	14.6	15.6	15.0	15.9	16.3	15.1	16.2	15.5	16.5	16.8
4H	14.7	15.6	15.1	16.0	16.3	15.1	16.0	15.5	16.4	16.7
6H	14.8	15.6	15.2	15.9	16.4	15.1	15.9	15.5	16.3	16.7
8H	14.8	15.5	15.2	15.9	16.3	15.2	15.9	15.6	16.3	16.7
12H	14.8	15.4	15.2	15.9	16.3	15.2	15.9	15.7	16.3	16.8
8H 4H	14.6	15.4	15.0	15.8	16.2	15.0	15.7	15.4	16.1	16.6
6H	14.7	15.4	15.2	15.8	16.3	15.1	15.7	15.6	16.1	16.6
8H	14.8	15.3	15.3	15.8	16.3	15.2	15.7	15.7	16.2	16.7
12H	14.8	15.3	15.3	15.8	16.3	15.3	15.8	15.8	16.3	16.8
12H 4H	14.6	15.3	15.0	15.7	16.1	15.0	15.6	15.4	16.1	16.5
6H	14.7	15.3	15.2	15.7	16.2	15.1	15.6	15.6	16.1	16.6
8H	14.8	15.3	15.3	15.7	16.3	15.2	15.7	15.7	16.1	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.6 / - 0.8				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.1 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

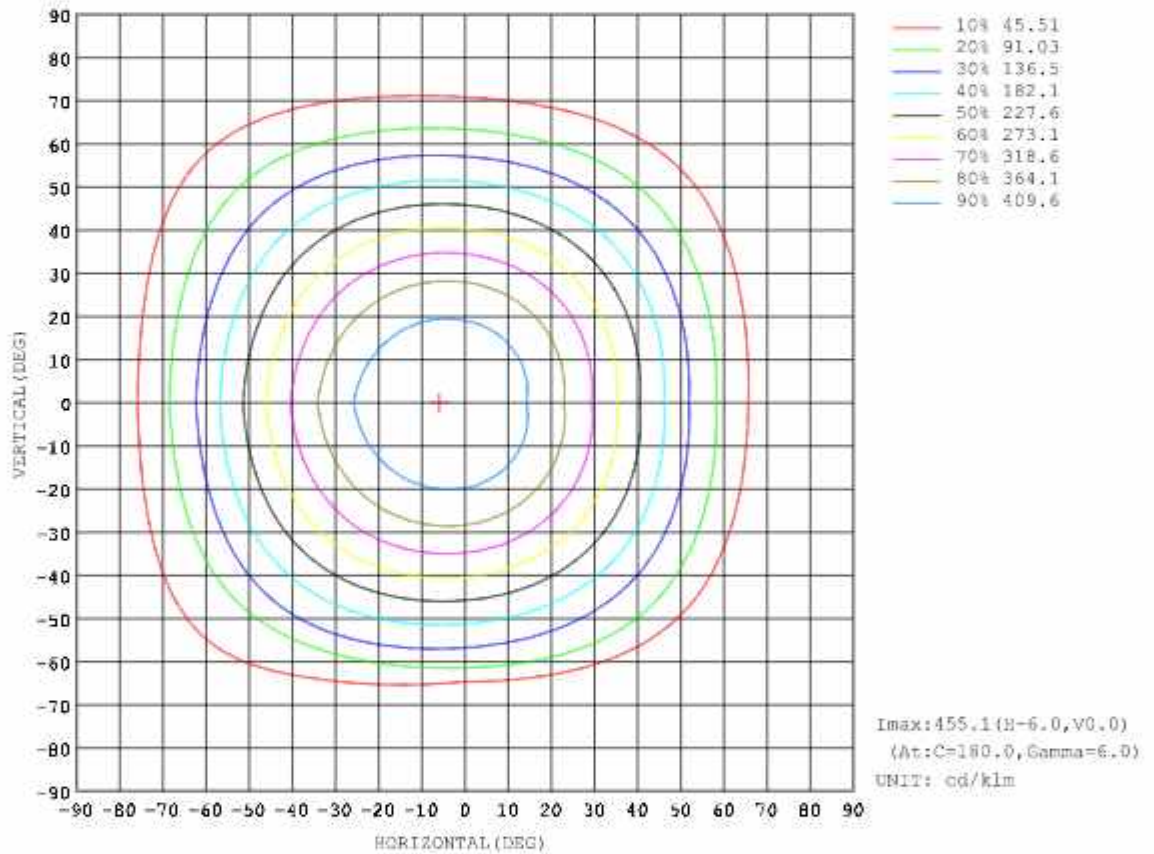
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	51	45	61	51	45	60	51	45	39
0.80	72	62	55	71	61	55	69	60	55	48
1.00	80	70	64	79	70	64	77	71	63	57
1.25	87	78	72	85	77	71	83	75	70	64
1.50	91	83	77	90	82	76	87	80	75	68
2.00	97	90	85	95	89	84	92	86	82	75
2.50	100	94	89	98	92	88	94	89	86	78
3.00	103	97	93	101	96	92	97	93	89	81
4.00	106	102	98	104	100	96	100	96	93	84
5.00	108	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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



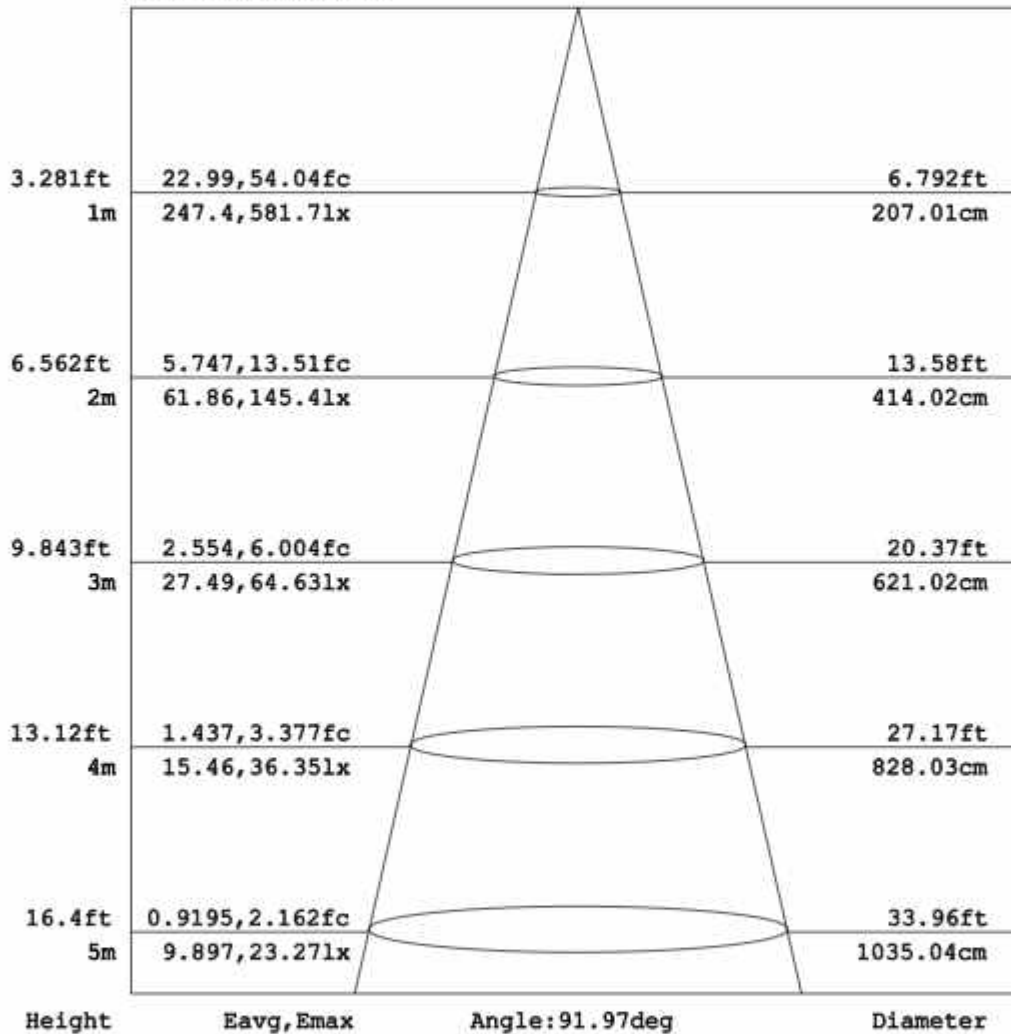
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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 Figure

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:833.5 lm



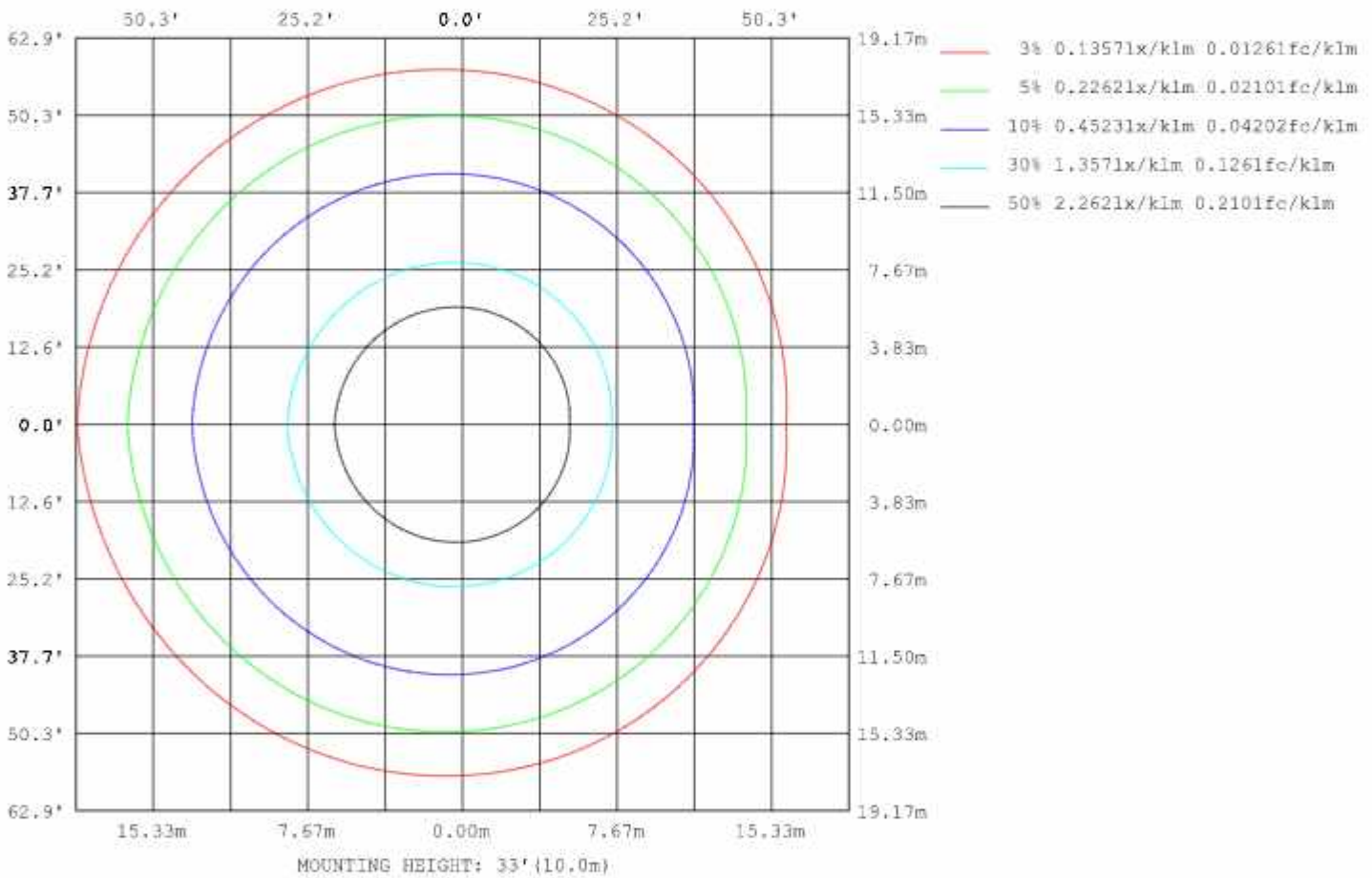
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

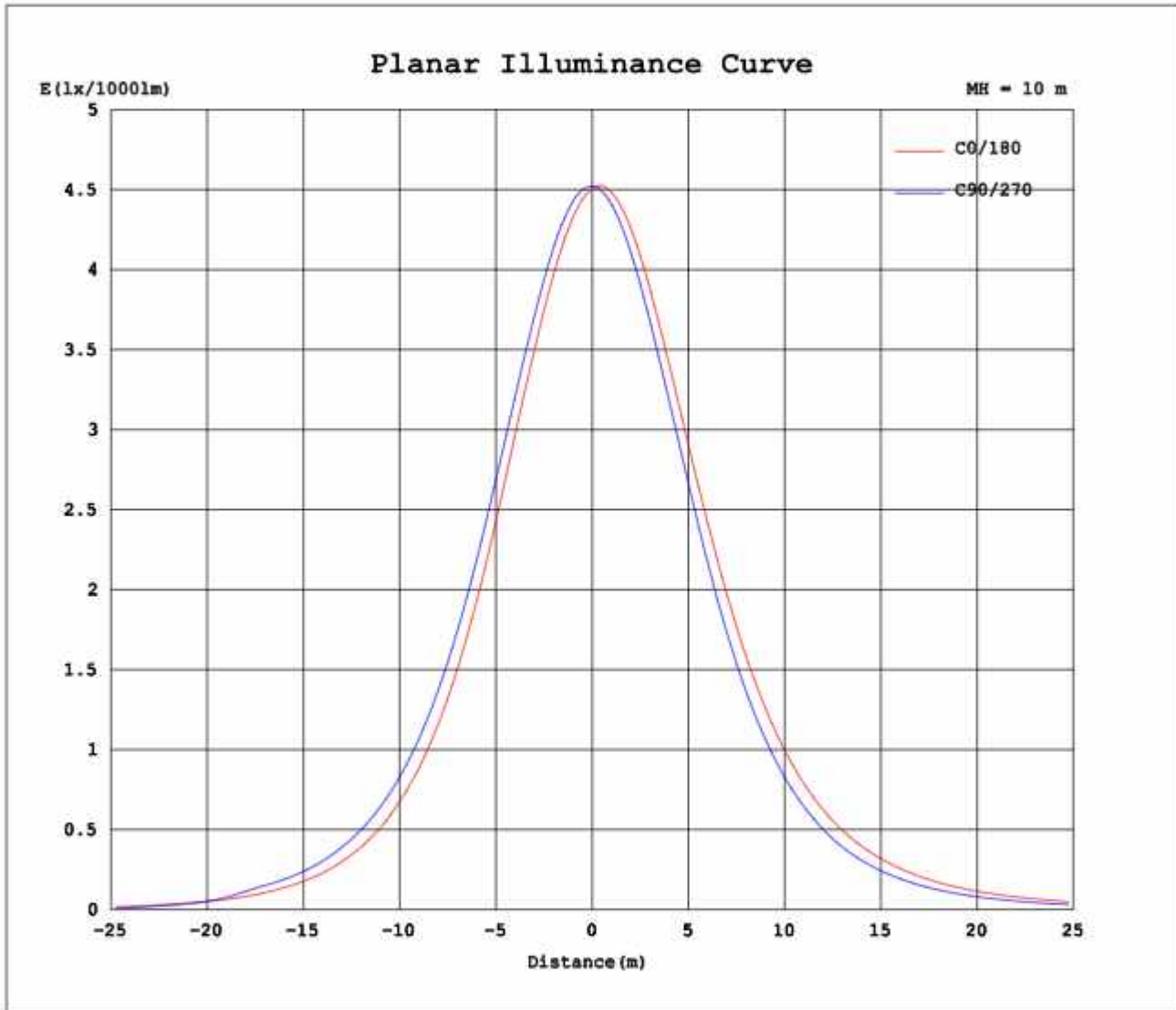
Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0940A P:11.40W PF:0.9950 Lamp Flux:1285.89x1 lm		
NAME: 4寸商照	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	451	452	451	452															
5	441	450	455	449															
10	426	442	453	439															
15	406	428	446	425															
20	381	409	432	405															
25	350	384	413	381															
30	314	354	389	351															
35	274	317	359	315															
40	232	277	322	276															
45	191	235	282	234															
50	151	192	240	193															
55	113	150	197	153															
60	78.2	112	156	115															
65	48.8	42.0	116	79.9															
70	27.1	9.52	81.1	49.7															
75	16.7	6.52	50.3	26.0															
80	8.92	10.8	27.1	7.91															
85	3.88	6.69	15.6	5.39															
90	3.86	3.85	7.46	1.50															
95	3.86	3.83	1.42	1.63															
100	3.86	3.82	1.57	1.81															
105	3.89	3.84	1.76	2.02															
110	3.93	3.88	1.95	2.24															
115	4.01	3.94	2.17	2.49															
120	4.09	4.02	2.40	2.74															
125	4.18	4.13	2.64	3.03															
130	4.28	4.25	2.89	3.30															
135	4.39	4.38	3.13	3.56															
140	4.50	4.51	3.36	3.79															
145	4.62	4.64	3.60	3.97															
150	4.74	4.77	3.84	4.21															
155	4.88	4.92	4.10	4.43															
160	5.01	5.06	4.37	4.65															
165	5.16	5.18	4.65	4.88															
170	5.26	5.28	4.90	5.07															
175	5.31	5.34	5.12	5.22															
180	5.29	5.33	5.27	5.33															

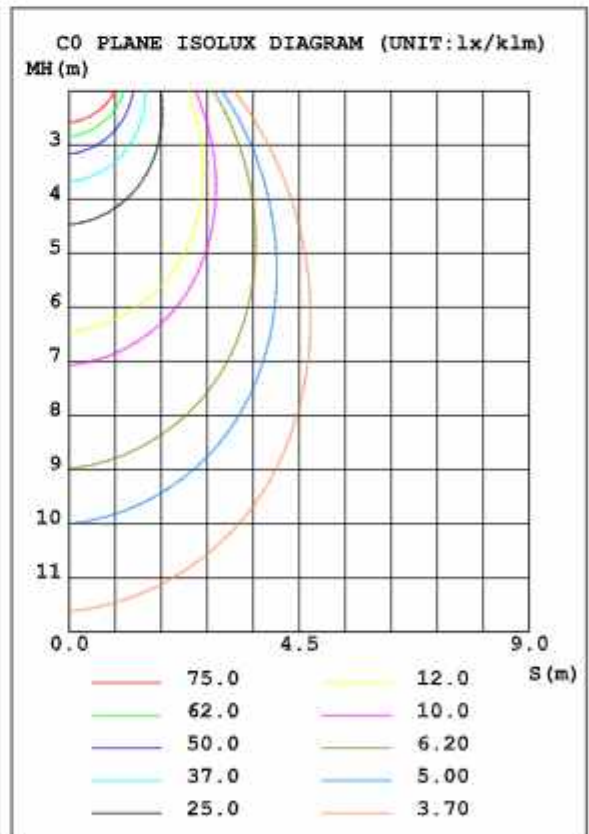
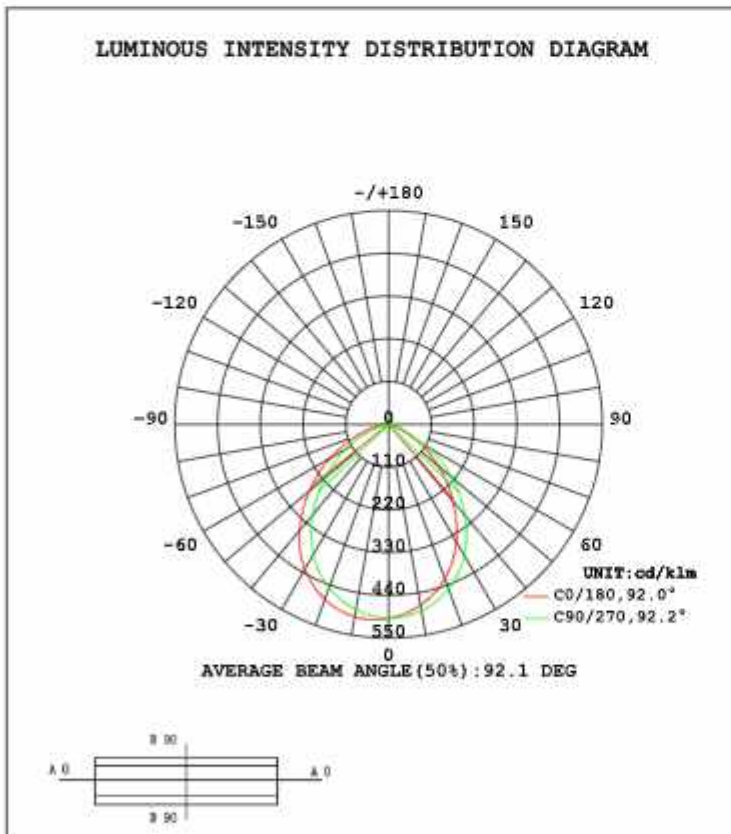
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.91 lm/W			
MODEL	12W-5000K	I _{max} (cd/klm)	504.6	S/MH (C0/180)	1.07
NOMINAL POWER (W)	12	LOR (%)	109.1	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	122	TOTAL FLUX (lm/klm)	1091.1	η UP, DN (C0-180)	1.5, 47.7
NOMINAL FLUX (lm)	1178.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.0, 58.9
LAMPS INSIDE	1	η up (%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	121.1	η down (%)	106.6	CIBSE SHR MAX	1.30



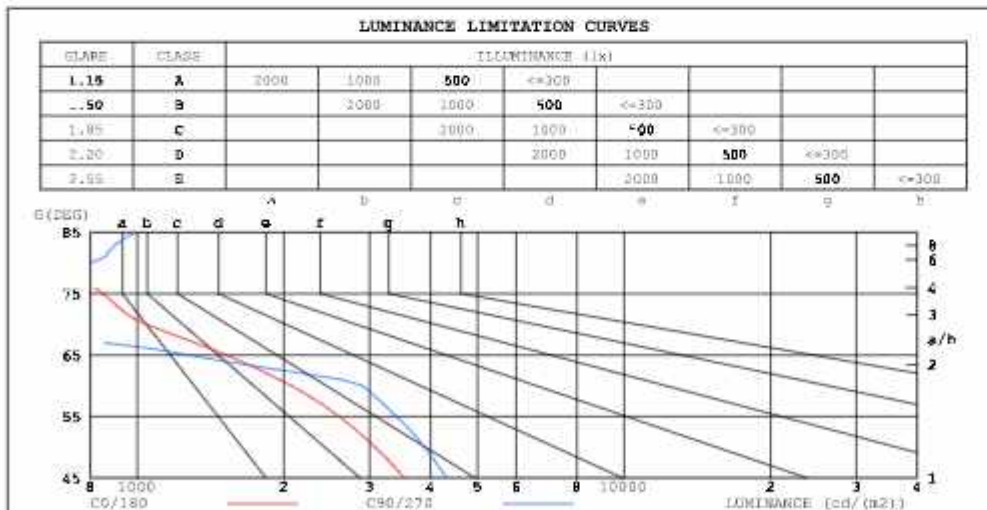
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	lum, lamp	
10	472.3	487.0	502.6	484.3				0- 10	47.04	47.04	4.31, 4.7	
20	423.1	450.6	479.2	447.2				10- 20	132.7	179.8	16.5, 18	
30	347.9	389.7	431.1	387.4				20- 30	194.3	374.1	34.3, 37.4	
40	257.9	305.5	356.9	305.2				30- 40	218.2	592.3	54.3, 59.2	
50	167.9	211.9	265.8	213.8				40- 50	200.9	793.2	72.7, 79.3	
60	87.97	123.1	173.1	127.0				50- 60	152.2	945.4	86.7, 94.5	
70	30.26	10.52	90.49	54.56				60- 70	81.08	1027	94.1, 103	
80	9.920	11.84	30.26	8.749				70- 80	30.11	1057	96.6, 106	
90	4.271	4.755	8.277	1.655				80- 90	9.864	1066	97.7, 107	
100	4.285	4.230	1.740	2.011				90-100	3.670	1070	98.1, 107	
110	4.381	4.282	2.158	2.477				100-110	3.370	1074	98.4, 107	
120	4.514	4.443	2.650	3.023				110-120	3.457	1077	98.7, 108	
130	4.728	4.689	3.188	3.648				120-130	3.459	1080	99, 108	
140	4.963	4.975	3.725	4.183				130-140	3.295	1084	99.3, 108	
150	5.229	5.269	4.254	4.635				140-150	2.916	1087	99.6, 109	
160	5.540	5.575	4.845	5.130				150-160	2.335	1089	99.8, 109	
170	5.795	5.823	5.428	5.569				160-170	1.545	1091	99.9, 109	
180	5.837	5.883	5.868	5.871				170-180	0.5485	1091	100, 109	
DEG	LUMINOUS INTENSITY:cd/klm							UNIT:lm/klm				



LUMINANCE cd / (m2)		
θ (DEG)	C0/180	C90/270
85	580	994
80	673	804
75	848	328
70	1043	363
65	1523	1277
60	2074	2902
55	2593	3399
50	3078	3886
45	3937	4316

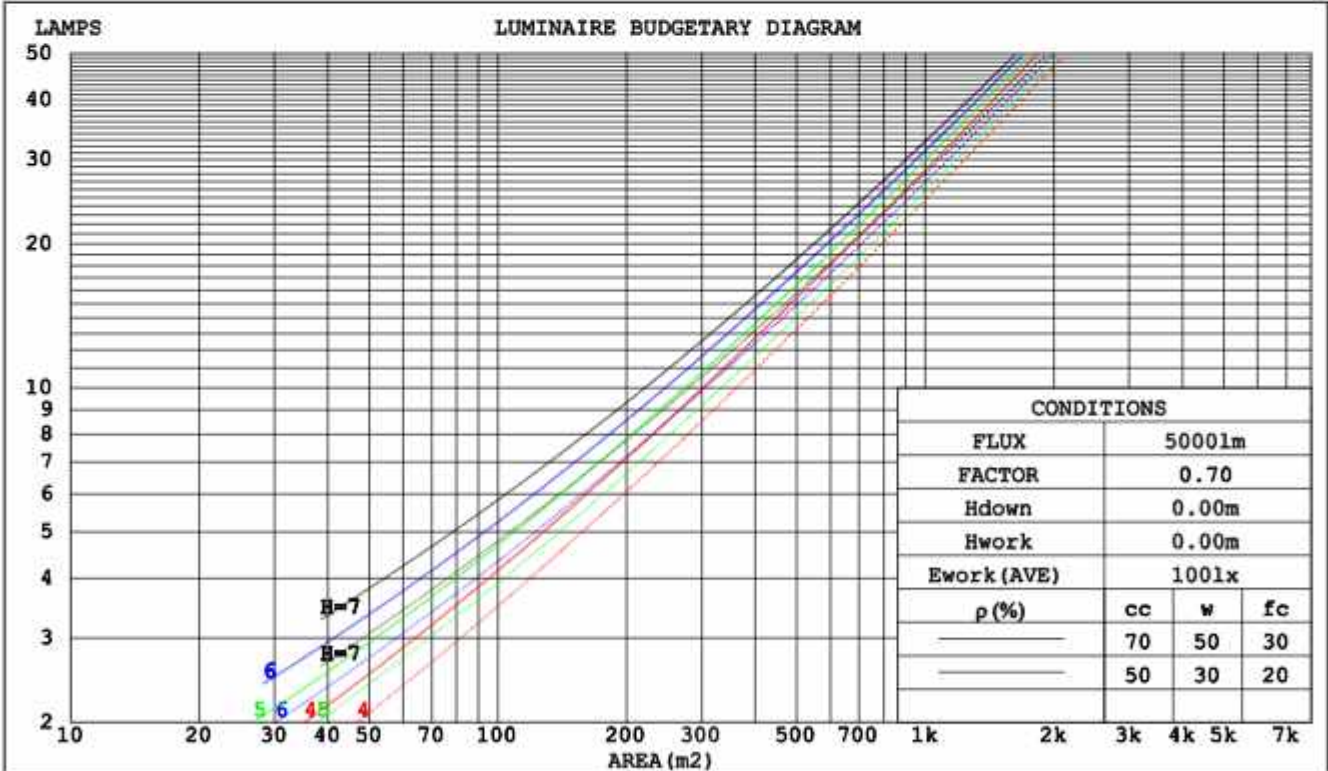
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4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	1.29	1.29	1.29	1.26	1.26	1.26	1.20	1.20	1.20	1.14	1.14	1.14	1.09	1.09	1.09	1.07
1.0	1.16	1.12	1.08	1.13	1.09	1.06	1.08	1.05	1.02	1.03	1.01	.99	.99	.97	.95	.93
2.0	1.03	.96	.91	1.00	.95	.90	.96	.91	.87	.92	.88	.85	.89	.86	.83	.80
3.0	.92	.84	.77	.90	.83	.77	.86	.80	.75	.83	.78	.73	.80	.76	.72	.70
4.0	.82	.74	.67	.81	.73	.66	.78	.71	.65	.75	.69	.64	.72	.67	.63	.61
5.0	.74	.65	.59	.73	.64	.58	.70	.63	.57	.68	.62	.57	.66	.60	.56	.54
6.0	.67	.58	.52	.66	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.50	.48
7.0	.61	.52	.46	.60	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.43
8.0	.56	.48	.42	.55	.47	.41	.54	.46	.41	.52	.46	.41	.51	.45	.40	.38
9.0	.52	.43	.38	.51	.43	.38	.50	.42	.37	.48	.42	.37	.47	.41	.37	.35
10.0	.48	.40	.34	.47	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸商照	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	.285	.162	.051	.277	.158	.050	.261	.150	.048	.247	.142	.046	.233	.135	.044	
2.0	.274	.150	.046	.267	.147	.045	.253	.141	.044	.240	.135	.042	.229	.129	.041	
3.0	.258	.138	.041	.252	.135	.041	.240	.130	.040	.229	.125	.038	.218	.121	.037	
4.0	.242	.126	.037	.237	.124	.037	.226	.120	.036	.216	.116	.035	.207	.112	.034	
5.0	.227	.116	.034	.222	.114	.033	.212	.111	.033	.204	.107	.032	.195	.104	.031	
6.0	.213	.107	.031	.208	.105	.030	.200	.102	.030	.192	.100	.029	.184	.097	.029	
7.0	.200	.099	.028	.196	.098	.028	.188	.095	.027	.181	.093	.027	.174	.091	.027	
8.0	.188	.092	.026	.185	.091	.026	.178	.089	.025	.171	.087	.025	.165	.085	.025	
9.0	.178	.086	.024	.174	.085	.024	.168	.083	.024	.162	.081	.023	.157	.079	.023	
10.0	.168	.080	.022	.165	.080	.022	.159	.078	.022	.154	.076	.022	.149	.075	.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	.227	.227	.227	.194	.194	.194	.132	.132	.132	.076	.076	.076	.024	.024	.024	
1.0	.212	.190	.170	.181	.163	.146	.124	.112	.101	.071	.065	.059	.023	.021	.019	
2.0	.201	.163	.131	.172	.140	.114	.118	.097	.079	.068	.057	.046	.022	.018	.015	
3.0	.192	.144	.105	.164	.124	.091	.113	.086	.064	.065	.050	.038	.021	.016	.012	
4.0	.183	.129	.087	.157	.111	.076	.108	.078	.053	.062	.045	.032	.020	.015	.010	
5.0	.175	.117	.074	.150	.101	.065	.104	.071	.046	.060	.042	.027	.019	.014	.009	
6.0	.168	.108	.065	.144	.093	.057	.099	.065	.040	.058	.038	.024	.019	.013	.008	
7.0	.161	.100	.058	.138	.087	.050	.096	.061	.036	.056	.036	.021	.018	.012	.007	
8.0	.154	.094	.053	.133	.081	.046	.092	.057	.033	.053	.034	.019	.017	.011	.006	
9.0	.148	.089	.048	.128	.077	.042	.088	.054	.030	.051	.032	.018	.017	.010	.006	
10.0	.142	.084	.045	.123	.073	.039	.085	.051	.028	.050	.030	.017	.016	.010	.006	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm										
NAME: 4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	14.5	15.9	14.8	16.1	16.4	15.4	16.8	15.7	17.0	17.2
3H	14.8	16.0	15.1	16.3	16.5	15.4	16.6	15.7	16.9	17.2
4H	14.8	16.0	15.1	16.3	16.5	15.3	16.5	15.6	16.8	17.0
6H	14.8	15.9	15.2	16.2	16.5	15.3	16.4	15.6	16.7	17.0
8H	14.8	15.8	15.2	16.2	16.5	15.3	16.3	15.6	16.6	17.0
12H	14.8	15.8	15.1	16.1	16.4	15.3	16.3	15.7	16.6	17.0
4H 2H	14.7	15.9	15.1	16.2	16.5	15.5	16.7	15.8	16.9	17.2
3H	15.0	16.0	15.4	16.3	16.7	15.5	16.5	15.8	16.8	17.2
4H	15.1	16.0	15.5	16.3	16.7	15.4	16.3	15.8	16.7	17.1
6H	15.1	15.9	15.6	16.3	16.7	15.4	16.2	15.9	16.6	17.0
8H	15.1	15.9	15.6	16.3	16.7	15.5	16.2	15.9	16.6	17.1
12H	15.1	15.8	15.6	16.2	16.7	15.5	16.2	16.0	16.6	17.1
8H 4H	15.0	15.7	15.4	16.1	16.6	15.3	16.1	15.8	16.5	16.9
6H	15.1	15.7	15.6	16.2	16.6	15.4	16.0	15.9	16.5	16.9
8H	15.2	15.7	15.7	16.2	16.7	15.5	16.1	16.0	16.5	17.0
12H	15.2	15.6	15.7	16.1	16.7	15.6	16.1	16.1	16.6	17.1
12H 4H	15.0	15.6	15.4	16.1	16.5	15.3	16.0	15.8	16.4	16.8
6H	15.1	15.6	15.6	16.1	16.6	15.4	15.9	15.9	16.4	16.9
8H	15.2	15.6	15.7	16.1	16.6	15.5	16.0	16.0	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.6 / - 0.8				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 1.0				
2.0H	+ 1.0 / - 1.8					+ 1.2 / - 2.7				

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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸筒照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

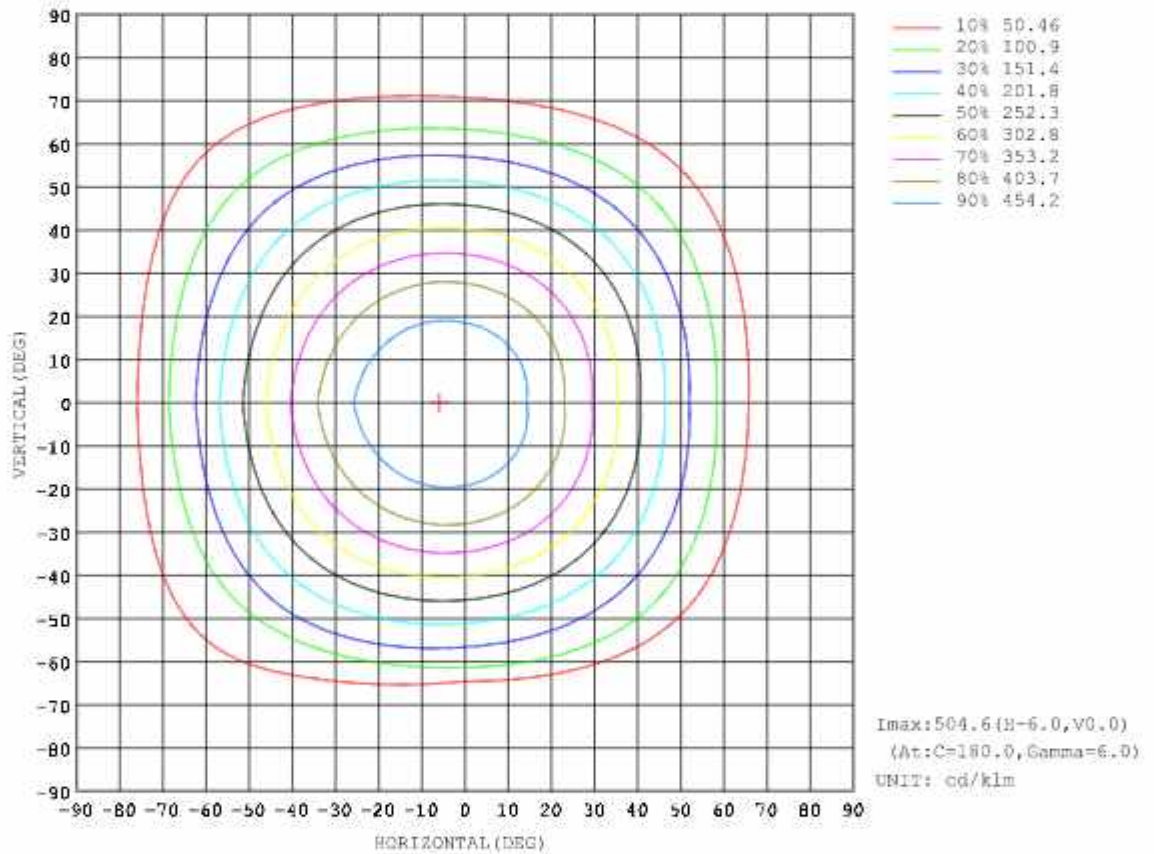
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	57	50	68	57	50	66	56	50	43
0.80	80	68	61	78	68	61	76	67	60	53
1.00	89	78	71	87	77	71	85	78	70	63
1.25	96	86	79	94	85	79	91	83	78	70
1.50	101	92	85	99	91	85	96	89	83	76
2.00	107	100	94	105	98	93	102	96	91	83
2.50	111	104	98	109	102	97	104	99	95	86
3.00	114	108	103	112	106	101	107	103	99	90
4.00	118	112	108	115	110	106	110	106	103	93
5.00	120	115	112	117	113	110	112	109	106	96
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:
 Test Date:2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



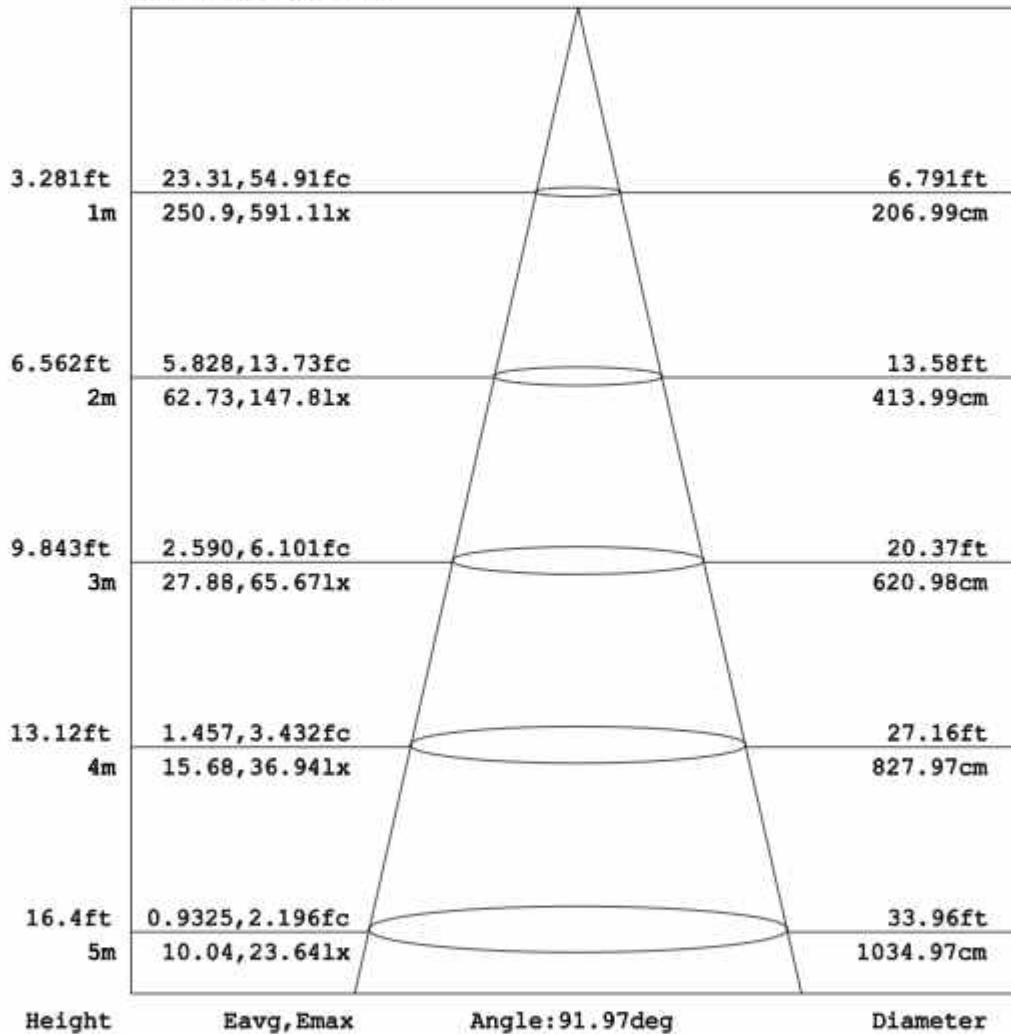
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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 Figure

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸商照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:

Flux out:845.4 lm



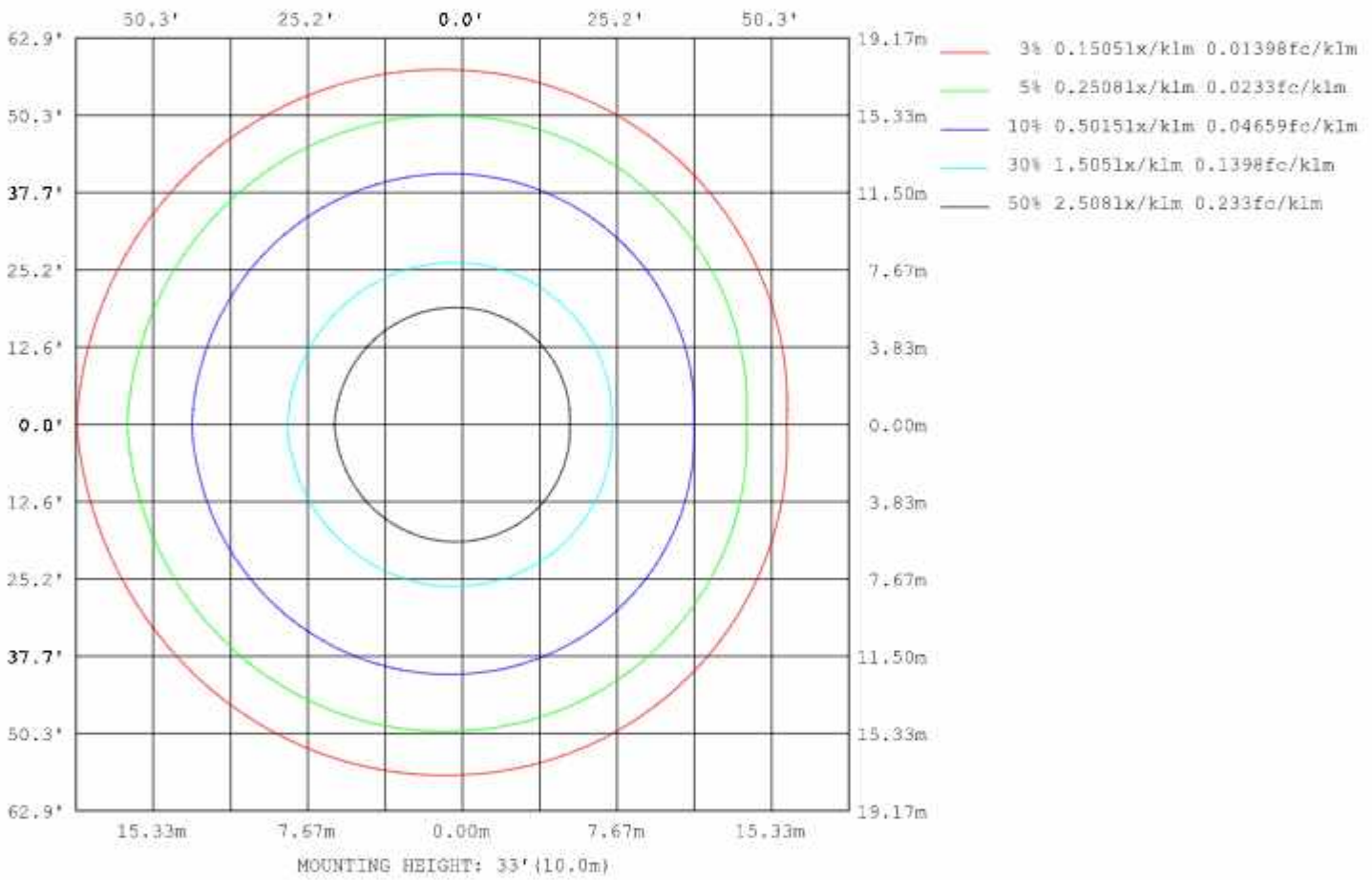
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-11

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

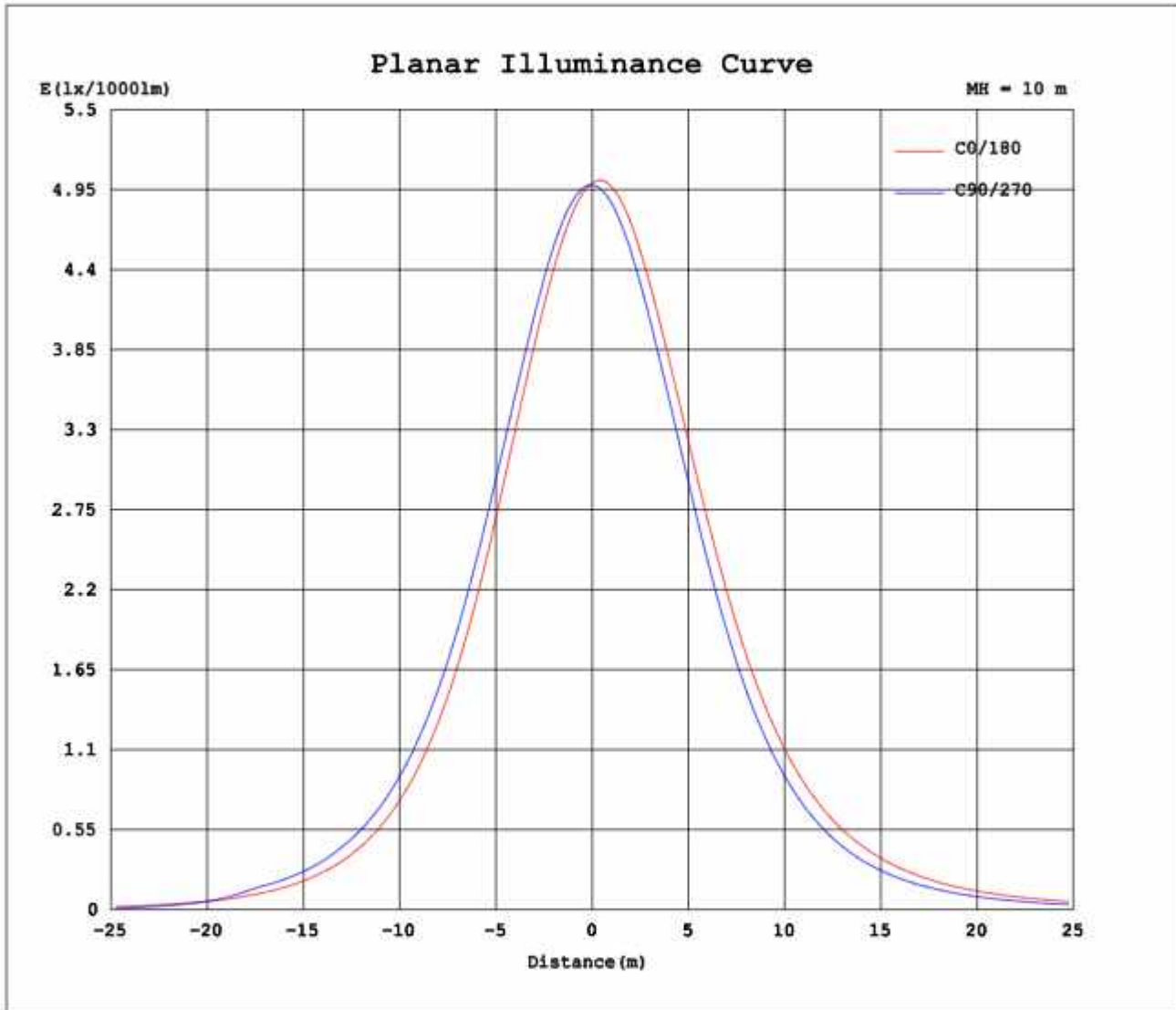
Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸高照	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: HXD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2023-07-11

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:
Test Date: 2023-07-11

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

Test:U:121.1V I:0.0970A P:11.70W PF:0.9950 Lamp Flux:1178.6x1 lm		
NAME: 4寸商照	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	500	498	500	498															
5	489	496	504	494															
10	472	487	503	484															
15	451	472	494	468															
20	423	451	479	447															
25	388	424	458	420															
30	348	390	431	387															
35	304	350	397	348															
40	258	306	357	305															
45	212	259	312	260															
50	168	212	266	214															
55	126	165	219	169															
60	88.0	123	173	127															
65	54.6	45.8	130	88.2															
70	30.3	10.3	90.5	54.6															
75	18.6	7.21	56.2	28.7															
80	9.92	11.8	30.3	8.75															
85	4.29	7.35	17.4	6.00															
90	4.27	4.76	8.28	1.65															
95	4.27	4.24	1.56	1.80															
100	4.28	4.23	1.74	2.01															
105	4.31	4.24	1.94	2.24															
110	4.38	4.28	2.16	2.48															
115	4.42	4.34	2.40	2.75															
120	4.51	4.44	2.65	3.02															
125	4.62	4.56	2.92	3.34															
130	4.73	4.69	3.19	3.65															
135	4.83	4.83	3.46	3.93															
140	4.96	4.97	3.73	4.18															
145	5.09	5.12	3.99	4.38															
150	5.23	5.27	4.25	4.64															
155	5.38	5.43	4.54	4.88															
160	5.54	5.57	4.85	5.13															
165	5.68	5.71	5.15	5.36															
170	5.79	5.82	5.43	5.57															
175	5.88	5.89	5.67	5.74															
180	5.84	5.88	5.87	5.87															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-07-11

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: