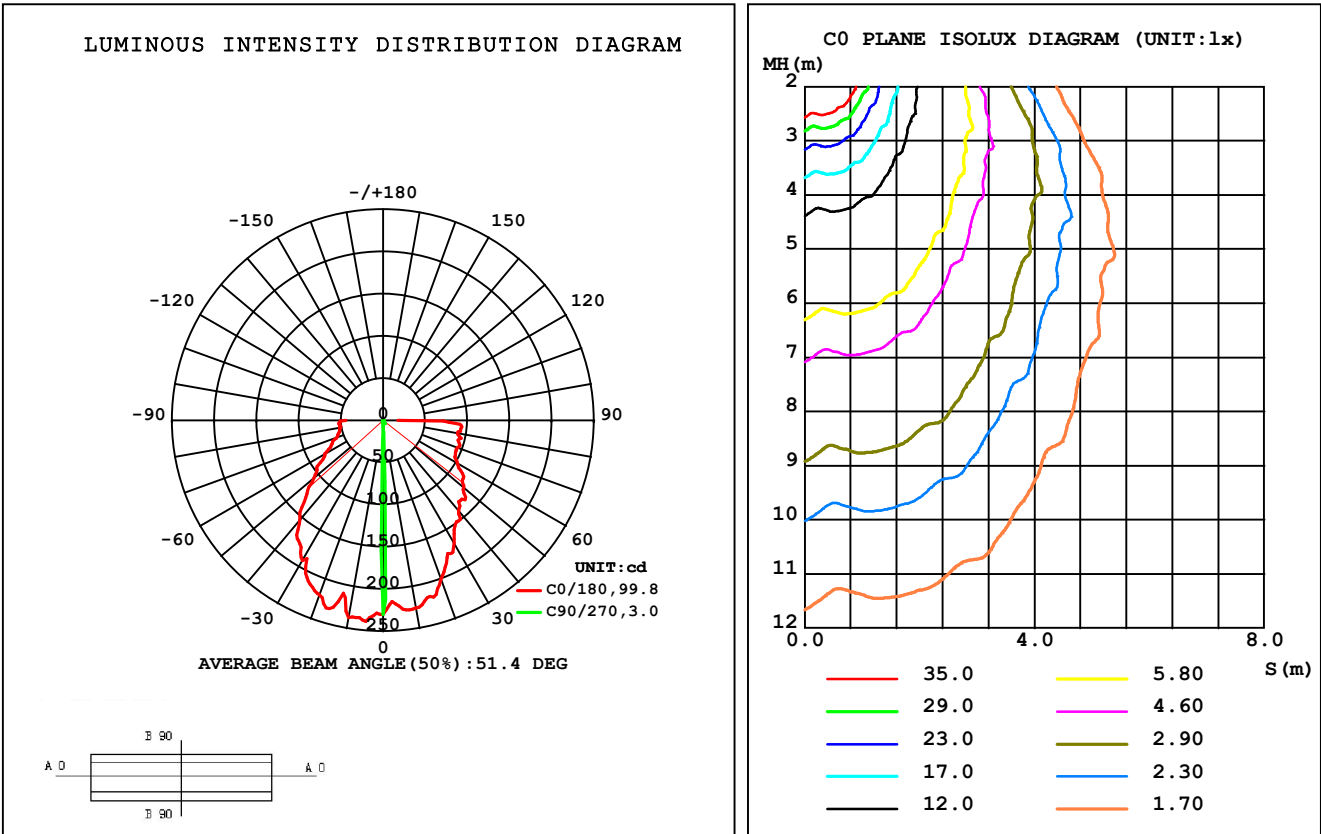


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm					
NAME: 6872		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 36.80 lm/W
MODEL		I _{max} (cd)	239.0	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.04	
RATED VOLTAGE (V)	DC48	TOTAL FLUX (lm)	181.76	η UP, DN (C0-180)	0.0, 53.5	
NOMINAL FLUX (lm)	181.76	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.5	
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: 2025-6-24

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:

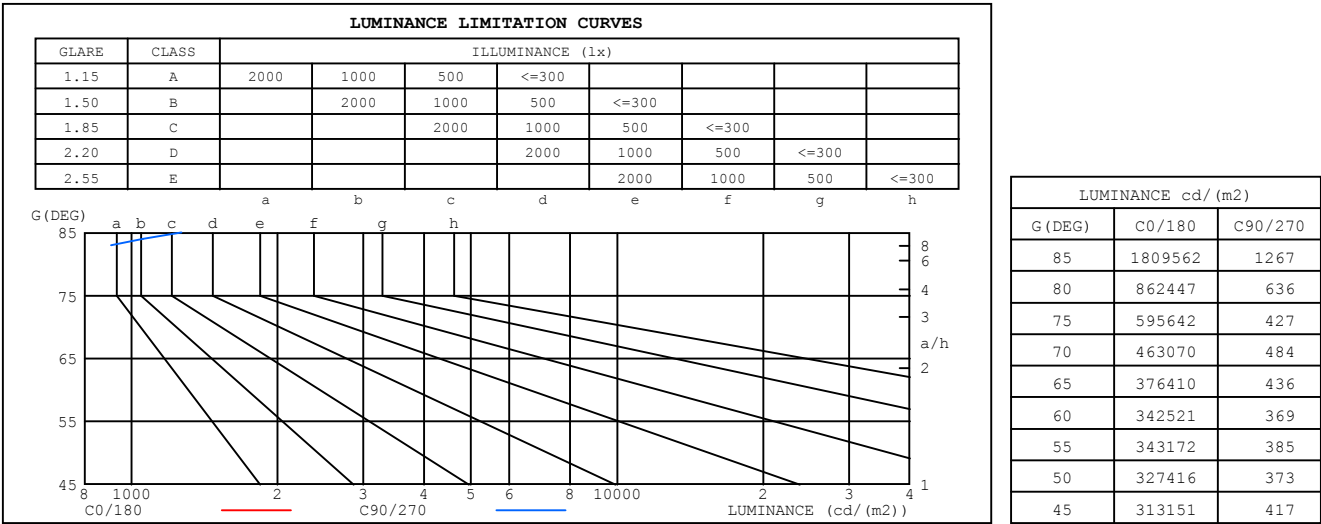
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	226.0	3.387	2.545	3.319	237.1	2.807	1.791	2.649	0~ 10	6.632	6.632	3.65,3.65
20	201.0	1.940	4.749	2.294	220.7	2.833	2.694	2.855	10~ 20	16.23	22.87	12.6,12.6
30	168.5	5.029	1.075	4.559	192.2	2.937	0.8390	2.493	20~ 30	23.67	46.53	25.6,25.6
40	140.1	1.915	0.2656	1.349	153.5	1.530	0.1769	1.153	30~ 40	26.59	73.13	40.2,40.2
50	125.5	0.7640	0.1441	0.3982	107.1	0.7760	0.0553	0.4882	40~ 50	26.05	99.18	54.6,54.6
60	102.1	0.3209	0.1107	0.0996	79.81	0.3881	0.0553	0.2438	50~ 60	23.52	122.7	67.5,67.5
70	94.42	0.1548	0.0995	0.0664	58.28	0.2107	0.0553	0.1440	60~ 70	20.52	143.2	78.8,78.8
80	89.29	0.0554	0.0663	0.0664	52.33	0.1440	0.0553	0.1107	70~ 80	19.77	163.0	89.7,89.7
90	17.84	0.0886	0.0663	0.0664	44.21	0.0886	0.0553	0.0775	80~ 90	18.78	181.8	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:2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



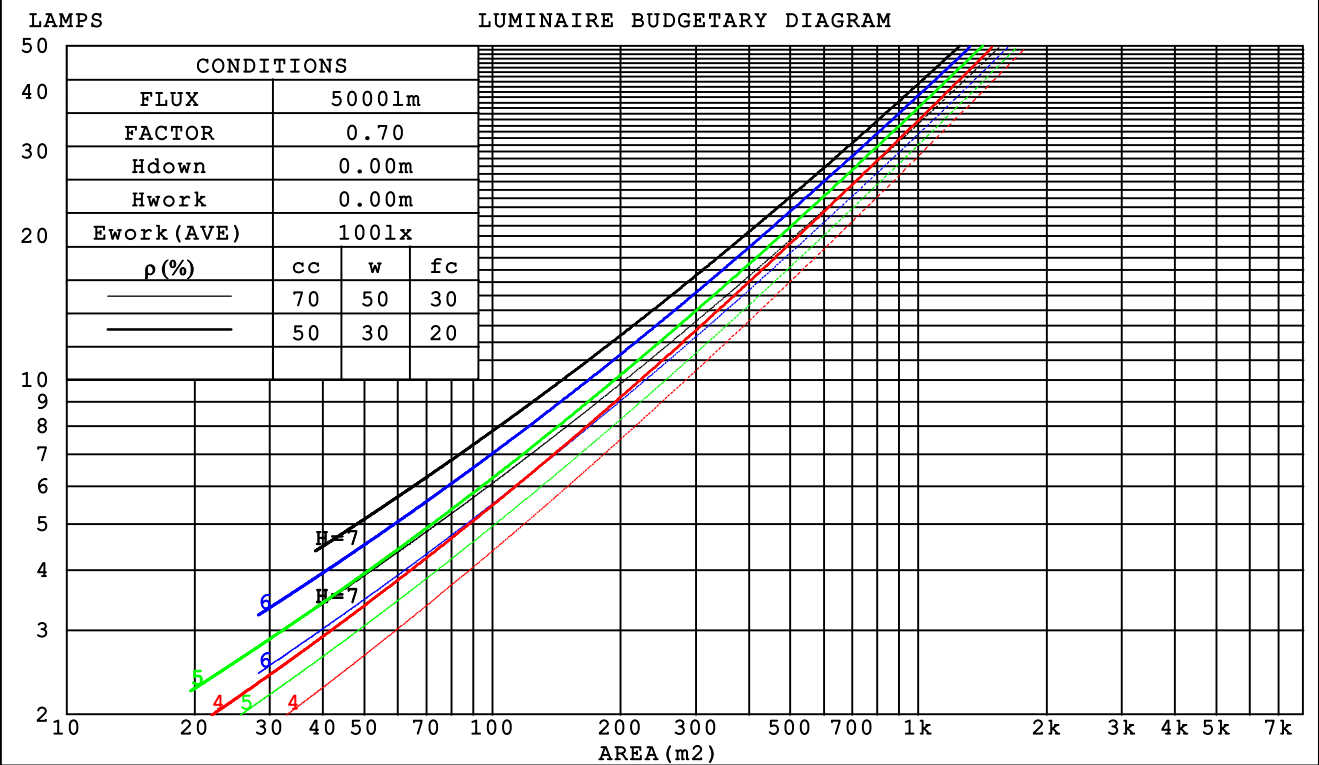
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	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:2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm						
NAME: 6872			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	.410	.233	.074	.403	.230	.073	.389	.223	.071	.377	.217	.070	.365	.212	.068		
2.0	.346	.189	.058	.339	.187	.058	.327	.182	.056	.316	.177	.055	.305	.173	.054		
3.0	.303	.161	.048	.298	.159	.048	.287	.155	.047	.277	.152	.047	.268	.148	.046		
4.0	.271	.141	.041	.266	.139	.041	.257	.136	.041	.248	.133	.040	.240	.130	.040		
5.0	.245	.125	.036	.241	.124	.036	.233	.121	.036	.225	.119	.035	.217	.116	.035		
6.0	.224	.112	.032	.220	.111	.032	.213	.109	.032	.206	.107	.031	.200	.105	.031		
7.0	.207	.102	.029	.203	.101	.029	.197	.099	.029	.190	.098	.028	.185	.096	.028		
8.0	.192	.094	.026	.188	.093	.026	.183	.091	.026	.177	.090	.026	.172	.088	.026		
9.0	.178	.086	.024	.176	.086	.024	.170	.084	.024	.165	.083	.024	.161	.082	.024		
10.0	.167	.080	.022	.165	.079	.022	.160	.078	.022	.155	.077	.022	.151	.076	.022		

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	.187	.155	.126	.160	.133	.109	.110	.092	.075	.063	.053	.044	.020	.017	.014	
2.0	.179	.132	.091	.154	.113	.079	.105	.078	.055	.061	.046	.032	.019	.015	.011	
3.0	.171	.115	.070	.147	.099	.060	.101	.069	.042	.058	.040	.025	.019	.013	.008	
4.0	.162	.101	.055	.139	.088	.048	.096	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.146	.083	.038	.125	.072	.033	.087	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.138	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.056	.022	.075	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.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: 2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm										
NAME: 6872					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	40.3	41.9	40.6	42.1	42.3	16.4	18.0	16.7	18.2	18.4
3H	43.8	45.3	44.1	45.5	45.8	16.2	17.7	16.5	17.9	18.2
4H	45.9	47.3	46.2	47.6	47.8	16.1	17.5	16.4	17.8	18.0
6H	48.2	49.6	48.5	49.9	50.2	16.0	17.3	16.3	17.6	17.9
8H	49.6	50.9	49.9	51.2	51.5	15.9	17.2	16.3	17.5	17.8
12H	51.2	52.5	51.5	52.8	53.1	15.9	17.2	16.2	17.5	17.8
4H 2H	40.0	41.5	40.4	41.7	42.0	26.9	28.3	27.2	28.6	28.9
3H	43.8	45.1	44.1	45.4	45.7	26.7	28.0	27.0	28.3	28.6
4H	46.1	47.3	46.5	47.7	48.0	26.5	27.7	26.9	28.1	28.4
6H	48.8	49.9	49.2	50.3	50.6	26.4	27.5	26.8	27.9	28.3
8H	50.4	51.4	50.8	51.8	52.2	26.4	27.4	26.8	27.8	28.2
12H	52.3	53.3	52.7	53.6	54.1	26.3	27.3	26.8	27.7	28.1
8H 4H	46.0	47.0	46.4	47.4	47.8	32.5	33.6	32.9	33.9	34.3
6H	48.9	49.8	49.4	50.2	50.6	32.4	33.3	32.9	33.7	34.2
8H	50.7	51.5	51.2	52.0	52.4	32.4	33.2	32.8	33.6	34.1
12H	53.0	53.7	53.4	54.1	54.6	32.3	33.1	32.8	33.5	34.0
12H 4H	46.0	46.9	46.4	47.3	47.7	35.2	36.2	35.6	36.6	37.0
6H	48.9	49.7	49.3	50.1	50.6	35.3	36.1	35.7	36.5	36.9
8H	50.7	51.4	51.2	51.9	52.4	35.2	35.9	35.7	36.4	36.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				
1.5H	+ 0.5 / - 0.4					+ 0.6 / - 0.3				
2.0H	+ 0.7 / - 0.6					+ 1.0 / - 0.9				

CIE Pub.117, 181.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.9)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

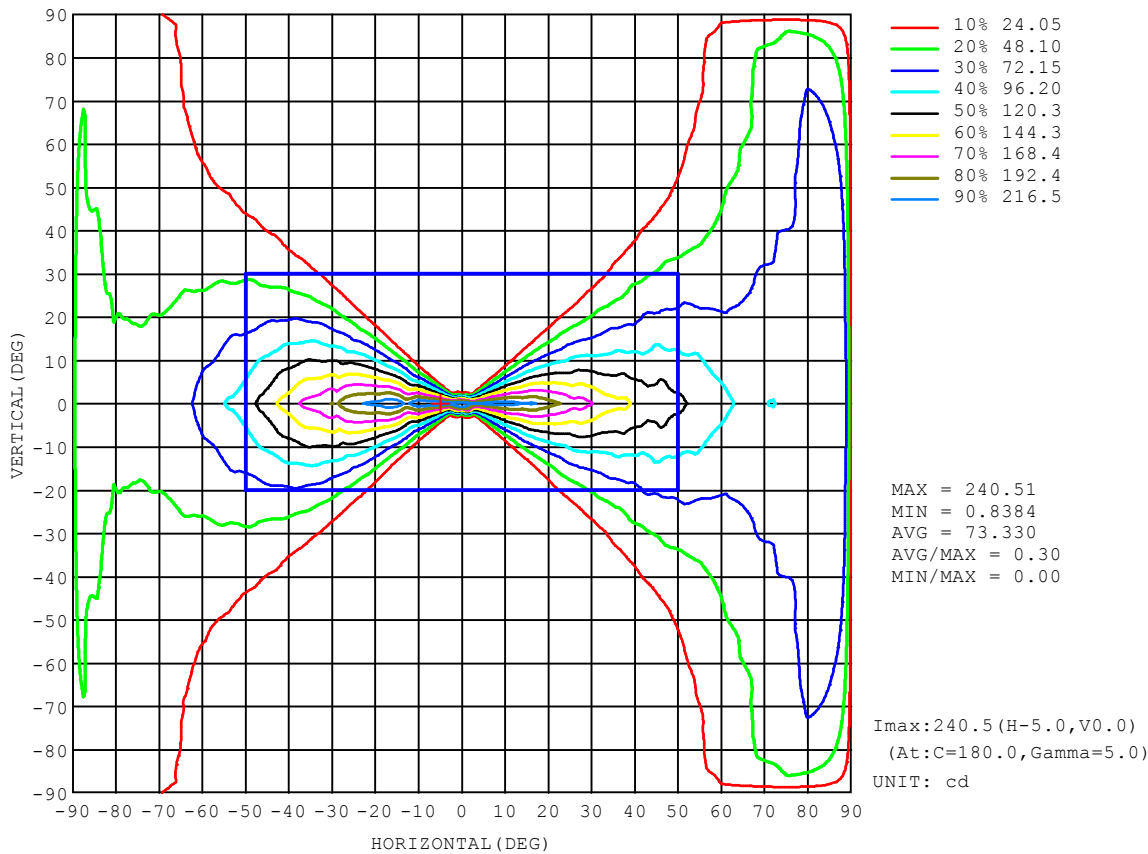
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	36	55	43	36	54	43	36	30
0.80	65	52	45	64	52	45	62	51	44	37
1.00	72	60	52	71	60	52	69	61	51	44
1.25	79	67	59	77	66	59	74	65	58	50
1.50	84	72	64	82	71	64	79	70	63	55
2.00	90	80	72	88	79	72	84	77	70	61
2.50	94	85	78	92	83	77	88	81	75	66
3.00	98	89	82	95	88	81	91	84	79	70
4.00	102	95	89	99	93	87	95	89	85	75
5.00	105	98	93	102	96	91	97	93	88	78
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: 2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

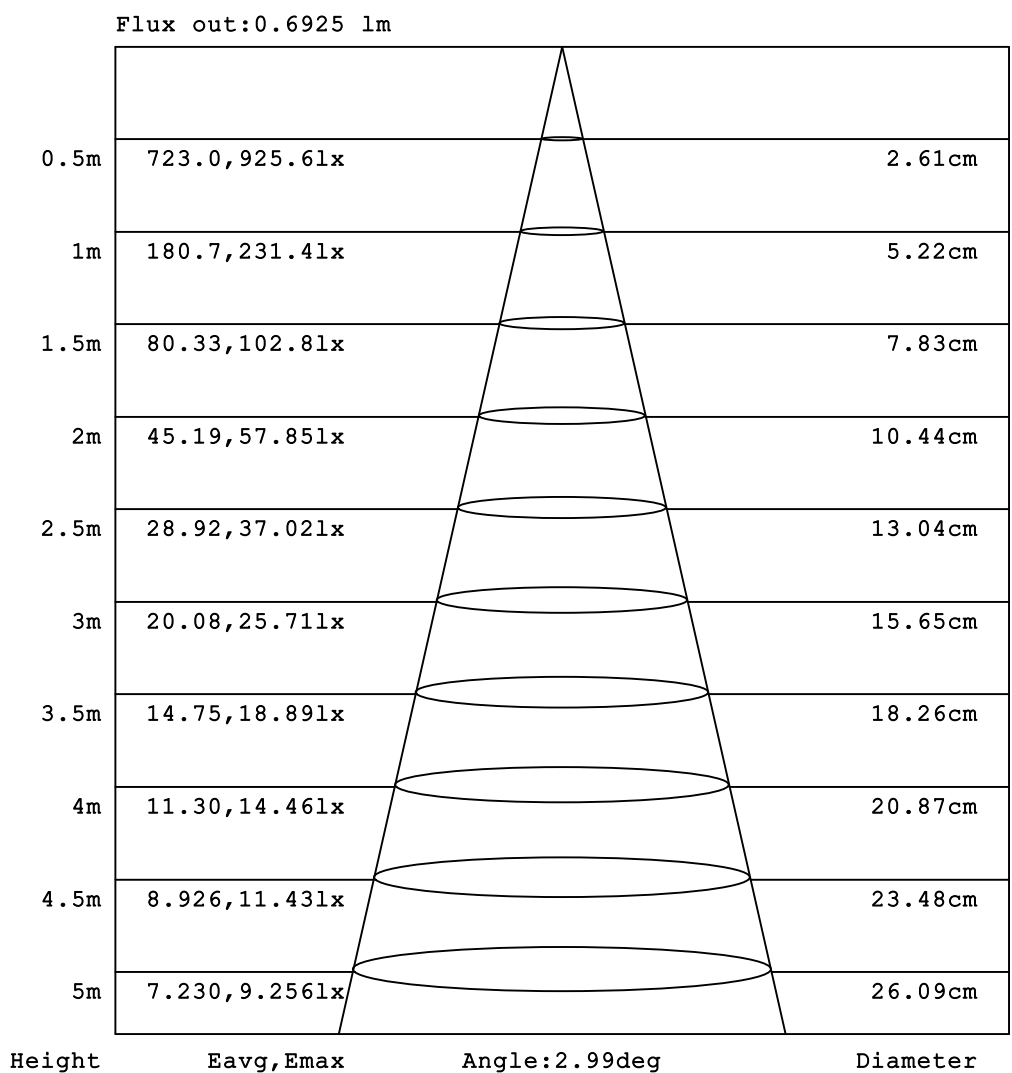


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



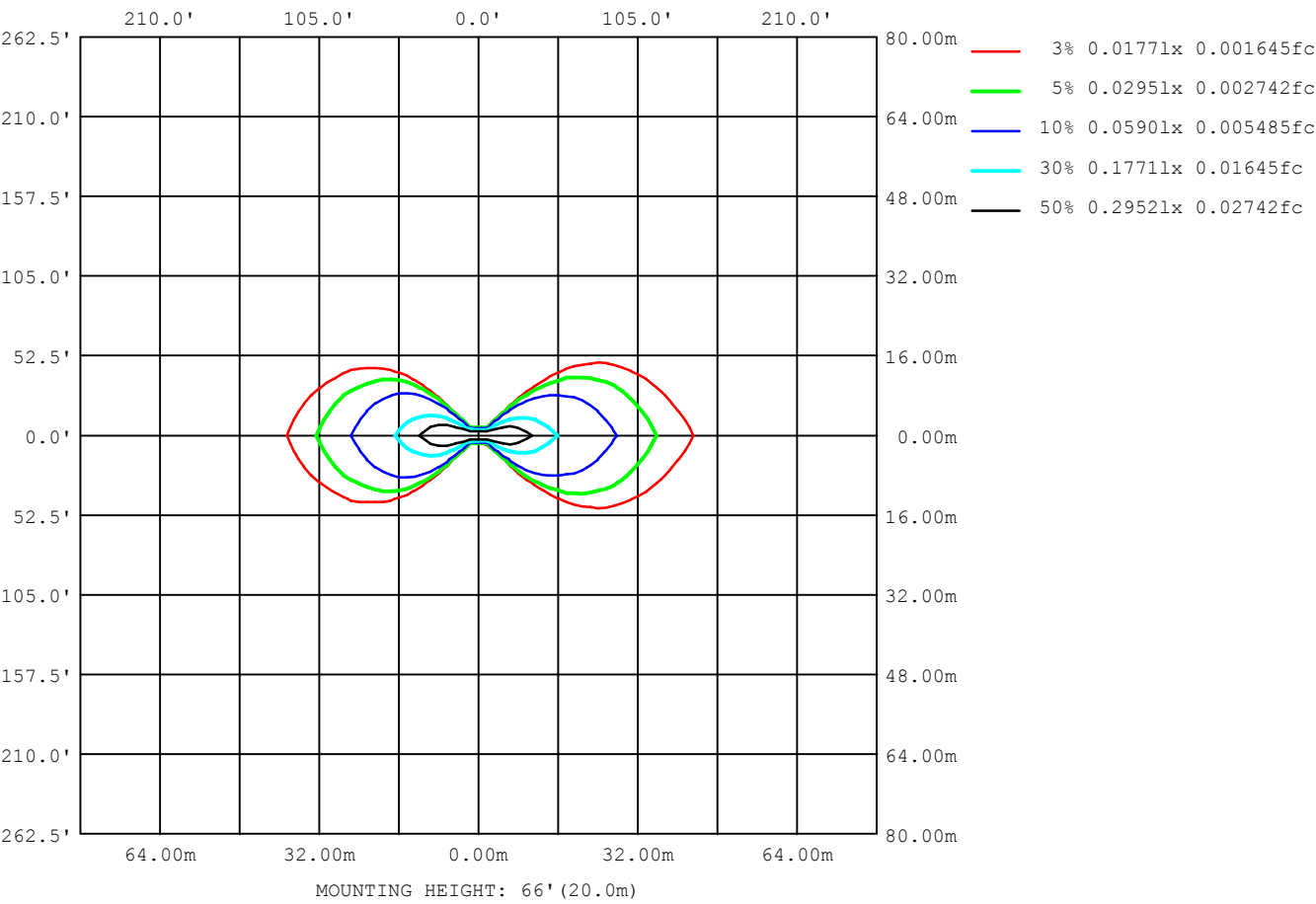
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 彭金英
Test Date: 2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	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:2025-6-24

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:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

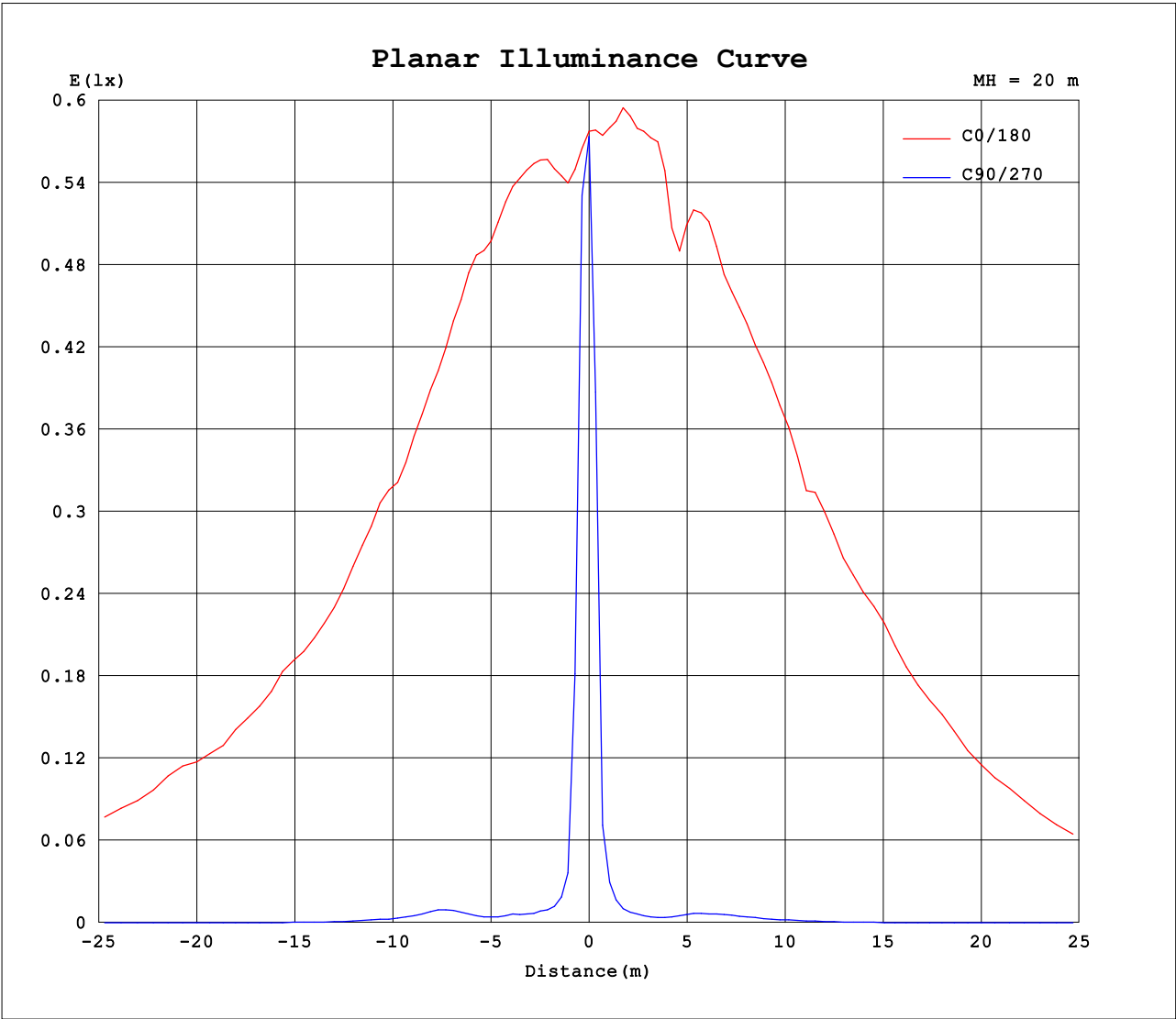
AvgL	cd/m2
L_0~180 (65) av	319636
L_0~180 (75) av	468450
L_0~180 (85) av	1401812
L_90~270 (65) av	327
L_90~270 (75) av	392
L_90~270 (85) av	1163
L_45 (65) av	743
L_45 (75) av	696
L_45 (85) av	1589

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:2025-6-24

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:2025-6-24

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:47.99TV I:0.1029A P:4.9389W PF:1.0000 Freq:49.99Hz Lamp Flux:181.76x1 lm		
NAME: 6872	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

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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:

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