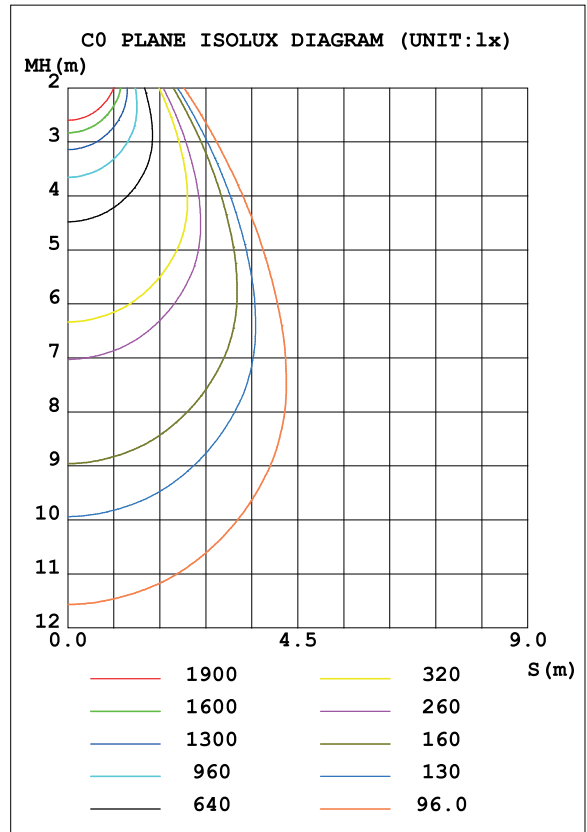
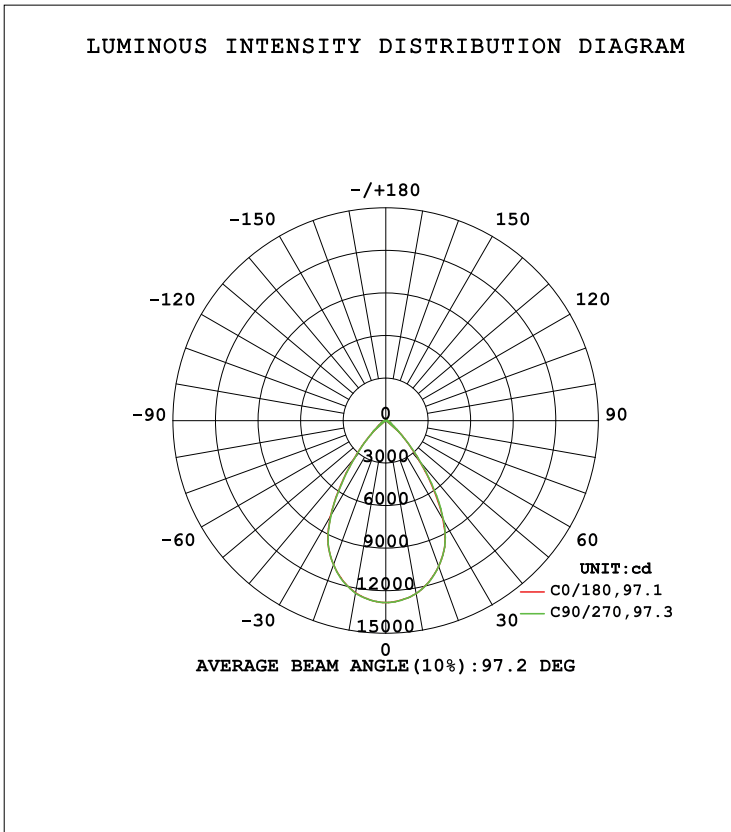


