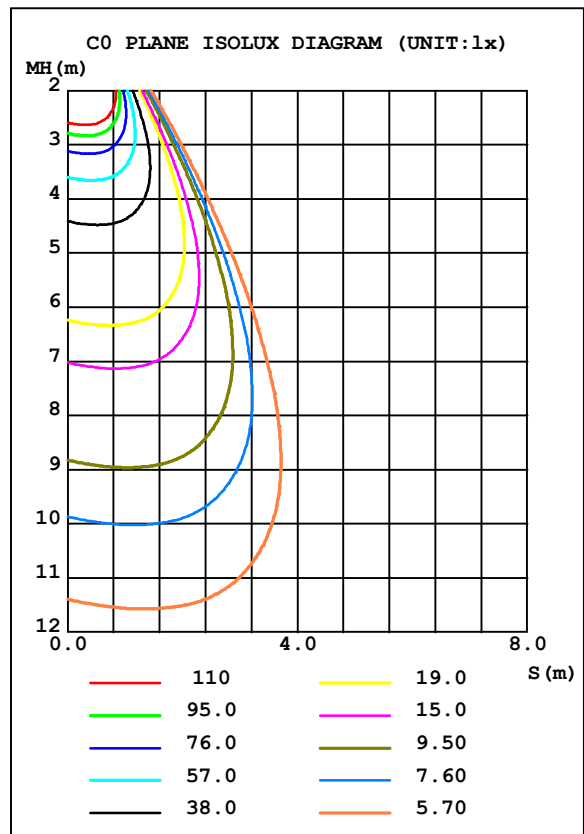
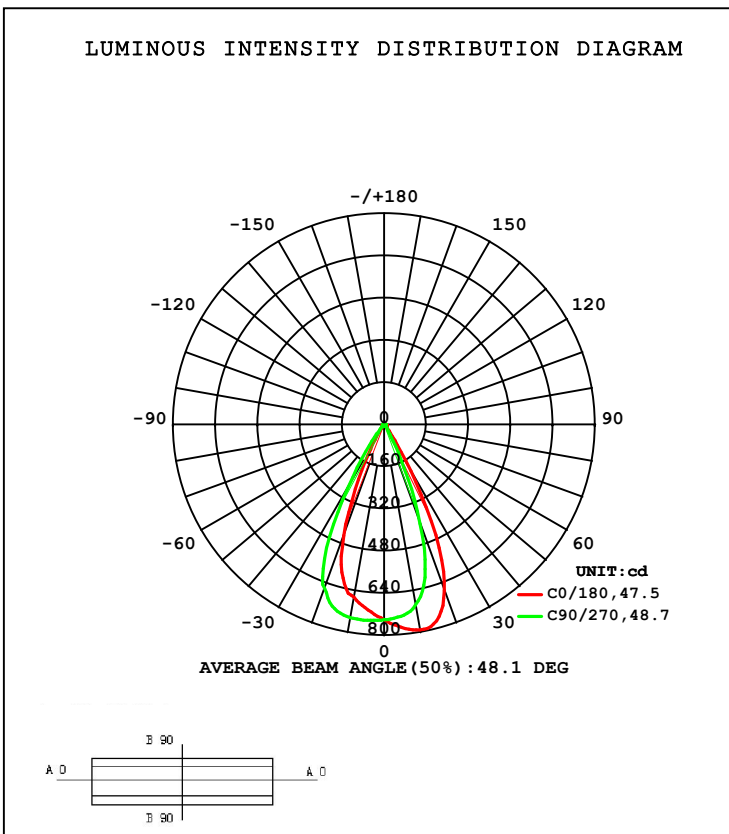


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.:NORDECOR	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 39.28 lm/W			
MODEL		I _{max} (cd)	792.4	S/MH (C0/180)	0.65
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	0.82
RATED VOLTAGE (V)	DC48	TOTAL FLUX (lm)	476.01	η UP, DN (C0-180)	0.0, 44.7
NOMINAL FLUX (lm)	476.01	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.3
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: 2025-2-14

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:

