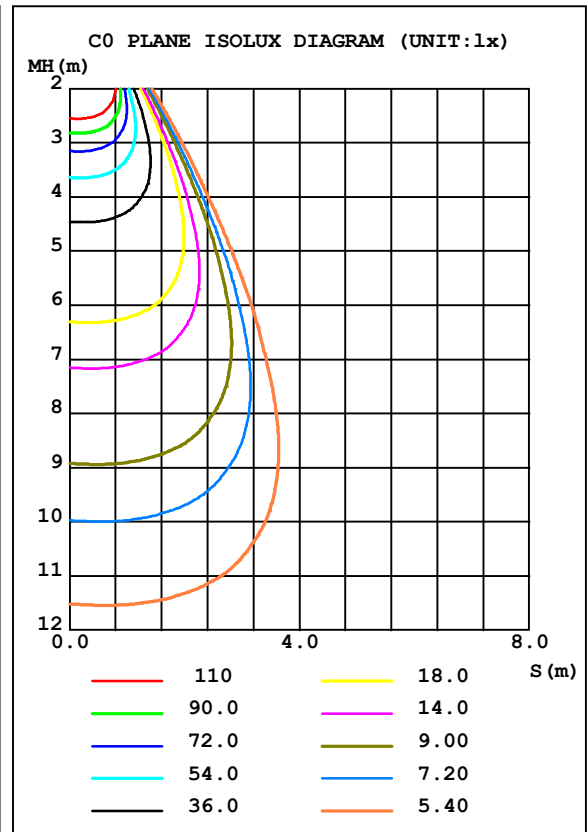
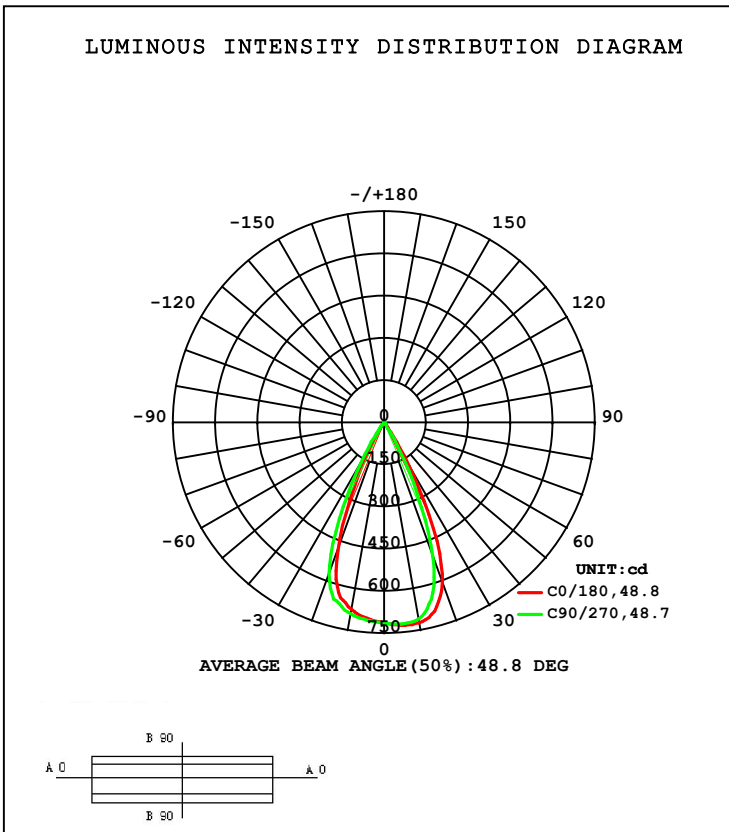


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 35.44 lm/W			
MODEL		I _{max} (cd)	728.6	S/MH (C0/180)	0.67
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	0.74
RATED VOLTAGE (V)	DC48	TOTAL FLUX (lm)	424.18	η UP, DN (C0-180)	0.0, 49.8
NOMINAL FLUX (lm)	424.18	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.2
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:

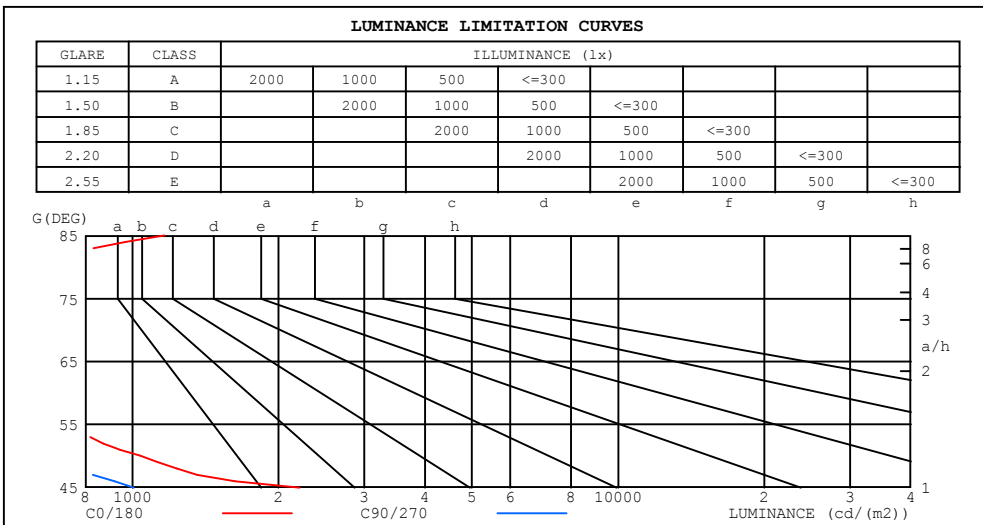
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	722.4	726.3	710.5	686.4	675.7	675.3	691.5	707.9	0- 10	67.60	67.60	15.9,15.9
20	606.0	583.3	507.8	480.6	484.9	509.3	573.1	588.9	10- 20	180.1	247.7	58.4,58.4
30	179.2	133.6	94.07	79.52	85.45	117.1	166.6	186.1	20- 30	148.0	395.7	93.3,93.3
40	8.198	4.946	2.959	2.723	3.248	5.716	10.04	10.40	30- 40	26.88	422.6	99.6,99.6
50	0.5067	0.3203	0.3321	0.2760	0.3408	0.4314	0.2759	0.4542	40- 50	1.182	423.8	99.9,99.9
60	0.2092	0.0882	0.1483	0.0663	0.0770	0.1990	0.0661	0.2102	50- 60	0.2043	424.0	99.9,99.9
70	0.1101	0.0221	0.0775	0.0442	0.0551	0.1149	0.0221	0.0997	60- 70	0.0911	424.1	100,100
80	0.0771	0.0221	0.0554	0.0442	0.0551	0.0774	0.0221	0.0665	70- 80	0.0654	424.1	100,100
90	0.0441	0.0221	0.0442	0.0442	0.0551	0.0442	0.0442	0.0553	80- 90	0.0557	424.2	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		

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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1162	830
80	583	418
75	447	391
70	423	297
65	514	309
60	550	388
55	706	455
50	1036	676
45	2210	1005

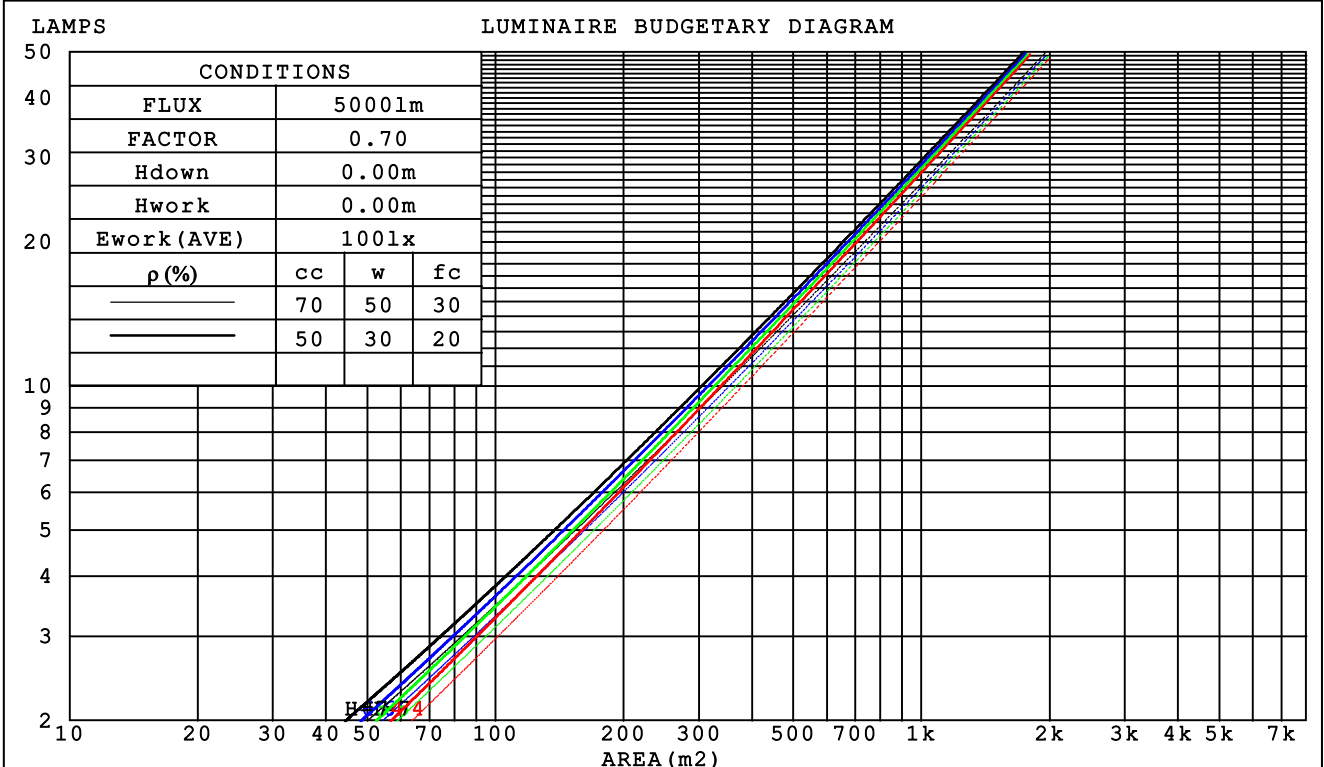
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2025-7-15

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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.79	.78
6.0	.86	.81	.78	.85	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.76	.75
7.0	.82	.77	.74	.82	.77	.73	.80	.76	.73	.79	.76	.73	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
9.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.66	.72	.69	.66	.65
10.0	.72	.67	.64	.72	.67	.64	.71	.67	.64	.70	.66	.64	.70	.66	.63	.62



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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.155	.088	.028	.148	.084	.027	.136	.078	.025	.124	.072	.023	.114	.066	.021	
2.0	.145	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020	
3.0	.137	.073	.022	.133	.071	.021	.124	.067	.020	.116	.063	.019	.108	.060	.019	
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017	
5.0	.124	.063	.018	.120	.062	.018	.114	.059	.017	.108	.057	.017	.102	.055	.016	
6.0	.118	.059	.017	.115	.058	.017	.110	.056	.016	.104	.054	.016	.099	.052	.016	
7.0	.113	.056	.016	.111	.055	.016	.106	.053	.015	.101	.052	.015	.097	.050	.015	
8.0	.109	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	.094	.048	.014	
9.0	.104	.050	.014	.102	.050	.014	.098	.049	.014	.095	.047	.014	.091	.046	.013	
10.0	.100	.048	.013	.099	.048	.013	.095	.047	.013	.092	.046	.013	.089	.045	.013	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.109	.085	.066	.075	.059	.047	.044	.035	.028	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.094	.066	.046	.065	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.017	.011	.008	.005	
8.0	.097	.062	.039	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.053	.029	.075	.046	.026	.052	.032	.018	.030	.019	.011	.010	.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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm										
NAME: 6865					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	18.1	18.9	18.3	19.1	19.2	14.3	15.1	14.5	15.2	15.4
3H	18.0	18.7	18.2	18.9	19.1	14.1	14.8	14.4	15.0	15.2
4H	17.9	18.6	18.2	18.8	19.0	14.0	14.7	14.3	14.9	15.2
6H	17.8	18.5	18.1	18.7	18.9	14.0	14.6	14.2	14.8	15.1
8H	17.8	18.4	18.1	18.6	18.9	13.9	14.5	14.2	14.8	15.0
12H	17.7	18.3	18.0	18.6	18.9	13.9	14.5	14.2	14.7	15.0
4H 2H	17.9	18.6	18.2	18.8	19.0	14.0	14.7	14.3	14.9	15.2
3H	17.7	18.3	18.0	18.6	18.8	13.9	14.5	14.2	14.7	15.0
4H	17.6	18.2	18.0	18.5	18.8	13.8	14.3	14.1	14.6	14.9
6H	17.5	18.0	17.9	18.3	18.7	13.7	14.2	14.0	14.5	14.8
8H	17.5	17.9	17.9	18.3	18.6	13.6	14.1	14.0	14.4	14.8
12H	17.4	17.8	17.8	18.2	18.6	13.6	14.0	14.0	14.4	14.7
8H 4H	17.5	17.9	17.9	18.3	18.6	13.6	14.1	14.0	14.4	14.8
6H	17.4	17.7	17.8	18.1	18.5	13.5	13.9	13.9	14.3	14.7
8H	17.3	17.6	17.8	18.0	18.5	13.5	13.8	13.9	14.2	14.6
12H	17.3	17.5	17.7	18.0	18.4	13.4	13.7	13.9	14.1	14.6
12H 4H	17.4	17.8	17.8	18.2	18.6	13.6	14.0	14.0	14.3	14.7
6H	17.3	17.6	17.8	18.0	18.5	13.5	13.8	13.9	14.2	14.6
8H	17.2	17.5	17.7	18.0	18.4	13.4	13.7	13.9	14.1	14.6
Variations with the observer position at spacings:										
S = 1.0H	+ 5.7 / -14.1					+ 4.4 / -10.6				
1.5H	+ 8.5 / -14.0					+ 7.2 / -10.2				
2.0H	+ 4.9 / - 2.0					+ 2.3 / - 1.3				

CIE Pub.117, 424.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.0)

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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

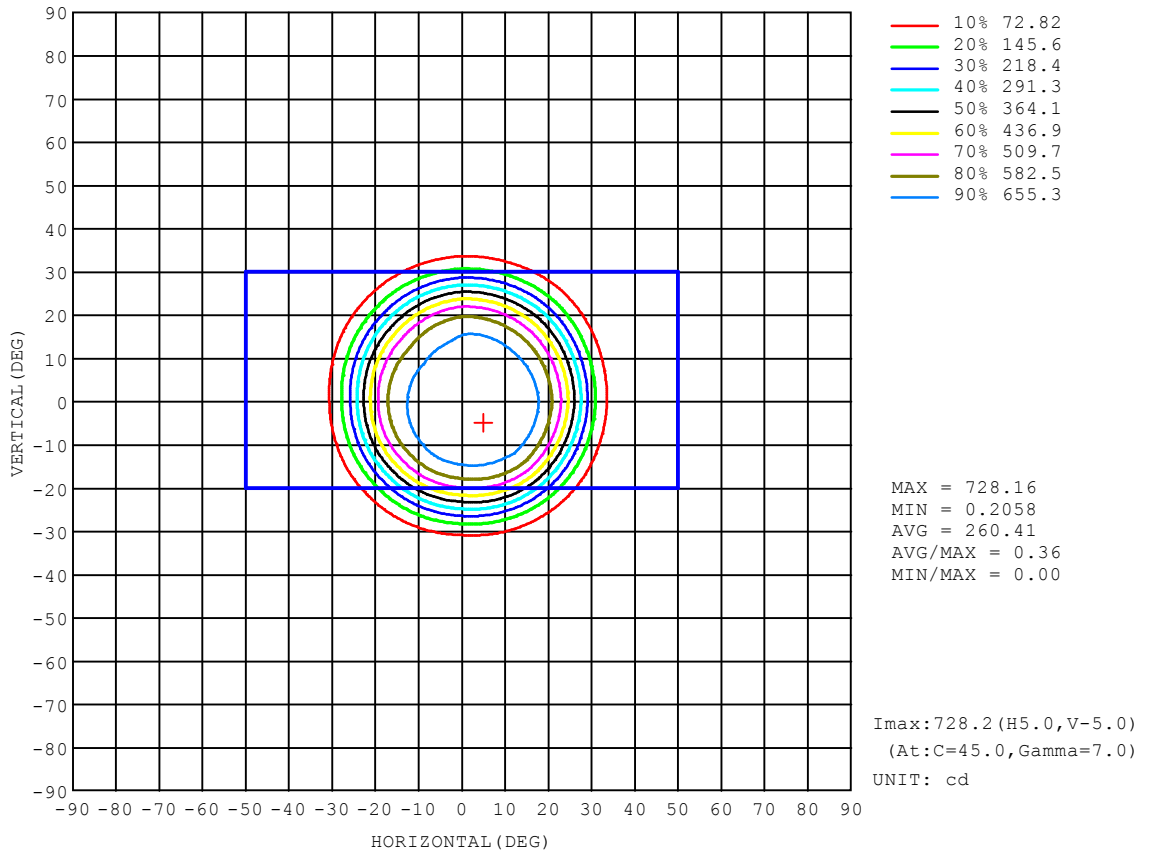
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	89	86
1.00	102	97	94	101	97	94	100	96	93	89
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	105	101	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	107	100
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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

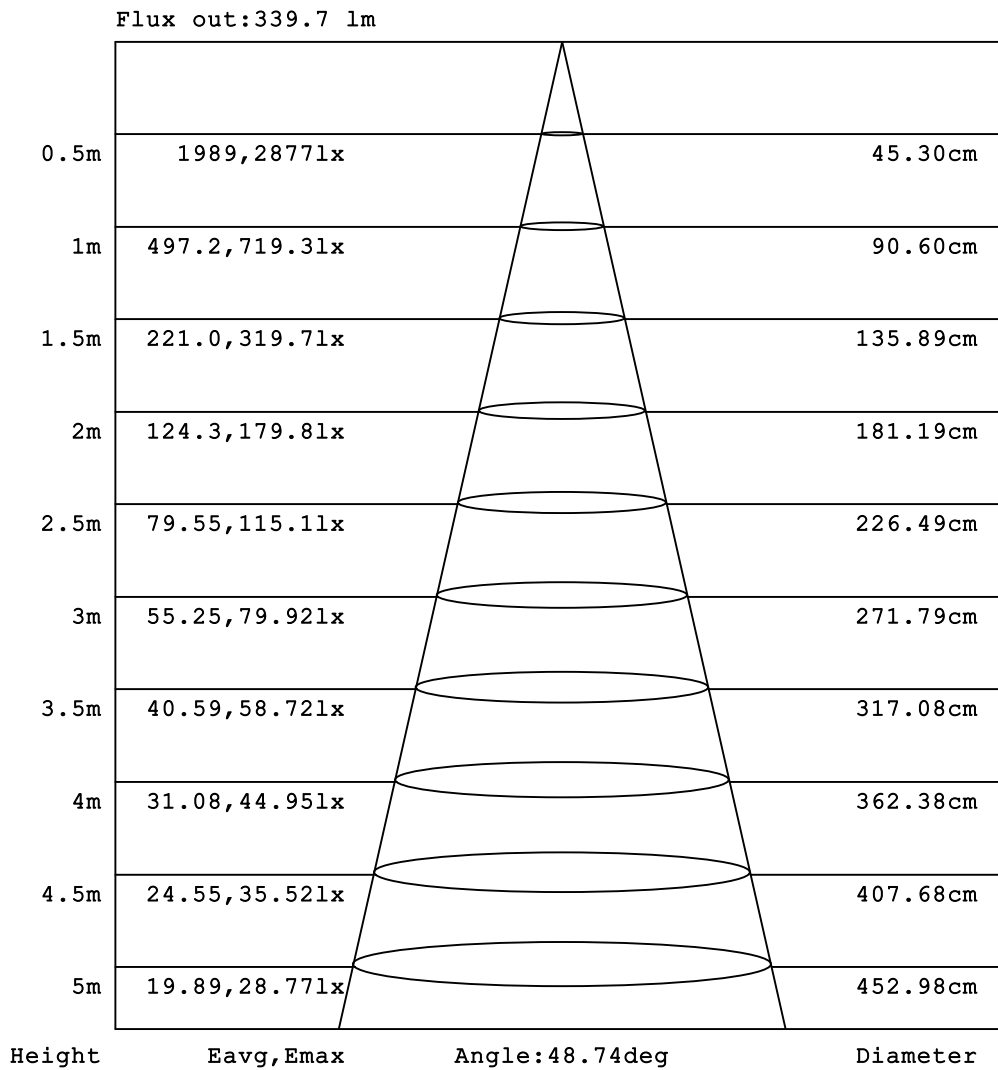


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2025-7-15

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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



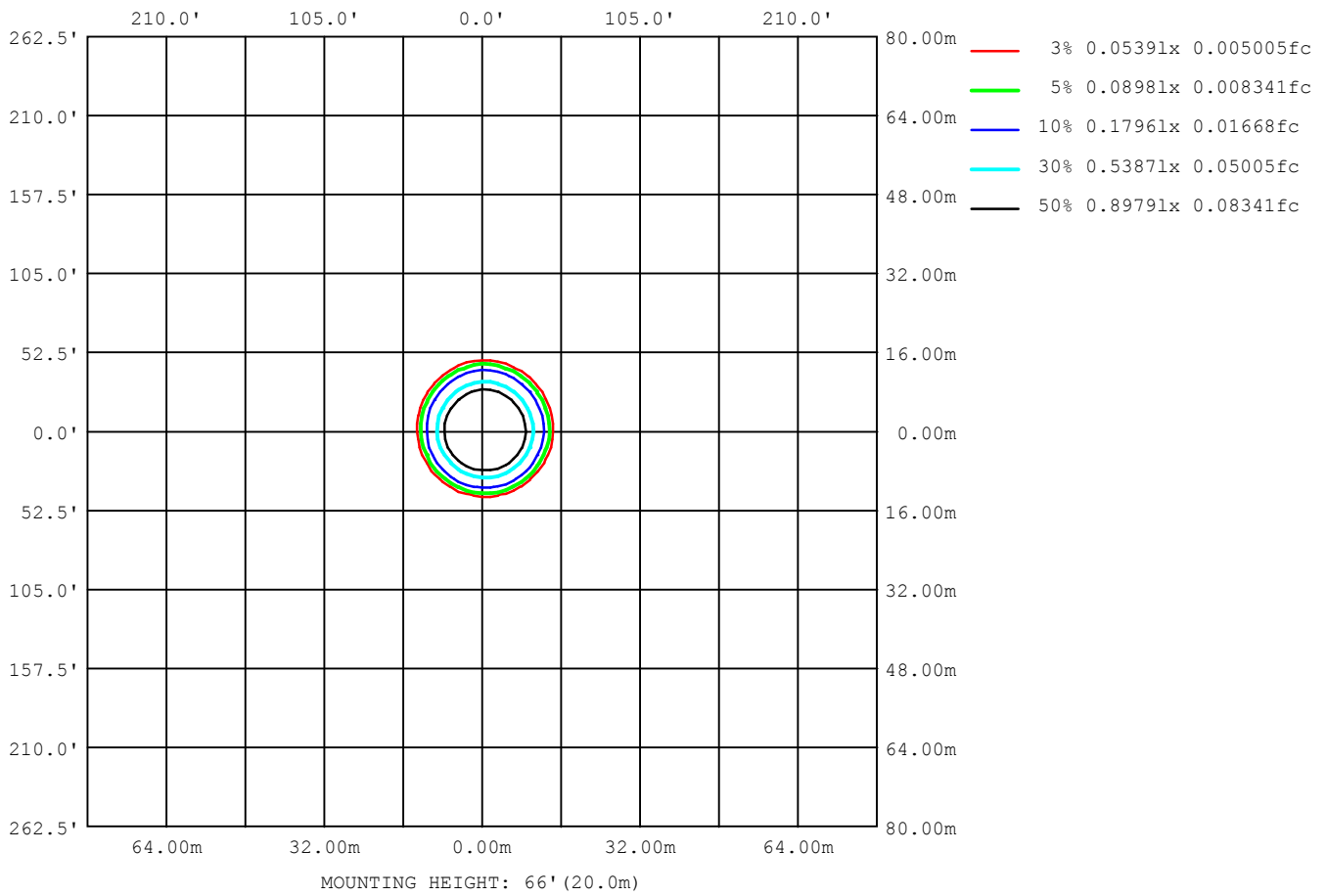
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

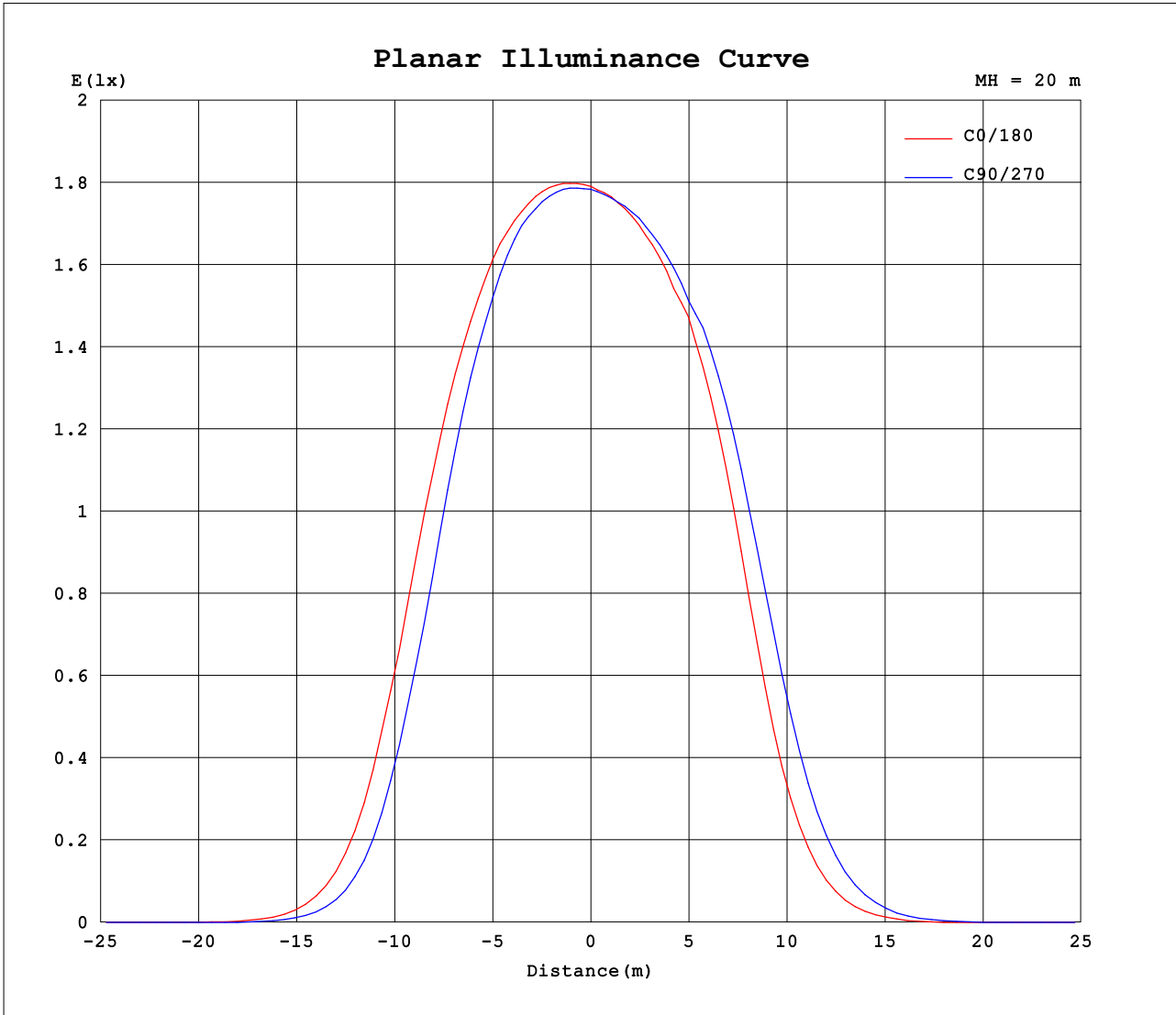
AvgL	cd/m2
L_0~180 (65) av	341
L_0~180 (75) av	362
L_0~180 (85) av	993
L_90~270 (65) av	189
L_90~270 (75) av	252
L_90~270 (85) av	830
L_45 (65) av	274
L_45 (75) av	322
L_45 (85) av	748

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:0.2494A P:11.970W PF:1.0000 Freq:49.99Hz Lamp Flux:424.18x1 lm		
NAME: 6865	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	714	714	714	714	714	714	714	714											
5	724	726	719	708	700	698	705	716											
10	722	726	710	686	676	675	691	708											
15	694	684	650	632	626	622	658	674											
20	606	583	508	481	485	509	573	589											
25	417	360	285	248	252	303	381	408											
30	179	134	94.1	79.5	85.4	117	167	186											
35	47.0	30.6	19.5	17.2	20.2	31.4	49.3	53.7											
40	8.20	4.95	2.96	2.72	3.25	5.72	10.0	10.4											
45	1.19	0.67	0.54	0.50	0.58	0.82	1.17	1.40											
50	0.51	0.32	0.33	0.28	0.34	0.43	0.28	0.45											
55	0.31	0.18	0.20	0.15	0.17	0.28	0.17	0.31											
60	0.21	0.09	0.15	0.07	0.08	0.20	0.07	0.21											
65	0.17	0.03	0.10	0.04	0.06	0.14	0.02	0.13											
70	0.11	0.02	0.08	0.04	0.06	0.11	0.02	0.10											
75	0.09	0.02	0.08	0.04	0.06	0.10	0.02	0.09											
80	0.08	0.02	0.06	0.04	0.06	0.08	0.02	0.07											
85	0.08	0.02	0.06	0.04	0.06	0.07	0.06	0.07											
90	0.04	0.02	0.04	0.04	0.06	0.04	0.04	0.06											

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: