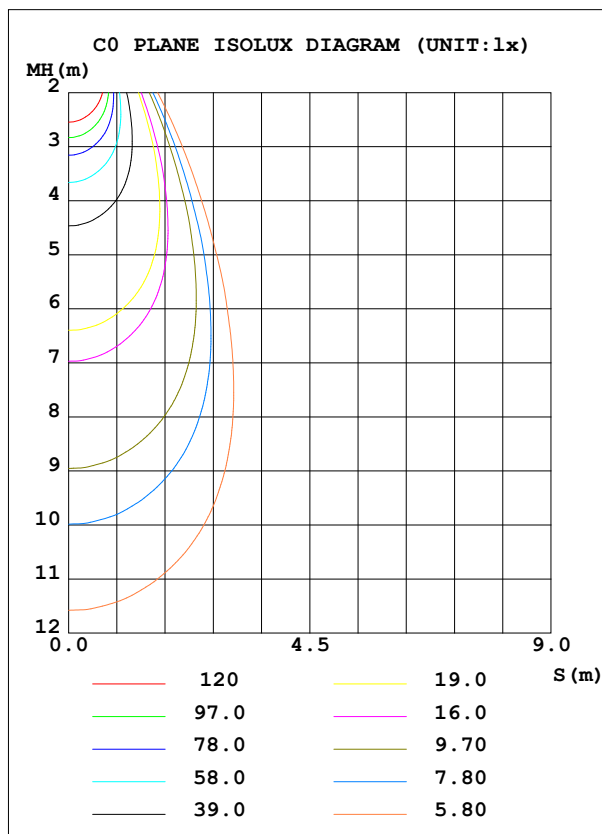
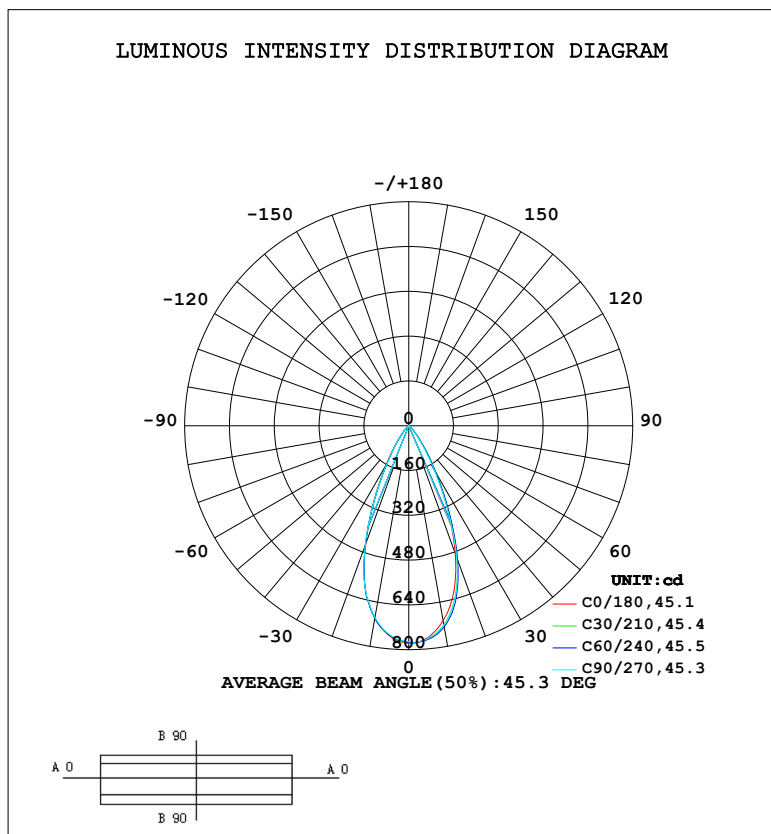


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.27V I:0.0586A P:6.8696W PF:0.9747 Freq:60.00Hz Lamp Flux:459.157x1 lm		
NAME: IP65 7W LED Pot Light	TYPE:	WEIGHT:
SPEC.: LP-SP04-IP-C7-02 RA>903000K	DIM.:	SERIAL No.:
MFR.: Lumen Paul	SUR.:	Shielding Angle:

DATA OF LAMP			PHOTOMETRIC DATA			Eff: 66.84 lm/W
MODEL			I _{max} (cd)	777.6	S/MH (C0/180)	0.69
NOMINAL POWER (W)	--		LOR (%)	100.0	S/MH (C90/270)	0.68
RATED VOLTAGE (V)	--		TOTAL FLUX (lm)	459.16	η UP, DN (C0-180)	0.0, 51.9
NOMINAL FLUX (lm)	459.157		CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.1
LAMPS INSIDE	1		η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	--		η down (%)	100.0	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-09-13

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	707.3	727.8	723.0	697.8	696.4	697.0	695.2	688.5	0~ 10	70.47	70.47	15.3,15.3
20	486.2	516.3	500.2	467.0	454.9	443.2	455.5	453.9	10~ 20	167.5	238.0	51.8,51.8
30	189.8	203.2	182.0	165.7	163.3	151.9	155.3	165.1	20~ 30	140.4	378.4	82.4,82.4
40	48.92	49.78	43.92	38.53	39.51	36.12	35.44	40.56	30~ 40	57.18	435.6	94.9,94.9
50	13.44	13.44	11.73	9.110	7.466	6.323	7.512	10.59	40~ 50	17.43	453.0	98.7,98.7
60	2.599	2.591	2.223	1.805	1.663	1.696	1.981	2.368	50~ 60	3.615	456.6	99.4,99.4
70	1.473	1.501	1.340	1.132	1.023	0.9876	1.081	1.286	60~ 70	1.715	458.3	99.8,99.8
80	0.3581	0.3776	0.3229	0.2478	0.2114	0.2060	0.2365	0.3011	70~ 80	0.7158	459.0	100,100
90	0.0702	0.0662	0.0341	0.0281	0.0271	0.0311	0.0281	0.0441	80~ 90	0.1318	459.2	100,100
100									90~100			
110									100~110			
120									110~120			
130									120~130			
140									130~140			
150									140~150			
160									150~160			
170									160~170			
180									170~180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 446.74 lm

%lum = 97.3%

%lamp = 97.3%

Conical surface Flux(120deg): 456.59 lm

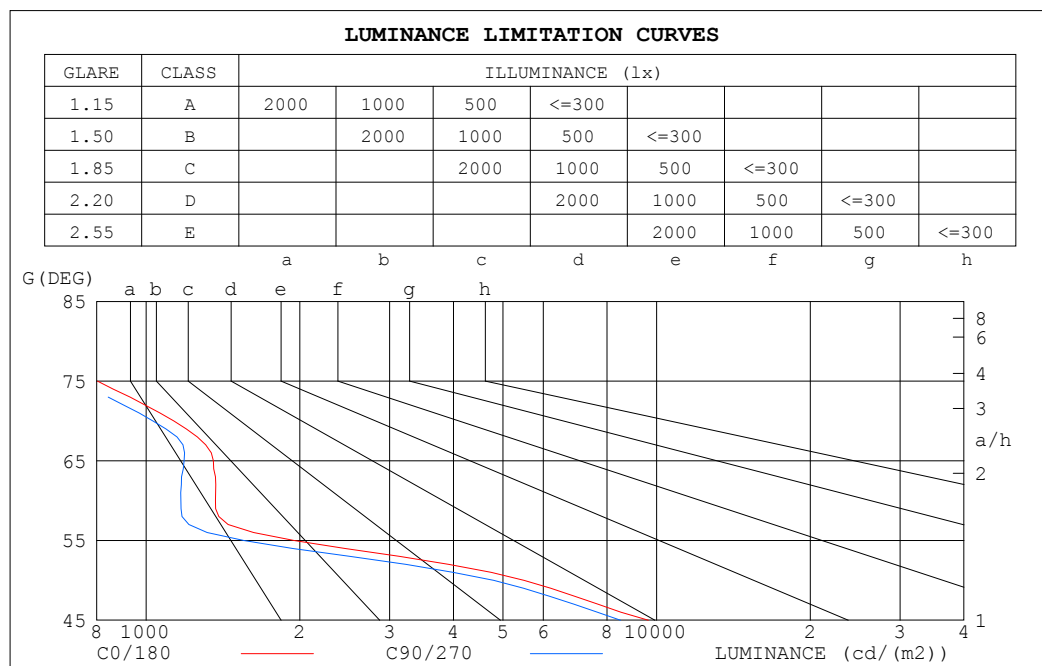
%lum = 99.4%

%lamp = 99.4%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2025-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES



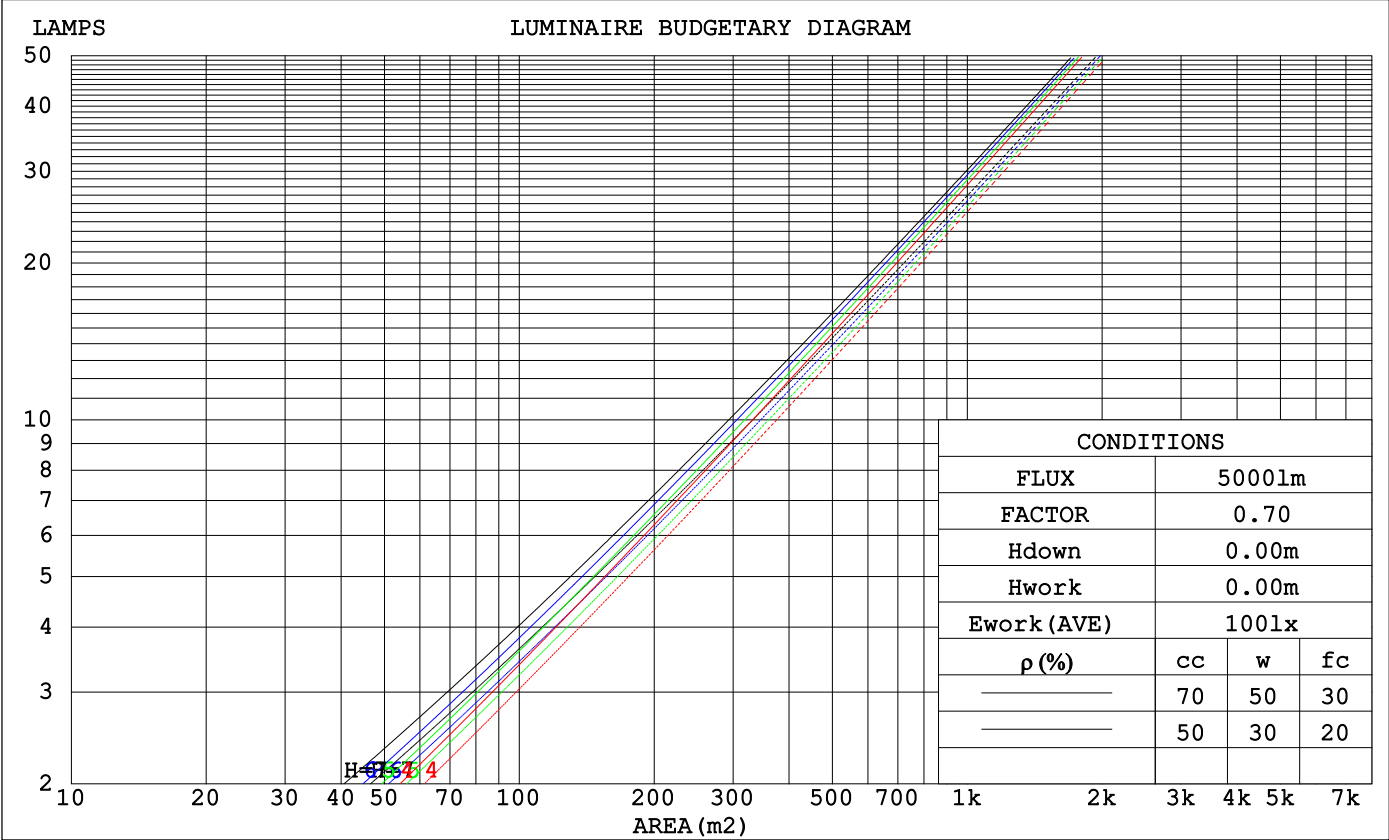
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	433	358
80	543	489
75	803	725
70	1133	1031
65	1355	1187
60	1368	1170
55	1951	1555
50	5500	4801
45	9634	8500

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.98	1.03	.99	.97	.90	.97	.94	.97	.94	.92	.94	.92	.91	.89
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.92	.89	.87	.90	.87	.85	.84
4.0	.93	.88	.84	.92	.87	.83	.89	.86	.82	.88	.84	.81	.86	.83	.81	.79
5.0	.88	.82	.78	.87	.82	.78	.85	.81	.77	.83	.80	.77	.82	.79	.76	.75
6.0	.83	.78	.74	.82	.77	.74	.81	.76	.73	.80	.76	.73	.78	.75	.72	.71
7.0	.79	.73	.70	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.67
8.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.72	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.62	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.68	.63	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.58



C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: 10.0deg/s

Temperature:25.3℃

Operators:

Test Date:2025-09-13

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463

Humidity:65.0%

Test Distance:9.000m [K=1.0000]

Remarks:

WEC AND CCEC

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	.165	.094	.030	.159	.091	.029	.146	.084	.027	.135	.078	.025	.124	.072	.023	
2.0	.157	.086	.026	.151	.083	.026	.141	.078	.024	.131	.074	.023	.122	.069	.022	
3.0	.149	.079	.024	.144	.077	.023	.135	.073	.022	.127	.070	.021	.119	.066	.020	
4.0	.141	.073	.022	.137	.072	.021	.129	.069	.021	.122	.066	.020	.116	.063	.019	
5.0	.134	.068	.020	.131	.067	.020	.124	.065	.019	.118	.062	.019	.112	.060	.018	
6.0	.128	.064	.018	.125	.063	.018	.119	.061	.018	.114	.059	.017	.109	.057	.017	
7.0	.122	.060	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.115	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015	
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.099	.050	.014	
10.0	.108	.052	.014	.106	.051	.014	.102	.050	.014	.099	.049	.014	.096	.048	.014	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016		
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013		
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011		
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.041	.031	.022	.013	.010	.007		
6.0	.113	.077	.051	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006		
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005		
9.0	.095	.058	.032	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004		
10.0	.091	.053	.028	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2025-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	15.0	15.9	15.3	16.1	16.2	14.7	15.5	14.9	15.7	15.8
3H	14.9	15.7	15.2	15.9	16.1	14.6	15.3	14.8	15.5	15.7
4H	14.9	15.6	15.1	15.8	16.1	14.5	15.2	14.8	15.5	15.7
6H	14.8	15.5	15.1	15.7	16.0	14.4	15.1	14.7	15.3	15.6
8H	14.8	15.4	15.1	15.7	15.9	14.4	15.0	14.7	15.3	15.6
12H	14.7	15.4	15.0	15.6	15.9	14.3	15.0	14.6	15.2	15.5
4H 2H	14.8	15.6	15.1	15.8	16.0	14.5	15.2	14.7	15.4	15.6
3H	14.7	15.4	15.1	15.6	15.9	14.4	15.0	14.7	15.3	15.5
4H	14.7	15.3	15.0	15.6	15.9	14.3	14.9	14.6	15.2	15.5
6H	14.6	15.1	15.0	15.4	15.8	14.2	14.7	14.6	15.1	15.4
8H	14.5	15.0	14.9	15.4	15.7	14.2	14.6	14.6	15.0	15.4
12H	14.5	14.9	14.9	15.3	15.7	14.1	14.6	14.5	14.9	15.3
8H 4H	14.5	15.0	14.9	15.4	15.7	14.2	14.6	14.6	15.0	15.4
6H	14.5	14.9	14.9	15.2	15.7	14.1	14.5	14.5	14.9	15.3
8H	14.4	14.8	14.9	15.2	15.6	14.0	14.4	14.5	14.8	15.2
12H	14.4	14.7	14.8	15.1	15.6	14.0	14.3	14.4	14.7	15.2
12H 4H	14.5	14.9	14.9	15.3	15.7	14.1	14.6	14.5	14.9	15.3
6H	14.4	14.8	14.9	15.2	15.6	14.0	14.4	14.5	14.8	15.2
8H	14.4	14.7	14.8	15.1	15.6	14.0	14.3	14.4	14.7	15.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.8 / - 8.0					+ 2.7 / - 8.0				
1.5H	+ 4.5 / - 7.5					+ 4.3 / - 7.5				
2.0H	+ 5.4 / - 4.8					+ 5.2 / - 4.9				

CIE Pub.117, 459.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.7)
Area: 0.0038 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3°C
Operators:
Test Date:2025-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

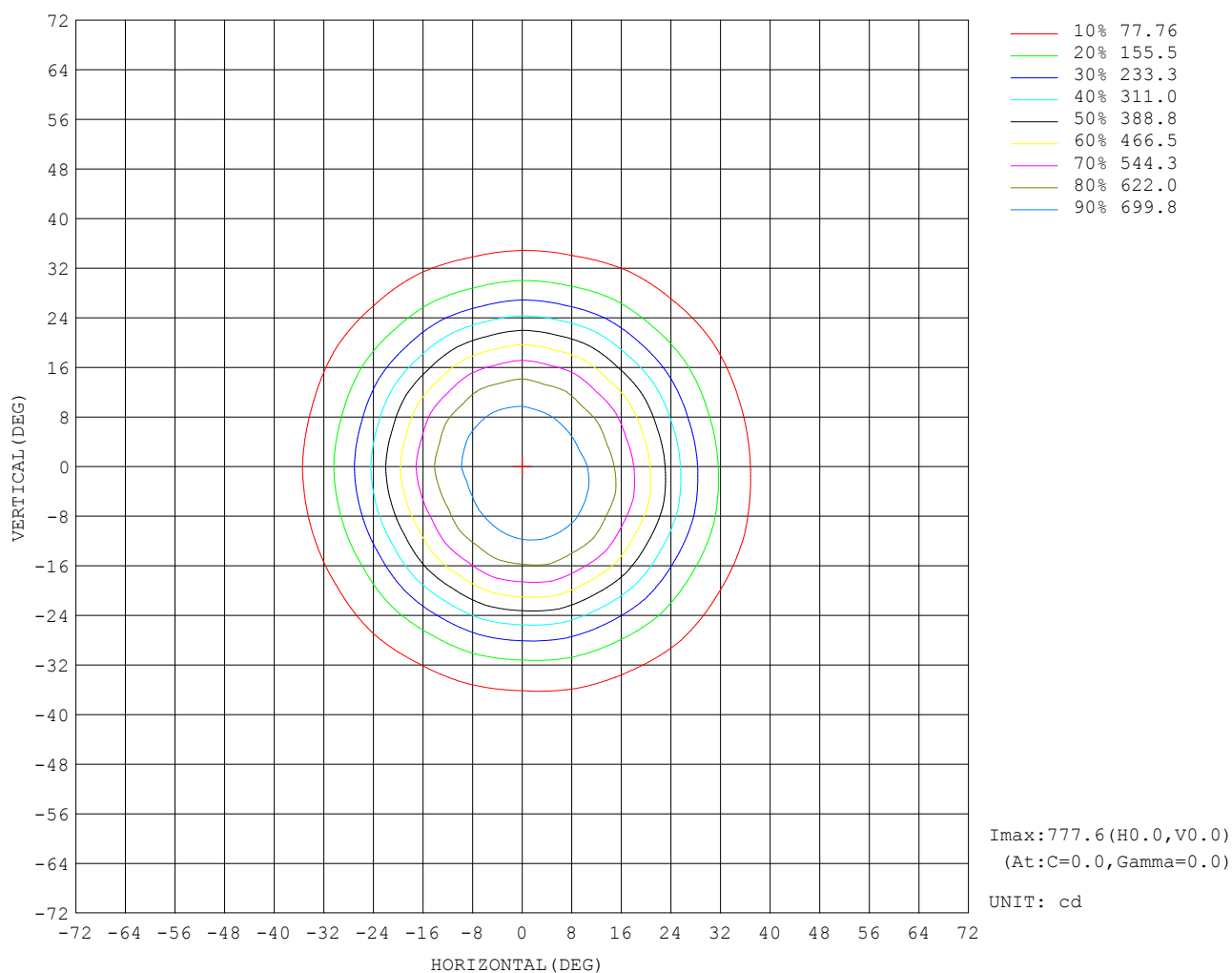
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2025-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

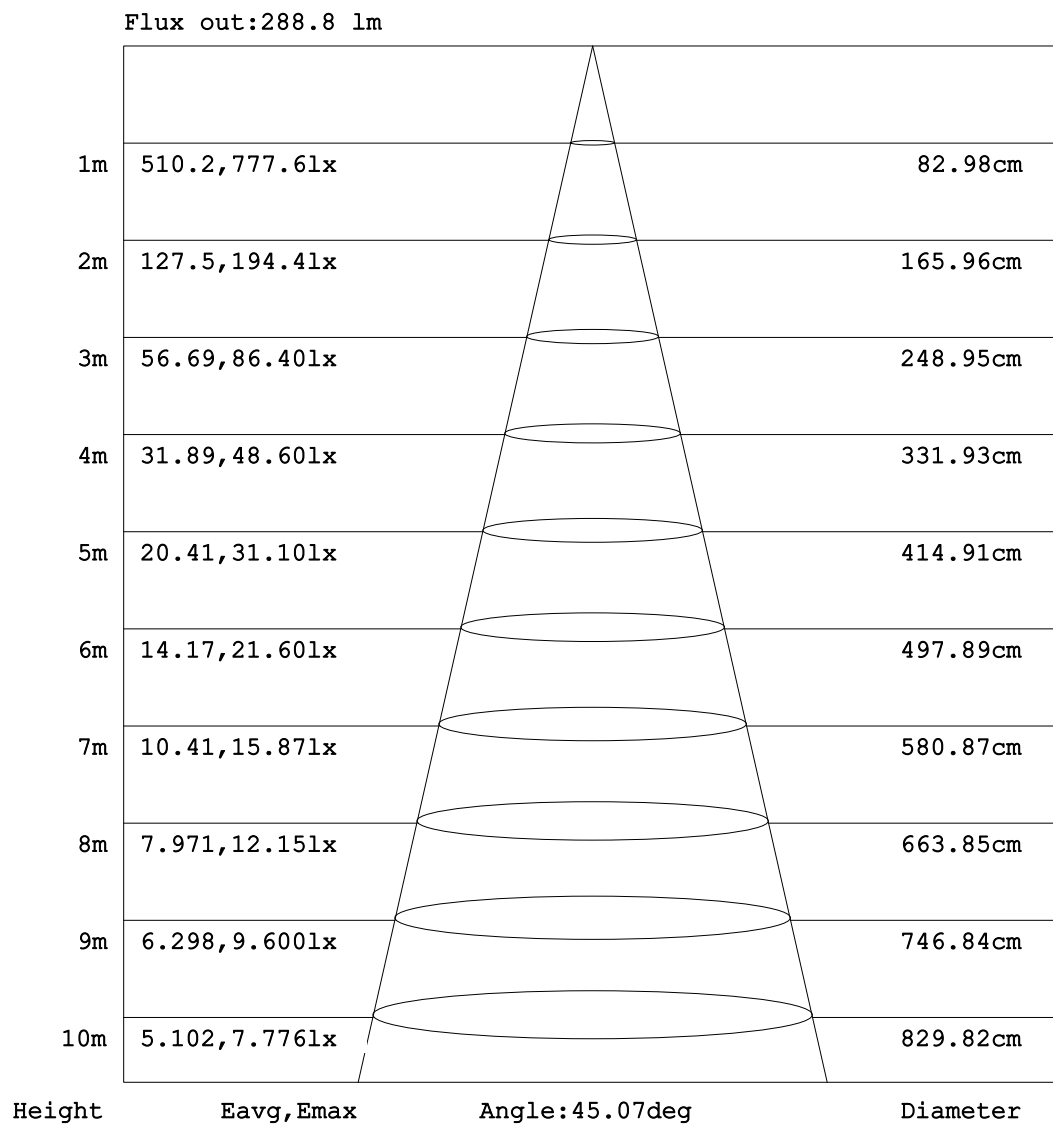
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

AAI Figure

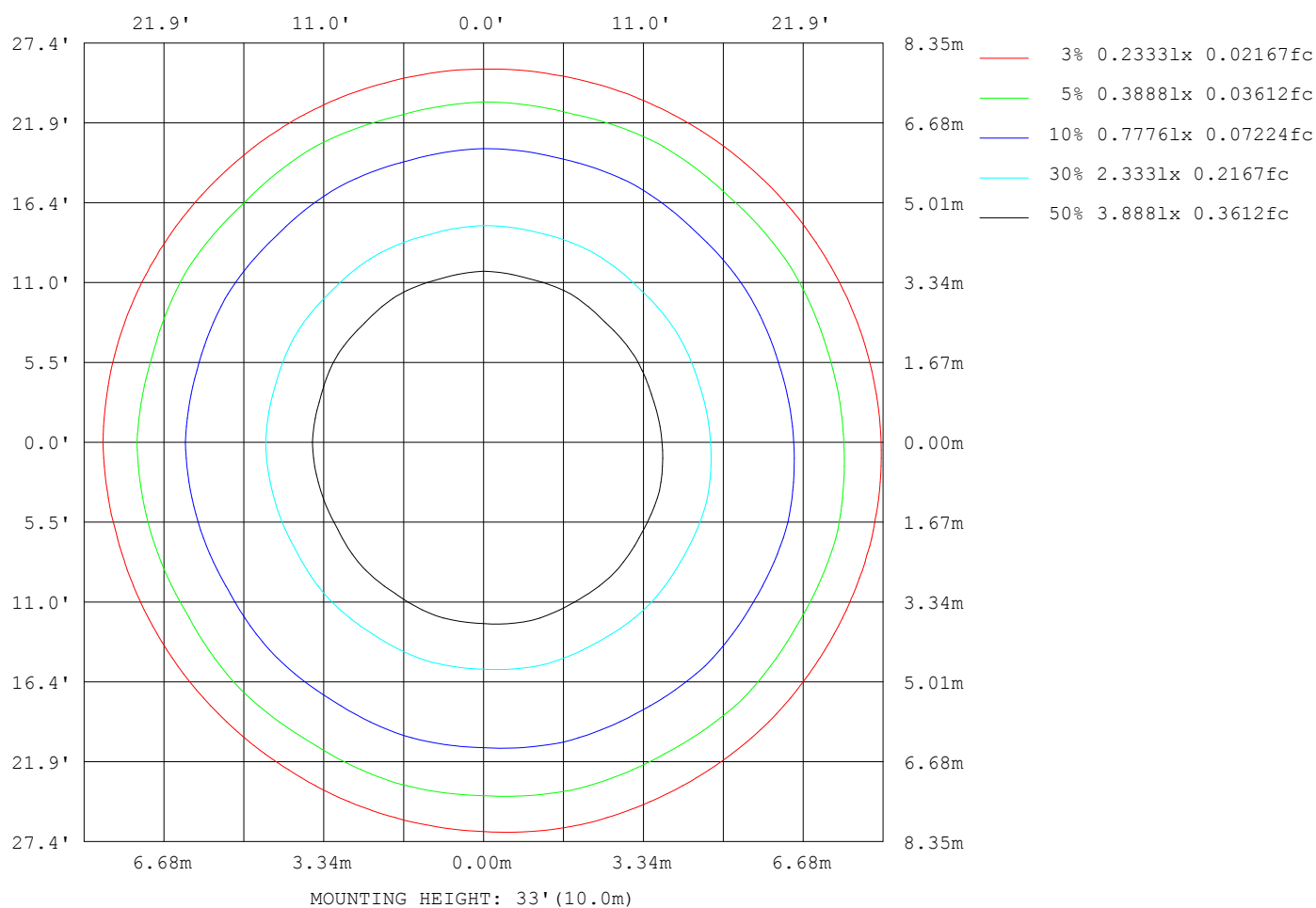


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.27V I:0.0586A P:6.8696W PF:0.9747 Freq:60.00Hz Lamp Flux:459.157x1 lm		
NAME: IP65 7W LED Pot Light	TYPE:	WEIGHT:
SPEC.: LP-SP04-IP-C7-02 RA>903000K	DIM.:	SERIAL No.:
MFR.: Lumen Paul	SUR.:	Shielding Angle:

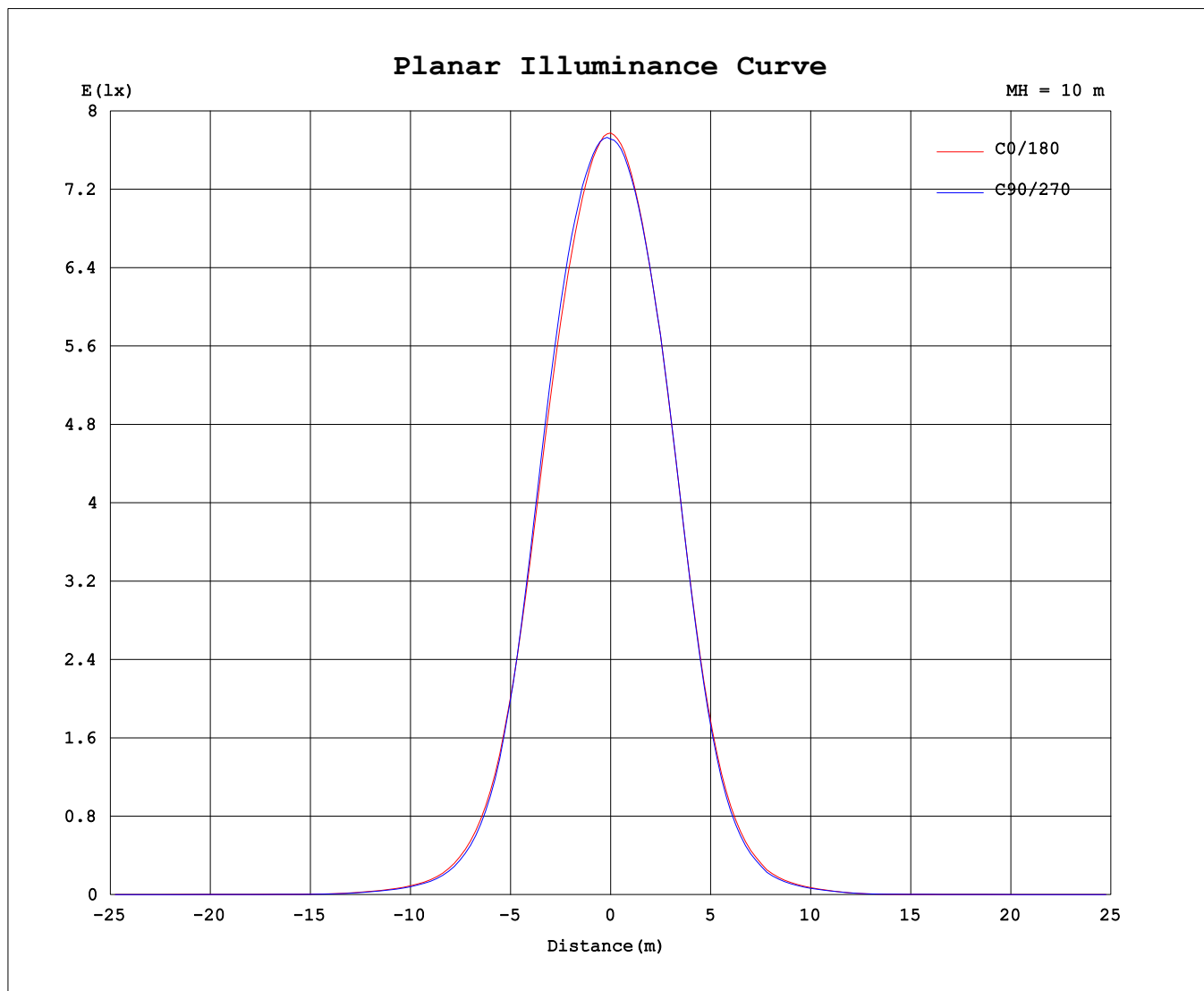
AvgL	cd/m2
L_0~180 (65) av	1106
L_0~180 (75) av	662
L_0~180 (85) av	312
L_90~270 (65) av	1102
L_90~270 (75) av	642
L_90~270 (85) av	297
L_45 (65) av	1104
L_45 (75) av	652
L_45 (85) av	303

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2025-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2025-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

```