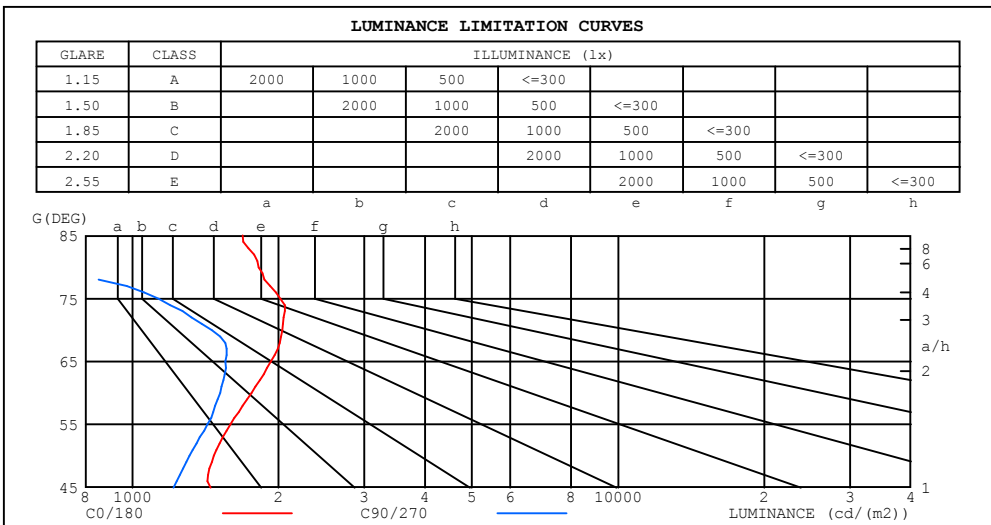
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	791.7	752.6	695.8	662.7	666.1	694.0	744.1	785.2	0- 10	70.10	70.10	14.7,14.7
20	670.9	545.5	402.0	380.6	450.4	549.2	662.9	705.6	10- 20	184.6	254.7	53.5,53.5
30	204.5	97.23	57.41	57.25	87.88	161.9	280.5	298.1	20- 30	155.0	409.7	86.1,86.1
40	16.87	10.83	9.234	9.483	12.07	18.68	29.89	25.13	30- 40	37.39	447.1	93.9,93.9
50	9.468	8.204	8.421	8.681	9.699	9.322	8.993	8.693	40- 50	8.302	455.4	95.7,95.7
60	8.814	7.584	7.561	7.754	8.802	8.592	8.155	7.943	50- 60	7.692	463.1	97.3,97.3
70	6.976	5.681	4.971	4.975	6.295	6.846	6.873	6.688	60- 70	7.248	470.3	98.8,98.8
80	3.167	1.965	1.129	1.154	1.901	2.966	3.538	3.671	70- 80	4.563	474.9	99.8,99.8
90	0.2436	0.0663	0.0331	0.0441	0.0775	0.0995	0.2318	0.4627	80- 90	1.141	476.0	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:2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.:NORDECOR	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1686	115
80	1819	651
75	2019	1133
70	2035	1455
65	1929	1553
60	1758	1514
55	1589	1427
50	1469	1311
45	1448	1215

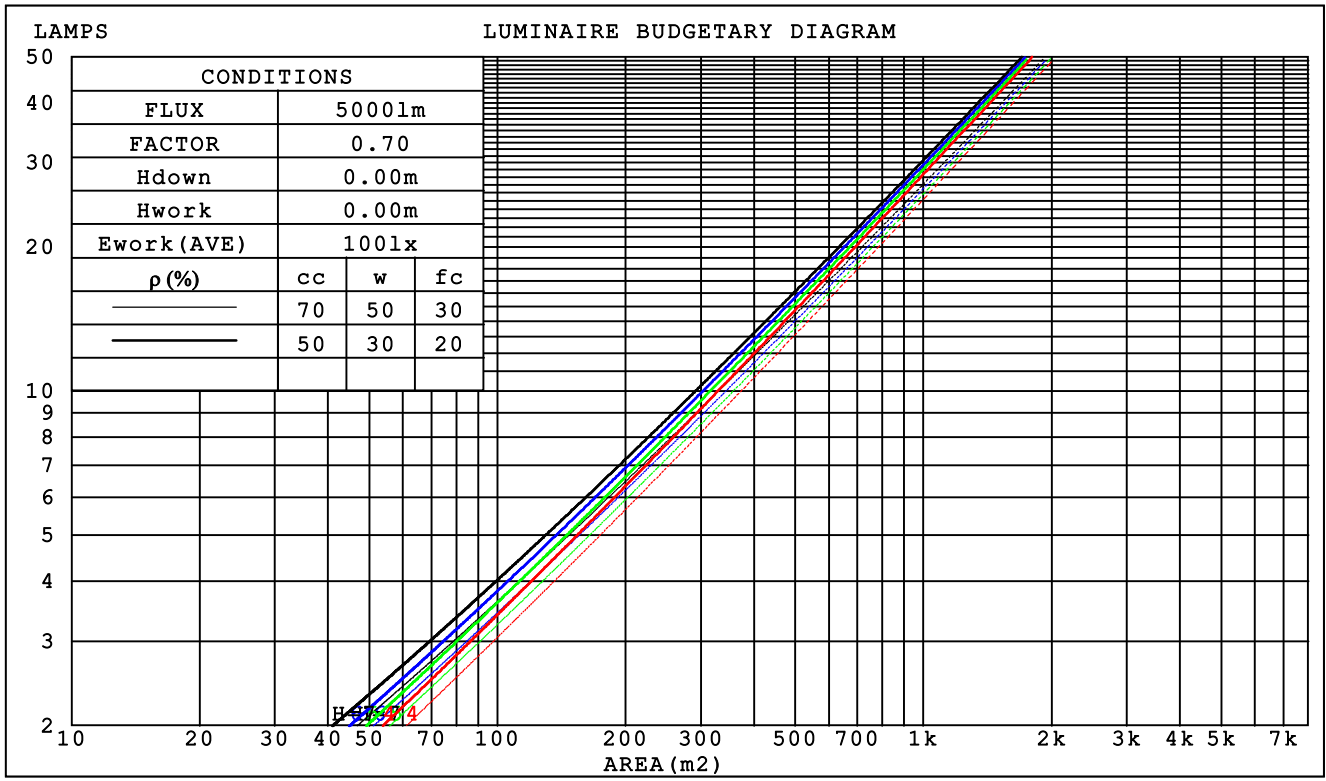
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.: NORDECOR	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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.79
5.0	.87	.82	.78	.86	.81	.78	.85	.80	.77	.83	.79	.76	.82	.78	.76	.74
6.0	.83	.77	.74	.82	.77	.73	.81	.76	.73	.79	.75	.72	.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	.75	.69	.66	.74	.69	.66	.73	.68	.65	.72	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.63	.70	.65	.62	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.67	.62	.60	.66	.62	.59	.58



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.: NORDECOR	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	.173	.098	.031	.166	.095	.030	.153	.088	.028	.142	.082	.026	.131	.076	.025	
2.0	.162	.089	.027	.157	.086	.027	.146	.081	.025	.136	.076	.024	.127	.072	.023	
3.0	.152	.081	.024	.147	.079	.024	.139	.075	.023	.130	.071	.022	.123	.068	.021	
4.0	.143	.074	.022	.139	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020	
5.0	.136	.069	.020	.132	.068	.020	.125	.065	.019	.119	.063	.019	.113	.061	.018	
6.0	.129	.064	.018	.126	.063	.018	.120	.061	.018	.114	.059	.017	.109	.058	.017	
7.0	.122	.061	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015	
9.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.098	.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	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.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: 2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm										
NAME: 6864					TYPE:			WEIGHT:		
SPEC.: NORDECOR					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	11.5	12.3	11.7	12.5	12.7	9.2	10.0	9.4	10.2	10.3
3H	13.0	13.8	13.3	14.0	14.2	11.0	11.8	11.3	12.0	12.2
4H	13.8	14.5	14.0	14.7	15.0	11.6	12.3	11.8	12.5	12.8
6H	14.3	15.0	14.6	15.2	15.5	11.8	12.5	12.1	12.7	13.0
8H	14.5	15.2	14.8	15.4	15.7	11.8	12.5	12.1	12.7	13.0
12H	14.6	15.2	14.9	15.5	15.8	11.7	12.4	12.0	12.7	12.9
4H 2H	11.8	12.6	12.1	12.8	13.0	10.0	10.8	10.3	11.0	11.2
3H	13.6	14.3	13.9	14.6	14.8	12.0	12.7	12.3	13.0	13.2
4H	14.5	15.1	14.8	15.4	15.7	12.7	13.3	13.0	13.6	13.9
6H	15.1	15.7	15.5	16.0	16.3	12.9	13.5	13.3	13.8	14.1
8H	15.4	15.9	15.8	16.2	16.6	12.9	13.4	13.3	13.8	14.1
12H	15.5	16.0	15.9	16.3	16.7	12.9	13.3	13.3	13.7	14.1
8H 4H	14.6	15.1	15.0	15.5	15.9	13.0	13.5	13.4	13.8	14.2
6H	15.4	15.8	15.8	16.2	16.6	13.4	13.8	13.8	14.2	14.6
8H	15.7	16.0	16.1	16.4	16.9	13.4	13.7	13.8	14.2	14.6
12H	15.9	16.2	16.3	16.6	17.1	13.3	13.7	13.8	14.1	14.6
12H 4H	14.6	15.1	15.0	15.4	15.8	13.0	13.5	13.4	13.8	14.2
6H	15.4	15.7	15.8	16.1	16.6	13.4	13.8	13.8	14.2	14.6
8H	15.7	16.0	16.1	16.4	16.9	13.4	13.8	13.9	14.2	14.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.9 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.6				

CIE Pub.117, 476.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.6$)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 彭金英
Test Date: 2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.: NORDECOR	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

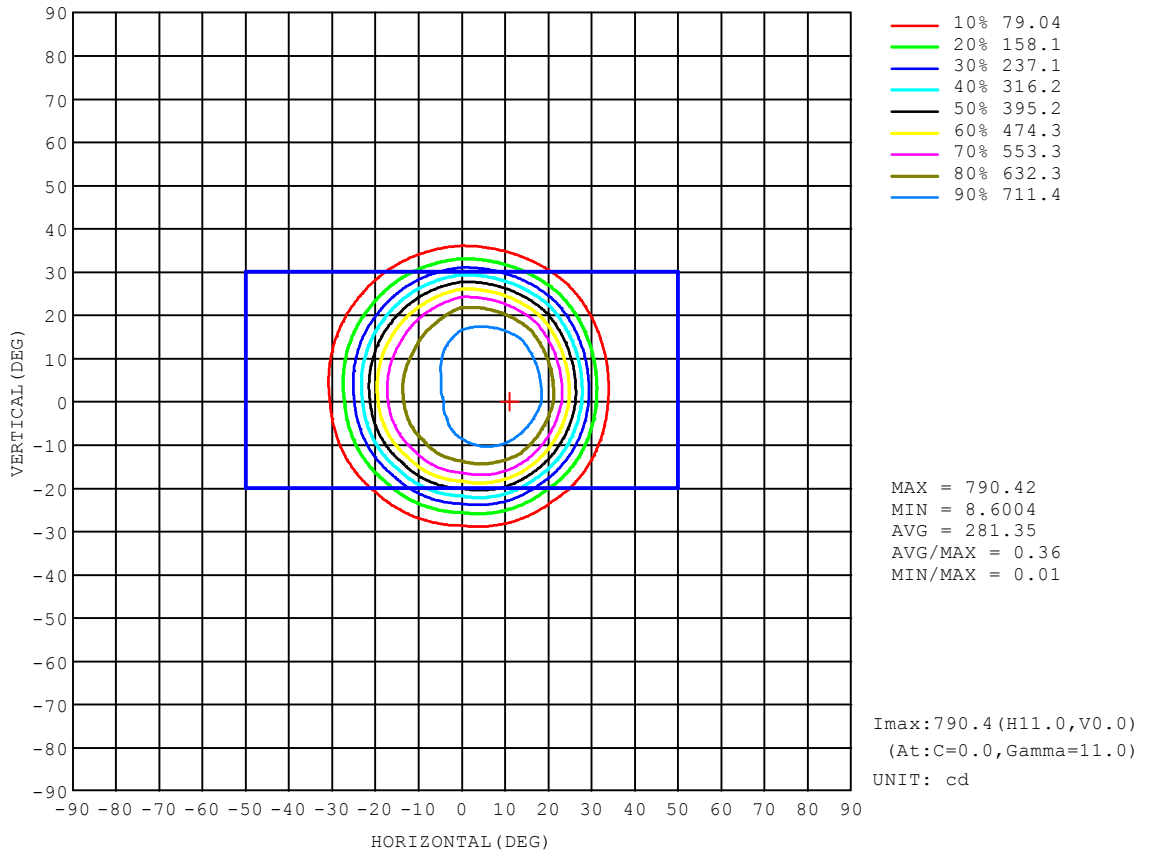
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	87	82	78	87	81	78	74
0.80	95	89	86	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	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: 2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.: NORDECOR	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

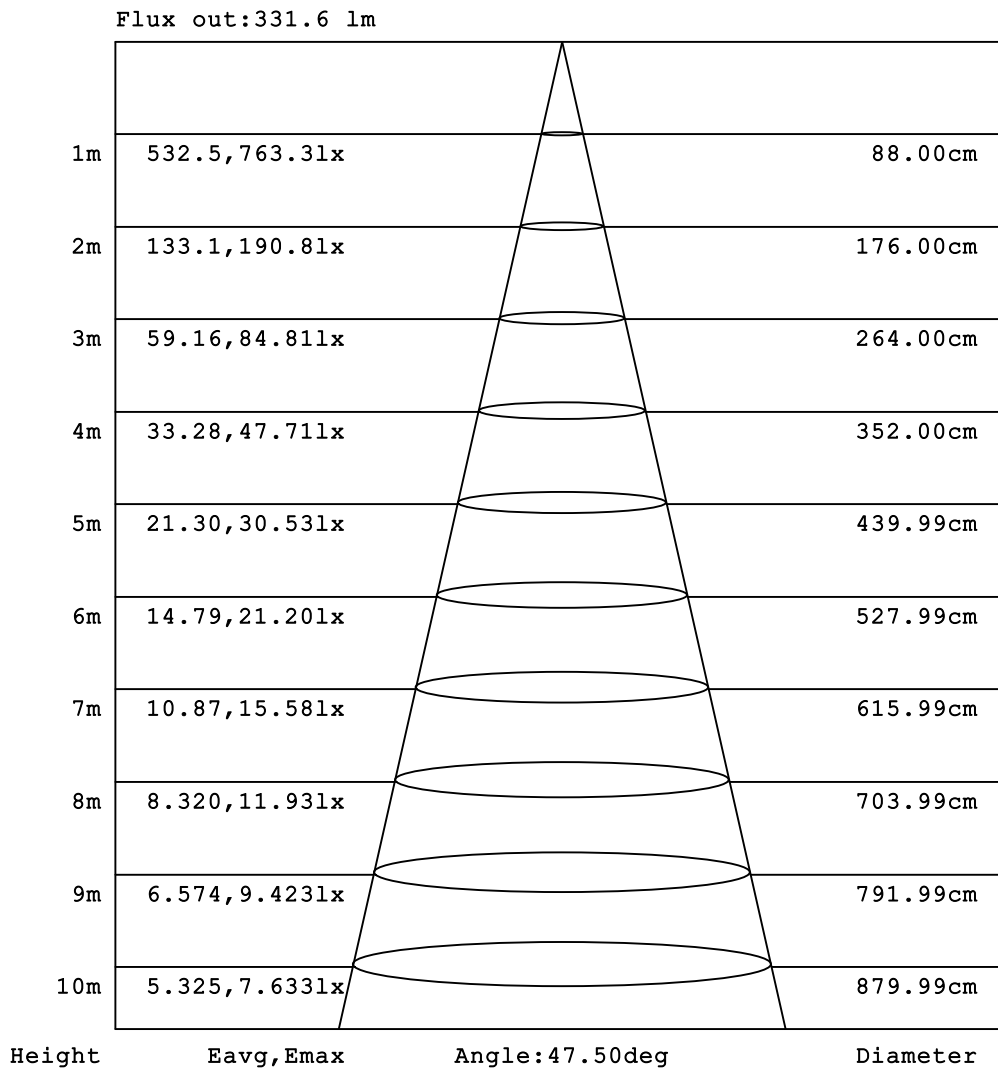


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.: NORDECOR	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



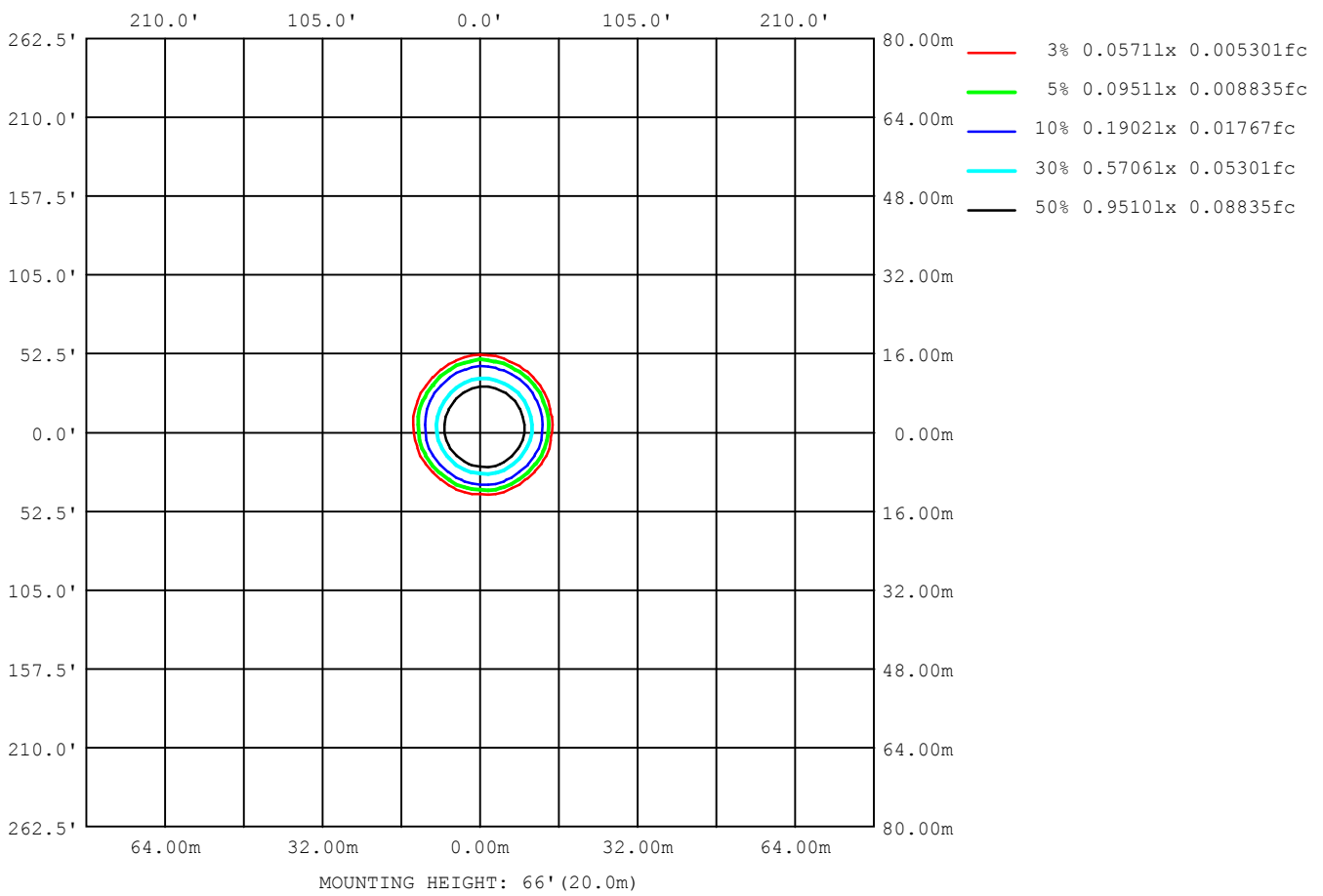
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.: NORDECOR	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: 2025-2-14

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:0.2525A P:12.119W PF:1.0000 Freq:49.99Hz Lamp Flux:476.01x1 lm		
NAME: 6864	TYPE:	WEIGHT:
SPEC.:NORDECOR	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

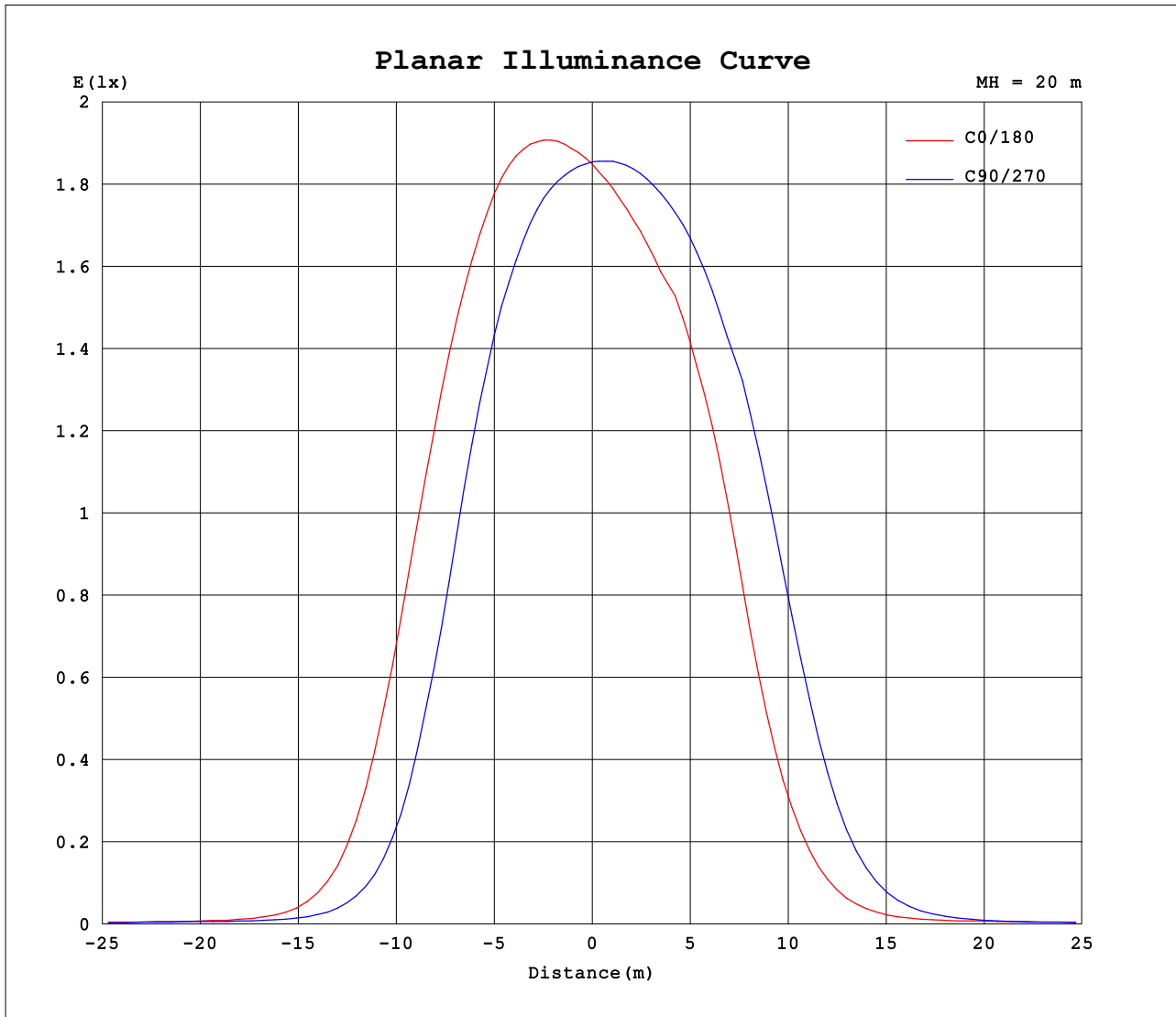
AvgL	cd/m2
L_0~180 (65) av	1889
L_0~180 (75) av	1747
L_0~180 (85) av	1098
L_90~270 (65) av	1686
L_90~270 (75) av	1663
L_90~270 (85) av	1005
L_45 (65) av	1707
L_45 (75) av	1665
L_45 (85) av	1033

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:2025-2-14

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: 2025-2-14

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:

