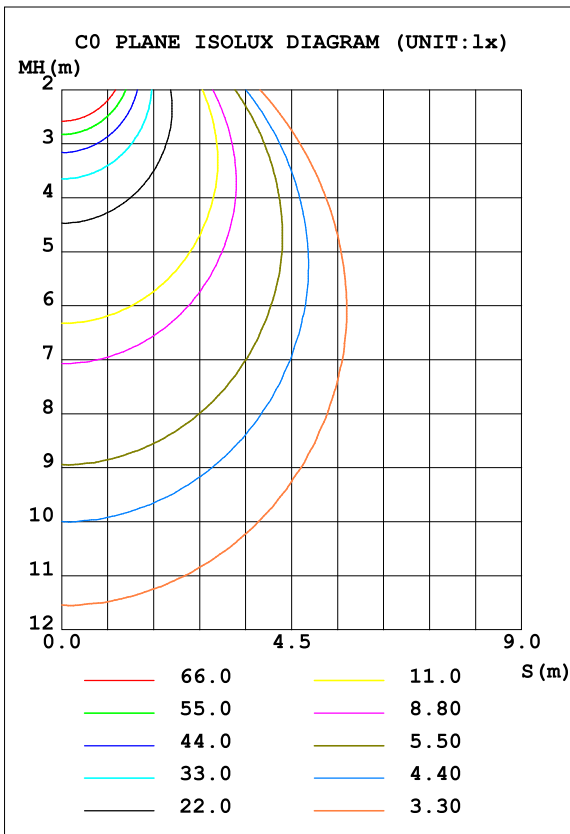
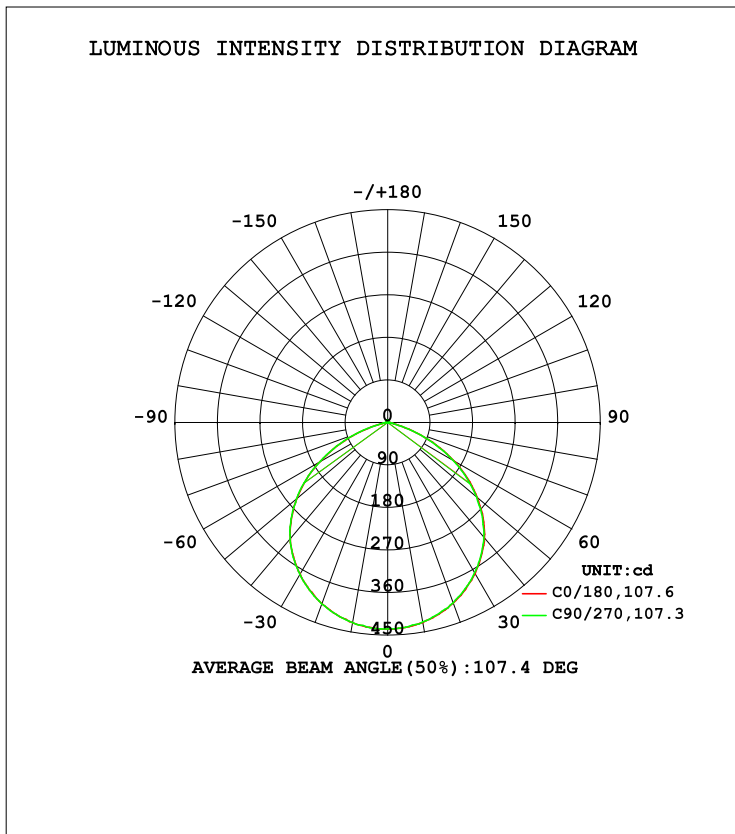


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.61 lm/W			
MODEL		I _{max} (cd)	437.4	S/MH (C0/180)	1.26
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1146.4	η UP, DN (C0-180)	0.9, 48.8
NOMINAL FLUX (lm)	1146.43	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 49.4
LAMPS INSIDE	1	η up (%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.0	η down (%)	98.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.074m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

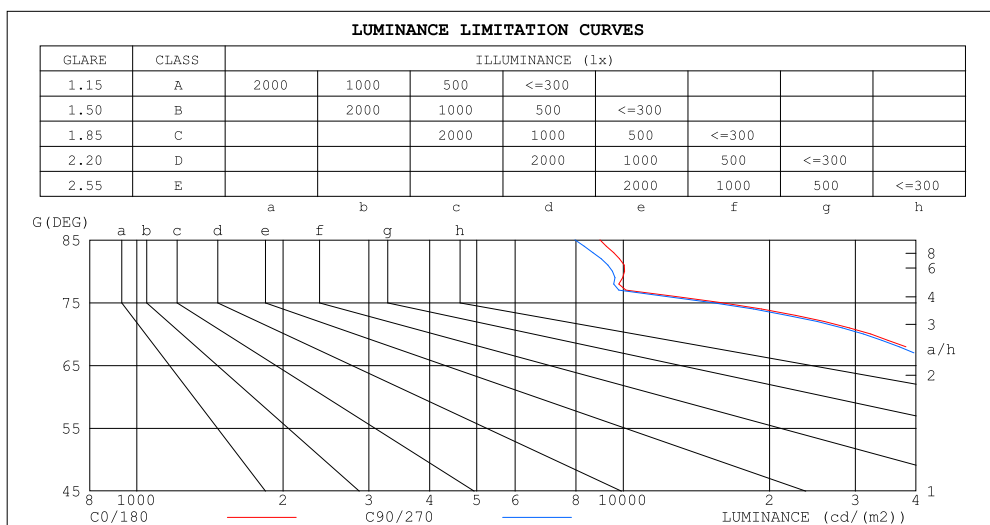
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	429.5	428.0	428.2	428.8	429.6	429.6	429.6	428.2	0- 10	41.31	41.31	3.6,3.6
20	406.6	404.6	405.6	405.8	407.9	407.4	408.6	404.6	10- 20	118.4	159.7	13.9,13.9
30	369.8	367.6	367.8	370.4	370.5	370.7	371.7	367.5	20- 30	179.6	339.2	29.6,29.6
40	318.2	317.2	316.4	320.3	320.9	321.1	321.6	316.9	30- 40	216.3	555.6	48.5,48.5
50	247.6	253.5	245.8	258.7	251.1	259.3	252.2	254.4	40- 50	221.7	777.2	67.8,67.8
60	161.4	167.1	159.3	173.3	165.1	176.4	164.8	169.2	50- 60	189.0	966.2	84.3,84.3
70	65.78	72.54	64.20	79.68	71.17	82.29	72.67	74.32	60- 70	118.5	1085	94.6,94.6
80	10.41	10.22	9.949	11.57	9.661	11.35	10.19	9.642	70- 80	36.09	1121	97.8,97.8
90	2.314	2.372	2.343	2.372	1.315	1.457	1.343	1.380	80- 90	5.675	1127	98.3,98.3
100	2.620	2.683	2.686	2.674	1.777	1.807	1.794	1.833	90-100	2.215	1129	98.5,98.5
110	2.959	2.996	3.097	3.034	2.317	2.327	2.399	2.368	100-110	2.597	1131	98.7,98.7
120	3.244	3.293	3.469	3.331	2.840	2.772	2.999	2.879	110-120	2.875	1134	98.9,98.9
130	3.478	3.516	3.626	3.570	3.319	3.256	3.525	3.370	120-130	2.940	1137	99.2,99.2
140	3.742	3.796	3.818	3.852	3.787	3.732	3.833	3.838	130-140	2.806	1140	99.4,99.4
150	4.132	4.193	4.426	4.264	4.274	4.213	4.379	4.343	140-150	2.538	1142	99.7,99.7
160	4.633	4.675	4.674	4.645	4.781	4.708	4.768	4.735	150-160	2.071	1145	99.8,99.8
170	5.067	5.075	5.071	5.065	5.193	5.069	5.167	5.090	160-170	1.386	1146	100,100
180	5.301	5.262	5.291	5.265	5.335	5.245	5.311	5.254	170-180	0.4947	1146	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8954	7961
80	10066	9510
75	15881	15234
70	32284	31156
65	45350	44206
60	54182	52898
55	60261	58952
50	64655	63464
45	67753	66517

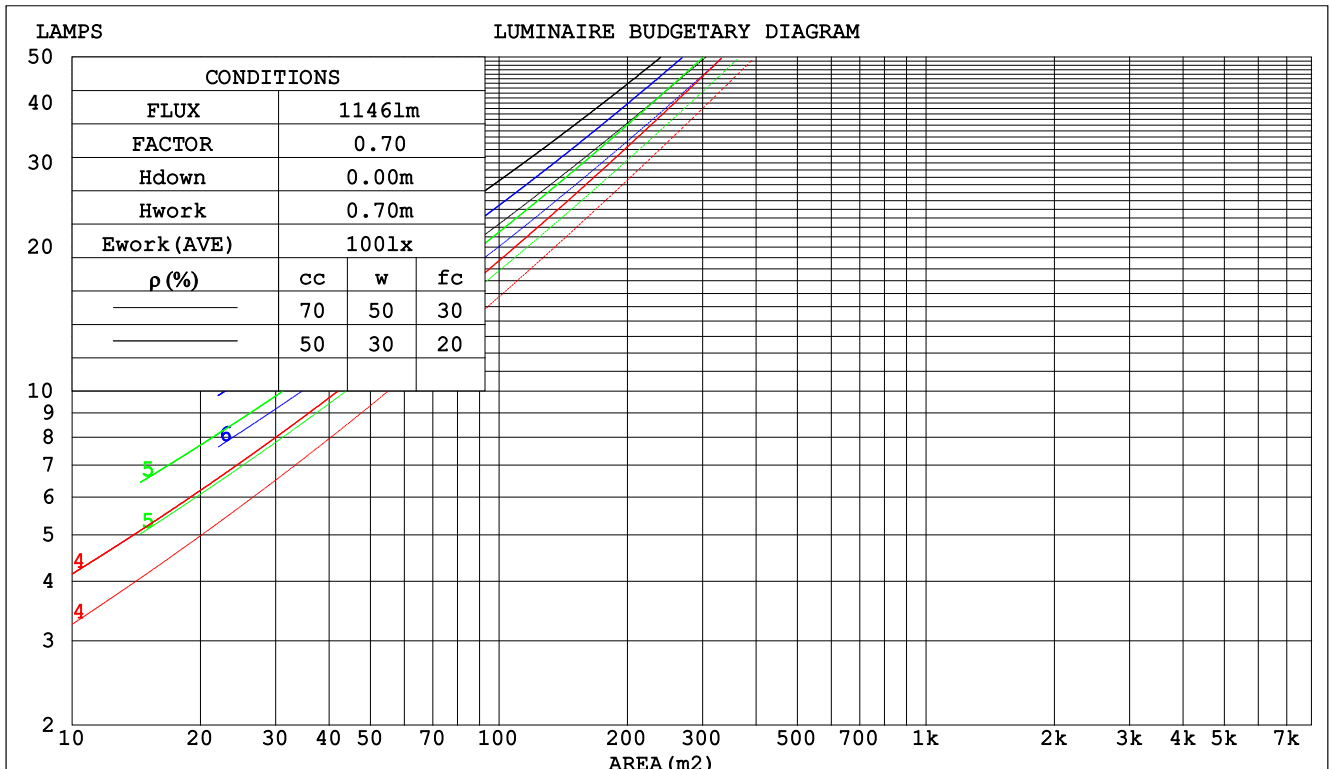
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding 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															



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm					
NAME: 6 inch square retrofit kit			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.:0.08		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.271	.154	.049	.264	.151	.048	.250	.143	.046	.237	.137	.044	.225	.130	.042		
2.0	.264	.145	.044	.257	.142	.044	.245	.136	.042	.233	.131	.041	.223	.126	.040		
3.0	.249	.133	.040	.243	.130	.039	.232	.126	.038	.222	.122	.037	.213	.118	.036		
4.0	.233	.121	.036	.228	.119	.035	.219	.116	.035	.209	.113	.034	.201	.109	.033		
5.0	.218	.111	.032	.214	.110	.032	.205	.107	.031	.197	.104	.031	.189	.101	.030		
6.0	.204	.102	.029	.200	.101	.029	.192	.098	.029	.185	.096	.028	.178	.094	.028		
7.0	.191	.094	.027	.187	.093	.027	.180	.091	.026	.174	.089	.026	.168	.087	.026		
8.0	.179	.088	.025	.176	.087	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024		
9.0	.169	.082	.023	.166	.081	.023	.160	.079	.022	.155	.078	.022	.150	.076	.022		
10.0	.159	.076	.021	.156	.076	.021	.151	.074	.021	.146	.073	.021	.142	.071	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.191	.170	.151	.163	.146	.130	.112	.100	.090	.064	.058	.052	.021	.019	.017	
2.0	.182	.145	.115	.156	.125	.099	.107	.087	.069	.062	.050	.041	.020	.016	.013	
3.0	.174	.128	.091	.149	.110	.079	.102	.077	.055	.059	.045	.033	.019	.015	.011	
4.0	.167	.114	.074	.143	.099	.064	.098	.069	.045	.057	.040	.027	.018	.013	.009	
5.0	.159	.104	.063	.137	.090	.054	.094	.063	.038	.055	.037	.023	.018	.012	.008	
6.0	.153	.095	.054	.131	.083	.047	.091	.058	.033	.053	.034	.020	.017	.011	.007	
7.0	.146	.088	.048	.126	.077	.042	.087	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.140	.083	.043	.121	.072	.038	.083	.050	.027	.049	.030	.016	.016	.010	.005	
9.0	.134	.078	.040	.116	.067	.035	.080	.047	.025	.047	.028	.015	.015	.009	.005	
10.0	.129	.074	.037	.111	.064	.032	.077	.045	.023	.045	.027	.014	.015	.009	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm											
NAME: 6 inch square retrofit kit					TYPE:			WEIGHT:			
SPEC.:5000K					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:0.08			Shielding 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	26.5	28.0	26.8	28.2	28.4	26.4	27.9	26.7	28.1	28.3	
	27.3	28.6	27.6	28.9	29.1	27.2	28.5	27.5	28.8	29.0	
	27.3	28.6	27.7	28.9	29.1	27.2	28.5	27.6	28.7	29.0	
	27.3	28.4	27.6	28.7	29.0	27.2	28.3	27.5	28.6	28.9	
	27.2	28.4	27.6	28.7	29.0	27.1	28.2	27.5	28.6	28.9	
	27.2	28.3	27.6	28.6	28.9	27.1	28.2	27.5	28.5	28.8	
4H	2H	27.0	28.2	27.3	28.5	28.8	26.9	28.1	27.2	28.4	28.7
	3H	27.8	28.9	28.2	29.2	29.5	27.7	28.8	28.1	29.1	29.4
	4H	27.9	28.9	28.3	29.2	29.6	27.8	28.8	28.2	29.1	29.5
	6H	27.9	28.7	28.3	29.1	29.5	27.8	28.6	28.2	29.0	29.4
	8H	27.8	28.6	28.3	29.0	29.4	27.7	28.5	28.2	28.9	29.3
	12H	27.8	28.5	28.3	28.9	29.4	27.7	28.4	28.2	28.8	29.3
8H	4H	27.9	28.7	28.3	29.1	29.5	27.8	28.6	28.2	29.0	29.4
	6H	27.9	28.5	28.3	28.9	29.4	27.8	28.4	28.2	28.9	29.3
	8H	27.9	28.4	28.3	28.9	29.4	27.8	28.3	28.2	28.8	29.3
	12H	27.8	28.3	28.4	28.8	29.3	27.8	28.2	28.3	28.7	29.2
12H	4H	27.8	28.6	28.3	29.0	29.4	27.7	28.5	28.2	28.9	29.3
	6H	27.8	28.4	28.3	28.9	29.3	27.7	28.3	28.2	28.8	29.2
	8H	27.8	28.3	28.3	28.8	29.3	27.7	28.2	28.2	28.7	29.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5					
1.5H	+ 0.3 / - 0.6					+ 0.4 / - 0.6					
2.0H	+ 0.6 / - 0.5					+ 0.6 / - 0.6					

CIE Pub.117, 1146 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.5)
Area: 0.006 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:

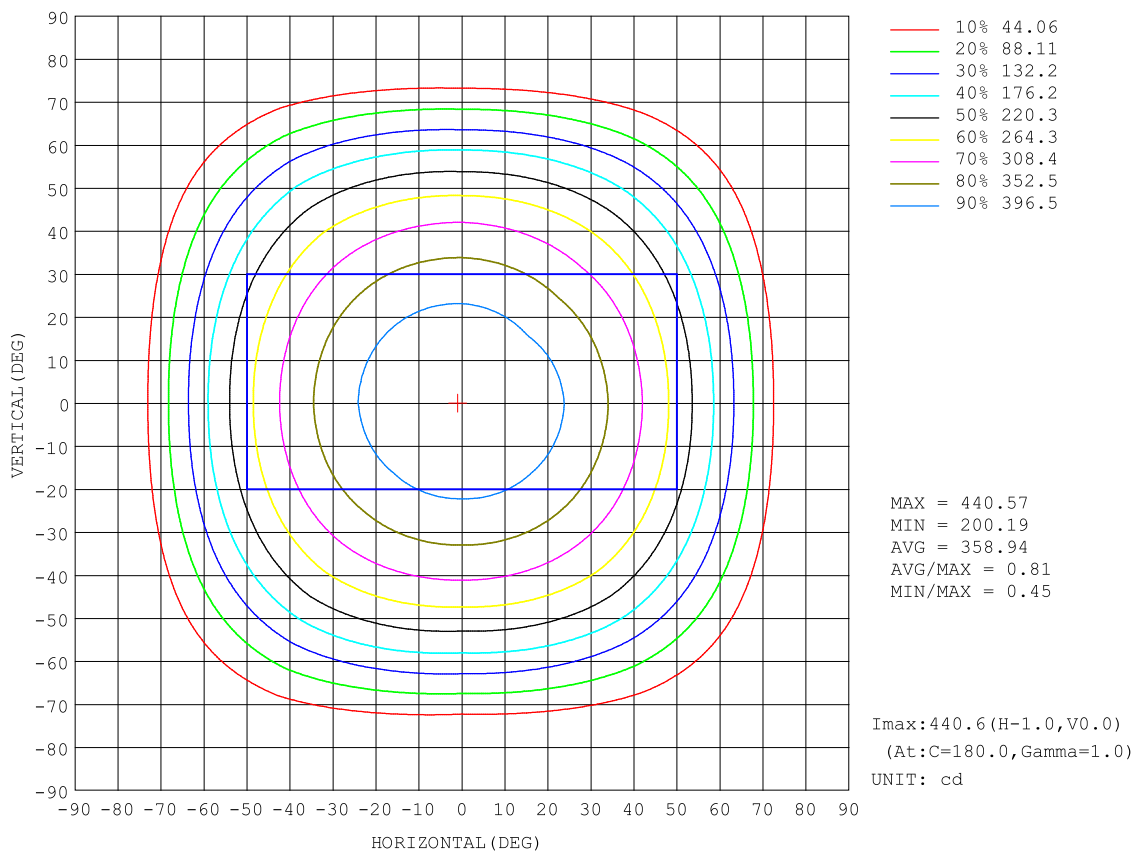
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	48	41	57	47	41	35
0.80	70	59	52	69	58	51	67	57	51	44
1.00	78	68	61	77	67	61	75	68	60	53
1.25	86	76	69	84	75	69	81	74	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	73
2.50	101	94	88	99	92	87	95	89	85	77
3.00	104	98	93	102	96	92	97	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	110	105	102	107	103	100	102	99	97	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

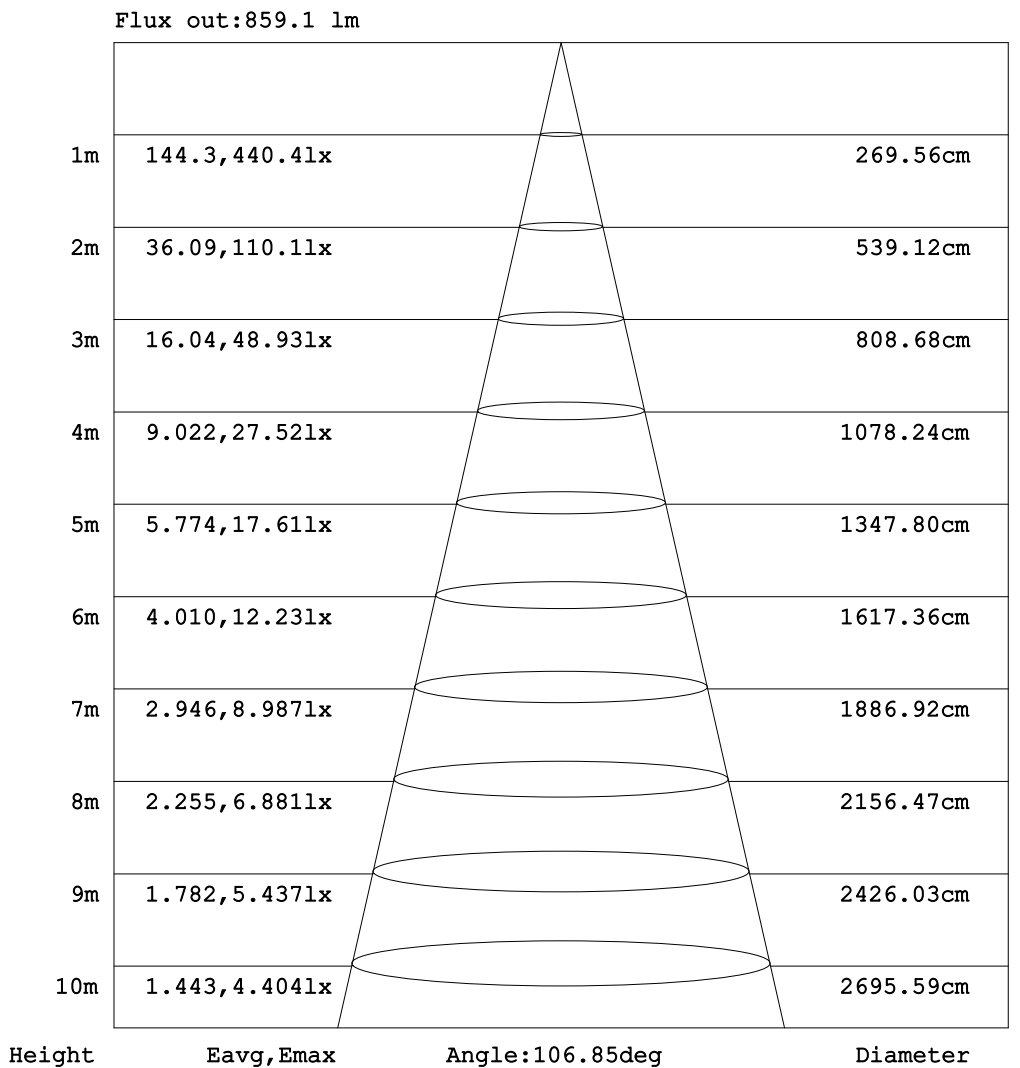
ISOCANDELA DIAGRAM

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



AAI Figure

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



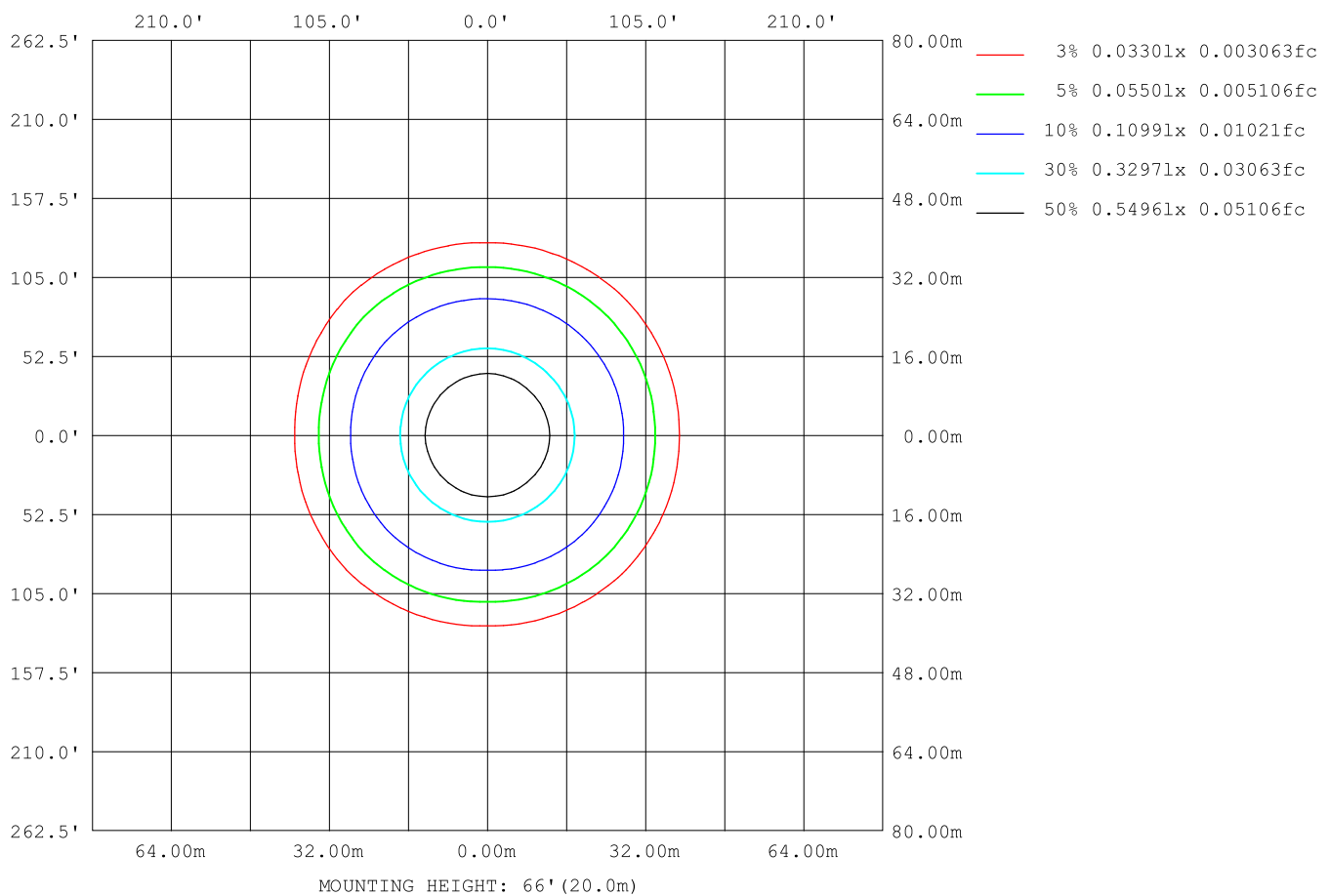
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:

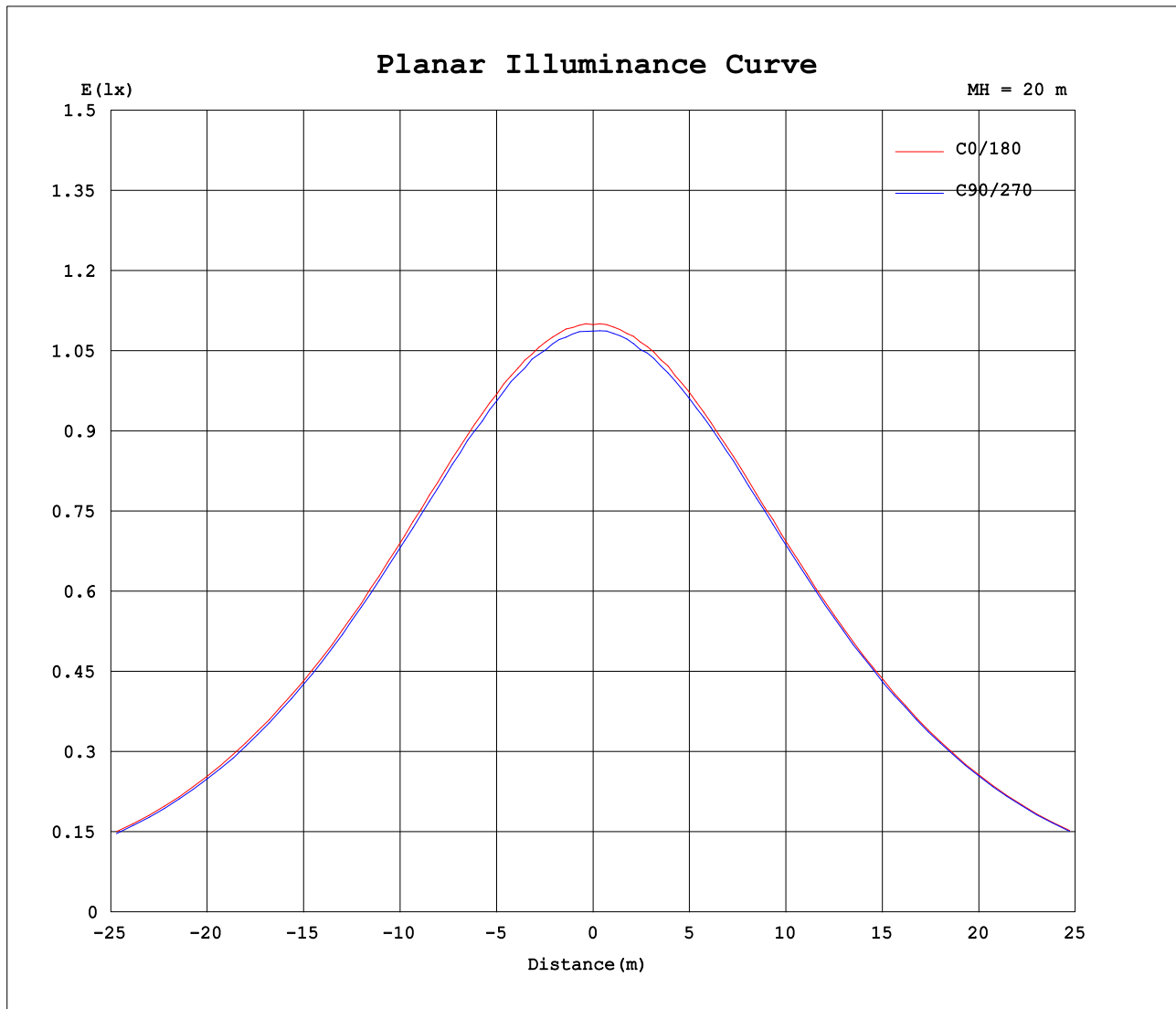
AvgL	cd/m2
L_0~180 (65) av	45786
L_0~180 (75) av	17016
L_0~180 (85) av	8083
L_90~270 (65) av	45758
L_90~270 (75) av	17303
L_90~270 (85) av	8629
L_45 (65) av	48979
L_45 (75) av	22295
L_45 (85) av	9847

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.074m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1220A P:14.400W PF:0.9840 Freq:60.00Hz Lamp Flux:1146.43x1 lm		
NAME: 6 inch square retrofit kit	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	437	437	437	437	437	437	437	437										
5	435	433	435	434	435	435	436	433										
10	430	428	428	429	430	430	430	428										
15	420	418	419	419	420	420	420	419										
20	407	405	406	406	408	407	409	405										
25	390	387	388	390	392	391	391	388										
30	370	368	368	370	371	371	372	368										
35	346	343	344	347	347	347	349	344										
40	318	317	316	320	321	321	322	317										
45	285	287	283	291	289	292	289	287										
50	248	254	246	259	251	259	252	254										
55	206	213	204	219	210	220	211	214										
60	161	167	159	173	165	176	165	169										
65	114	119	113	126	118	130	120	122										
70	65.8	72.5	64.2	79.7	71.2	82.3	72.7	74.3										
75	24.5	30.9	23.8	36.7	28.4	38.6	30.0	32.2										
80	10.4	10.2	9.95	11.6	9.66	11.3	10.2	9.64										
85	4.65	5.06	4.18	5.81	3.80	5.22	4.84	4.50										
90	2.31	2.37	2.34	2.37	1.31	1.46	1.34	1.38										
95	2.45	2.53	2.50	2.51	1.53	1.55	1.56	1.58										
100	2.62	2.68	2.69	2.67	1.78	1.81	1.79	1.83										
105	2.78	2.83	2.87	2.87	2.04	2.07	2.08	2.10										
110	2.96	3.00	3.10	3.03	2.32	2.33	2.40	2.37										
115	3.11	3.14	3.30	3.19	2.58	2.55	2.71	2.62										
120	3.24	3.29	3.47	3.33	2.84	2.77	3.00	2.88										
125	3.36	3.42	3.50	3.45	3.09	3.02	3.22	3.12										
130	3.48	3.52	3.63	3.57	3.32	3.26	3.53	3.37										
135	3.59	3.64	3.76	3.71	3.55	3.48	3.71	3.60										
140	3.74	3.80	3.82	3.85	3.79	3.73	3.83	3.84										
145	3.93	3.98	4.24	4.05	4.02	3.96	4.20	4.09										
150	4.13	4.19	4.43	4.26	4.27	4.21	4.38	4.34										
155	4.38	4.44	4.43	4.49	4.54	4.48	4.55	4.58										
160	4.63	4.67	4.67	4.65	4.78	4.71	4.77	4.73										
165	4.86	4.88	4.89	4.88	5.00	4.91	4.98	4.94										
170	5.07	5.07	5.07	5.06	5.19	5.07	5.17	5.09										
175	5.21	5.20	5.21	5.20	5.30	5.19	5.28	5.21										
180	5.30	5.26	5.29	5.27	5.33	5.25	5.31	5.25										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks: