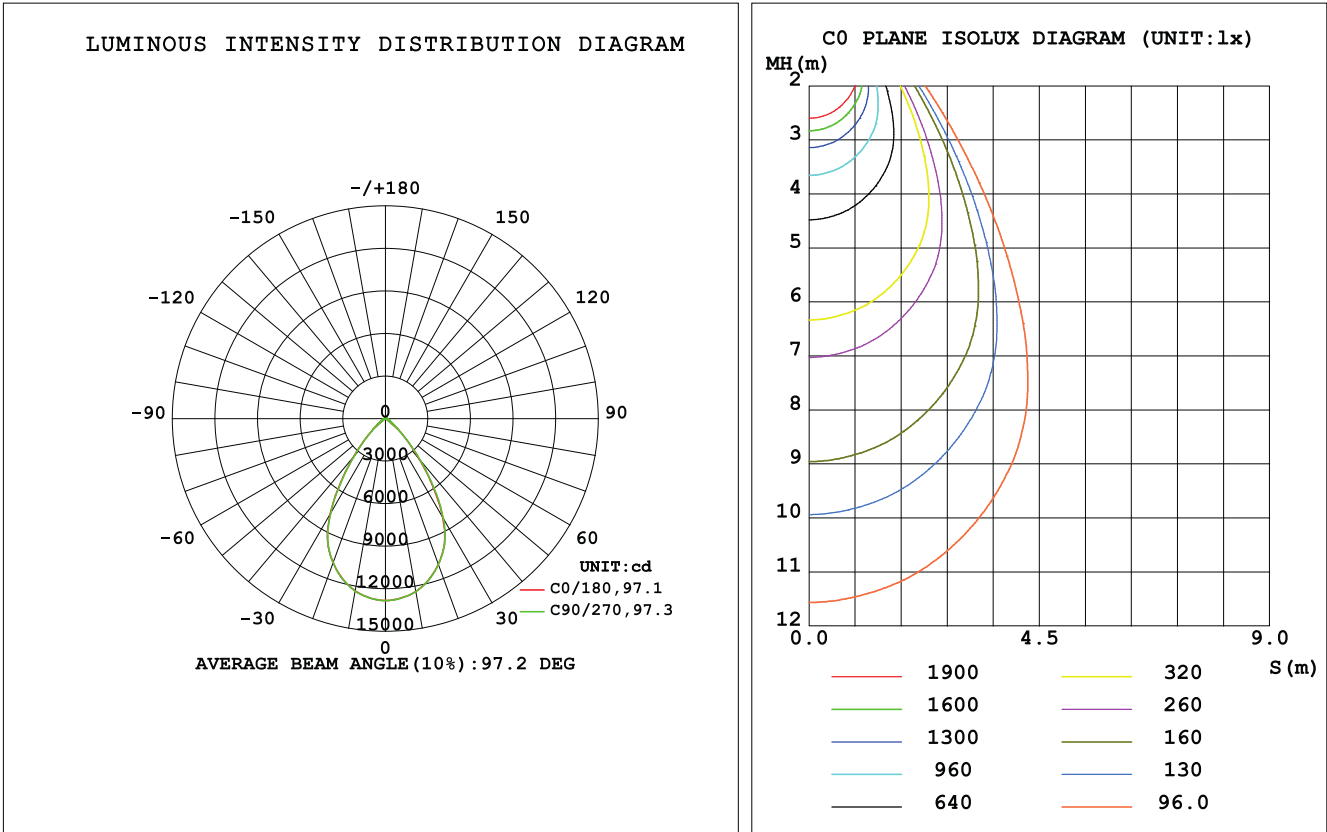


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.34V I:0.5025A P:107.71W PF:0.9728 Freq:50.00Hz Lamp Flux:15286.9x1 lm		
NAME: PS 100 PRO CR 35 50 7 045	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.93 lm/W			
MODEL	PS-100-PRO PS100PROCR35507045	I _{max} (cd)	12834	S/MH(C0/180)	0.98
NOMINAL POWER(W)	107.71	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:

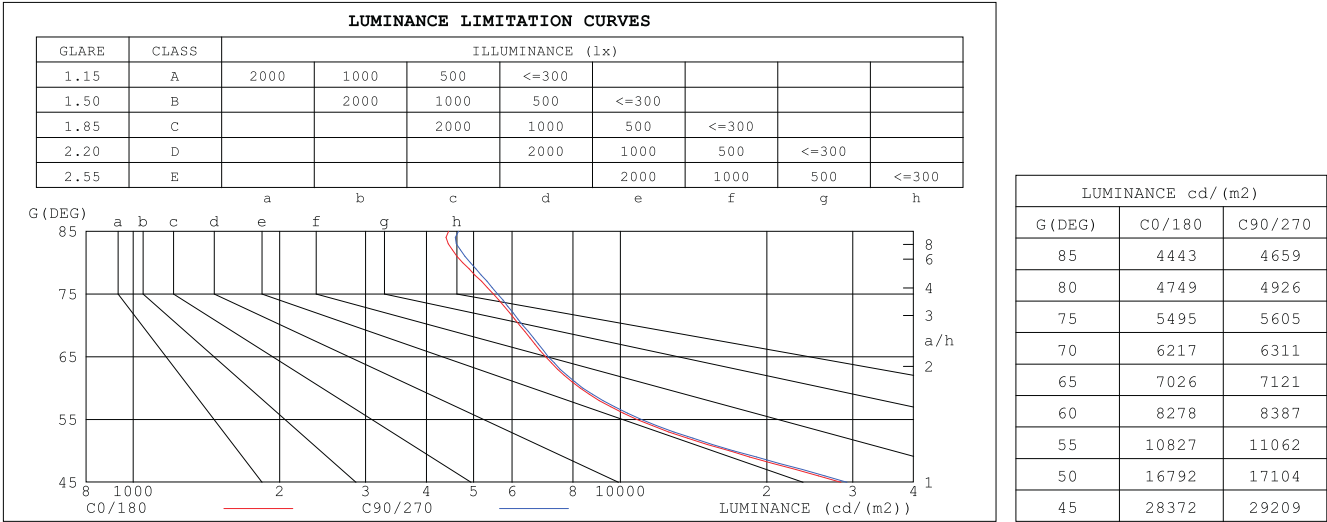
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1237	1238	1233	1235					0- 10	1201	1201	7.86,7.86
20	1093	1094	1080	1081					10- 20	3292	4494	29.4,29.4
30	809.5	816.8	781.0	774.6					20- 30	4409	8902	58.2,58.2
40	371.4	381.1	345.8	340.1					30- 40	3544	12446	81.4,81.4
50	113.3	115.5	103.1	103.5					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	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
Temperature:25.3DEG	Humidity:65.0%
Operators:LYH	Test Distance:8.360m [K=1.0000]
Test Date:2024-01-25	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 PRO CR 35 50 7 045	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	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:

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 PRO CR 35 50 7 045	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	.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		

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	.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 PRO CR 35 50 7 045					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			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 ($8\log(F/F_0) = 9.5$)
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 PRO CR 35 50 7 045	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	30186262900	950940779	0006928530850	1401821	214721935	5269679272	38325851320	07776129938	14247581356	28700068154000000
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 SHRNM = 1.25										

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

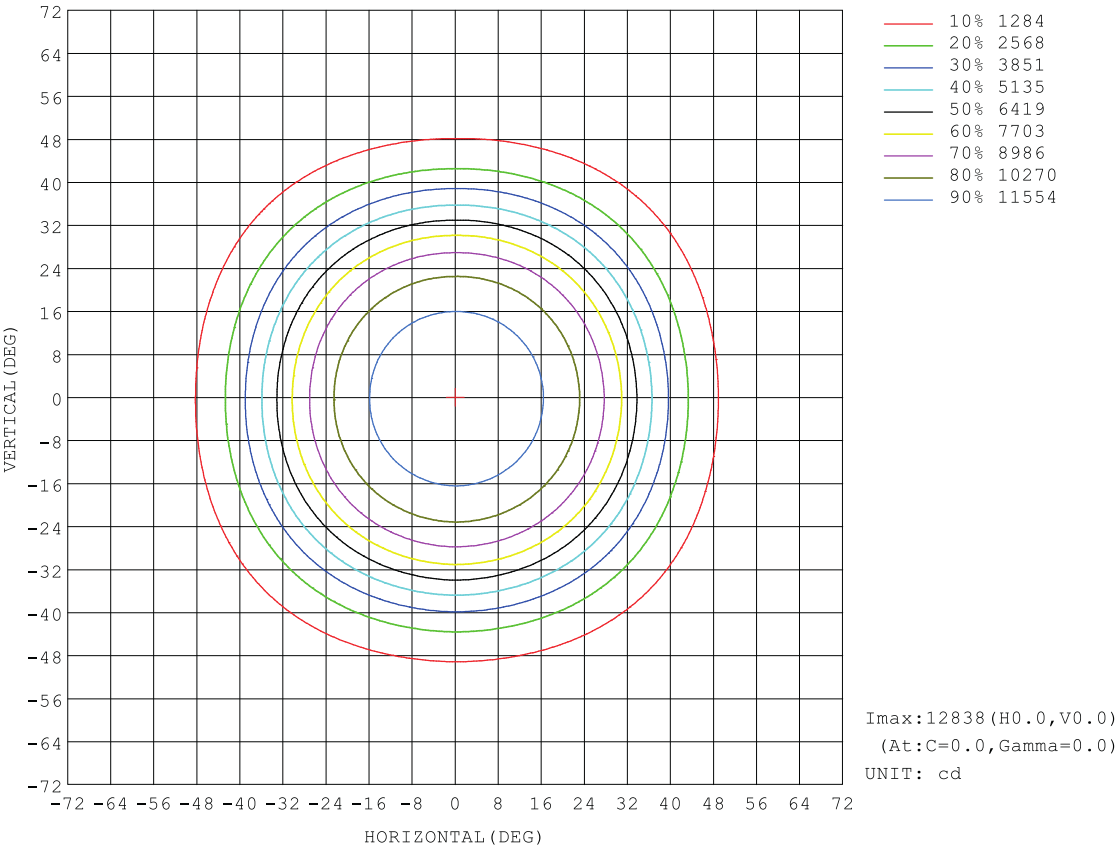
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.360m [K=1.0000]
Remarks:

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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 PRO CR 35 50 7 045	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

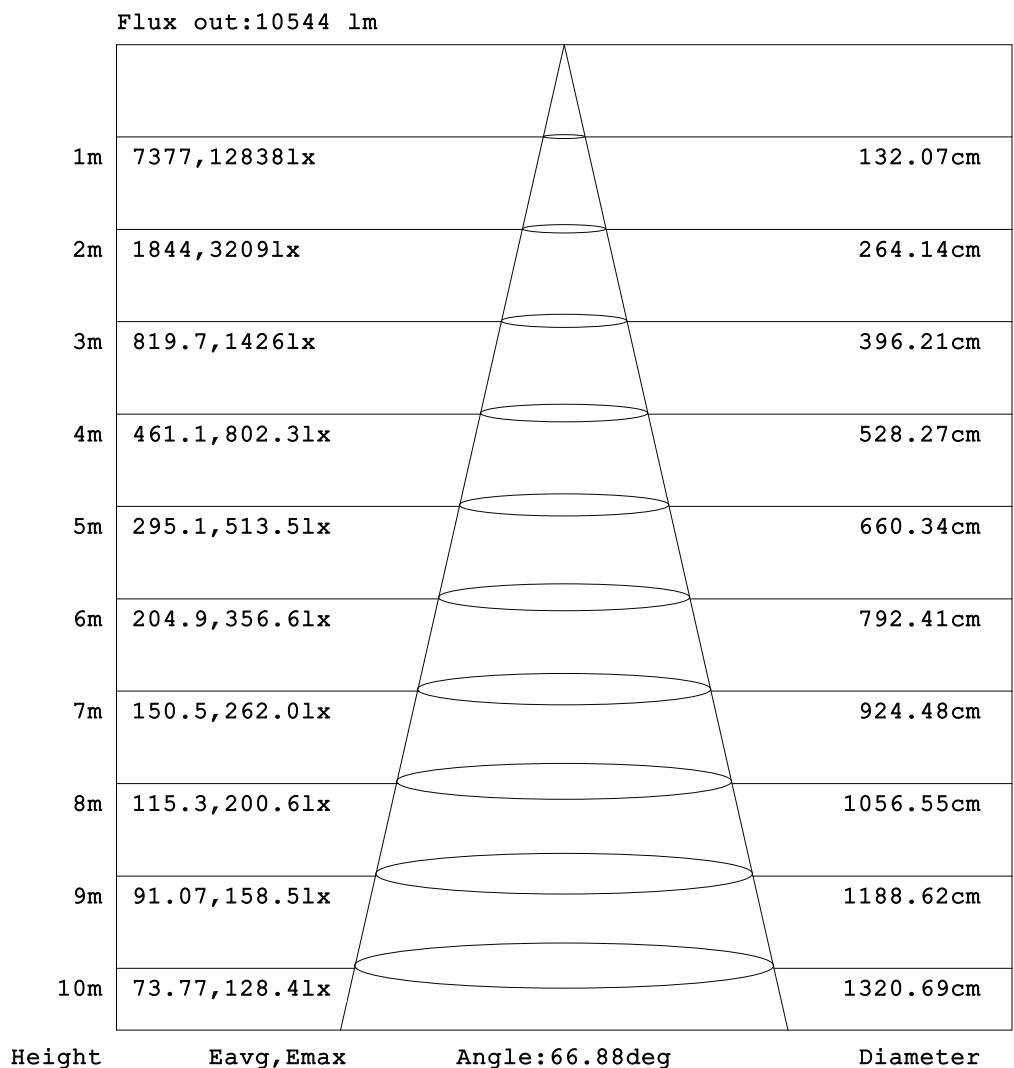


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2024-01-25

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 PRO CR 35 50 7 045	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

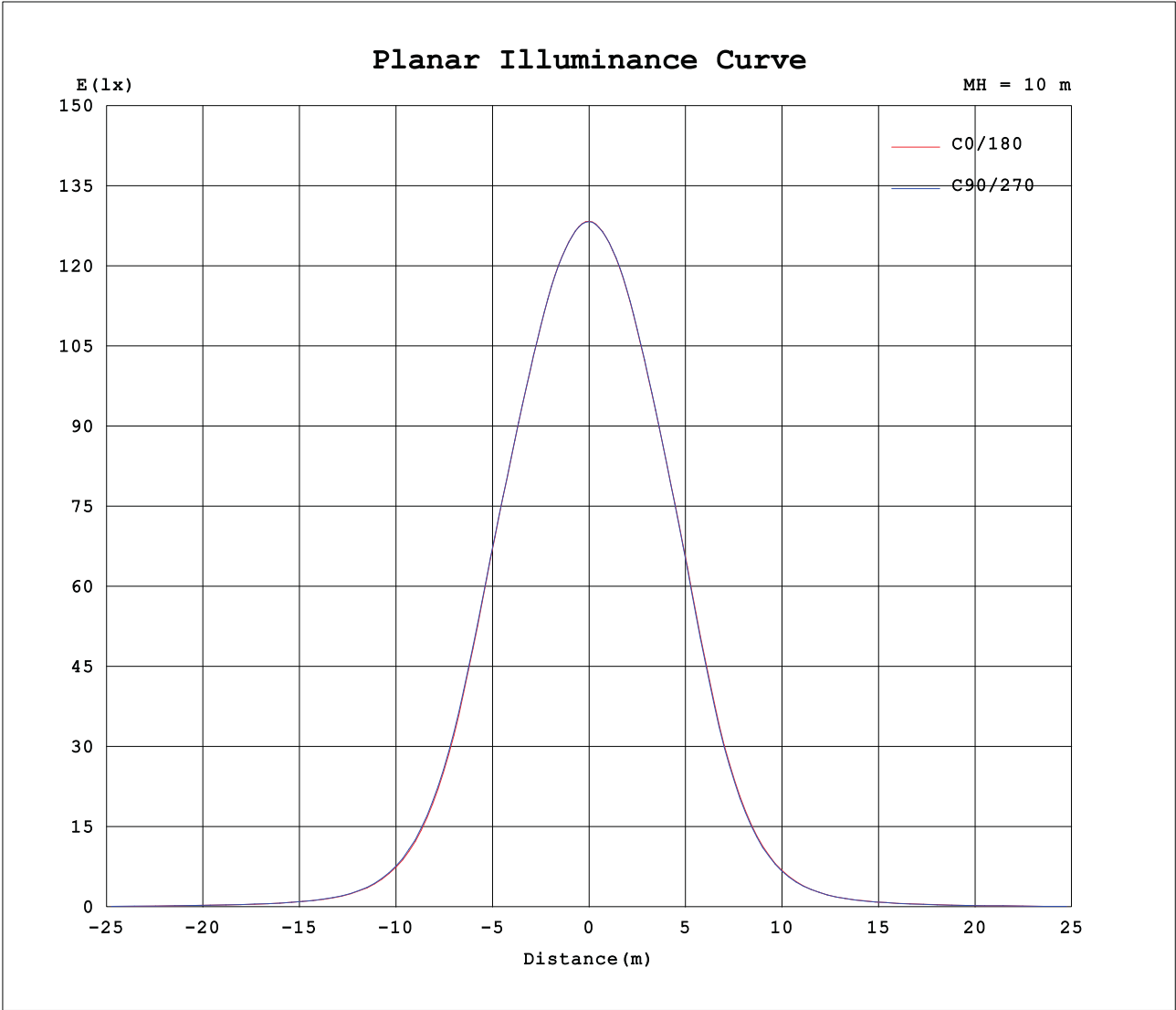


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.443
Temperature:25.3DEG	Humidity:65.0%
Operators:LYH	Test Distance:8.360m [K=1.0000]
Test Date:2024-01-25	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 PRO CR 35 50 7 045	TYPE:	WEIGHT: 4kg
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1					UNIT: ×10cd															
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: