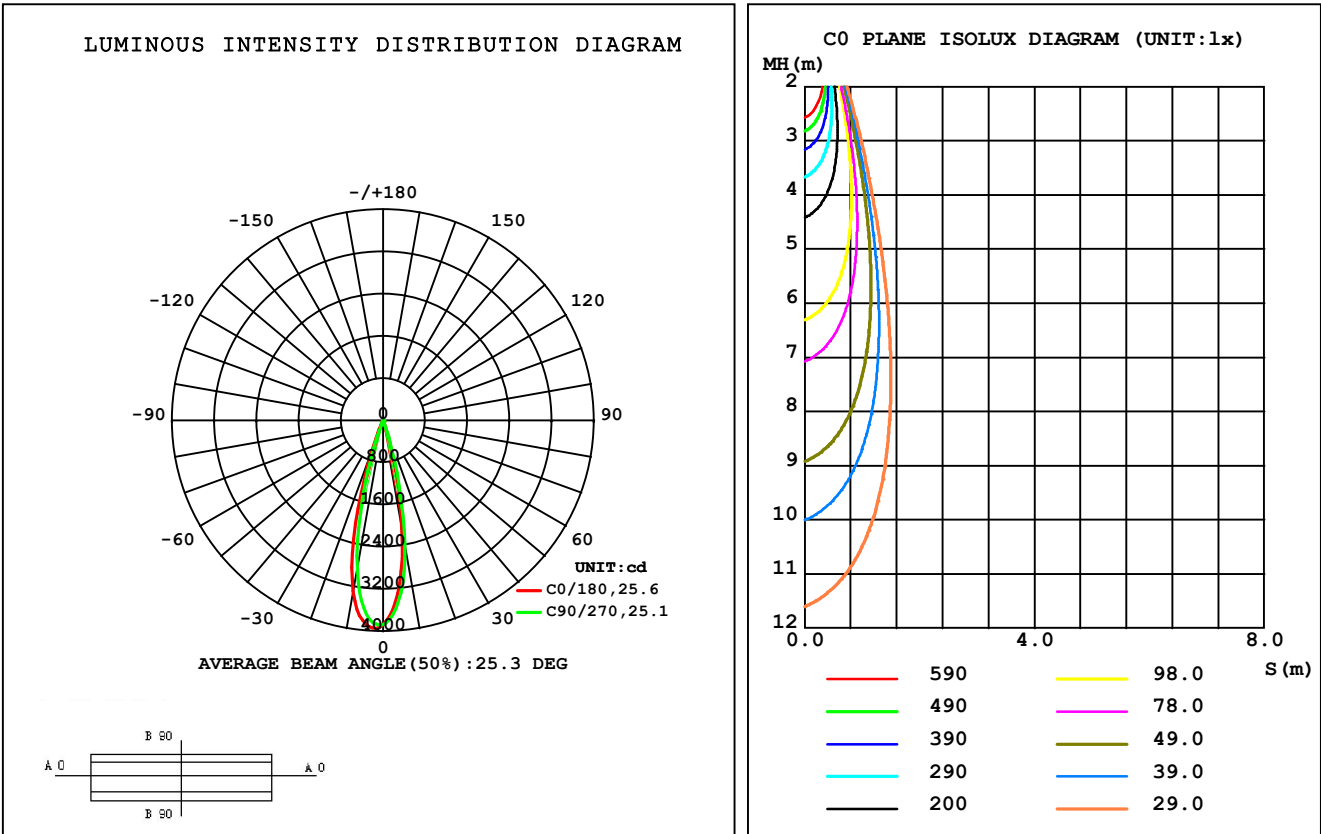


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm					
NAME: 6878		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.48 lm/W
MODEL		I _{max} (cd)	3944	S/MH (C0/180)	0.46	
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	0.42	
RATED VOLTAGE (V)	DC48	TOTAL FLUX (lm)	766.64	η UP, DN (C0-180)	0.0, 43.3	
NOMINAL FLUX (lm)	766.64	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 56.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 彭金英
Test Date: 2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity: 60%
Test Distance: 12.350m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

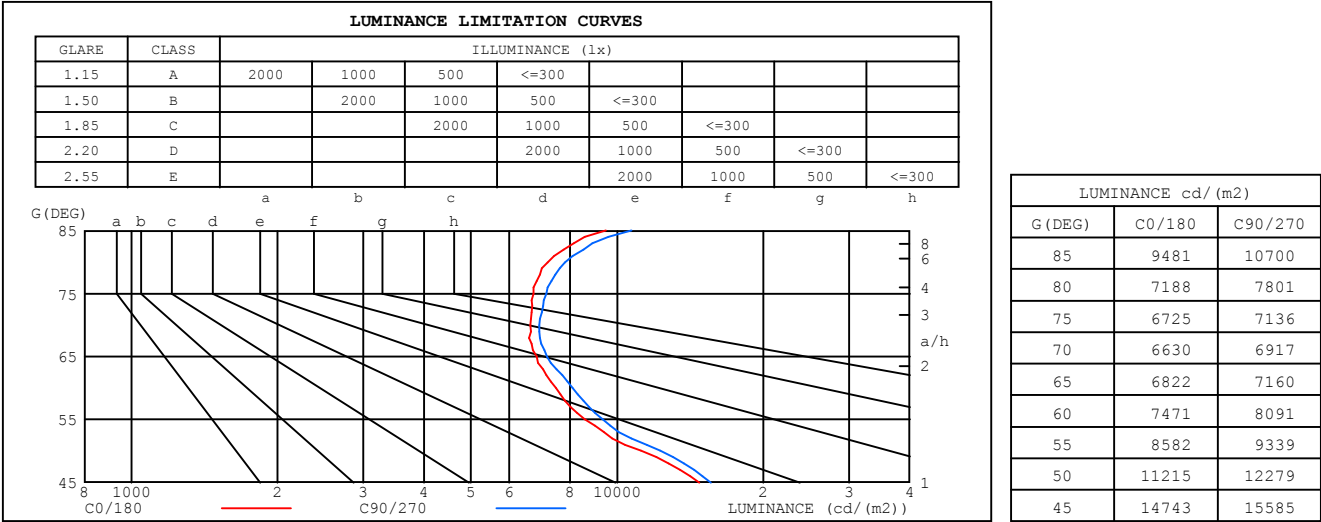
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2090	2062	2387	2993	3290	3167	2856	2369	0- 10	311.9	311.9	40.7,40.7
20	153.8	153.4	229.4	499.3	714.9	646.8	439.2	224.4	10- 20	361.9	673.8	87.9,87.9
30	26.60	27.28	30.01	37.71	41.08	40.90	34.57	30.55	20- 30	51.06	724.9	94.6,94.6
40	16.63	16.35	17.57	19.61	20.41	20.09	18.97	18.04	30- 40	14.95	739.8	96.5,96.5
50	8.988	8.929	9.960	12.18	13.06	12.64	11.68	10.30	40- 50	11.37	751.2	98,98
60	4.657	4.807	5.105	5.706	6.145	6.001	5.487	5.199	50- 60	6.824	758.0	98.9,98.9
70	2.827	2.838	2.985	3.348	3.461	3.677	3.248	3.250	60- 70	4.118	762.1	99.4,99.4
80	1.556	1.584	1.709	1.969	2.334	2.686	2.106	2.282	70- 80	2.726	764.9	99.8,99.8
90	0.8439	0.9355	0.8430	0.9681	1.545	2.179	1.364	1.881	80- 90	1.775	766.6	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		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



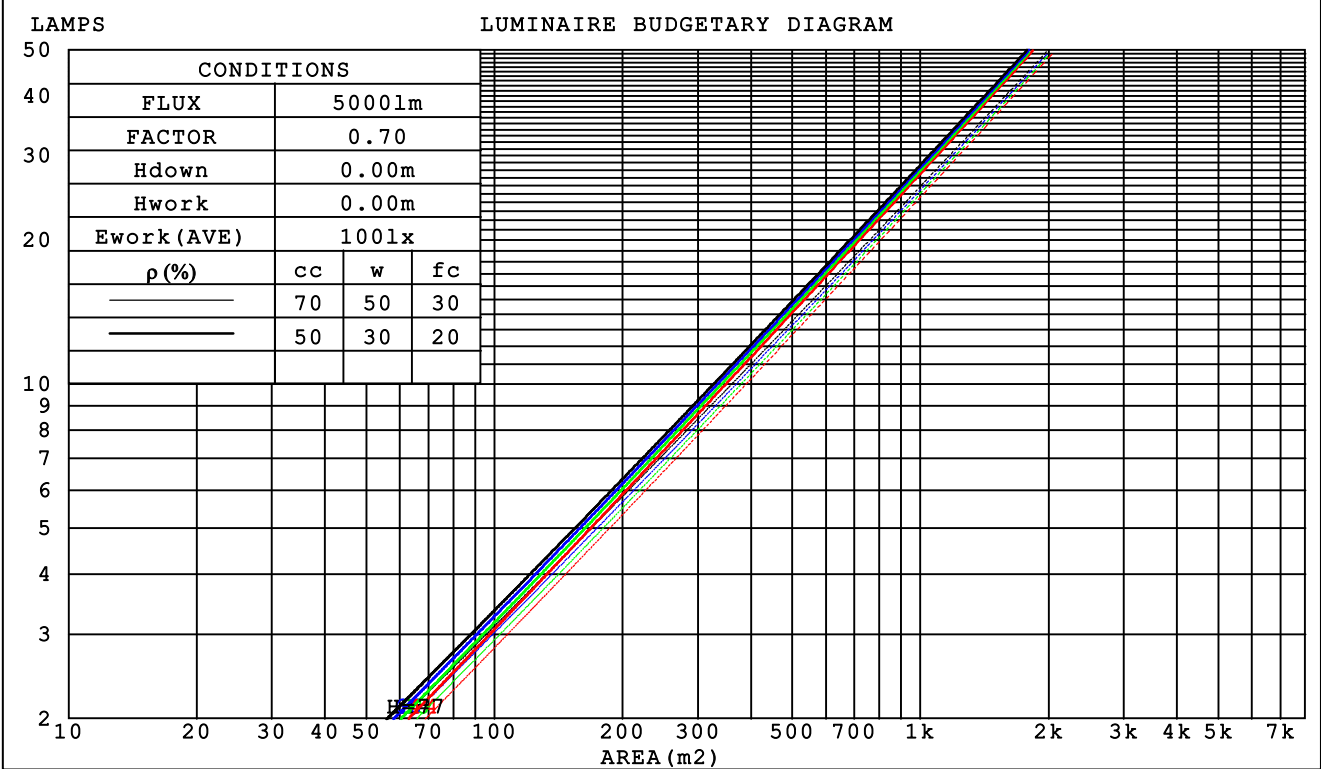
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	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															



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm					
NAME: 6878			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients (WEC)														
0.0																														
1.0	.137	.078	.025	.130	.074	.024	.118	.068	.022	.106	.061	.020	.096	.056	.018															
2.0	.125	.069	.021	.120	.066	.020	.110	.061	.019	.100	.056	.018	.092	.052	.016															
3.0	.116	.062	.018	.111	.060	.018	.103	.056	.017	.095	.052	.016	.088	.048	.015															
4.0	.107	.056	.016	.104	.054	.016	.097	.051	.015	.090	.048	.015	.084	.046	.014															
5.0	.101	.051	.015	.097	.050	.015	.091	.048	.014	.086	.045	.013	.080	.043	.013															
6.0	.095	.047	.014	.092	.046	.013	.087	.044	.013	.082	.042	.012	.077	.041	.012															
7.0	.089	.044	.013	.087	.043	.012	.082	.042	.012	.078	.040	.012	.074	.039	.011															
8.0	.085	.041	.012	.083	.041	.012	.079	.039	.011	.075	.038	.011	.072	.037	.011															
9.0	.081	.039	.011	.079	.038	.011	.075	.037	.011	.072	.036	.010	.069	.035	.010															
10.0	.077	.037	.010	.075	.036	.010	.072	.035	.010	.069	.035	.010	.067	.034	.010															

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.079	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009	
5.0	.111	.085	.066	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.087	.060	.042	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.081	.054	.036	.070	.047	.032	.049	.033	.022	.028	.020	.013	.009	.006	.004	
10.0	.076	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2025-7-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity:60%
 Test Distance:12.350m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm										
NAME: 6878					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	11.8	12.4	12.0	12.5	12.7	12.0	12.7	12.2	12.8	13.0
3H	12.6	13.2	12.9	13.4	13.6	12.9	13.5	13.2	13.7	13.9
4H	13.1	13.7	13.4	13.9	14.1	13.4	14.0	13.7	14.2	14.4
6H	13.6	14.1	13.9	14.4	14.6	13.9	14.4	14.2	14.7	14.9
8H	13.8	14.4	14.1	14.6	14.8	14.2	14.7	14.5	14.9	15.2
12H	14.1	14.6	14.4	14.8	15.1	14.4	14.9	14.7	15.2	15.5
4H 2H	12.1	12.7	12.4	12.9	13.1	12.3	12.9	12.6	13.1	13.3
3H	13.2	13.7	13.5	14.0	14.2	13.4	13.9	13.7	14.2	14.5
4H	13.8	14.3	14.2	14.6	14.9	14.1	14.5	14.4	14.8	15.1
6H	14.5	14.9	14.8	15.2	15.5	14.7	15.1	15.1	15.5	15.8
8H	14.8	15.2	15.2	15.5	15.9	15.1	15.5	15.5	15.8	16.2
12H	15.1	15.5	15.5	15.8	16.2	15.4	15.8	15.8	16.2	16.5
8H 4H	14.1	14.4	14.4	14.8	15.2	14.3	14.7	14.7	15.0	15.4
6H	14.9	15.2	15.3	15.6	16.0	15.1	15.4	15.5	15.8	16.2
8H	15.3	15.6	15.8	16.0	16.5	15.6	15.9	16.0	16.3	16.7
12H	15.8	16.0	16.2	16.5	16.9	16.1	16.3	16.6	16.8	17.3
12H 4H	14.1	14.4	14.5	14.8	15.2	14.3	14.6	14.7	15.0	15.4
6H	15.0	15.2	15.4	15.7	16.1	15.2	15.5	15.6	15.9	16.3
8H	15.5	15.7	15.9	16.1	16.6	15.7	16.0	16.2	16.4	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 1.0 / - 0.5					+ 1.0 / - 0.5				

CIE Pub.117, 766.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.9)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2025-7-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity:60%
 Test Distance:12.350m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

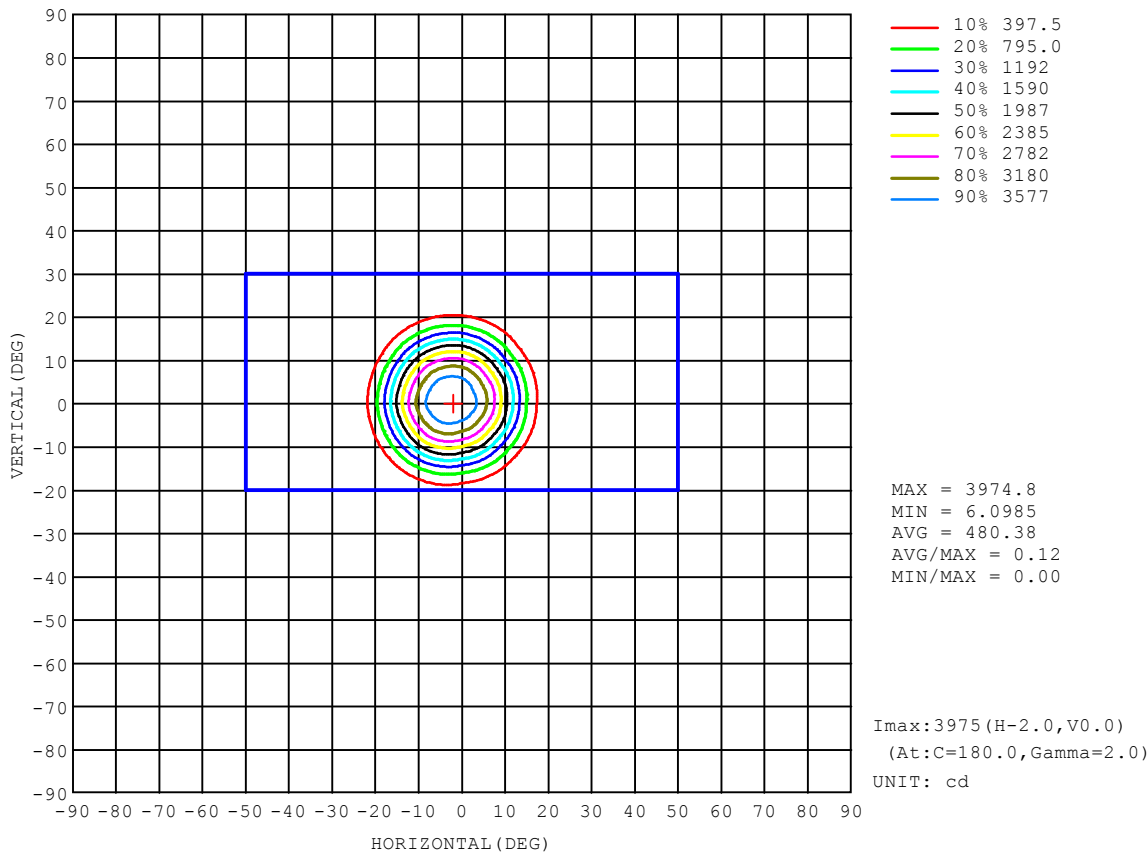
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	80	76
0.80	96	91	88	96	91	87	95	90	87	84
1.00	100	95	92	100	95	91	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	101	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
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: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2025-7-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity: 60%
 Test Distance: 12.350m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

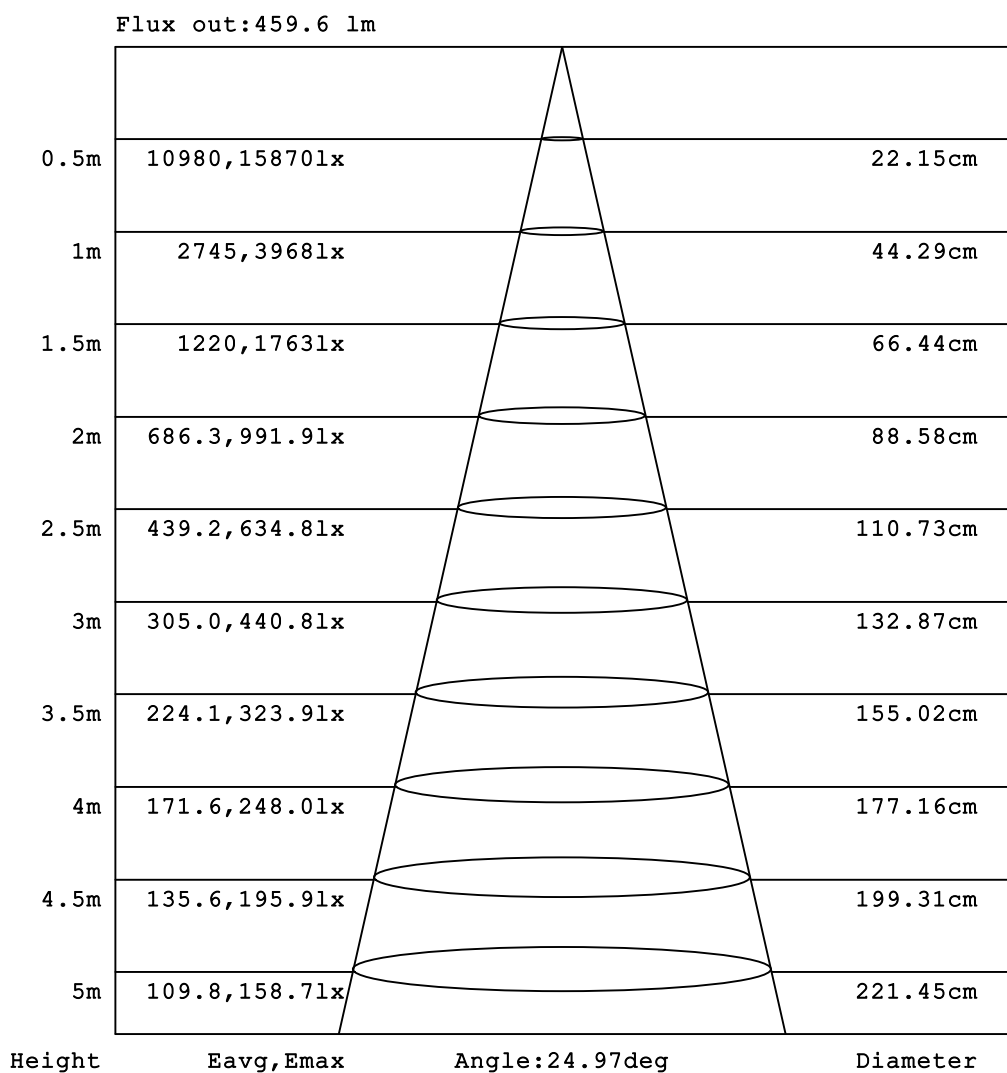


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

AAI Figure

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



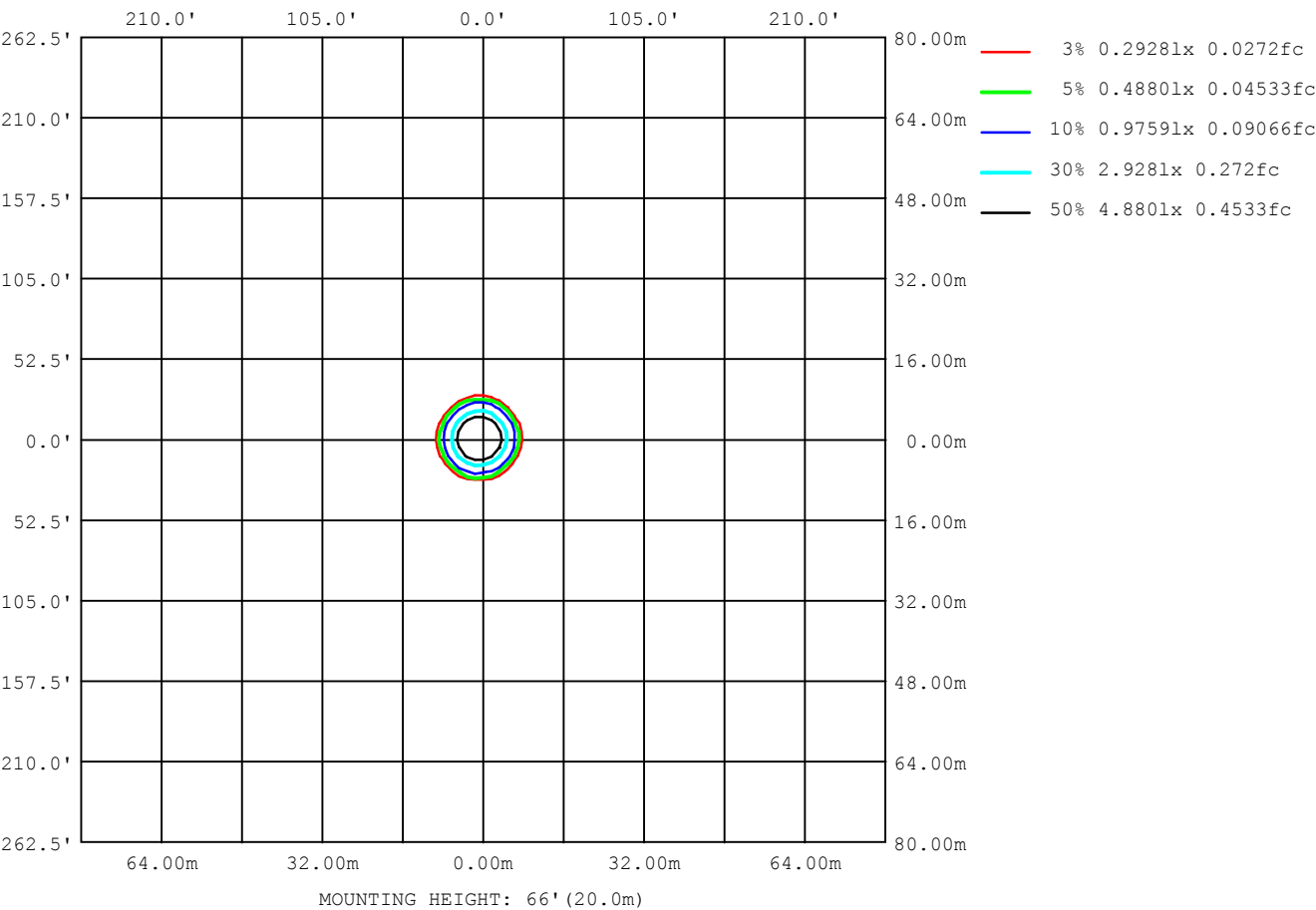
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2025-7-15

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity:60%
 Test Distance:12.350m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

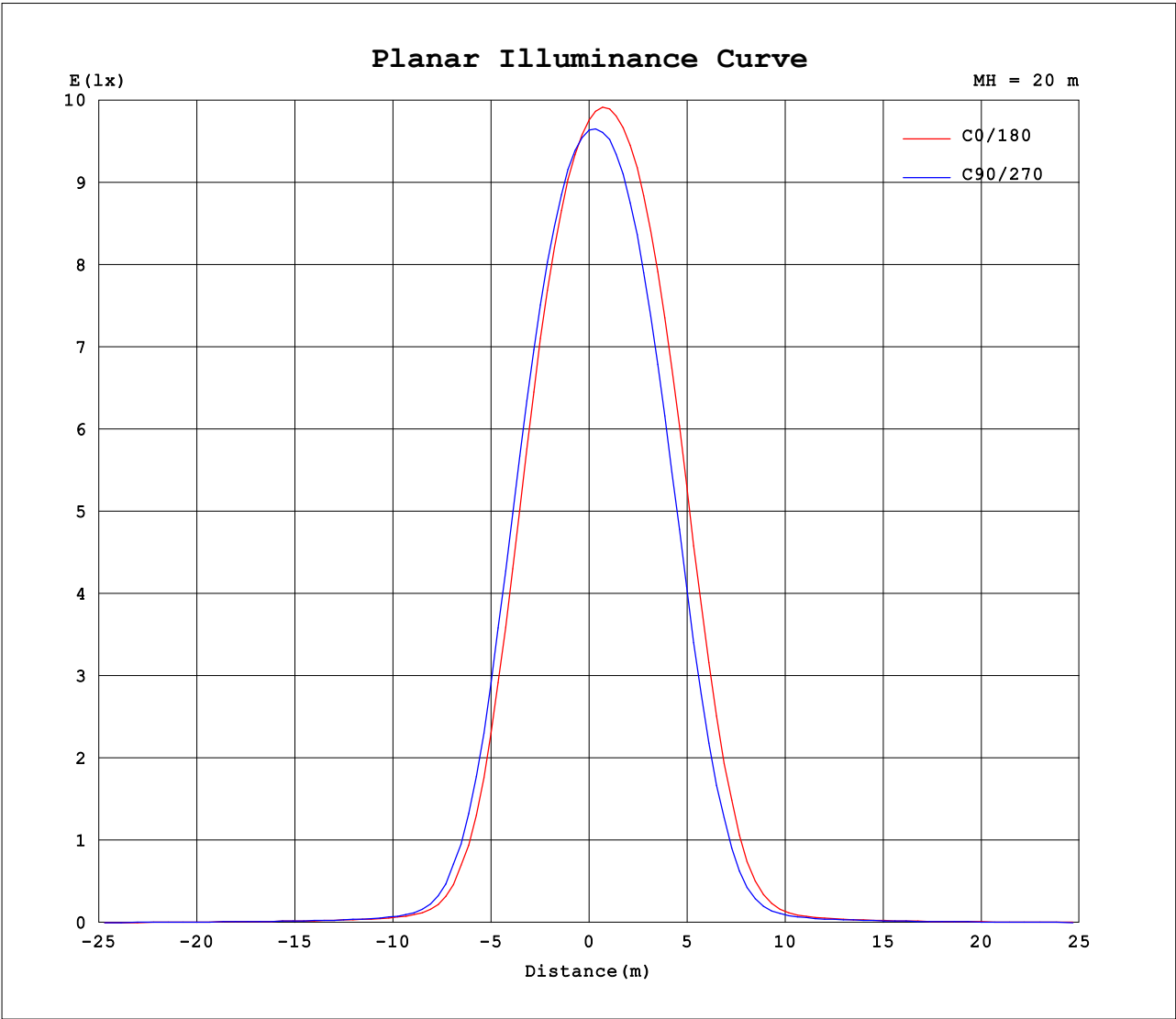
AvgL	cd/m2
L_0~180 (65) av	7674
L_0~180 (75) av	7664
L_0~180 (85) av	13606
L_90~270 (65) av	7561
L_90~270 (75) av	7639
L_90~270 (85) av	13217
L_45 (65) av	7814
L_45 (75) av	8132
L_45 (85) av	15886

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1847A P:8.8651W PF:1.0000 Freq:49.99Hz Lamp Flux:766.64x1 lm		
NAME: 6878	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

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