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.93 lm/W			
MODEL	kingbrite	I _{max} (cd)	12834	S/MH(C0/180)	0.98
NOMINAL POWER(W)	108W	LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	15287	η UP, DN(C0-180)	0.3, 50.7
NOMINAL FLUX(lm)	15286.9	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 48.6
LAMPS INSIDE	1	η up(%)	0.7	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	99.3	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LYH
 Test Date: 2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity: 65.0%
 Test Distance: 8.360m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	1237	1238	1233	1235				0- 10	1201	1201	7.86,7.86
20	1093	1094	1080	1081				10- 20	3292	4494	29.4,29.4
30	809.5	816.8	781.0	774.6				20- 30	4409	8902	58.2,58.2
40	371.4	381.1	345.8	340.1				30- 40	3544	12446	81.4,81.4
50	113.3	115.5	103.1	103.5				40- 50	1626	14072	92.1,92.1
60	43.45	44.05	41.31	40.97				50- 60	598.4	14670	96,96
70	22.32	22.67	21.21	21.00				60- 70	307.2	14978	98,98
80	8.657	8.983	7.920	7.455				70- 80	154.5	15132	99,99
90	0.8829	1.139	0.2985	0.2902				80- 90	43.50	15176	99.3,99.3
100	0.1941	0.2095	0.2475	0.2495				90-100	2.599	15178	99.3,99.3
110	0.3901	0.4027	0.5379	0.5557				100-110	3.419	15182	99.3,99.3
120	0.9216	0.9265	1.220	1.224				110-120	7.296	15189	99.4,99.4
130	1.848	1.808	2.264	2.194				120-130	13.63	15203	99.4,99.4
140	2.900	2.860	3.386	3.249				130-140	19.75	15222	99.6,99.6
150	3.816	3.860	4.328	4.209				140-150	22.43	15245	99.7,99.7
160	4.746	4.804	5.253	5.115				150-160	20.73	15265	99.9,99.9
170	5.916	5.798	6.287	6.031				160-170	15.43	15281	100,100
180	6.668	6.415	6.668	6.419				170-180	5.971	15287	100,100
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm		

110 - 180 DEG Zonal Flux:105.23 %lum: 0.7%

135 - 180 DEG Zonal Flux:75.04 %lum: 0.5%

All measured values may vary less than 35 %

from the average measured value in the 0 to 130 deg. zone: 5.0%

All measured values in the 0 to 130 deg. zone

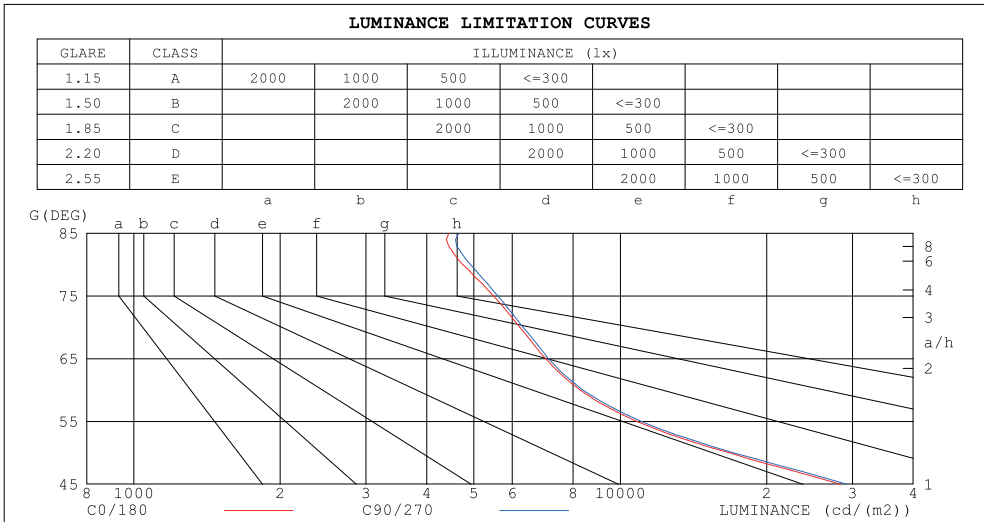
may vary less than 50% from the average value of itself: 7.6%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.360m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4443	4659
80	4749	4926
75	5495	5605
70	6217	6311
65	7026	7121
60	8278	8387
55	10827	11062
50	16792	17104
45	28372	29209

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.360m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.204	.116	.037	.197	.112	.036	.183	.105	.034	.171	.099	.032	.160	.093	.030	
2.0	.196	.107	.033	.190	.104	.032	.178	.099	.031	.168	.094	.029	.158	.090	.028	
3.0	.186	.099	.030	.181	.097	.029	.171	.093	.028	.162	.089	.027	.154	.085	.026	
4.0	.176	.092	.027	.172	.090	.027	.163	.087	.026	.156	.084	.025	.148	.081	.025	
5.0	.167	.085	.025	.163	.084	.024	.156	.081	.024	.149	.079	.023	.143	.076	.023	
6.0	.159	.080	.023	.155	.079	.023	.149	.076	.022	.143	.074	.022	.137	.072	.021	
7.0	.151	.075	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020	.131	.068	.020	
8.0	.144	.070	.020	.141	.070	.020	.136	.068	.019	.131	.066	.019	.126	.065	.019	
9.0	.137	.066	.019	.135	.066	.018	.130	.064	.018	.126	.063	.018	.121	.062	.018	
10.0	.131	.063	.017	.129	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	

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	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.179	.163	.148	.153	.140	.128	.104	.096	.088	.060	.056	.051	.019	.018	.017	
2.0	.165	.138	.115	.141	.119	.100	.097	.082	.070	.056	.048	.041	.018	.015	.013	
3.0	.154	.119	.092	.132	.103	.080	.091	.072	.056	.052	.042	.033	.017	.014	.011	
4.0	.145	.105	.075	.124	.091	.065	.085	.063	.046	.049	.037	.027	.016	.012	.009	
5.0	.137	.094	.062	.117	.081	.054	.081	.057	.038	.047	.033	.023	.015	.011	.007	
6.0	.129	.085	.053	.111	.073	.046	.077	.051	.032	.045	.030	.019	.014	.010	.006	
7.0	.123	.077	.045	.106	.067	.040	.073	.047	.028	.043	.028	.017	.014	.009	.006	
8.0	.117	.071	.040	.101	.062	.035	.070	.043	.025	.041	.026	.015	.013	.008	.005	
9.0	.112	.066	.035	.097	.058	.031	.067	.040	.022	.039	.024	.013	.013	.008	.004	
10.0	.108	.062	.032	.093	.054	.028	.064	.038	.020	.038	.022	.012	.012	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.360m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	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	20.4	21.5	20.7	21.7	21.9	20.5	21.6	20.8	21.8	22.0
3H	20.5	21.5	20.8	21.8	22.0	20.6	21.6	20.9	21.8	22.1
4H	20.6	21.5	20.9	21.8	22.0	20.7	21.6	21.0	21.8	22.1
6H	20.6	21.5	20.9	21.7	22.0	20.7	21.6	21.0	21.8	22.1
8H	20.6	21.4	20.9	21.7	22.0	20.7	21.5	21.0	21.8	22.1
12H	20.6	21.4	20.9	21.7	22.0	20.7	21.5	21.0	21.8	22.1
4H 2H	20.3	21.3	20.6	21.5	21.8	20.4	21.4	20.7	21.6	21.8
3H	20.5	21.3	20.9	21.6	21.9	20.6	21.4	21.0	21.7	22.0
4H	20.6	21.4	21.0	21.7	22.0	20.7	21.4	21.1	21.8	22.1
6H	20.7	21.4	21.1	21.7	22.1	20.8	21.4	21.2	21.8	22.2
8H	20.7	21.3	21.1	21.7	22.1	20.8	21.4	21.2	21.8	22.2
12H	20.7	21.3	21.2	21.7	22.1	20.8	21.4	21.3	21.8	22.2
8H 4H	20.6	21.2	21.0	21.6	22.0	20.7	21.3	21.1	21.6	22.0
6H	20.7	21.2	21.2	21.6	22.1	20.8	21.3	21.3	21.7	22.1
8H	20.8	21.2	21.3	21.7	22.1	20.9	21.3	21.3	21.7	22.2
12H	20.8	21.2	21.3	21.7	22.1	20.9	21.3	21.4	21.7	22.2
12H 4H	20.6	21.1	21.0	21.5	21.9	20.6	21.2	21.1	21.6	22.0
6H	20.7	21.2	21.2	21.6	22.0	20.8	21.2	21.3	21.7	22.1
8H	20.8	21.2	21.3	21.6	22.1	20.9	21.2	21.3	21.7	22.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.7 / - 3.0					+ 1.7 / - 3.0				
1.5H	+ 3.0 / - 2.7					+ 3.0 / - 2.7				
2.0H	+ 3.4 / - 1.8					+ 3.5 / - 1.8				

CIE Pub.117, 15287 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.5)
Area: 0.105 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2024-01-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.360m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	Shielding Angle:

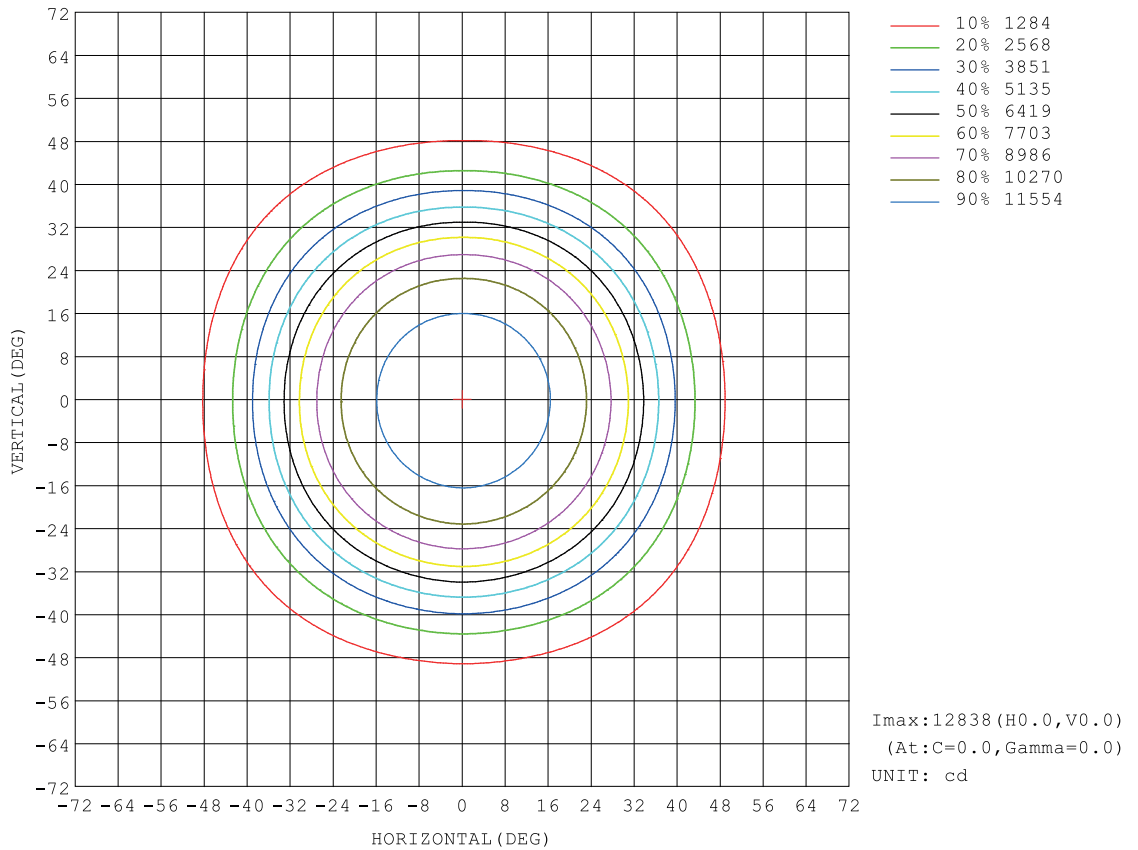
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	30186262400	095094073600	006928588501401801	214729915269	6792728825801520	077761295814247541382870	0068154000000			
0.80	0	-0	-0	0	-0	-0	0	-0	-0	-59
1.00	0	-0	-0	0	-0	-0	0	0	-0	-44
1.25	0	0	0	0	0	0	-0	0	0	-29
1.50	0	0	0	0	0	0	0	0	0	-14
2.00	0	0	-0	0	0	-0	0	0	0	1
2.50	0	0	0	0	0	0	0	0	0	16
3.00	0	0	0	0	0	0	0	0	0	31
4.00	0	0	-0	0	0	0	0	0	0	46
5.00	0	0	0	0	0	0	0	0	0	61
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.360m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	Shielding Angle:

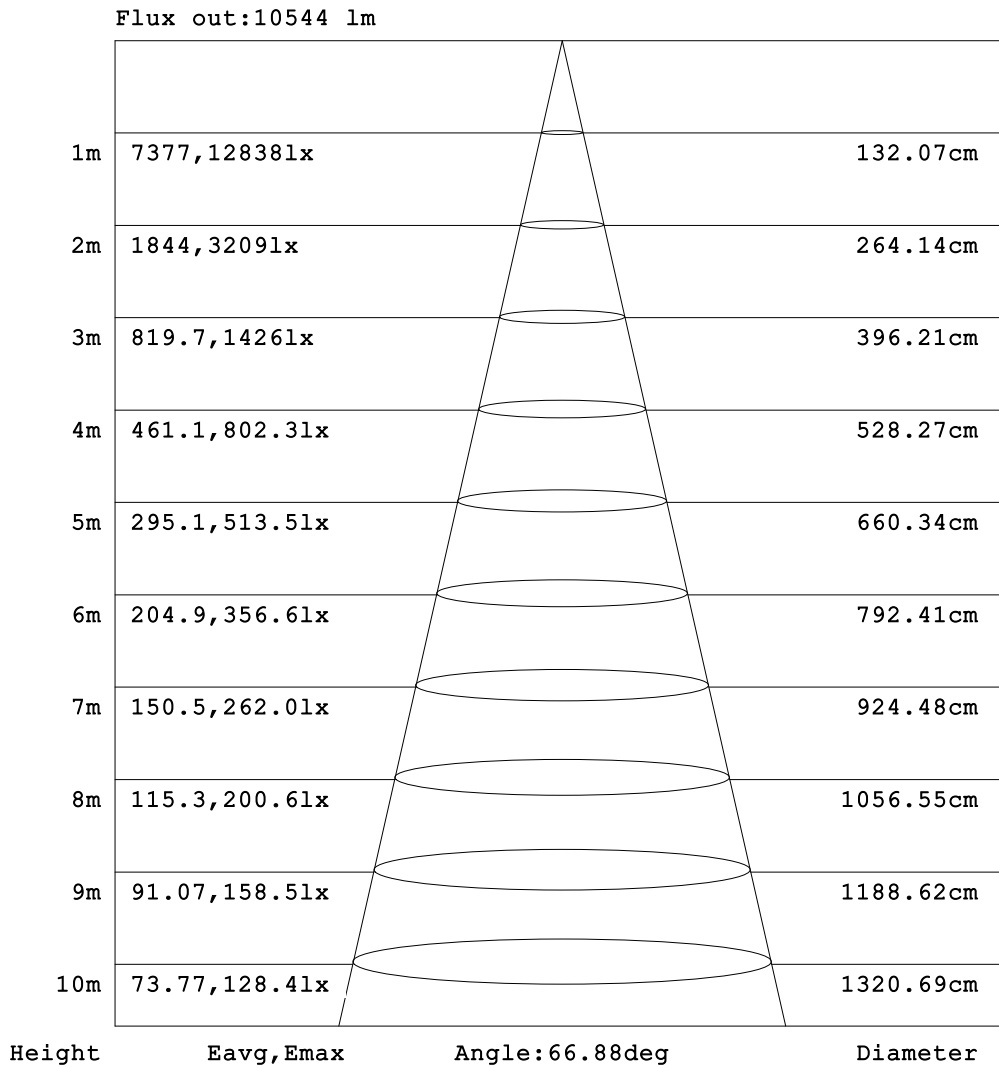


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.360m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	Shielding Angle:

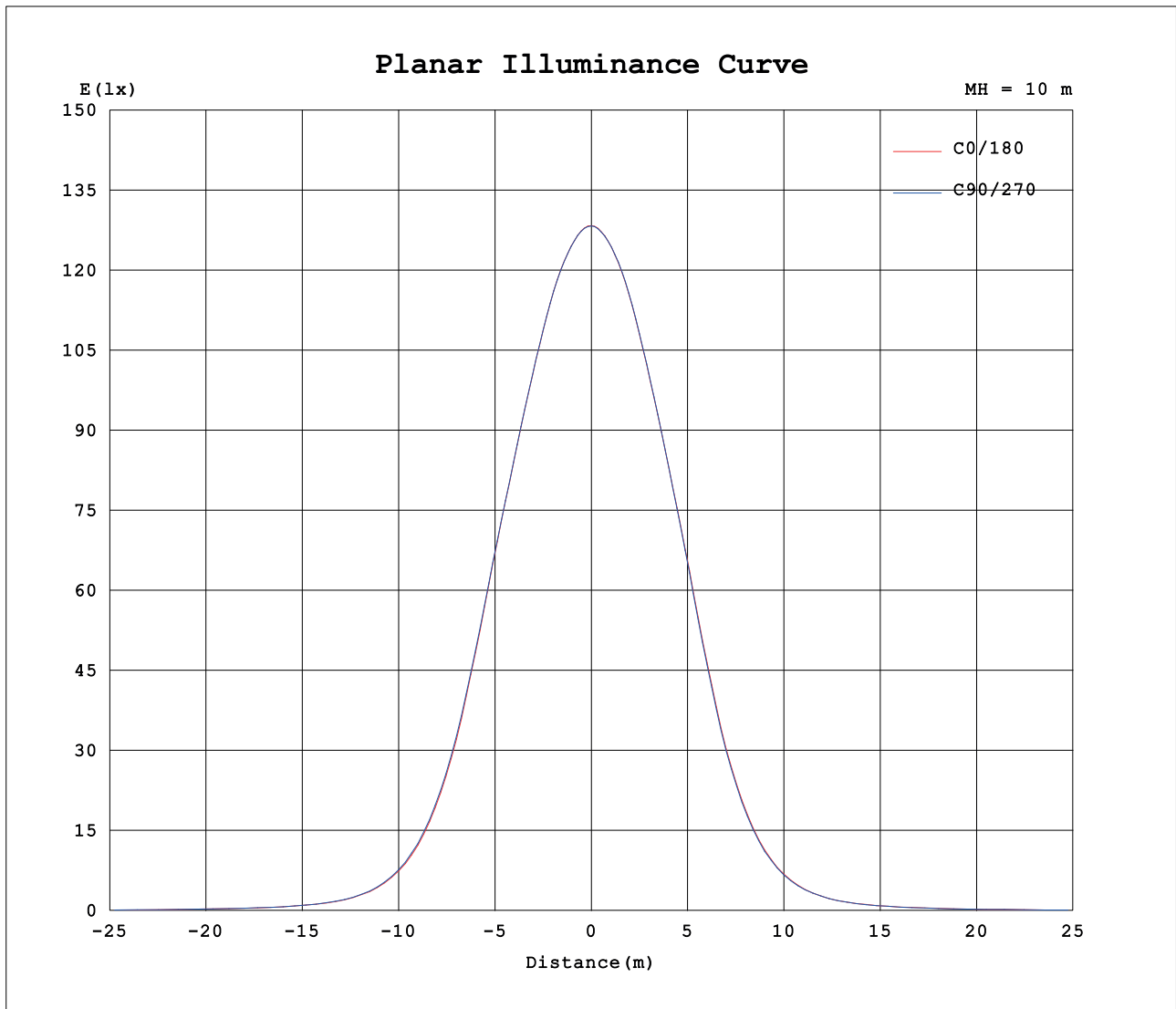


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.360m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYH
Test Date: 2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.360m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS-100-CREE	TYPE:	WEIGHT: 4kg
SPEC.: 90 DEG.	DIM.: 1500*70*76mm	SERIAL No.:
MFR.: LEDMADA	SUR.: 1500*70mm	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1283	1283	1283	1283															
5	1270	1271	1268	1269															
10	1237	1238	1233	1235															
15	1177	1178	1168	1171															
20	1093	1094	1080	1081															
25	982	984	963	961															
30	809	817	781	775															
35	585	596	553	546															
40	371	381	346	340															
45	211	217	194	190															
50	113	115	103	103															
55	65.2	66.6	61.1	60.6															
60	43.4	44.0	41.3	41.0															
65	31.2	31.6	29.9	29.6															
70	22.3	22.7	21.2	21.0															
75	14.9	15.2	14.0	13.8															
80	8.66	8.98	7.92	7.46															
85	4.07	4.26	3.54	3.01															
90	0.88	1.14	0.30	0.29															
95	0.18	0.20	0.21	0.20															
100	0.19	0.21	0.25	0.25															
105	0.26	0.28	0.35	0.35															
110	0.39	0.40	0.54	0.56															
115	0.61	0.62	0.83	0.84															
120	0.92	0.93	1.22	1.22															
125	1.35	1.33	1.71	1.68															
130	1.85	1.81	2.26	2.19															
135	2.38	2.33	2.84	2.72															
140	2.90	2.86	3.39	3.25															
145	3.38	3.37	3.88	3.75															
150	3.82	3.86	4.33	4.21															
155	4.26	4.32	4.77	4.66															
160	4.75	4.80	5.25	5.11															
165	5.33	5.31	5.79	5.60															
170	5.92	5.80	6.29	6.03															
175	6.39	6.20	6.61	6.32															
180	6.67	6.41	6.67	6.42															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2024-01-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.360m [K=1.0000]
 Remarks: