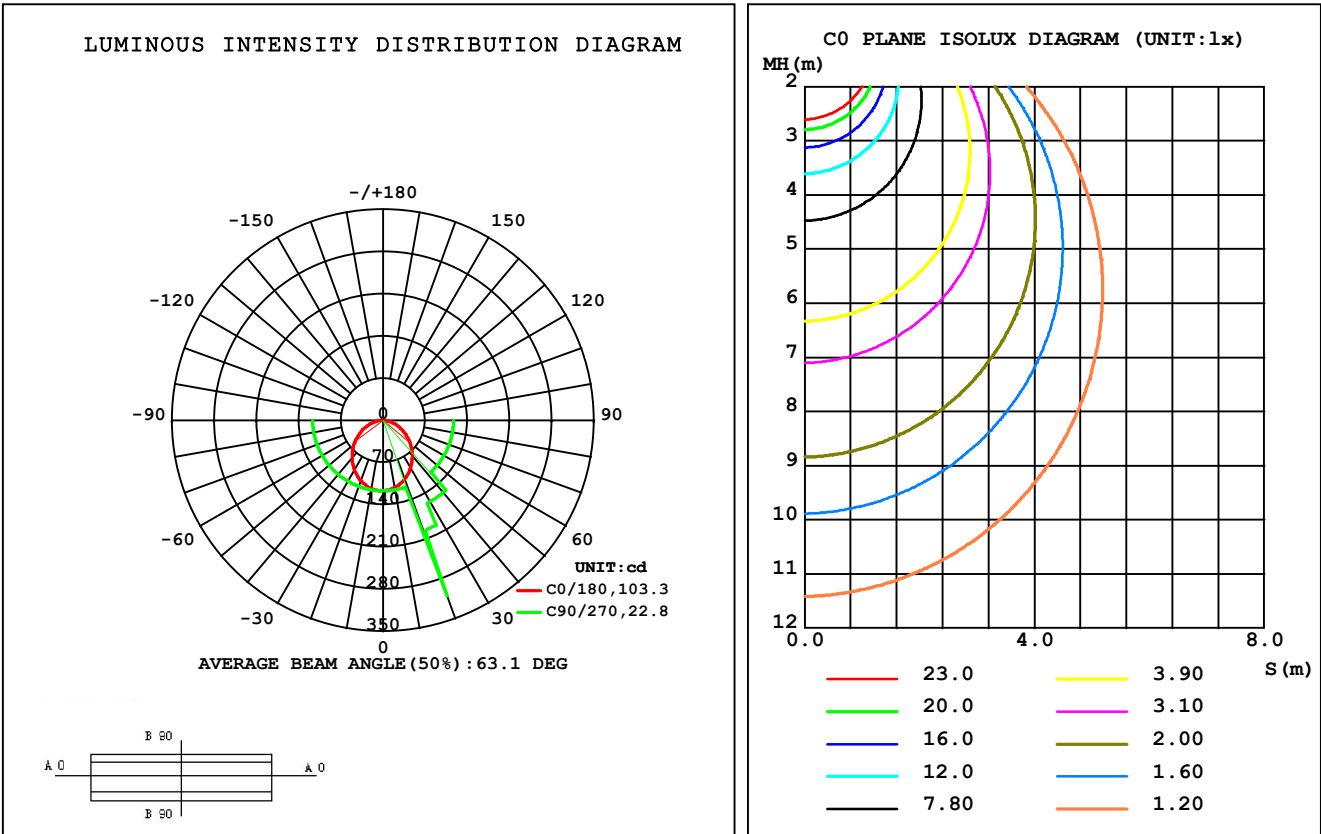


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 33.71 lm/W
MODEL		I _{max} (cd)	310.3	S/MH (C0/180)	1.22	
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	1.53	
RATED VOLTAGE (V)	DC48	TOTAL FLUX (lm)	275.08	η UP, DN (C0-180)	0.0, 46.9	
NOMINAL FLUX (lm)	275.08	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	0.70	



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:

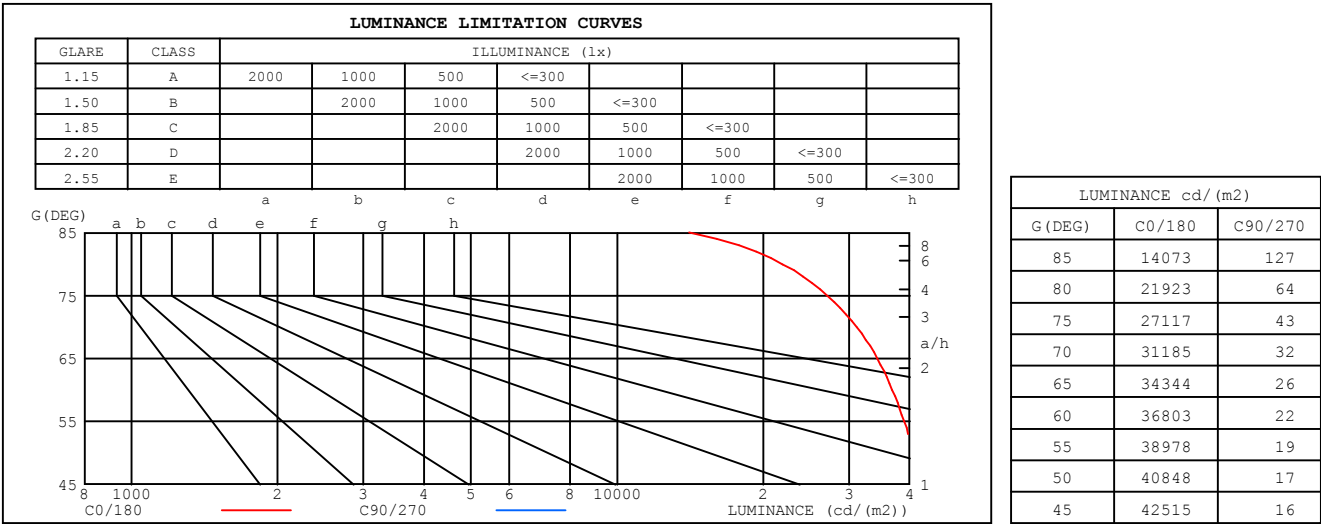
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	113.5	111.3	117.2	112.7	115.1	115.9	117.2	114.4	0~ 10	11.02	11.02	4.01,4.01
20	104.6	100.0	310.3	101.6	107.6	107.4	117.2	104.4	10~ 20	30.90	41.92	15.2,15.2
30	91.64	84.57	156.3	85.73	95.67	93.69	117.2	89.68	20~ 30	44.93	86.85	31.6,31.6
40	76.04	66.77	156.3	68.20	80.66	76.83	117.2	72.37	30~ 40	51.27	138.1	50.2,50.2
50	59.07	47.42	117.2	50.25	63.93	59.08	117.2	54.07	40~ 50	49.86	188.0	68.3,68.3
60	41.39	30.29	117.2	31.38	46.41	41.17	117.2	36.10	50~ 60	41.61	229.6	83.5,83.5
70	23.99	13.48	117.2	15.39	28.98	23.92	117.2	19.10	60~ 70	28.90	258.5	94,94
80	8.564	0.8300	117.2	2.170	12.72	8.667	117.2	5.030	70~ 80	13.92	272.4	99,99
90	0.0828	0.0826	117.2	0.0249	0.8284	0.1735	117.2	0.0499	80~ 90	2.678	275.1	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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



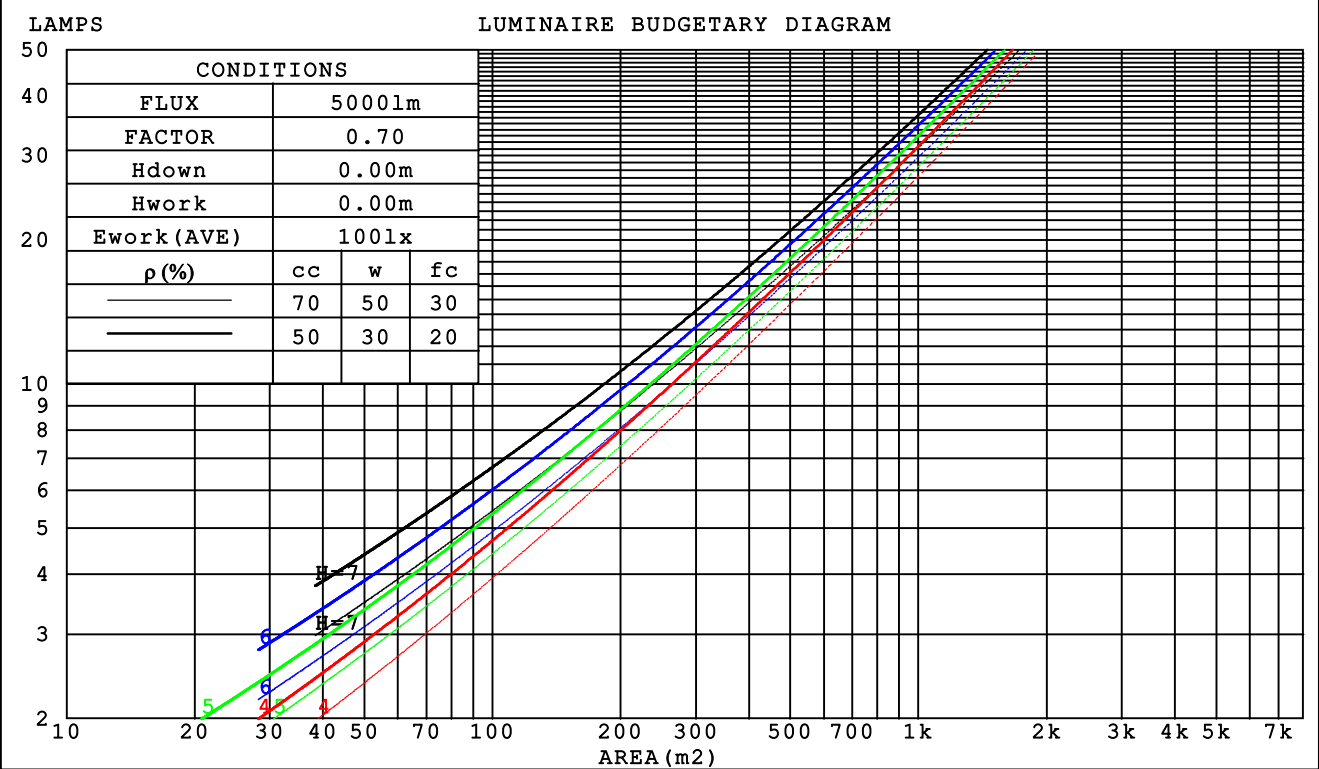
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm																
NAME: 6867							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															
	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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.68	.78	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.63	.57	.67	.61	.56	.65	.60	.56	.54
5.0	.66	.57	.51	.65	.56	.50	.62	.55	.50	.61	.54	.49	.59	.53	.49	.47
6.0	.59	.51	.45	.58	.50	.44	.57	.49	.44	.55	.49	.44	.53	.48	.43	.41
7.0	.54	.46	.40	.53	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.49	.41	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27



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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm					
NAME: 6867			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	.282	.161	.051	.275	.157	.050	.262	.150	.048	.250	.144	.046	.239	.139	.045	
2.0	.270	.148	.045	.264	.146	.045	.253	.141	.044	.242	.136	.043	.232	.131	.041	
3.0	.253	.135	.040	.248	.133	.040	.238	.129	.039	.228	.125	.038	.219	.121	.038	
4.0	.236	.122	.036	.231	.121	.036	.222	.118	.035	.213	.115	.035	.206	.112	.034	
5.0	.219	.112	.032	.215	.110	.032	.207	.108	.032	.200	.105	.031	.193	.103	.031	
6.0	.204	.102	.029	.201	.101	.029	.193	.099	.029	.187	.097	.029	.181	.095	.028	
7.0	.191	.094	.027	.188	.093	.027	.181	.092	.026	.175	.090	.026	.170	.088	.026	
8.0	.179	.087	.025	.176	.087	.024	.170	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.168	.081	.023	.166	.081	.023	.161	.079	.022	.156	.078	.022	.151	.077	.022	
10.0	.159	.076	.021	.156	.075	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

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	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.153	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.125	.078	.042	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.082	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.008	.013	.007	.003	

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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm										
NAME: 6867					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	30.5	31.9	30.7	32.1	32.3	24.6	26.0	24.8	26.2	26.4
3H	31.8	33.1	32.0	33.3	33.5	24.7	26.0	25.0	26.3	26.5
4H	32.2	33.5	32.5	33.7	34.0	24.7	25.9	25.0	26.2	26.4
6H	32.5	33.7	32.8	33.9	34.2	24.6	25.7	24.9	26.0	26.3
8H	32.6	33.7	32.9	34.0	34.3	24.5	25.7	24.8	25.9	26.2
12H	32.6	33.7	32.9	34.0	34.3	24.5	25.6	24.8	25.8	26.1
4H 2H	30.6	31.9	30.9	32.1	32.4	26.3	27.6	26.7	27.9	28.1
3H	32.1	33.2	32.4	33.5	33.8	26.7	27.8	27.1	28.1	28.4
4H	32.6	33.6	33.0	33.9	34.3	26.7	27.7	27.1	28.0	28.4
6H	33.0	33.8	33.3	34.2	34.6	26.6	27.5	27.0	27.9	28.2
8H	33.1	33.9	33.5	34.2	34.6	26.6	27.4	27.0	27.8	28.2
12H	33.1	33.9	33.5	34.2	34.6	26.5	27.3	27.0	27.7	28.1
8H 4H	32.5	33.4	33.0	33.7	34.1	27.1	27.9	27.5	28.3	28.7
6H	32.9	33.6	33.4	34.0	34.4	27.0	27.7	27.5	28.1	28.5
8H	33.1	33.7	33.5	34.1	34.5	27.0	27.6	27.4	28.0	28.5
12H	33.1	33.7	33.6	34.1	34.6	26.9	27.5	27.4	27.9	28.4
12H 4H	32.5	33.3	32.9	33.6	34.0	27.1	27.8	27.5	28.2	28.6
6H	32.9	33.5	33.3	33.9	34.4	27.0	27.6	27.5	28.1	28.5
8H	33.0	33.5	33.5	34.0	34.5	27.0	27.5	27.5	28.0	28.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.9 / - 0.8				
1.5H	+ 0.2 / - 0.3					+ 1.4 / - 1.9				
2.0H	+ 0.6 / - 0.8					+ 2.3 / - 3.1				

CIE Pub.117, 275.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -4.5$)

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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

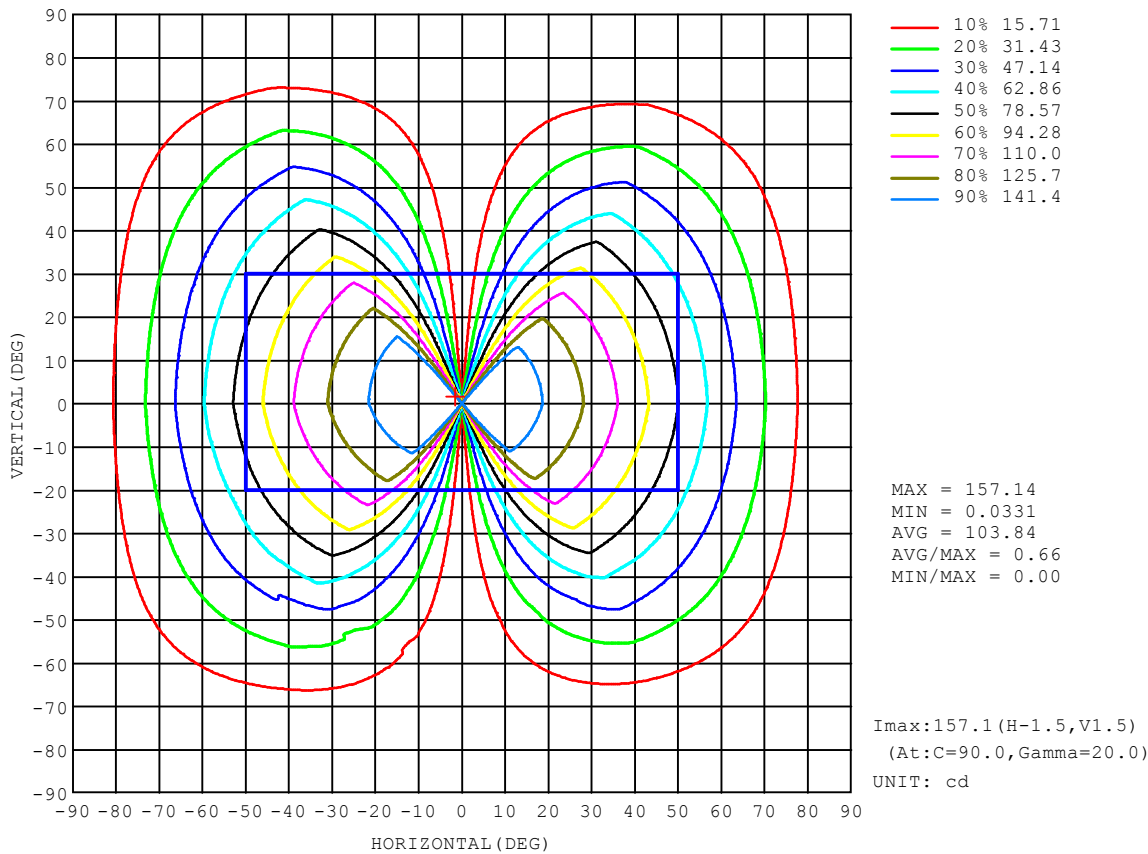
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	61	50	43	60	49	43	59	49	43	37
0.80	71	60	53	70	59	53	68	59	52	46
1.00	79	69	62	78	68	62	76	69	61	54
1.25	86	76	70	85	76	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	86
5.00	110	105	102	107	103	100	103	100	97	88
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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

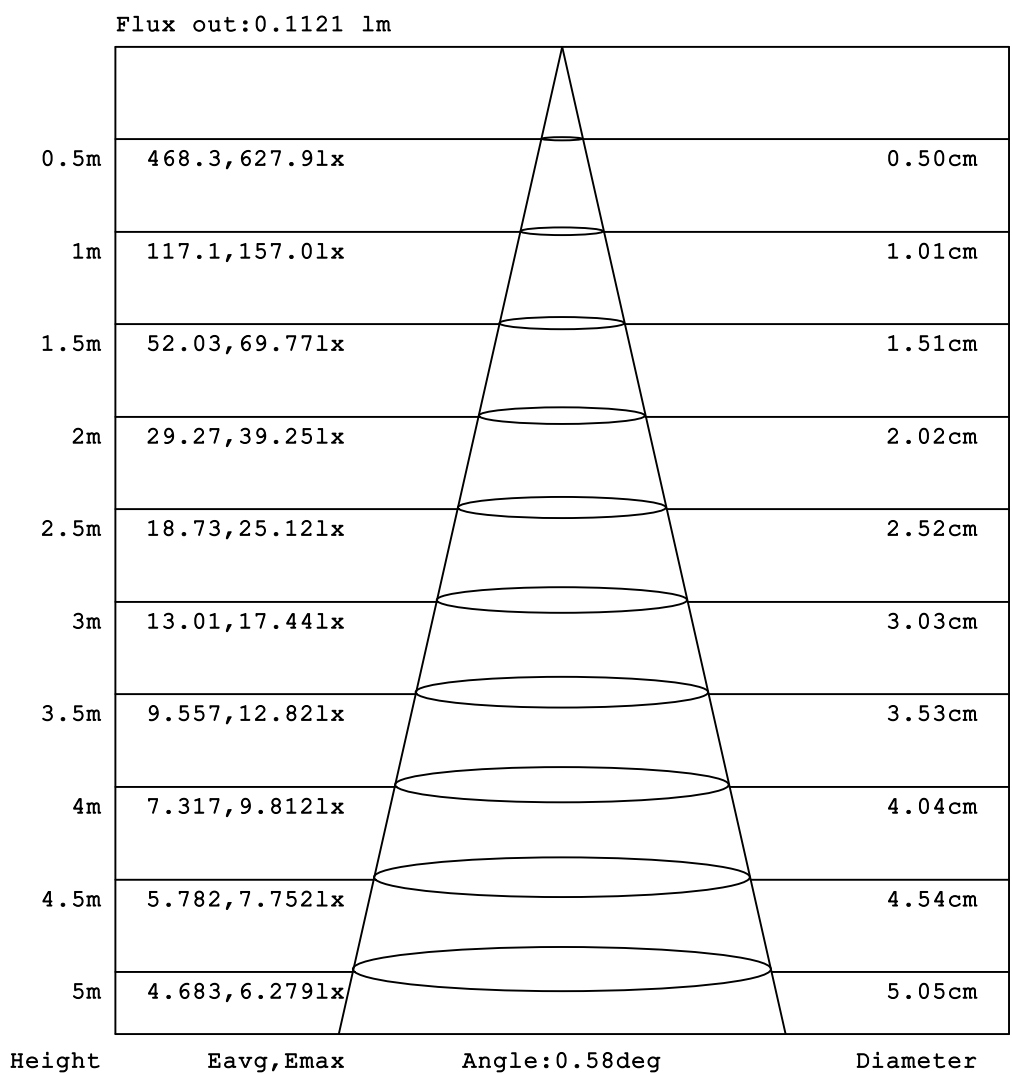


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-7-15

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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



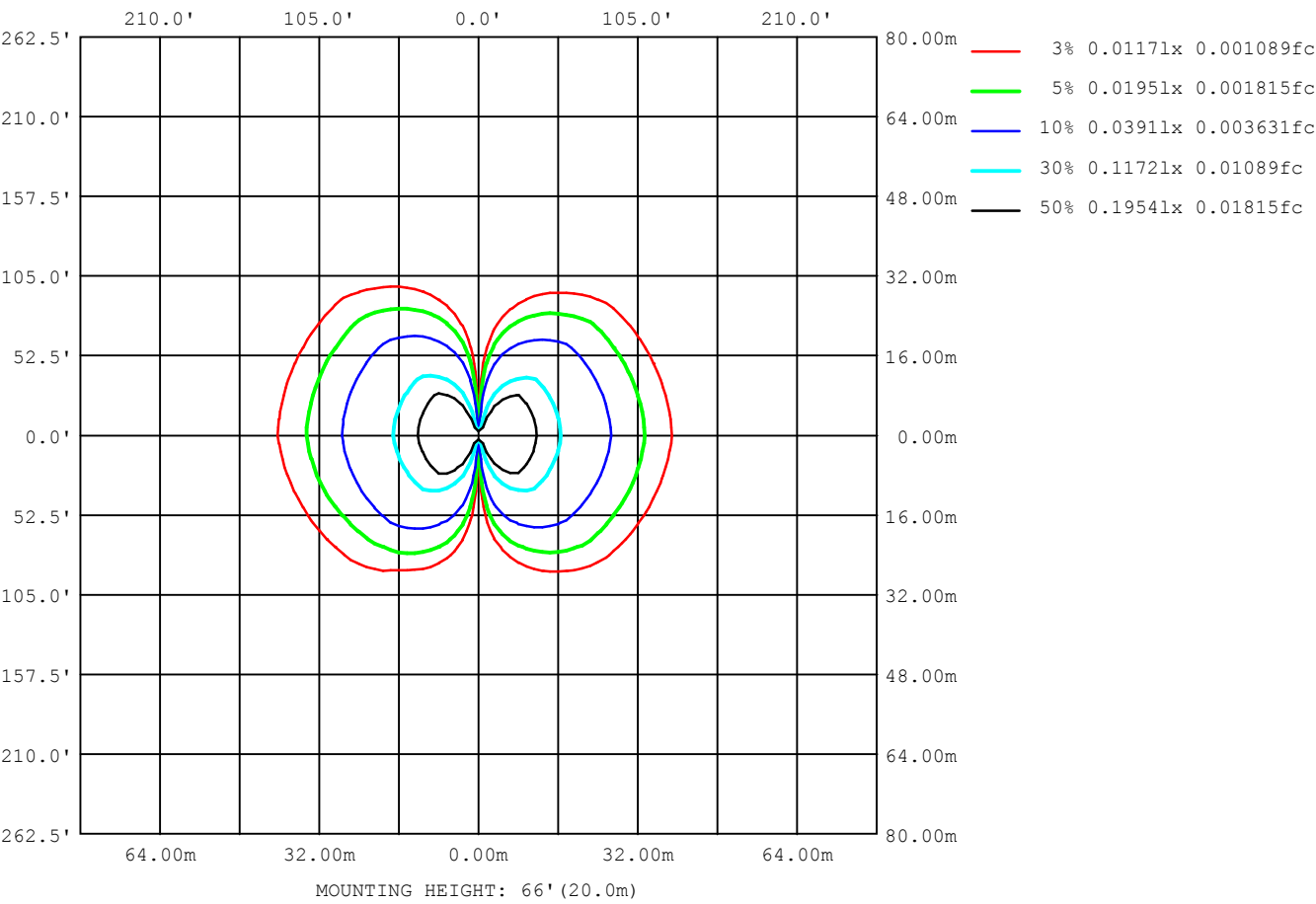
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

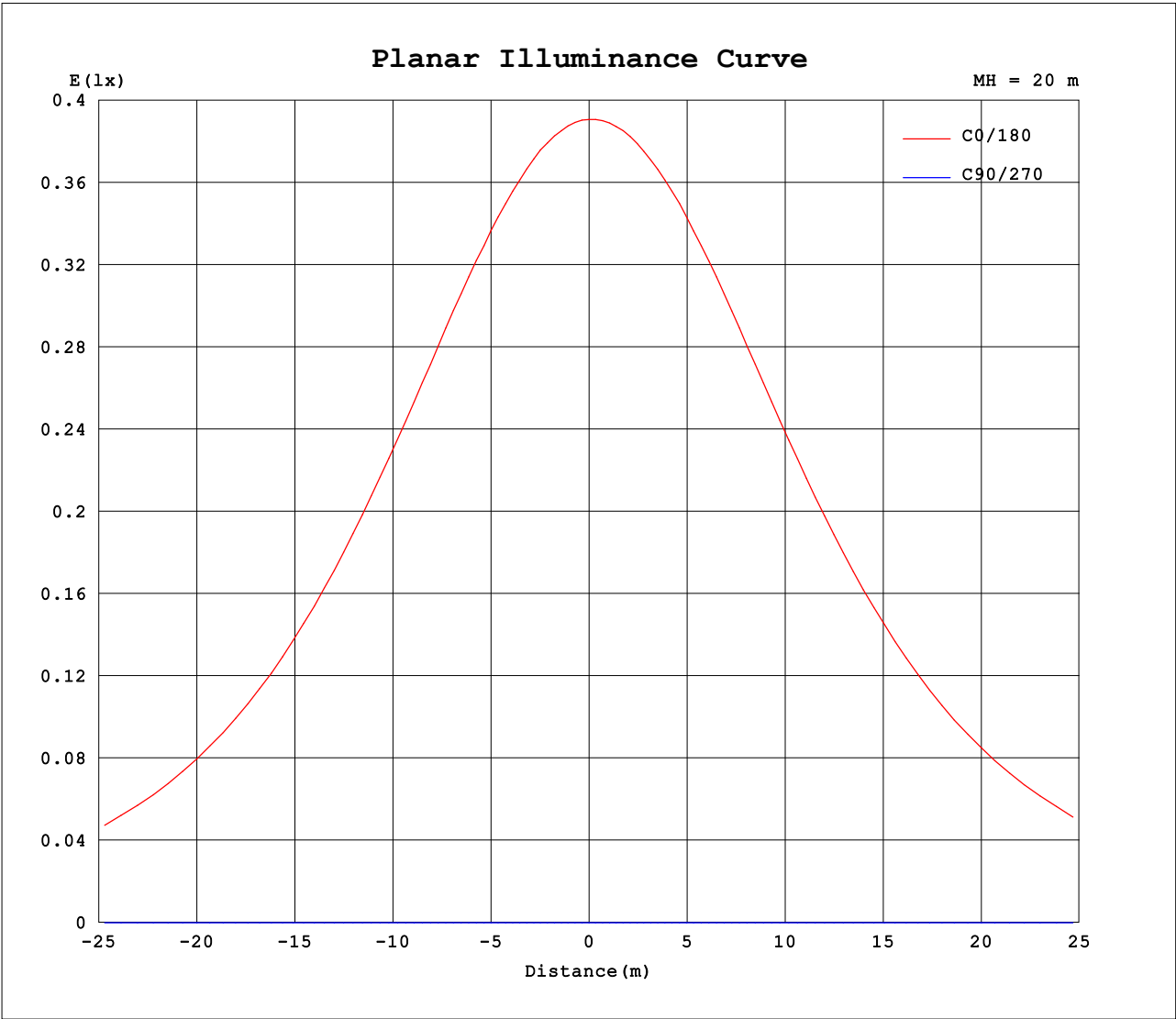
AvgL	cd/m2
L_0~180 (65) av	27699
L_0~180 (75) av	23416
L_0~180 (85) av	16754
L_90~270 (65) av	92452
L_90~270 (75) av	150963
L_90~270 (85) av	448301
L_45 (65) av	20635
L_45 (75) av	13494
L_45 (85) av	3462

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:0.1700A P:8.1595W PF:1.0000 Freq:49.99Hz Lamp Flux:275.08x1 lm		
NAME: 6867	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

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

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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:

```