

Report No.: MSTLAB260408003

Test Time: 2026/4/8/周三 11:14

Luminaire Property

Luminaire Manufacturer: MESTER
Luminaire Category: APL02
Lamp Catalog:
Number of Lamps: 1
Luminous Length (mm): 1190
Luminous Height (mm):
Current: 0.3746 A
Power Factor: 0.9975

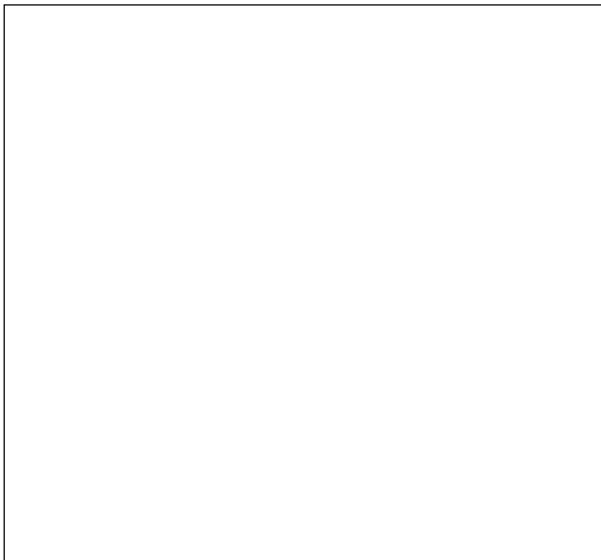
Luminaire Description: APL0245W3500K
Lamp Description:
Lumens per Lamp:
Luminous Width (mm): 136
Voltage: 120.27 V
Power: 44.95 W

Photometric Results

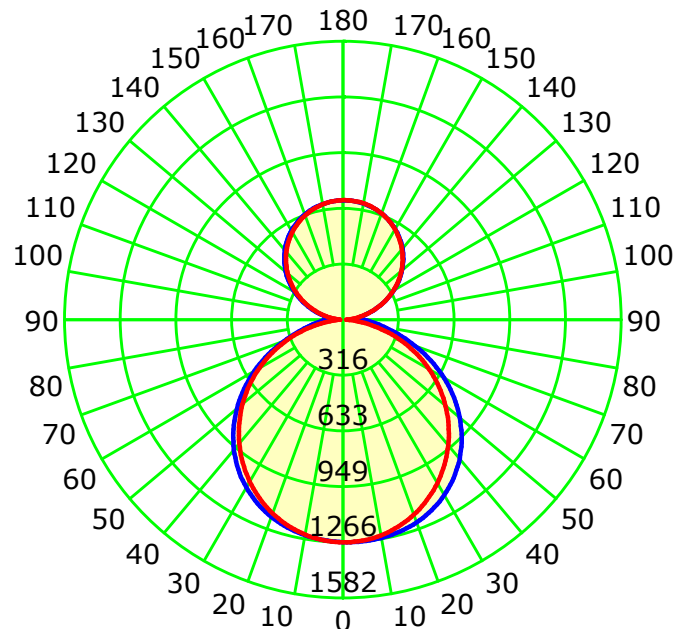
CIE Class: Semi-Direct
Measurement Flux: 5907.4 lm
Downward Ratio: 65%
Horizontal Diffuse Angle(10%,50%,75%,100%): H174.6,H119,H86.3,H0
Vertical Diffuse Angle(10%,50%,75%,100%): V161.1,V112.7,V76.8,V0
Luminous Efficacy (lm/w): 131.42
Max. Intensity: 1266.35 cd
S/MH(C0/C180): 1.32

Total Rated Lamp Lumens: 5907.4 lm
Efficiency: 100%
Upward Ratio: 35%
C0r0 Intensity: 1264.89 cd
Pos of Max. Intensity: H30 V2
S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

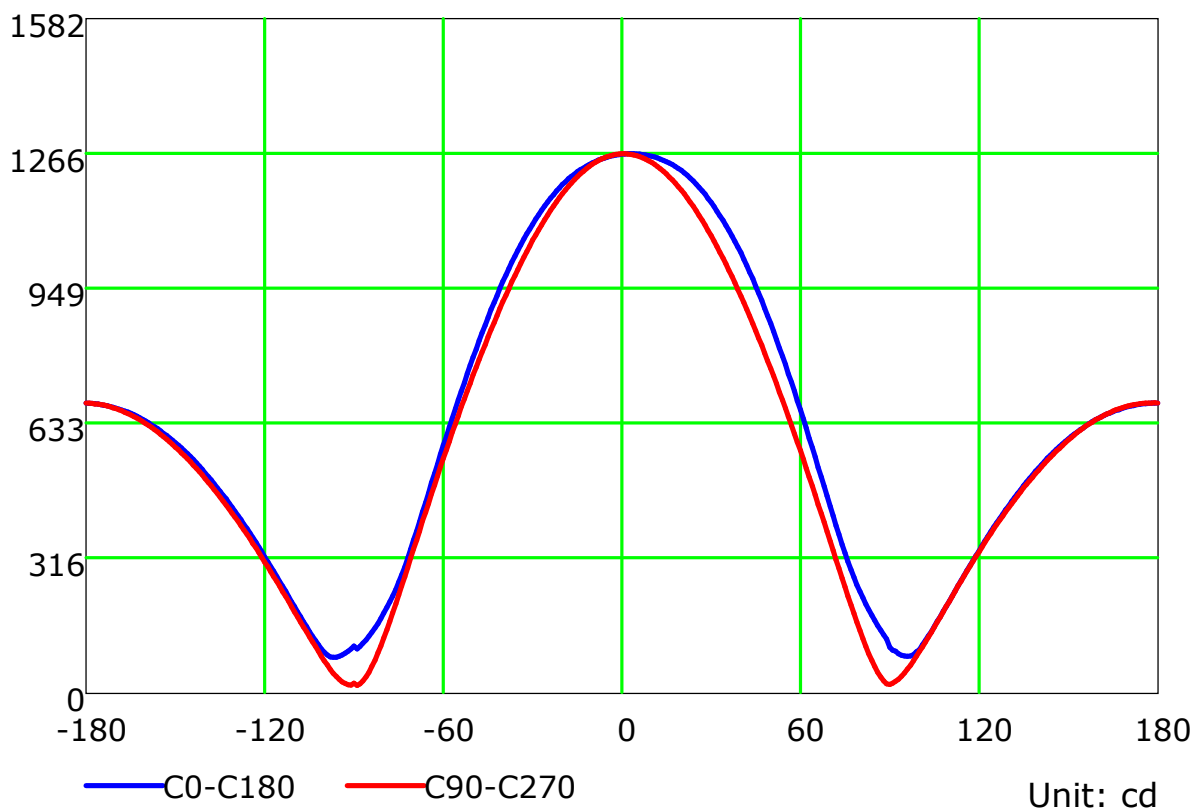
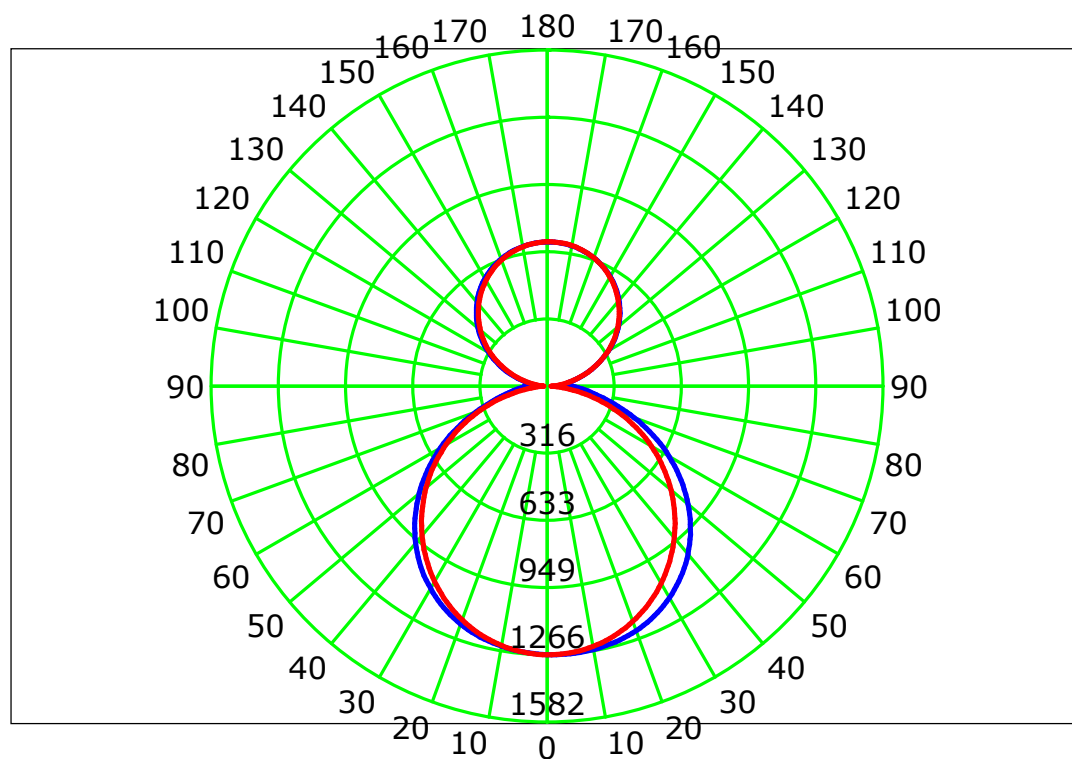
Average Diffuse Angle(50%): 115.8°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5°C
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

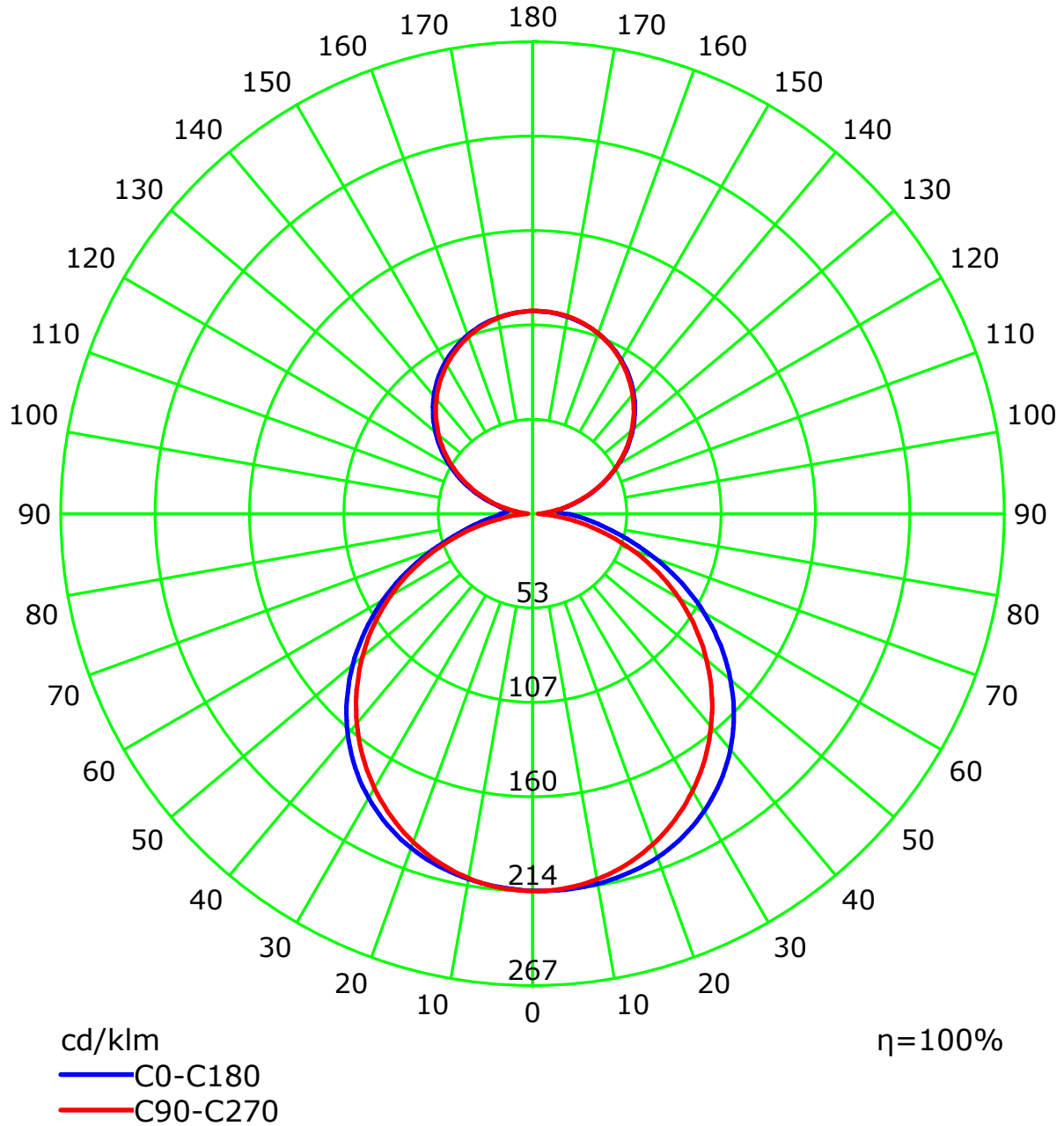
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve(cd/klm)



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Temperature: 25.5℃
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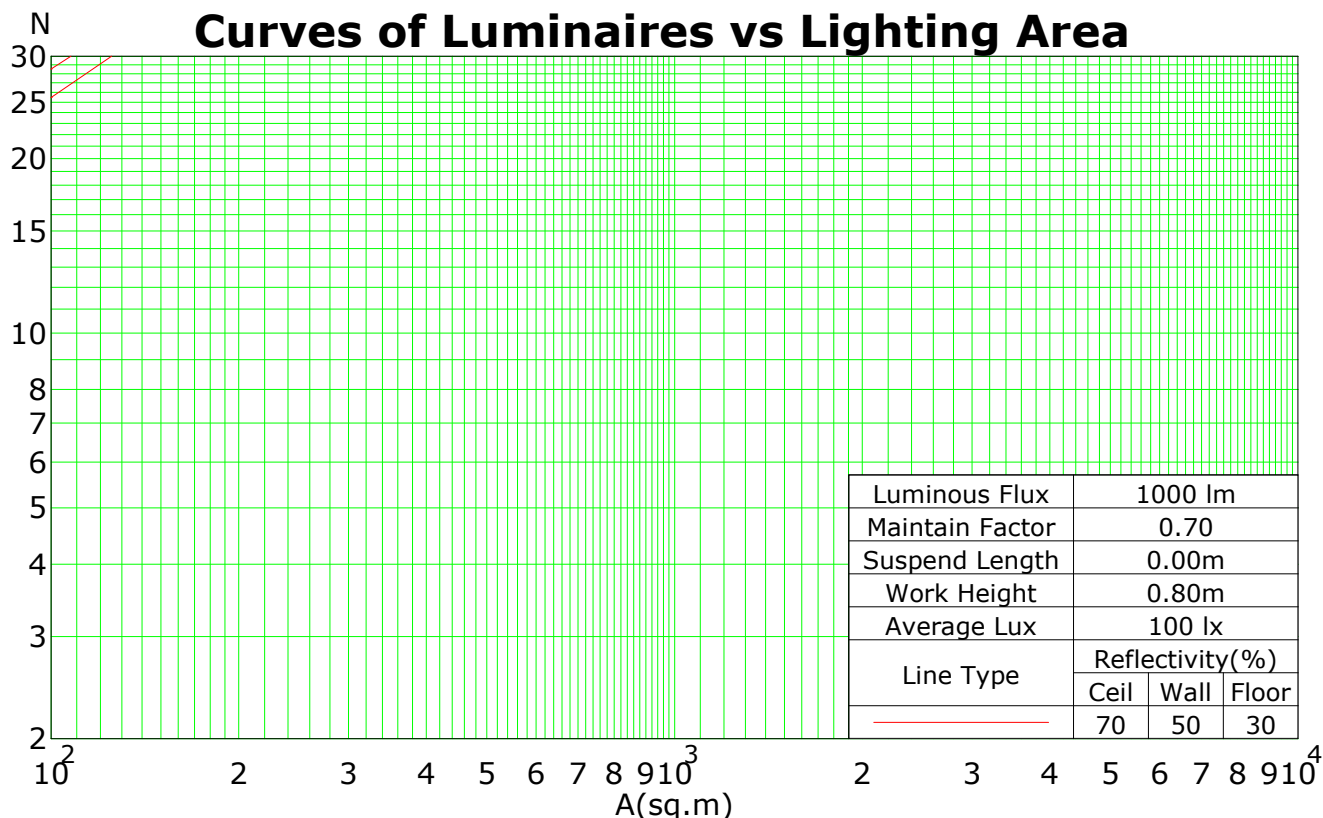
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.11	1.11	1.11	1.11	1.04	1.04	1.04	1.04	0.92	0.92	0.92	0.80	0.80	0.80	0.70	0.70	0.70	0.65
1	1.01	0.96	0.92	0.88	0.94	0.90	0.86	0.83	0.80	0.77	0.74	0.70	0.68	0.66	0.61	0.59	0.58	0.53
2	0.91	0.83	0.77	0.71	0.85	0.78	0.73	0.68	0.69	0.65	0.61	0.61	0.57	0.54	0.53	0.50	0.48	0.44
3	0.83	0.73	0.65	0.59	0.78	0.69	0.62	0.56	0.61	0.55	0.51	0.53	0.49	0.46	0.47	0.43	0.41	0.37
4	0.76	0.64	0.56	0.50	0.71	0.61	0.53	0.47	0.54	0.48	0.43	0.47	0.43	0.39	0.42	0.38	0.35	0.31
5	0.70	0.57	0.49	0.42	0.65	0.54	0.46	0.41	0.48	0.42	0.37	0.43	0.37	0.33	0.37	0.33	0.30	0.27
6	0.64	0.51	0.43	0.37	0.60	0.49	0.41	0.35	0.43	0.37	0.32	0.38	0.33	0.29	0.34	0.30	0.26	0.24
7	0.59	0.46	0.38	0.32	0.55	0.44	0.36	0.31	0.39	0.33	0.28	0.35	0.30	0.26	0.31	0.27	0.23	0.21
8	0.55	0.42	0.34	0.28	0.51	0.40	0.32	0.27	0.36	0.30	0.25	0.32	0.27	0.23	0.28	0.24	0.21	0.19
9	0.51	0.38	0.31	0.25	0.48	0.36	0.29	0.24	0.33	0.27	0.22	0.29	0.24	0.21	0.26	0.22	0.19	0.17
10	0.48	0.35	0.28	0.23	0.45	0.34	0.27	0.22	0.30	0.24	0.20	0.27	0.22	0.19	0.24	0.20	0.17	0.15

Spacing Criteria (0-180): 1.32

Spacing Criteria (90-270): 1.25

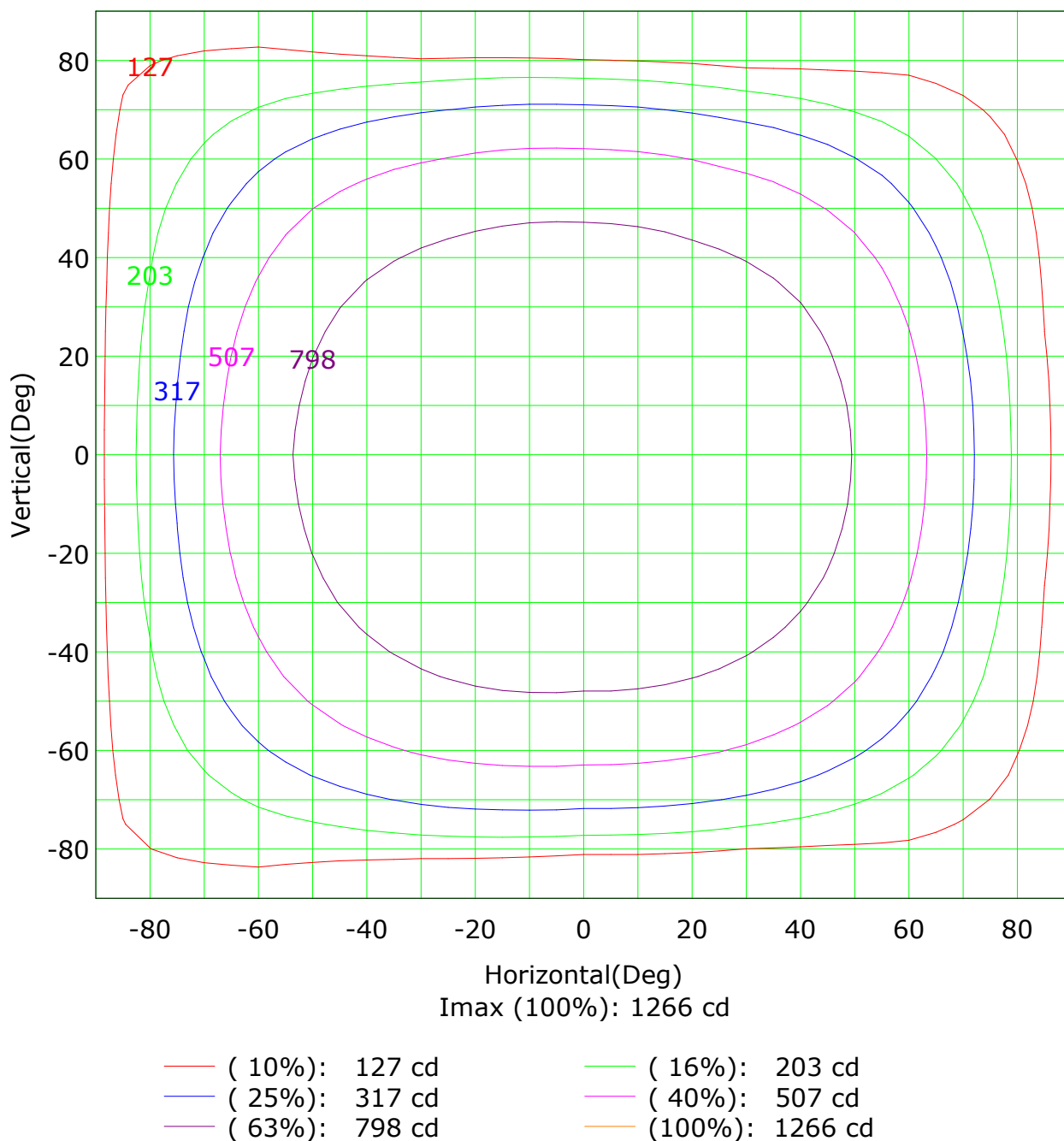
Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

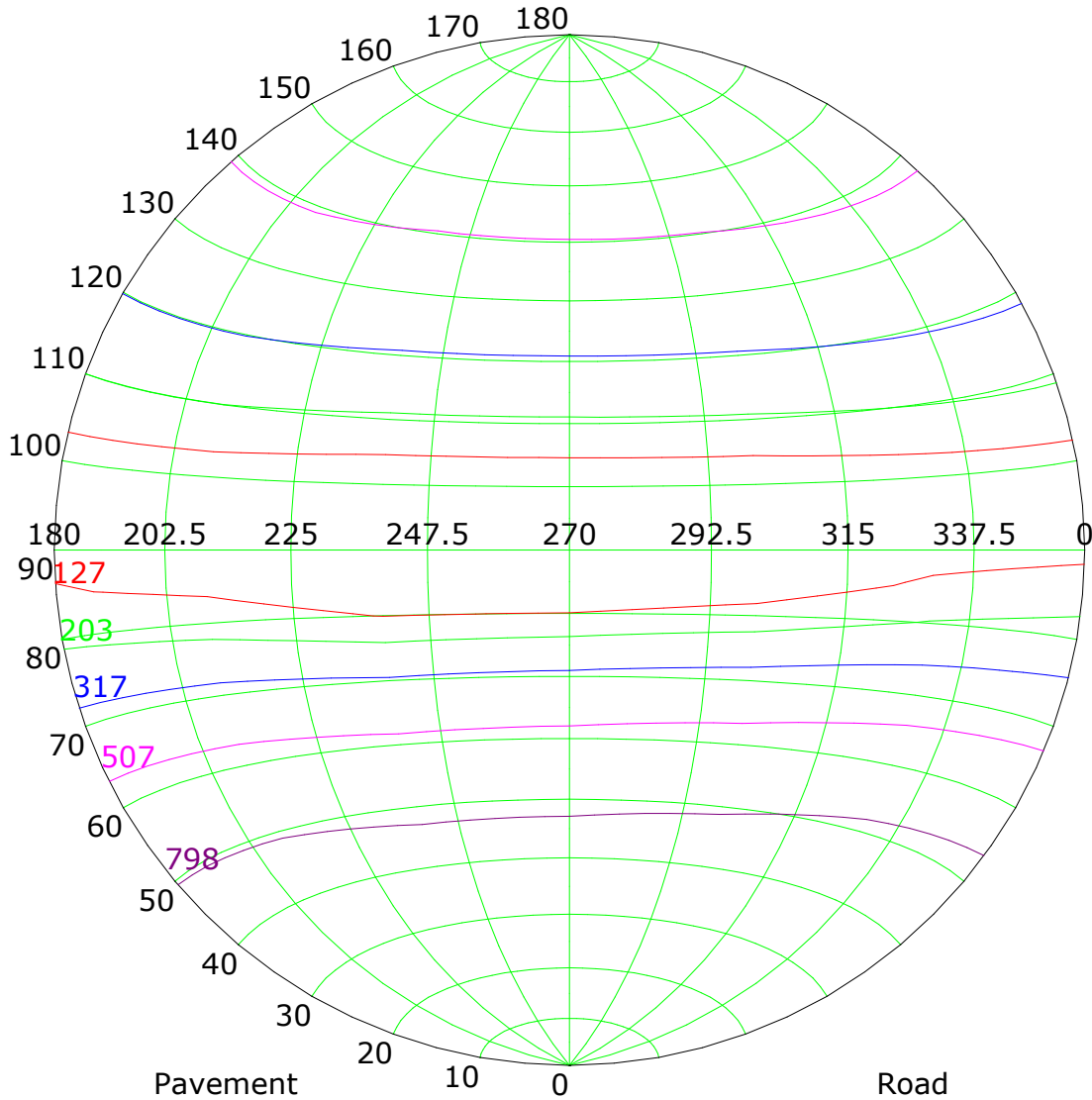
Isocandela (rectangle)



C Plane (°):0.0-360.0: 30.0
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Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

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Inspector:

Isocandela (sphere)



Imax (100%): 1266 cd

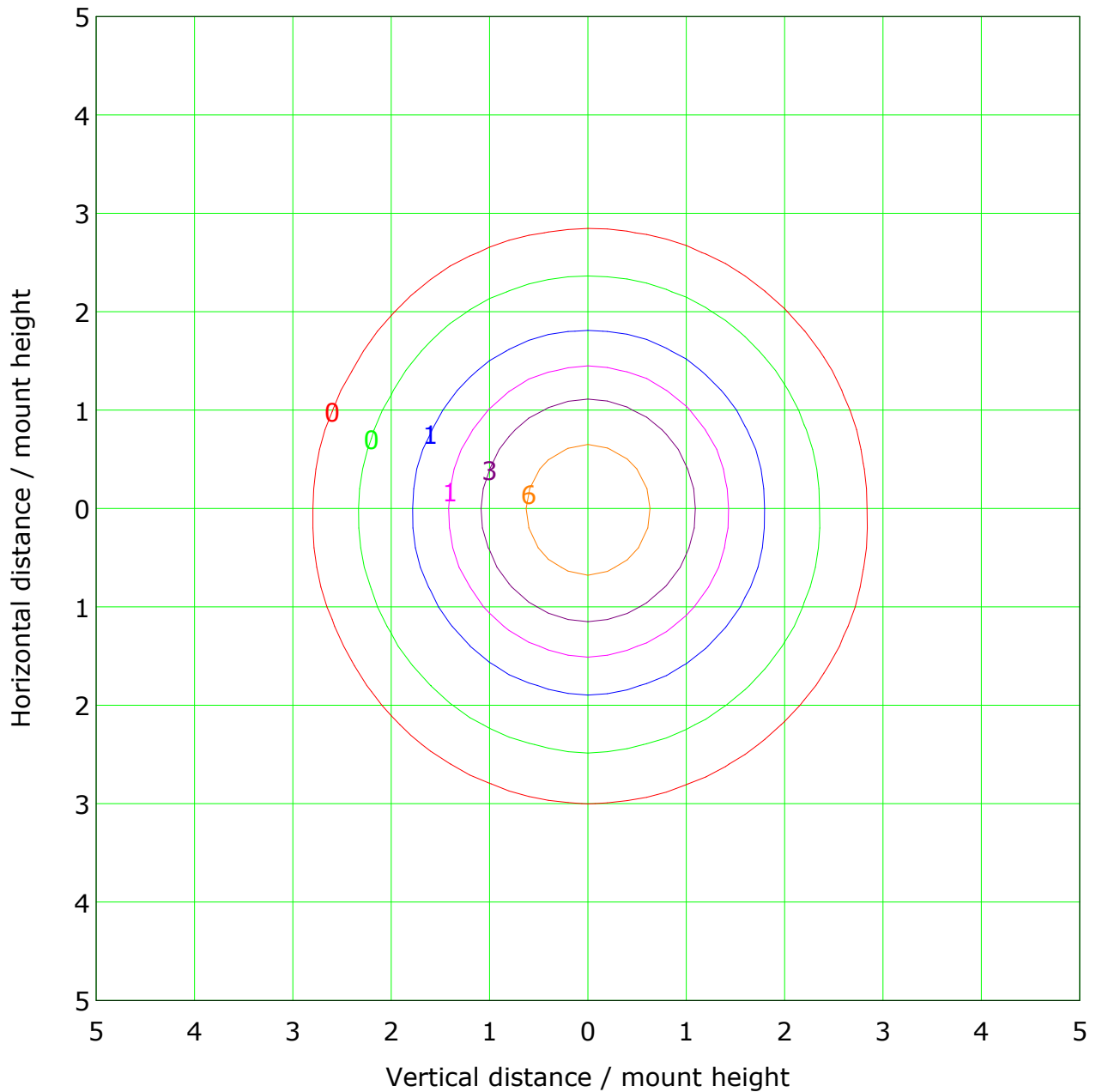
(10%): 127 cd
(25%): 317 cd
(63%): 798 cd

(16%): 203 cd
(40%): 507 cd
(100%): 1266 cd

CIE: narrow - short
CIE: Semi-cut-off luminaire
Max.At90: 18.516 cd/klm

IES: Cut-off
Max.At80: 40.158 cd/klm
Max.80-90: 40.158 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 12.7 lx

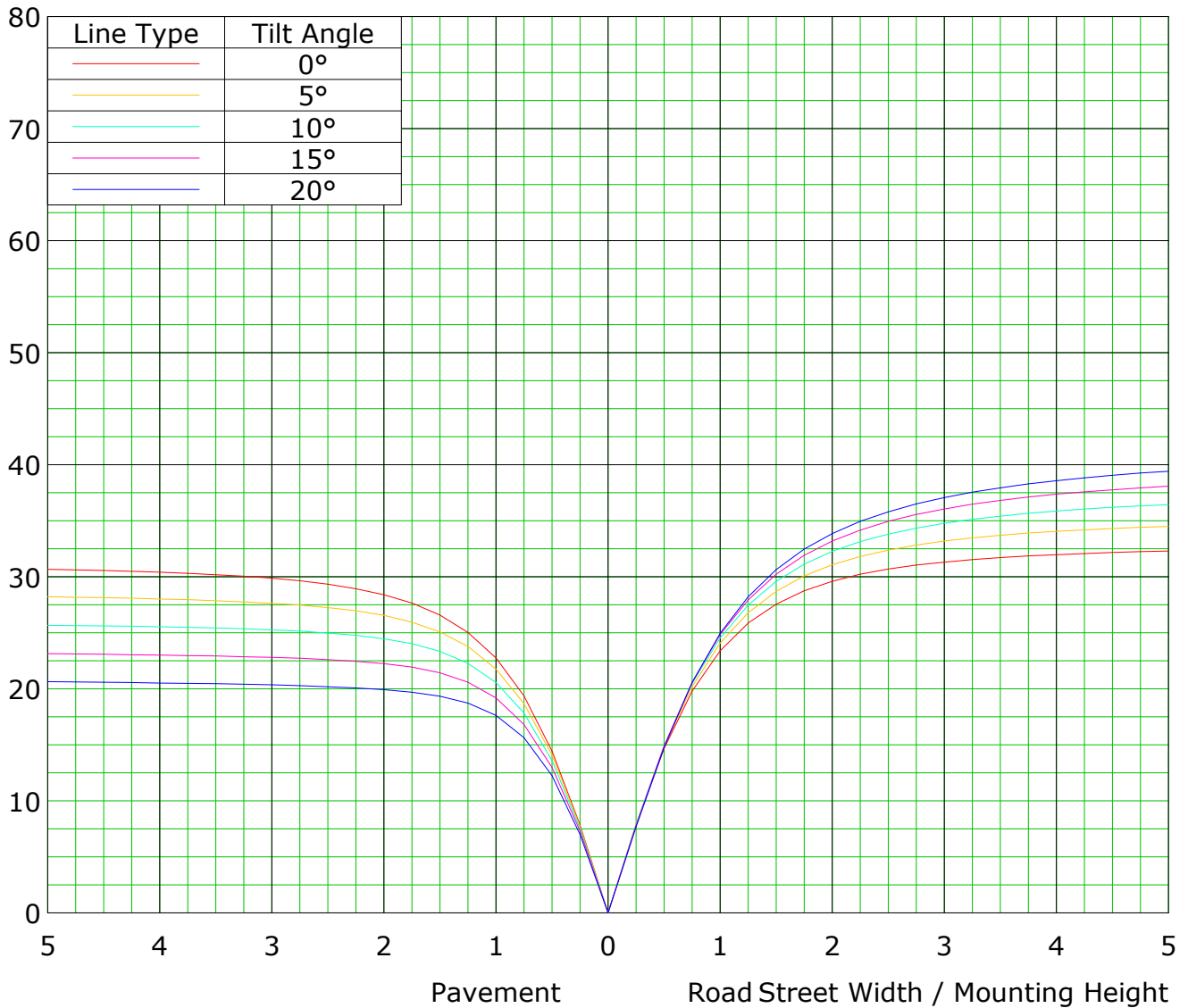
(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.6 lx	(10%): 1.3 lx
(20%): 2.5 lx	(50%): 6.3 lx
(100%): 12.7 lx	

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Humidity: 45% R.H
Inspector:

Roadway CU Curve

Efficiency(%)



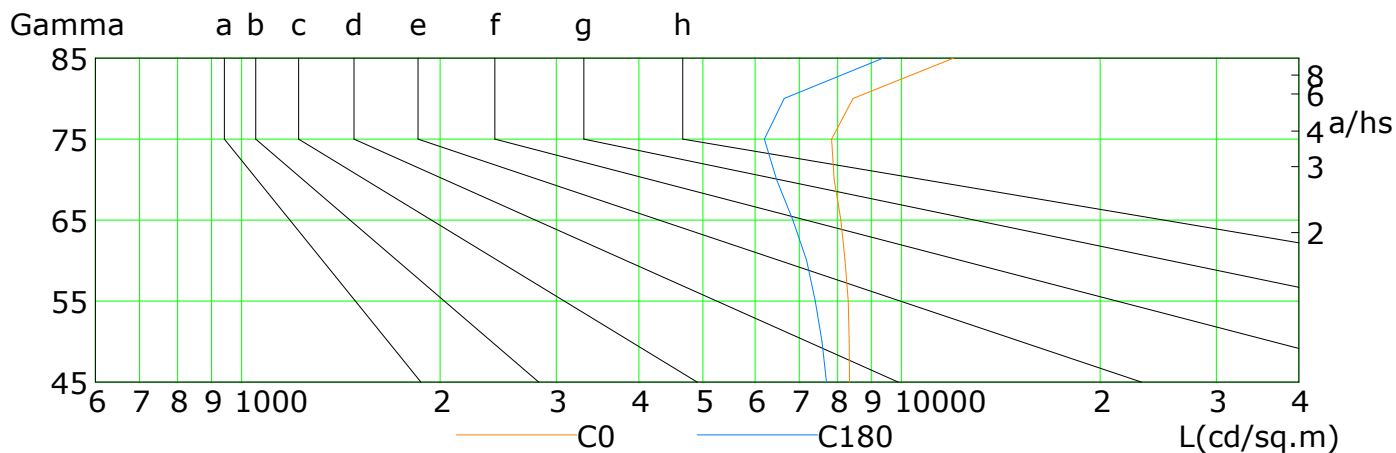
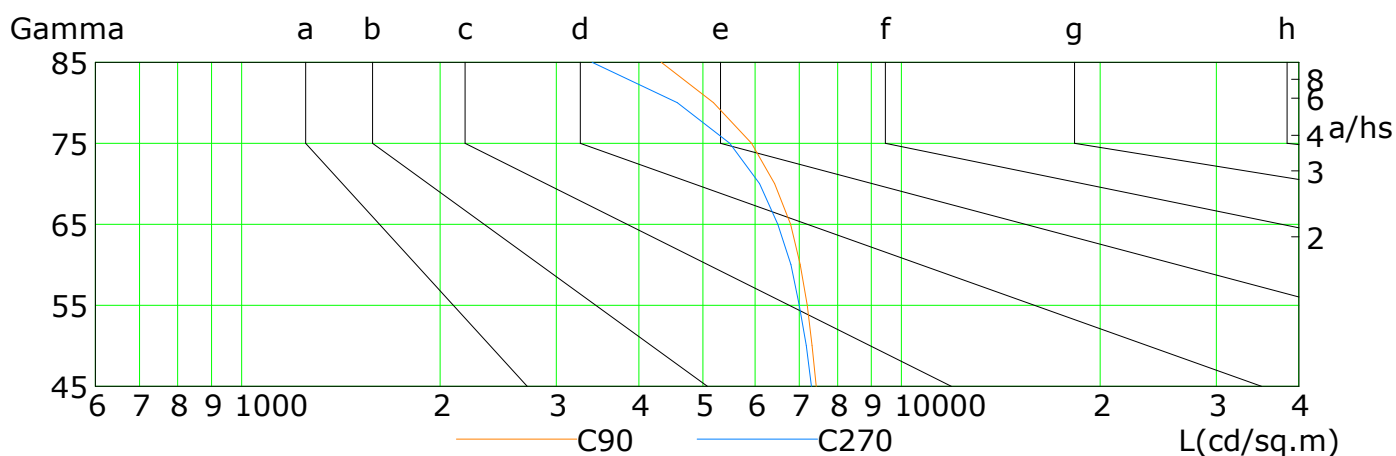
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Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5°C
Operator: YanQin Zeng

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Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

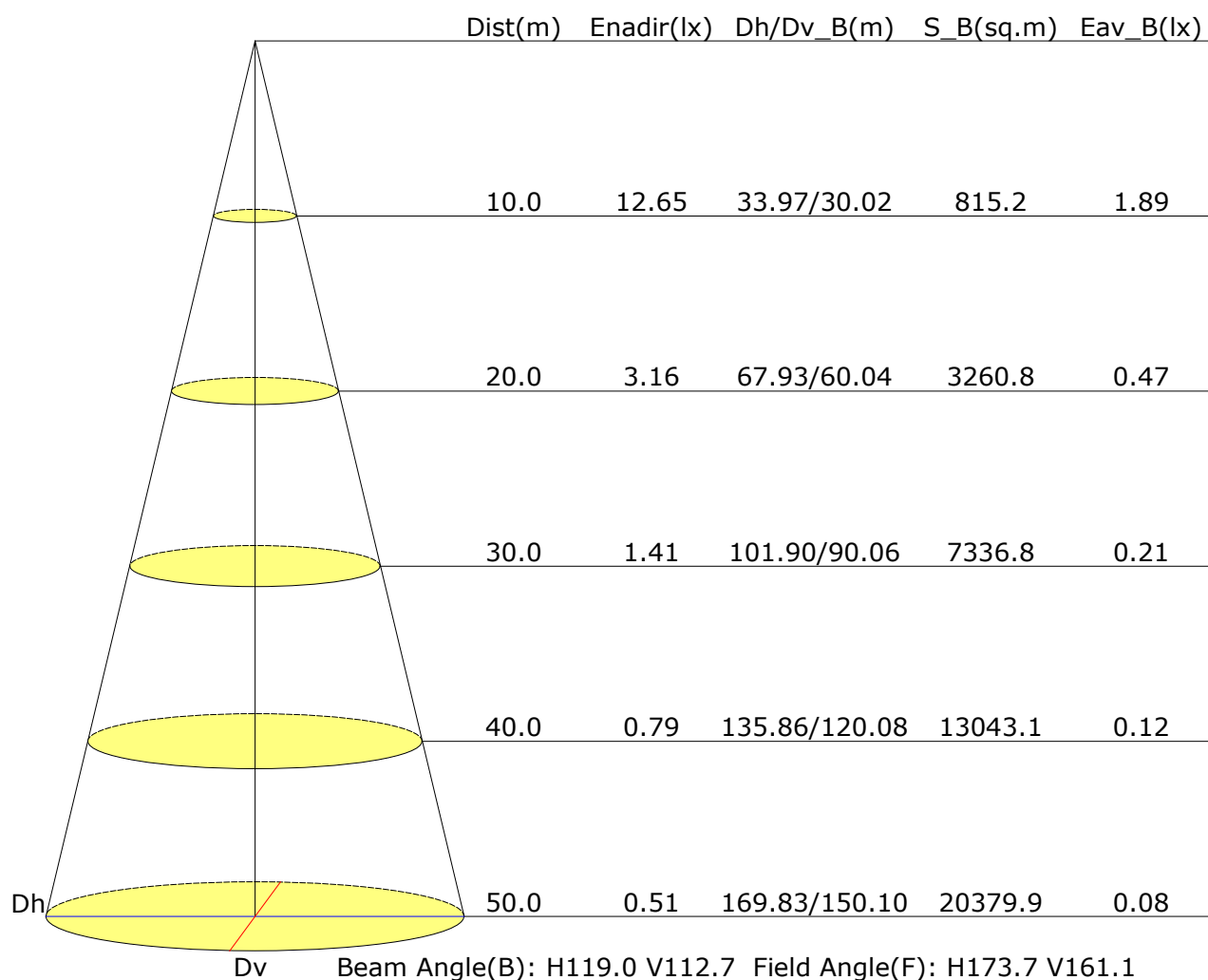


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8345	8336	8305	8208	8096	7905	7834	8441	11997
C90	7427	7321	7194	7026	6794	6422	5928	5189	4325
C180	7697	7574	7405	7182	6846	6469	6197	6638	9384
C270	7303	7171	7002	6799	6495	6096	5490	4573	3399

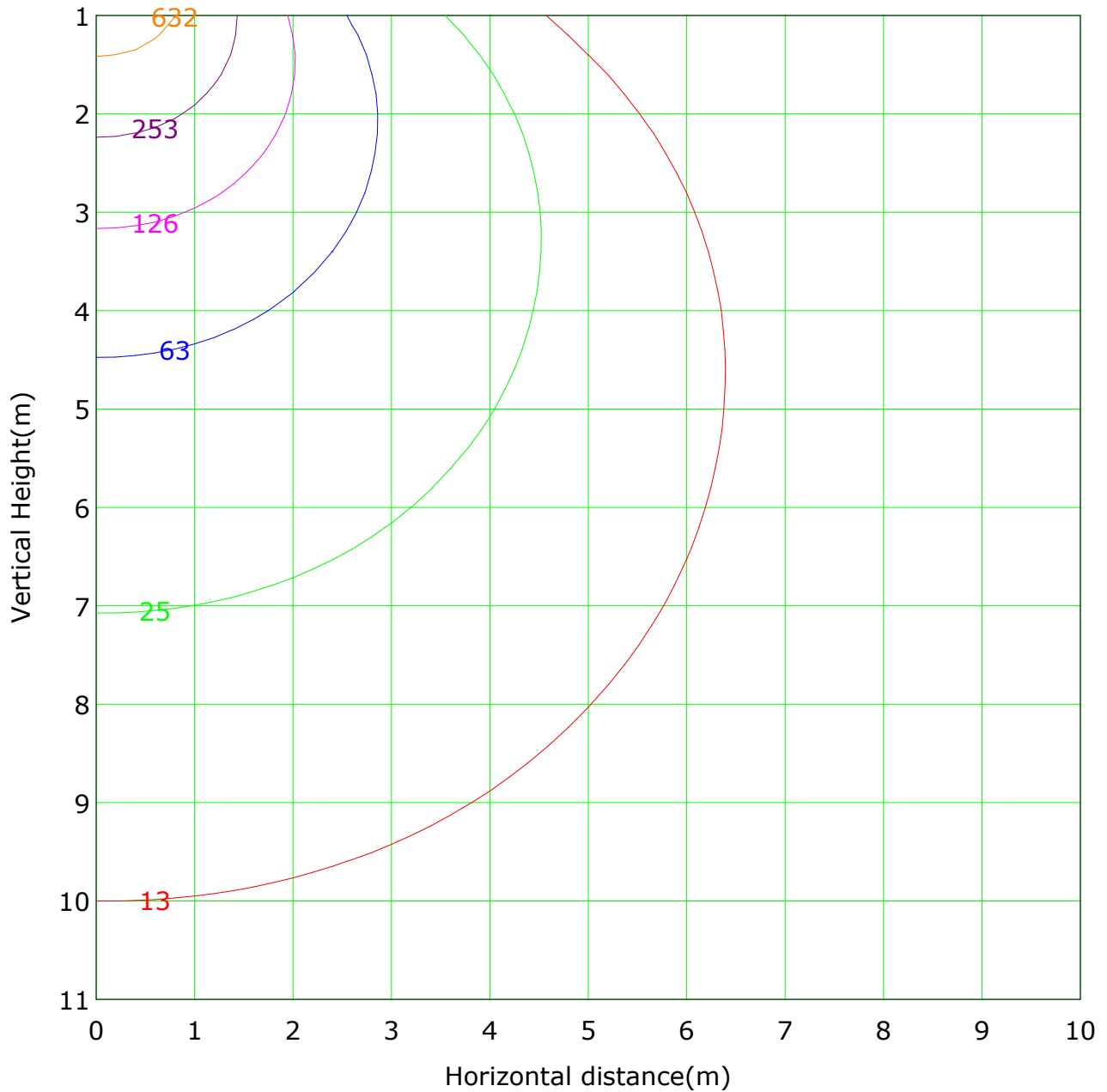
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Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

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Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1264.9 lx
— (1%): 12.6 lx — (2%): 25.3 lx
— (5%): 63.2 lx — (10%): 126.5 lx
— (20%): 253.0 lx — (50%): 632.4 lx
— (100%):1264.9 lx

Area Flux Table

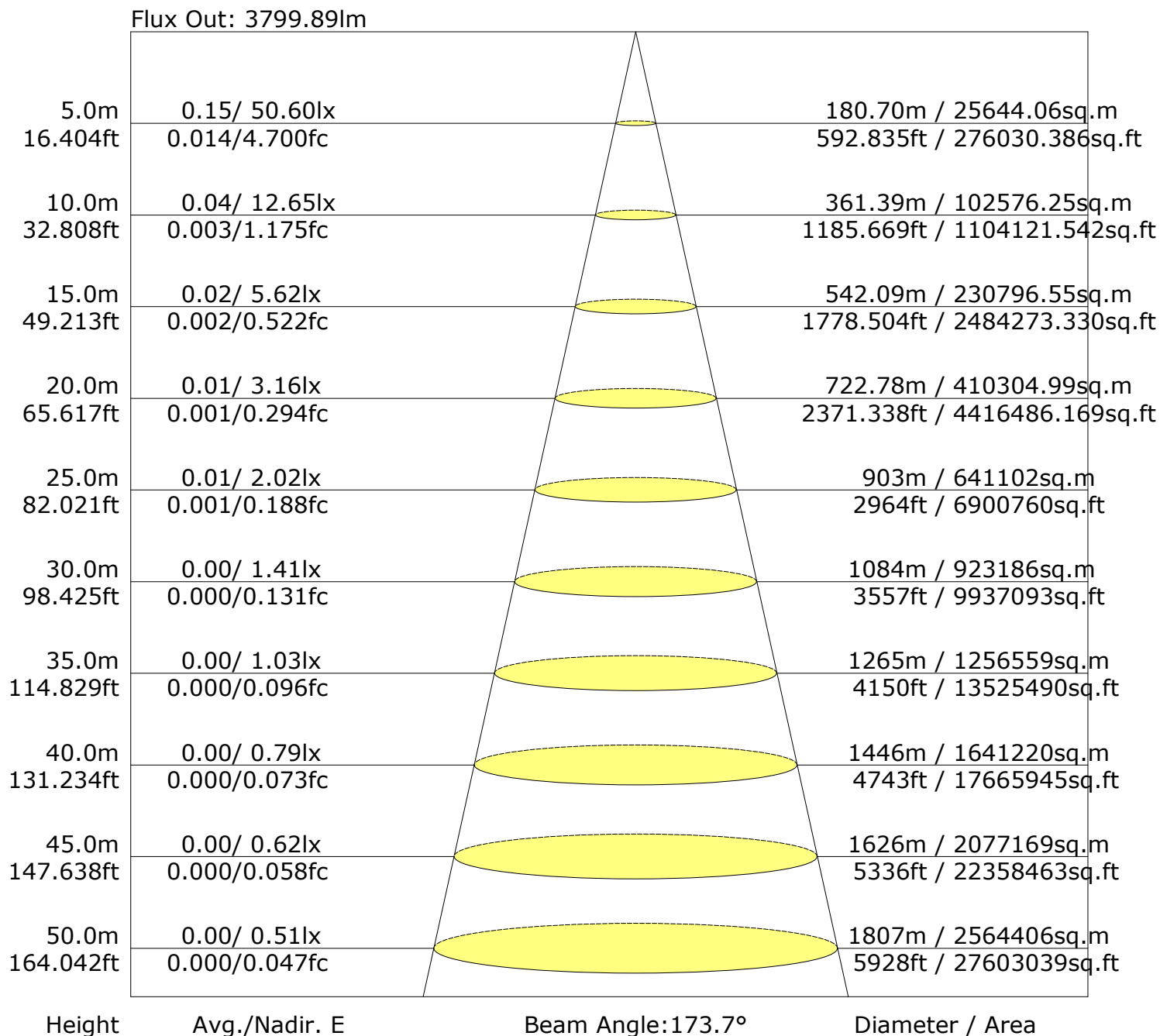
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	6.0
3.1	27.0	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.5	1.3	0.9	0.3	6.0
23.4	68.7	1.2	1.7	2.3	3.1	3.9	4.7	5.4	6.1	6.1	6.1	6.1	6.1	6.1	6.1	4.0	3.1	1.7	0.8	27.0
65.0	131.2	1.6	2.5	4.0	5.9	7.7	9.3	10.6	11.5	12.0	12.0	12.0	12.0	12.0	12.0	7.9	6.1	2.7	1.3	68.7
127.1	204.6	1.7	3.4	6.2	9.3	12.2	14.8	16.7	18.8	18.9	18.9	18.9	18.9	18.9	18.9	12.5	9.7	3.7	0.8	131.2
200.2	278.1	1.7	4.3	8.5	12.7	16.7	20.1	22.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7	17.2	13.4	5.0	0.8	204.6
227.3	341.8	1.7	5.4	10.6	15.8	20.5	24.7	28.0	31.5	31.6	31.6	31.6	31.6	31.6	31.6	21.3	16.7	6.1	0.8	278.1
337.7	438.7	1.8	6.3	12.3	18.2	23.5	28.0	31.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	24.2	19.0	7.0	0.8	341.8
385.0	441.3	1.8	6.9	13.3	19.5	25.1	29.9	33.7	37.8	37.9	37.9	37.9	37.9	37.9	37.9	25.7	20.2	7.5	0.8	438.7
409.9	441.3	1.9	7.1	13.5	19.7	25.3	30.1	34.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	25.9	20.4	7.7	0.8	441.3
413.1	441.3	2.1	6.8	12.9	18.8	24.1	28.6	32.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	24.8	19.6	7.5	0.8	441.3
493.5	441.3	2.1	6.1	11.4	16.7	21.4	25.6	29.0	32.6	32.6	32.6	32.6	32.6	32.6	32.6	22.2	17.5	6.9	0.8	441.3
429.3	441.3	2.2	5.2	9.5	13.8	17.8	21.3	24.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	18.3	14.4	5.8	0.8	441.3
222.0	441.3	2.1	4.2	7.2	10.4	13.4	16.0	18.0	20.3	20.4	20.4	20.4	20.4	20.4	20.4	13.7	10.8	4.5	0.8	441.3
146.2	441.3	1.9	3.1	4.8	6.8	8.8	10.5	11.8	12.8	13.4	13.4	13.4	13.4	13.4	13.4	8.9	7.0	3.3	0.8	441.3
79.9	441.3	1.5	2.1	2.8	3.8	4.7	5.6	6.3	7.1	7.1	7.1	7.1	7.1	7.1	7.1	4.8	3.8	2.2	0.8	441.3
32.2	441.3	0.9	1.1	1.4	1.6	1.9	2.2	2.4	2.6	2.7	2.7	2.7	2.7	2.7	2.7	1.9	1.7	1.2	0.8	441.3
6.5	441.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	441.3
3765	3825	27.5	67.6	122.5	178.2	229.4	273.9	309.6	348.7	348.7	348.7	348.7	348.7	348.7	348.7	235.8	185.3	74.3	30.6	3825
		1.4	63.5	121.9	177.9	229.3	273.8	309.5	348.0	348.0	348.0	348.0	348.0	348.0	348.0	235.6	185.1	72.1	5.6	

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Inspector:

The Average Illuminance Effective Figure



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	17.2	18.3	18.0	19.1	20.2	16.5	17.6	17.3	18.4	19.5
3H	19.2	20.1	20.0	21.0	22.0	18.3	19.3	19.2	20.1	21.2
4H	20.0	20.9	20.8	21.7	22.8	19.0	19.9	19.8	20.7	21.8
6H	20.7	21.5	21.5	22.4	23.5	19.4	20.2	20.3	21.1	22.2
8H	21.0	21.8	21.9	22.7	23.8	19.5	20.3	20.4	21.2	22.3
12H	21.4	22.1	22.3	23.0	24.1	19.6	20.4	20.5	21.2	22.4
X=4H Y=2H	17.8	18.6	18.6	19.5	20.6	17.2	18.1	18.0	18.9	20.0
3H	19.9	20.7	20.8	21.6	22.7	19.2	19.9	20.0	20.8	21.9
4H	20.9	21.6	21.7	22.4	23.6	20.0	20.6	20.8	21.5	22.7
6H	21.7	22.3	22.6	23.2	24.4	20.5	21.1	21.4	22.0	23.2
8H	22.2	22.7	23.1	23.6	24.8	20.7	21.3	21.6	22.2	23.3
12H	22.6	23.1	23.5	24.1	25.2	20.8	21.3	21.7	22.3	23.4
X=8H Y=4H	21.1	21.7	22.0	22.6	23.7	20.3	20.9	21.2	21.8	22.9
6H	22.2	22.6	23.1	23.6	24.7	21.0	21.5	21.9	22.4	23.6
8H	22.7	23.1	23.7	24.1	25.2	21.3	21.7	22.2	22.6	23.8
12H	23.4	23.7	24.3	24.7	25.9	21.5	21.8	22.4	22.8	24.0
X=12H Y=4H	21.1	21.6	22.0	22.6	23.7	20.3	20.8	21.2	21.8	22.9
6H	22.2	22.6	23.2	23.6	24.7	21.1	21.5	22.1	22.5	23.6
8H	22.9	23.2	23.8	24.1	25.4	21.4	21.8	22.4	22.7	23.9

Calculate in accordance with CIE 190:2010 The table is revised with 5907lm ($8\log(F/F_0) = 6.2$).

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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

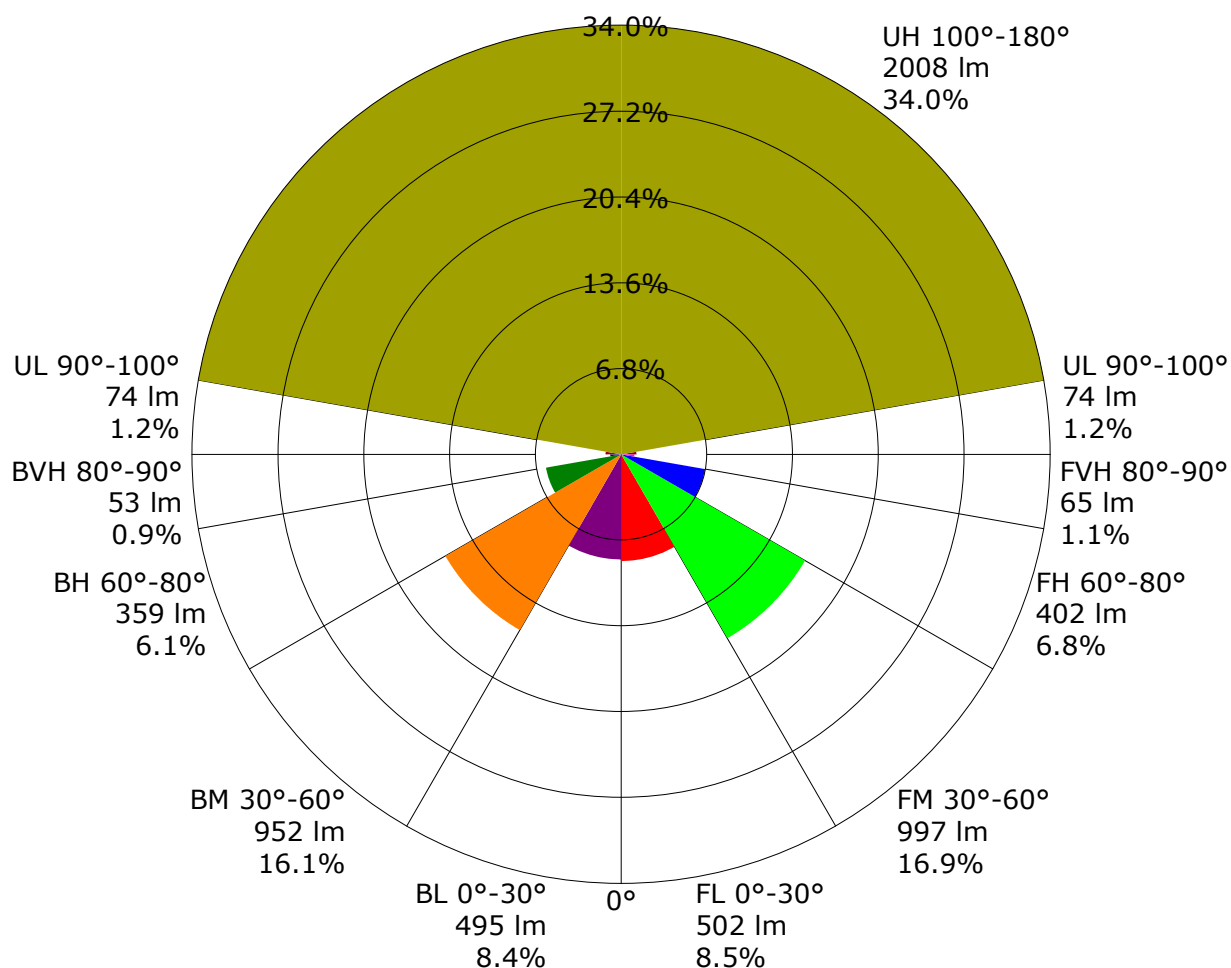
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1966	33.3
	FL (0°-30°)	502	8.5
	FM (30°-60°)	997	16.9
	FH (60°-80°)	402	6.8
	FVH (80°-90°)	65	1.1
	BACK LIGHT	1860	31.5
	BL (0°-30°)	495	8.4
	BM (30°-60°)	952	16.1
	BH (60°-80°)	359	6.1
	BVH (80°-90°)	53	0.9
	UP LIGHT	2082	35.2
	UL (90°-100°)	74	1.2
	UH (100°-180°)	2008	34.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G1

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LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.48	0.57	0.64	0.69	0.76	0.81	0.84	0.88	0.91	
	0.30		0.41	0.50	0.57	0.62	0.70	0.75	0.79	0.84	0.88	
	0.20		0.35	0.45	0.52	0.57	0.65	0.71	0.75	0.81	0.85	
0.50	0.50	0.20	0.43	0.51	0.57	0.62	0.67	0.72	0.74	0.78	0.81	
	0.30		0.37	0.46	0.52	0.56	0.63	0.67	0.71	0.75	0.78	
	0.20		0.33	0.42	0.47	0.52	0.59	0.64	0.67	0.72	0.76	
0.30	0.50	0.20	0.39	0.46	0.51	0.55	0.60	0.63	0.66	0.69	0.71	
	0.30		0.34	0.41	0.47	0.50	0.56	0.60	0.63	0.66	0.69	
	0.20		0.30	0.37	0.43	0.47	0.53	0.57	0.60	0.64	0.67	
0.00	0.00	0.00	0.25	0.31	0.36	0.39	0.44	0.47	0.49	0.53	0.55	
Rating:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.93	0.78	0.66	0.58	0.47	0.39	0.33	0.26	0.21	
	0.30		0.78	0.66	0.58	0.51	0.42	0.36	0.31	0.24	0.20	
	0.20		0.67	0.58	0.51	0.46	0.38	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.83	0.68	0.58	0.51	0.41	0.36	0.29	0.23	0.19	
	0.30		0.70	0.59	0.52	0.46	0.37	0.31	0.27	0.22	0.18	
	0.20		0.61	0.52	0.46	0.41	0.34	0.29	0.26	0.21	0.17	
0.30	0.50	0.20	0.73	0.60	0.51	0.45	0.36	0.30	0.25	0.20	0.16	
	0.30		0.62	0.53	0.46	0.40	0.33	0.28	0.24	0.19	0.16	
	0.20		0.55	0.47	0.41	0.37	0.31	0.26	0.23	0.18	0.15	
0.00	0.00	0.00	0.40	0.34	0.29	0.26	0.21	0.18	0.15	0.12	0.10	
Rating:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.50	0.51	0.52	0.53	0.53	0.54	0.54	0.55	0.55	
	0.30		0.44	0.45	0.46	0.47	0.49	0.50	0.51	0.52	0.52	
	0.20		0.39	0.41	0.42	0.43	0.45	0.46	0.47	0.49	0.50	
0.50	0.50	0.20	0.48	0.49	0.50	0.51	0.51	0.52	0.52	0.52	0.53	
	0.30		0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.50	
	0.20		0.39	0.40	0.41	0.42	0.44	0.45	0.46	0.48	0.48	
0.30	0.50	0.20	0.47	0.48	0.48	0.49	0.49	0.50	0.50	0.50	0.50	
	0.30		0.42	0.43	0.44	0.45	0.46	0.47	0.47	0.48	0.49	
	0.20		0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	
0.00	0.00	0.00	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	
Rating:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1265.4	1.2	1.2	0.02	0.02
1.0-2.0	1265.1	3.6	4.8	0.06	0.08
2.0-3.0	1264.4	6.0	10.9	0.10	0.18
3.0-4.0	1263.3	8.5	19.3	0.14	0.33
4.0-5.0	1261.9	10.9	30.2	0.18	0.51
5.0-6.0	1260.1	13.2	43.4	0.22	0.74
6.0-7.0	1258.0	15.6	59.1	0.26	1.00
7.0-8.0	1255.6	18.0	77.0	0.30	1.30
8.0-9.0	1252.8	20.3	97.3	0.34	1.65
9.0-10.0	1249.6	22.6	120.0	0.38	2.03
10.0-11.0	1246.0	24.9	144.9	0.42	2.45
11.0-12.0	1242.1	27.2	172.0	0.46	2.91
12.0-13.0	1237.8	29.4	201.4	0.50	3.41
13.0-14.0	1233.1	31.6	233.0	0.53	3.94
14.0-15.0	1228.1	33.7	266.7	0.57	4.51
15.0-16.0	1222.7	35.8	302.5	0.61	5.12
16.0-17.0	1216.8	37.9	340.4	0.64	5.76
17.0-18.0	1210.7	39.9	380.3	0.68	6.44
18.0-19.0	1204.1	41.9	422.2	0.71	7.15
19.0-20.0	1197.1	43.8	466.1	0.74	7.89
20.0-21.0	1189.7	45.7	511.7	0.77	8.66
21.0-22.0	1181.8	47.5	559.2	0.80	9.47
22.0-23.0	1173.6	49.2	608.5	0.83	10.30
23.0-24.0	1164.8	50.9	659.4	0.86	11.16
24.0-25.0	1155.7	52.6	712.0	0.89	12.05
25.0-26.0	1146.2	54.1	766.1	0.92	12.97
26.0-27.0	1136.2	55.6	821.7	0.94	13.91
27.0-28.0	1125.7	57.0	878.7	0.96	14.87
28.0-29.0	1115.0	58.3	937.0	0.99	15.86
29.0-30.0	1104.0	59.6	996.6	1.01	16.87
30.0-31.0	1092.4	60.8	1057.4	1.03	17.90
31.0-32.0	1080.3	61.9	1119.3	1.05	18.95
32.0-33.0	1068.1	62.9	1182.3	1.07	20.01
33.0-34.0	1055.6	63.9	1246.2	1.08	21.10
34.0-35.0	1042.4	64.7	1310.9	1.10	22.19
35.0-36.0	1028.8	65.5	1376.4	1.11	23.30

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1015.1	66.2	1442.6	1.12	24.42
37.0-38.0	1000.9	66.8	1509.4	1.13	25.55
38.0-39.0	986.1	67.3	1576.8	1.14	26.69
39.0-40.0	970.9	67.7	1644.5	1.15	27.84
40.0-41.0	955.6	68.1	1712.6	1.15	28.99
41.0-42.0	939.9	68.3	1780.8	1.16	30.15
42.0-43.0	923.7	68.4	1849.3	1.16	31.30
43.0-44.0	907.2	68.5	1917.8	1.16	32.46
44.0-45.0	890.5	68.4	1986.2	1.16	33.62
45.0-46.0	873.4	68.3	2054.5	1.16	34.78
46.0-47.0	855.8	68.1	2122.6	1.15	35.93
47.0-48.0	837.9	67.7	2190.3	1.15	37.08
48.0-49.0	819.9	67.3	2257.7	1.14	38.22
49.0-50.0	801.6	66.8	2324.5	1.13	39.35
50.0-51.0	782.8	66.2	2390.8	1.12	40.47
51.0-52.0	763.8	65.5	2456.3	1.11	41.58
52.0-53.0	744.7	64.8	2521.1	1.10	42.68
53.0-54.0	725.4	63.9	2585.0	1.08	43.76
54.0-55.0	705.6	63.0	2648.0	1.07	44.83
55.0-56.0	685.4	61.9	2710.0	1.05	45.87
56.0-57.0	665.1	60.8	2770.8	1.03	46.90
57.0-58.0	644.7	59.6	2830.4	1.01	47.91
58.0-59.0	623.8	58.3	2888.7	0.99	48.90
59.0-60.0	602.7	56.9	2945.7	0.96	49.86
60.0-61.0	581.7	55.5	3001.2	0.94	50.80
61.0-62.0	560.4	54.0	3055.2	0.91	51.72
62.0-63.0	538.8	52.4	3107.6	0.89	52.61
63.0-64.0	517.0	50.7	3158.4	0.86	53.46
64.0-65.0	495.1	49.0	3207.4	0.83	54.29
65.0-66.0	472.9	47.2	3254.6	0.80	55.09
66.0-67.0	450.9	45.3	3299.9	0.77	55.86
67.0-68.0	428.8	43.4	3343.3	0.74	56.60
68.0-69.0	406.7	41.5	3384.8	0.70	57.30
69.0-70.0	384.5	39.5	3424.3	0.67	57.97
70.0-71.0	362.5	37.5	3461.8	0.63	58.60
71.0-72.0	340.4	35.4	3497.2	0.60	59.20

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	318.6	33.3	3530.5	0.56	59.76
73.0-74.0	297.0	31.2	3561.7	0.53	60.29
74.0-75.0	276.0	29.2	3590.9	0.49	60.79
75.0-76.0	255.5	27.1	3618.0	0.46	61.25
76.0-77.0	235.5	25.1	3643.1	0.43	61.67
77.0-78.0	216.4	23.2	3666.3	0.39	62.06
78.0-79.0	198.4	21.3	3687.6	0.36	62.42
79.0-80.0	180.9	19.5	3707.1	0.33	62.75
80.0-81.0	164.2	17.8	3724.9	0.30	63.06
81.0-82.0	148.7	16.1	3741.0	0.27	63.33
82.0-83.0	134.3	14.6	3755.6	0.25	63.58
83.0-84.0	121.1	13.2	3768.8	0.22	63.80
84.0-85.0	109.2	11.9	3780.8	0.20	64.00
85.0-86.0	98.4	10.8	3791.5	0.18	64.18
86.0-87.0	88.8	9.7	3801.2	0.16	64.35
87.0-88.0	80.4	8.8	3810.0	0.15	64.50
88.0-89.0	73.1	8.0	3818.1	0.14	64.63
89.0-90.0	68.4	7.5	3825.6	0.13	64.76
90.0-91.0	65.0	7.1	3832.7	0.12	64.88
91.0-92.0	61.6	6.8	3839.4	0.11	64.99
92.0-93.0	59.7	6.5	3846.0	0.11	65.10
93.0-94.0	59.0	6.5	3852.4	0.11	65.21
94.0-95.0	60.0	6.6	3859.0	0.11	65.32
95.0-96.0	62.5	6.8	3865.8	0.12	65.44
96.0-97.0	66.6	7.3	3873.1	0.12	65.56
97.0-98.0	72.4	7.9	3880.9	0.13	65.70
98.0-99.0	79.8	8.7	3889.6	0.15	65.84
99.0-100.0	88.6	9.6	3899.2	0.16	66.01
100.0-101.0	98.1	10.6	3909.7	0.18	66.18
101.0-102.0	108.4	11.6	3921.4	0.20	66.38
102.0-103.0	119.2	12.8	3934.2	0.22	66.60
103.0-104.0	130.5	13.9	3948.1	0.24	66.83
104.0-105.0	141.9	15.1	3963.1	0.26	67.09
105.0-106.0	153.6	16.2	3979.4	0.27	67.36
106.0-107.0	165.4	17.4	3996.8	0.29	67.66
107.0-108.0	177.4	18.6	4015.3	0.31	67.97

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	189.2	19.7	4035.0	0.33	68.30
109.0-110.0	201.1	20.8	4055.8	0.35	68.66
110.0-111.0	213.2	21.9	4077.7	0.37	69.03
111.0-112.0	225.1	23.0	4100.6	0.39	69.42
112.0-113.0	237.1	24.0	4124.7	0.41	69.82
113.0-114.0	249.2	25.1	4149.7	0.42	70.25
114.0-115.0	261.1	26.1	4175.8	0.44	70.69
115.0-116.0	272.8	27.0	4202.8	0.46	71.14
116.0-117.0	284.5	27.9	4230.7	0.47	71.62
117.0-118.0	296.2	28.8	4259.5	0.49	72.10
118.0-119.0	307.7	29.7	4289.2	0.50	72.61
119.0-120.0	318.9	30.4	4319.6	0.52	73.12
120.0-121.0	330.0	31.2	4350.8	0.53	73.65
121.0-122.0	341.4	31.9	4382.7	0.54	74.19
122.0-123.0	352.4	32.6	4415.3	0.55	74.74
123.0-124.0	363.2	33.2	4448.5	0.56	75.30
124.0-125.0	373.9	33.8	4482.3	0.57	75.88
125.0-126.0	384.5	34.3	4516.6	0.58	76.46
126.0-127.0	395.0	34.8	4551.4	0.59	77.05
127.0-128.0	405.0	35.2	4586.7	0.60	77.64
128.0-129.0	414.9	35.6	4622.3	0.60	78.25
129.0-130.0	424.8	35.9	4658.2	0.61	78.85
130.0-131.0	434.4	36.2	4694.4	0.61	79.47
131.0-132.0	443.8	36.5	4730.9	0.62	80.08
132.0-133.0	453.1	36.6	4767.5	0.62	80.70
133.0-134.0	462.4	36.8	4804.3	0.62	81.33
134.0-135.0	471.5	36.9	4841.2	0.62	81.95
135.0-136.0	480.3	36.9	4878.1	0.62	82.58
136.0-137.0	488.9	36.9	4915.0	0.62	83.20
137.0-138.0	497.5	36.9	4951.9	0.62	83.82
138.0-139.0	505.9	36.8	4988.6	0.62	84.45
139.0-140.0	514.1	36.6	5025.2	0.62	85.07
140.0-141.0	522.1	36.4	5061.7	0.62	85.68
141.0-142.0	530.0	36.2	5097.8	0.61	86.30
142.0-143.0	537.7	35.9	5133.7	0.61	86.90
143.0-144.0	545.0	35.6	5169.3	0.60	87.51

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	552.2	35.2	5204.4	0.60	88.10
145.0-146.0	559.3	34.7	5239.2	0.59	88.69
146.0-147.0	566.1	34.3	5273.5	0.58	89.27
147.0-148.0	572.7	33.7	5307.2	0.57	89.84
148.0-149.0	579.1	33.2	5340.4	0.56	90.40
149.0-150.0	585.5	32.6	5373.0	0.55	90.95
150.0-151.0	591.6	31.9	5404.9	0.54	91.49
151.0-152.0	597.3	31.3	5436.2	0.53	92.02
152.0-153.0	603.1	30.5	5466.7	0.52	92.54
153.0-154.0	608.7	29.8	5496.5	0.50	93.04
154.0-155.0	614.0	29.0	5525.5	0.49	93.53
155.0-156.0	619.1	28.2	5553.6	0.48	94.01
156.0-157.0	624.1	27.3	5580.9	0.46	94.47
157.0-158.0	628.8	26.4	5607.3	0.45	94.92
158.0-159.0	633.3	25.5	5632.7	0.43	95.35
159.0-160.0	637.6	24.5	5657.2	0.41	95.77
160.0-161.0	641.7	23.5	5680.7	0.40	96.16
161.0-162.0	645.6	22.5	5703.2	0.38	96.54
162.0-163.0	649.3	21.4	5724.6	0.36	96.91
163.0-164.0	652.7	20.3	5744.9	0.34	97.25
164.0-165.0	655.9	19.2	5764.2	0.33	97.58
165.0-166.0	659.0	18.1	5782.2	0.31	97.88
166.0-167.0	661.9	16.9	5799.2	0.29	98.17
167.0-168.0	664.5	15.8	5815.0	0.27	98.44
168.0-169.0	666.9	14.6	5829.5	0.25	98.68
169.0-170.0	669.2	13.4	5842.9	0.23	98.91
170.0-171.0	671.3	12.1	5855.1	0.21	99.11
171.0-172.0	673.0	10.9	5866.0	0.18	99.30
172.0-173.0	674.7	9.7	5875.6	0.16	99.46
173.0-174.0	676.1	8.4	5884.0	0.14	99.60
174.0-175.0	677.3	7.1	5891.1	0.12	99.73
175.0-176.0	678.3	5.8	5897.0	0.10	99.82
176.0-177.0	679.1	4.5	5901.5	0.08	99.90
177.0-178.0	679.7	3.3	5904.8	0.06	99.96
178.0-179.0	680.2	2.0	5906.7	0.03	99.99
179.0-180.0	680.4	0.7	5907.4	0.01	100.00

C Plane (°):0.0-360.0: 30.0
 Test Lab: MESTER LAB
 Test Type: TYPE C
 Temperature: 25.5℃
 Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 13.600 m [K=1.0000]
 Humidity: 45% R.H
 Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1986.20 lm

%lum = 33.6%

%lamp = 33.6%

cone flux(120°): 2945.68 lm

%lum = 49.9%

%lamp = 49.9%

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G0.0	1264.9	1265.7	1265.5	1265.8	1265.8	1265.6	1264.9	1265.7	1265.5
G1.0	1265.5	1266.1	1266.2	1265.6	1266.1	1264.6	1263.9	1264.5	1264.6
G2.0	1266.1	1266.3	1266.2	1265.3	1265.1	1263.7	1262.8	1263.7	1263.7
G3.0	1266.1	1266.0	1266.3	1264.4	1264.2	1262.8	1261.4	1262.3	1261.4
G4.0	1265.9	1265.7	1265.3	1263.1	1262.8	1261.2	1259.7	1260.2	1259.5
G5.0	1265.5	1265.0	1264.0	1261.3	1261.2	1259.1	1257.7	1258.5	1257.0
G6.0	1265.2	1264.2	1262.5	1258.9	1258.9	1257.1	1255.6	1256.1	1254.2
G7.0	1264.0	1263.1	1260.8	1256.2	1256.4	1255.2	1253.3	1253.5	1250.6
G8.0	1263.0	1261.2	1258.6	1253.4	1253.0	1252.0	1250.8	1250.3	1247.1
G9.0	1261.8	1259.2	1255.3	1249.6	1249.8	1248.7	1247.5	1247.0	1243.0
G10.0	1260.2	1257.1	1252.7	1245.4	1246.0	1245.6	1244.0	1243.9	1238.5
G11.0	1258.5	1254.7	1249.2	1240.8	1242.1	1242.0	1240.4	1239.7	1233.1
G12.0	1255.8	1251.6	1245.1	1236.3	1237.7	1237.9	1236.6	1235.1	1228.0
G13.0	1253.2	1248.6	1240.9	1230.3	1232.2	1233.3	1232.5	1230.8	1222.6
G14.0	1250.5	1244.6	1236.1	1224.4	1226.9	1228.8	1228.1	1225.4	1216.0
G15.0	1247.3	1241.0	1231.3	1218.7	1221.2	1223.3	1223.7	1219.9	1209.7
G16.0	1244.1	1237.0	1225.0	1211.3	1214.7	1217.7	1217.7	1214.5	1202.7
G17.0	1240.4	1232.4	1219.5	1204.3	1208.1	1211.9	1212.6	1208.5	1195.4
G18.0	1236.1	1227.0	1213.3	1197.1	1201.3	1206.3	1206.9	1201.9	1187.4
G19.0	1231.7	1221.9	1206.6	1188.4	1194.2	1199.1	1199.9	1195.0	1179.5
G20.0	1226.9	1216.1	1198.8	1180.1	1185.6	1192.2	1193.7	1188.1	1171.0
G21.0	1221.0	1209.4	1191.6	1171.7	1177.8	1185.4	1185.9	1180.4	1161.4
G22.0	1215.4	1203.4	1183.7	1162.3	1169.0	1176.9	1178.5	1172.3	1152.5
G23.0	1208.8	1196.5	1174.7	1152.2	1159.3	1168.8	1169.8	1164.0	1143.1
G24.0	1202.3	1188.2	1166.1	1142.6	1150.2	1160.1	1161.6	1155.0	1131.8
G25.0	1194.6	1180.4	1157.3	1132.2	1140.5	1151.0	1152.4	1145.9	1121.9
G26.0	1187.0	1172.0	1148.1	1120.6	1130.7	1140.5	1143.2	1135.1	1110.9
G27.0	1178.9	1162.5	1137.5	1109.7	1119.4	1130.8	1132.6	1125.2	1100.2
G28.0	1170.9	1153.5	1127.1	1098.5	1108.6	1119.4	1122.3	1114.0	1087.2
G29.0	1161.0	1144.0	1117.0	1085.7	1097.4	1108.9	1112.4	1102.8	1075.9
G30.0	1151.9	1134.0	1105.9	1073.8	1085.9	1097.8	1100.1	1091.3	1063.7
G31.0	1141.9	1122.7	1093.7	1061.0	1073.0	1086.3	1088.7	1079.7	1051.2
G32.0	1130.9	1111.9	1082.3	1047.6	1060.8	1073.3	1077.7	1066.2	1036.9
G33.0	1120.4	1101.2	1070.0	1034.6	1047.9	1061.5	1065.7	1054.3	1024.0
G34.0	1109.6	1088.2	1057.6	1021.0	1035.1	1048.8	1051.6	1041.6	1010.8
G35.0	1097.9	1076.3	1043.6	1007.5	1020.4	1034.5	1038.6	1028.2	996.9
G36.0	1086.5	1063.7	1030.5	992.2	1007.1	1021.1	1025.2	1013.5	981.2

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G37.0	1073.0	1050.8	1017.3	977.7	993.3	1007.8	1011.2	999.6	966.4
G38.0	1060.3	1036.4	1003.3	963.2	978.6	991.9	995.7	985.3	951.8
G39.0	1047.0	1022.8	987.4	947.0	963.7	977.2	981.0	970.4	936.5
G40.0	1033.4	1009.0	972.6	931.7	946.9	962.0	965.6	953.5	919.0
G41.0	1017.6	994.1	958.1	916.0	931.3	946.7	950.0	938.4	902.8
G42.0	1003.2	978.4	941.0	900.2	915.8	931.4	932.4	922.6	887.1
G43.0	988.0	962.8	925.6	884.5	898.1	913.2	916.0	906.2	869.0
G44.0	972.5	947.3	909.7	866.6	881.5	896.9	899.5	887.6	852.2
G45.0	955.0	931.1	893.2	849.9	865.3	879.7	880.9	870.8	835.3
G46.0	938.5	912.7	875.8	833.1	848.8	862.2	862.8	853.5	817.6
G47.0	921.5	896.1	859.0	816.3	829.5	843.3	845.0	835.9	800.3
G48.0	902.9	878.8	841.8	797.6	812.0	825.3	827.1	816.1	780.8
G49.0	885.1	861.1	824.3	779.5	794.2	806.9	806.7	797.8	763.0
G50.0	867.2	843.3	805.3	761.6	776.3	788.4	787.9	778.9	744.5
G51.0	848.8	822.9	787.2	743.8	756.8	769.4	768.6	760.0	725.9
G52.0	829.2	805.0	769.2	725.7	738.3	748.5	749.2	739.0	705.4
G53.0	809.7	785.9	751.1	705.6	719.6	729.4	727.5	719.5	686.1
G54.0	790.3	766.6	729.9	686.8	700.7	709.5	707.5	700.0	667.2
G55.0	770.9	744.8	711.5	667.8	679.6	689.5	687.4	679.9	647.6
G56.0	748.9	725.3	692.7	648.6	660.3	669.2	666.8	657.8	626.2
G57.0	729.2	705.5	671.8	627.6	641.1	647.1	644.2	637.6	606.5
G58.0	708.4	685.5	651.9	608.3	619.1	626.7	623.8	617.0	586.3
G59.0	685.7	662.6	631.8	588.4	599.1	605.9	602.1	596.1	563.9
G60.0	664.2	641.6	611.8	568.5	578.7	584.9	581.2	572.9	543.2
G61.0	643.1	620.9	590.0	548.7	556.0	561.6	559.6	551.9	522.6
G62.0	621.8	599.8	569.5	526.5	535.7	540.7	535.9	530.6	501.7
G63.0	597.6	576.5	549.3	506.7	514.7	519.5	514.5	506.9	479.0
G64.0	575.9	554.8	528.1	485.5	493.6	495.3	492.7	485.6	458.1
G65.0	553.7	532.8	505.2	464.7	470.6	473.4	468.3	463.6	436.3
G66.0	529.1	510.7	483.8	441.6	449.6	451.5	446.5	439.8	414.5
G67.0	506.8	486.7	462.5	421.0	428.1	429.9	424.3	418.6	392.3
G68.0	484.5	465.1	439.1	400.4	407.0	406.7	400.9	397.0	370.9
G69.0	462.4	442.5	417.0	378.6	383.2	384.9	379.1	375.4	349.5
G70.0	437.6	420.4	396.0	355.5	361.8	362.7	358.0	353.6	328.0
G71.0	415.6	398.5	372.2	334.5	340.2	341.1	336.9	330.4	304.4
G72.0	392.1	374.8	351.6	311.9	317.5	318.7	315.3	309.9	284.0

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G73.0	371.8	352.0	328.8	292.3	295.1	297.2	295.2	288.4	262.5
G74.0	348.1	330.3	306.9	268.8	273.5	276.7	276.3	267.8	241.6
G75.0	328.2	309.4	284.1	248.3	252.9	257.0	259.6	246.7	219.6
G76.0	308.2	288.3	262.3	226.7	231.5	237.5	242.7	227.5	199.9
G77.0	288.4	267.1	241.3	206.0	209.1	220.2	226.4	210.7	180.1
G78.0	271.3	249.9	219.3	185.9	188.9	202.8	213.2	195.1	160.3
G79.0	253.4	230.8	200.4	166.0	168.9	188.9	200.7	180.5	142.0
G80.0	237.2	214.8	178.7	145.8	149.8	174.8	186.6	167.3	124.3
G81.0	222.7	200.0	158.6	126.5	131.4	162.0	174.2	154.2	107.5
G82.0	208.0	184.0	140.7	109.0	114.8	150.2	162.4	141.6	94.2
G83.0	195.4	171.0	122.4	91.5	97.9	137.9	152.2	131.4	81.9
G84.0	181.6	158.1	107.0	75.5	86.9	127.6	141.7	120.8	72.7
G85.0	169.2	146.2	94.8	61.0	76.9	117.6	132.4	111.2	63.5
G86.0	157.4	134.5	82.8	47.8	67.4	108.2	123.7	102.4	56.3
G87.0	146.4	124.2	72.3	36.6	59.2	99.6	116.1	97.4	49.7
G88.0	135.9	114.7	63.5	27.5	52.6	93.5	108.6	89.0	45.1
G89.0	126.2	105.6	56.0	20.7	46.2	87.2	102.4	83.4	40.9
G90.0	106.8	86.7	42.8	19.5	44.8	86.6	109.4	92.1	46.9
G91.0	99.9	81.7	40.8	22.1	42.0	81.8	103.0	85.4	43.5
G92.0	97.2	77.8	40.7	26.4	41.4	77.7	97.1	80.0	40.5
G93.0	91.4	75.2	42.6	31.5	42.7	75.0	92.9	75.8	38.5
G94.0	87.8	73.6	47.3	38.5	46.8	73.2	88.3	72.6	38.1
G95.0	85.8	73.5	54.8	46.0	53.9	72.7	85.4	70.5	39.6
G96.0	85.1	74.8	62.5	55.0	62.2	73.7	83.5	69.9	44.4
G97.0	86.0	78.8	71.9	64.3	70.8	77.1	82.9	71.3	51.1
G98.0	88.8	85.1	82.3	74.7	81.0	83.2	84.1	74.8	59.2
G99.0	96.1	94.7	92.6	85.0	90.8	92.3	88.2	81.6	67.6
G100.0	101.4	103.4	102.6	97.5	100.8	100.9	95.1	90.7	77.2
G101.0	112.1	112.9	114.2	107.3	112.4	110.6	102.6	99.1	87.6
G102.0	121.9	124.4	125.5	118.7	123.4	121.9	112.1	110.1	97.4
G103.0	132.9	134.7	137.8	129.6	135.5	132.2	122.1	120.6	108.6
G104.0	143.5	146.8	150.8	141.8	147.4	143.9	133.1	131.2	119.6
G105.0	155.1	158.3	161.8	154.1	159.6	155.4	143.6	142.4	131.1
G106.0	167.3	169.4	174.5	165.7	172.4	166.7	155.2	154.4	143.3
G107.0	179.0	181.4	186.6	177.9	184.7	178.5	166.4	166.0	155.1
G108.0	191.4	193.8	201.6	190.1	197.9	190.5	178.3	176.8	166.9

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G109.0	201.9	205.1	210.5	202.6	208.1	202.6	189.4	189.3	178.5
G110.0	214.9	217.4	223.9	213.9	221.7	214.1	202.3	202.1	190.3
G111.0	226.9	229.7	235.5	225.9	233.5	226.2	213.2	213.4	202.5
G112.0	238.6	241.4	247.5	237.9	245.6	237.9	225.2	225.1	214.7
G113.0	250.5	253.4	260.2	250.9	258.5	250.0	237.8	236.6	226.2
G114.0	263.4	266.0	271.6	262.4	270.1	262.6	249.8	248.4	239.1
G115.0	275.0	277.8	283.2	273.8	281.6	273.8	260.9	260.6	250.7
G116.0	286.5	289.4	295.5	285.1	293.0	285.6	272.5	272.3	262.2
G117.0	299.1	300.8	307.0	297.8	305.2	297.1	285.1	284.0	273.5
G118.0	310.5	313.2	318.0	308.7	316.3	309.4	296.2	296.2	285.6
G119.0	321.7	324.1	328.8	320.1	327.3	320.8	307.4	307.3	297.0
G120.0	332.7	335.0	340.7	330.8	339.1	332.1	318.2	318.5	307.9
G121.0	344.9	346.0	351.7	341.5	350.0	342.8	330.9	329.4	319.0
G122.0	355.8	358.2	361.9	353.1	360.4	354.9	341.6	341.6	330.9
G123.0	366.8	368.8	372.5	363.8	371.3	365.3	352.7	352.3	341.5
G124.0	378.5	378.9	383.9	374.1	382.5	375.9	364.0	362.6	352.4
G125.0	388.8	389.5	393.7	385.0	392.4	386.3	374.7	374.0	362.9
G126.0	398.9	400.7	403.8	395.4	403.0	397.8	385.3	384.3	373.9
G127.0	409.2	412.0	414.3	405.8	413.4	408.1	395.5	394.4	384.2
G128.0	419.5	420.5	423.8	415.1	423.1	417.6	406.5	404.8	393.4
G129.0	429.6	429.9	433.4	425.2	432.2	426.9	415.8	414.5	403.7
G130.0	439.0	440.5	443.4	435.0	441.7	436.6	426.0	424.8	414.2
G131.0	449.4	449.6	452.4	444.3	451.4	447.2	435.5	434.2	423.1
G132.0	458.7	459.1	461.4	453.4	460.3	456.3	444.9	443.3	432.4
G133.0	467.6	468.2	469.8	462.3	469.4	465.6	455.2	454.0	441.0
G134.0	476.3	477.0	478.8	472.1	477.8	475.0	464.0	462.8	450.6
G135.0	486.4	486.7	488.0	481.4	486.9	483.8	472.7	471.7	460.0
G136.0	494.5	494.6	496.3	489.0	495.4	492.4	481.3	480.1	468.3
G137.0	503.6	503.4	504.4	498.1	503.4	500.7	490.7	489.5	477.1
G138.0	511.3	511.6	512.1	505.9	511.6	509.0	499.6	497.6	486.1
G139.0	519.8	520.2	520.9	514.5	520.5	517.6	507.4	505.8	494.3
G140.0	527.4	528.0	528.6	522.6	527.9	525.5	515.6	514.9	502.8
G141.0	535.2	535.6	536.3	530.3	535.3	533.3	524.2	522.5	510.6
G142.0	542.8	542.9	544.3	537.9	543.5	540.9	532.0	530.0	519.2
G143.0	550.5	550.7	551.7	545.9	550.7	548.3	539.3	537.2	527.1
G144.0	557.7	557.6	558.4	552.8	557.6	555.2	547.5	545.0	534.2

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0
G145.0	564.2	564.0	565.0	559.9	564.6	562.0	554.3	551.9	541.4
G146.0	571.3	570.2	572.5	567.3	572.0	568.8	561.4	558.8	549.4
G147.0	577.8	577.6	578.9	573.7	578.1	575.6	567.9	565.1	556.3
G148.0	583.9	583.6	585.3	580.5	584.6	581.5	574.9	571.2	563.0
G149.0	589.7	589.4	591.0	586.9	590.2	587.4	581.1	577.9	570.0
G150.0	596.0	596.0	597.5	593.5	596.9	593.7	587.1	584.0	576.6
G151.0	601.6	601.1	603.2	599.3	602.6	599.2	593.1	590.4	582.9
G152.0	607.0	606.8	608.9	604.6	608.3	604.6	598.3	596.4	588.8
G153.0	612.0	612.3	613.9	610.8	613.5	610.8	604.0	602.1	595.1
G154.0	617.7	617.4	619.5	616.2	618.6	615.8	609.1	607.7	601.1
G155.0	621.7	622.2	624.3	621.6	623.8	621.0	614.5	613.3	606.3
G156.0	627.0	626.8	629.0	626.4	628.6	625.9	619.8	618.5	611.7
G157.0	631.8	631.9	633.5	631.0	633.0	630.7	624.5	622.8	617.5
G158.0	636.3	636.0	638.0	635.4	638.0	634.8	628.7	627.7	622.2
G159.0	640.1	639.8	641.8	640.1	641.5	639.5	633.7	632.7	626.6
G160.0	643.8	644.2	646.1	644.0	645.8	643.7	638.0	636.8	631.6
G161.0	647.6	647.7	649.7	647.4	649.4	647.3	641.9	640.7	636.2
G162.0	651.1	651.1	653.4	651.5	653.1	650.7	645.5	644.7	640.1
G163.0	654.3	654.6	656.5	655.0	656.5	654.2	649.2	648.5	643.9
G164.0	656.8	657.4	659.4	657.9	659.4	657.4	653.0	651.5	647.7
G165.0	660.0	660.4	662.5	661.1	662.2	660.3	655.8	655.2	651.3
G166.0	662.8	662.9	664.9	664.2	665.2	662.9	659.3	658.8	654.6
G167.0	664.6	665.4	667.7	666.8	667.4	665.8	661.6	661.5	657.9
G168.0	667.5	668.2	669.7	669.0	669.5	668.3	664.0	664.0	661.1
G169.0	669.6	669.5	671.6	671.3	671.7	670.2	665.8	666.4	663.4
G170.0	671.7	672.2	673.6	673.5	673.6	672.3	668.3	668.8	666.0
G171.0	673.2	673.6	675.1	675.0	675.1	674.0	670.2	670.8	668.6
G172.0	674.5	675.3	676.4	676.3	676.8	675.8	672.1	672.7	670.5
G173.0	676.2	676.6	677.4	677.5	677.8	677.0	674.1	674.2	672.5
G174.0	677.1	677.7	678.3	678.3	678.6	678.1	675.1	675.8	674.4
G175.0	678.5	678.3	679.5	679.3	679.4	678.8	676.7	676.9	675.8
G176.0	678.9	679.2	679.9	680.0	680.4	679.7	677.6	678.1	677.2
G177.0	679.4	680.3	680.5	680.4	680.6	680.3	678.5	679.0	678.5
G178.0	679.8	680.5	680.4	680.4	680.6	680.9	679.3	679.7	679.2
G179.0	680.0	680.3	680.6	680.9	680.7	680.7	679.7	679.9	679.7
G180.0	680.0	680.2	680.6	680.5	680.8	680.8	680.0	680.2	680.6

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 5)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G0.0	1265.8	1265.8	1265.6	1264.9					
G1.0	1265.1	1265.9	1265.7	1265.5					
G2.0	1264.4	1265.0	1265.8	1266.1					
G3.0	1262.8	1264.1	1265.6	1266.1					
G4.0	1261.0	1262.6	1264.9	1265.9					
G5.0	1259.0	1260.6	1264.0	1265.5					
G6.0	1256.4	1258.2	1262.7	1265.2					
G7.0	1253.0	1255.9	1261.0	1264.0					
G8.0	1249.5	1253.2	1259.6	1263.0					
G9.0	1245.8	1249.6	1257.5	1261.8					
G10.0	1240.8	1245.6	1254.7	1260.2					
G11.0	1235.9	1241.3	1252.2	1258.5					
G12.0	1231.0	1237.3	1249.1	1255.8					
G13.0	1224.4	1232.0	1245.4	1253.2					
G14.0	1218.4	1226.3	1241.9	1250.5					
G15.0	1212.1	1220.4	1237.9	1247.3					
G16.0	1205.0	1214.4	1233.5	1244.1					
G17.0	1197.1	1207.0	1228.4	1240.4					
G18.0	1189.1	1200.4	1223.3	1236.1					
G19.0	1181.0	1193.2	1217.9	1231.7					
G20.0	1172.3	1185.6	1212.1	1226.9					
G21.0	1162.8	1176.9	1205.2	1221.0					
G22.0	1153.4	1168.1	1198.9	1215.4					
G23.0	1143.5	1159.3	1191.6	1208.8					
G24.0	1132.6	1149.6	1183.6	1202.3					
G25.0	1121.9	1139.9	1175.1	1194.6					
G26.0	1110.9	1129.9	1166.6	1187.0					
G27.0	1098.6	1119.4	1158.0	1178.9					
G28.0	1087.1	1107.8	1148.2	1170.9					
G29.0	1075.2	1096.4	1138.0	1161.0					
G30.0	1062.8	1085.4	1128.2	1151.9					
G31.0	1048.9	1073.7	1116.3	1141.9					
G32.0	1036.0	1060.1	1105.8	1130.9					
G33.0	1022.7	1047.8	1094.3	1120.4					
G34.0	1008.0	1034.8	1082.6	1109.6					
G35.0	993.8	1020.1	1069.0	1097.9					
G36.0	979.4	1006.6	1056.3	1086.5					

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 6)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G37.0	965.1	992.2	1043.5	1073.0					
G38.0	949.0	978.1	1030.3	1060.3					
G39.0	933.6	961.8	1015.1	1047.0					
G40.0	918.3	946.5	1000.9	1033.4					
G41.0	902.6	931.1	986.3	1017.6					
G42.0	885.2	915.7	970.2	1003.2					
G43.0	868.8	898.0	954.9	988.0					
G44.0	852.3	881.7	938.9	972.5					
G45.0	835.7	865.2	922.6	955.0					
G46.0	816.8	848.1	906.2	938.5					
G47.0	799.7	829.2	887.3	921.5					
G48.0	782.4	812.0	870.2	902.9					
G49.0	764.7	794.4	852.4	885.1					
G50.0	746.0	774.6	834.0	867.2					
G51.0	726.3	756.0	814.3	848.8					
G52.0	708.5	737.8	795.5	829.2					
G53.0	690.0	719.3	777.1	809.7					
G54.0	671.1	700.3	757.6	790.3					
G55.0	650.0	679.2	738.0	770.9					
G56.0	631.1	659.7	715.9	748.9					
G57.0	611.7	640.3	696.2	729.2					
G58.0	590.1	620.7	676.4	708.4					
G59.0	570.1	598.5	652.9	685.7					
G60.0	550.1	578.3	632.2	664.2					
G61.0	530.4	557.7	611.8	643.1					
G62.0	508.4	537.3	588.3	621.8					
G63.0	487.9	514.3	567.1	597.6					
G64.0	466.9	493.2	545.2	575.9					
G65.0	444.2	471.9	523.5	553.7					
G66.0	423.7	451.0	499.7	529.1					
G67.0	403.2	427.8	477.9	506.8					
G68.0	379.6	406.5	455.6	484.5					
G69.0	358.6	384.6	431.1	462.4					
G70.0	337.4	360.9	409.7	437.6					
G71.0	316.5	339.5	387.8	415.6					
G72.0	294.0	317.1	364.3	392.1					

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 7)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G73.0	272.4	297.0	341.5	371.8					
G74.0	250.9	273.8	320.1	348.1					
G75.0	230.0	253.2	299.7	328.2					
G76.0	208.8	231.8	279.2	308.2					
G77.0	187.8	211.6	258.7	288.4					
G78.0	167.4	191.5	241.4	271.3					
G79.0	147.8	172.1	223.5	253.4					
G80.0	128.5	153.0	206.6	237.2					
G81.0	109.5	134.7	191.6	222.7					
G82.0	93.8	119.2	178.5	208.0					
G83.0	76.3	104.3	165.0	195.4					
G84.0	61.9	92.4	152.7	181.6					
G85.0	48.0	81.6	140.2	169.2					
G86.0	36.8	72.1	129.8	157.4					
G87.0	27.5	63.7	119.8	146.4					
G88.0	20.6	56.6	109.8	135.9					
G89.0	16.7	50.3	101.3	126.2					
G90.0	21.9	51.8	96.2	106.8					
G91.0	17.9	46.9	88.4	99.9					
G92.0	18.6	43.8	83.4	97.2					
G93.0	21.2	42.0	78.9	91.4					
G94.0	25.3	41.3	75.8	87.8					
G95.0	31.2	42.9	74.0	85.8					
G96.0	38.2	46.9	73.7	85.1					
G97.0	45.7	53.4	75.1	86.0					
G98.0	54.9	61.7	78.4	88.8					
G99.0	64.7	69.9	84.6	96.1					
G100.0	74.7	79.4	93.7	101.4					
G101.0	85.4	89.9	102.7	112.1					
G102.0	97.4	98.7	113.0	121.9					
G103.0	108.6	110.8	123.6	132.9					
G104.0	119.7	121.8	134.3	143.5					
G105.0	131.4	133.1	145.4	155.1					
G106.0	142.9	145.2	157.4	167.3					
G107.0	154.4	156.8	169.1	179.0					
G108.0	165.6	169.0	180.1	191.4					

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 8)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G109.0	178.1	180.1	192.5	201.9					
G110.0	189.7	193.1	204.3	214.9					
G111.0	202.1	203.2	216.4	226.9					
G112.0	214.4	216.0	228.6	238.6					
G113.0	225.7	227.5	240.2	250.5					
G114.0	237.3	240.2	251.8	263.4					
G115.0	250.0	251.9	264.4	275.0					
G116.0	261.5	263.5	275.9	286.5					
G117.0	272.7	275.0	287.0	299.1					
G118.0	284.1	287.0	299.9	310.5					
G119.0	296.1	298.5	310.9	321.7					
G120.0	306.4	309.4	322.1	332.7					
G121.0	317.5	320.4	333.9	344.9					
G122.0	329.4	332.2	344.7	355.8					
G123.0	340.1	342.8	355.4	366.8					
G124.0	350.4	353.4	365.8	378.5					
G125.0	361.8	364.7	377.2	388.8					
G126.0	371.9	375.2	387.4	398.9					
G127.0	382.1	385.0	397.9	409.2					
G128.0	392.3	395.1	407.6	419.5					
G129.0	402.6	405.9	418.3	429.6					
G130.0	412.2	414.9	427.9	439.0					
G131.0	421.4	424.5	437.4	449.4					
G132.0	431.0	433.7	446.8	458.7					
G133.0	440.2	443.5	457.0	467.6					
G134.0	450.2	452.7	466.2	476.3					
G135.0	459.3	461.4	474.8	486.4					
G136.0	468.1	470.1	483.5	494.5					
G137.0	476.9	478.8	492.3	503.6					
G138.0	486.2	488.1	501.1	511.3					
G139.0	493.8	496.3	509.6	519.8					
G140.0	502.8	504.6	517.0	527.4					
G141.0	511.6	513.1	525.6	535.2					
G142.0	519.0	521.1	533.2	542.8					
G143.0	527.0	528.6	540.3	550.5					
G144.0	534.4	535.8	547.4	557.7					

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

Candlepower Table(Continue 9)

Unit: cd

G\C	C270.0	C300.0	C330.0	C360.0					
G145.0	542.4	544.0	555.1	564.2					
G146.0	549.3	550.9	562.0	571.3					
G147.0	556.5	557.9	568.0	577.8					
G148.0	563.1	564.5	574.6	583.9					
G149.0	570.5	571.9	581.2	589.7					
G150.0	576.7	578.5	587.8	596.0					
G151.0	582.9	584.3	593.5	601.6					
G152.0	589.3	590.3	598.9	607.0					
G153.0	595.4	596.5	605.0	612.0					
G154.0	600.9	602.5	610.3	617.7					
G155.0	606.7	607.7	615.4	621.7					
G156.0	612.4	613.0	620.6	627.0					
G157.0	617.7	618.6	625.4	631.8					
G158.0	622.8	622.8	630.0	636.3					
G159.0	627.3	628.2	634.2	640.1					
G160.0	632.2	632.6	638.8	643.8					
G161.0	636.8	636.9	642.6	647.6					
G162.0	640.7	641.2	646.7	651.1					
G163.0	645.1	645.3	650.3	654.3					
G164.0	648.8	648.9	653.5	656.8					
G165.0	652.5	651.9	656.6	660.0					
G166.0	655.3	655.5	659.9	662.8					
G167.0	658.7	659.0	662.8	664.6					
G168.0	662.0	661.8	665.1	667.5					
G169.0	664.2	664.5	667.6	669.6					
G170.0	667.2	667.3	669.7	671.7					
G171.0	669.1	669.6	671.5	673.2					
G172.0	671.7	671.2	673.6	674.5					
G173.0	673.5	673.3	675.3	676.2					
G174.0	675.6	675.0	676.6	677.1					
G175.0	676.2	676.5	677.8	678.5					
G176.0	677.6	677.7	678.8	678.9					
G177.0	678.3	678.4	679.5	679.4					
G178.0	679.3	679.5	680.4	679.8					
G179.0	680.0	680.3	681.0	680.0					
G180.0	680.5	680.8	680.8	680.0					

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: YanQin Zeng

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 13.600 m [K=1.0000]
Humidity: 45% R.H
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	7470.92
L 0-180(75) av	7015.85
L 0-180(85) av	10690.68
L 90-270(65) av	6644.56
L 90-270(75) av	5709.13
L 90-270(85) av	3862.38
L 45(65) av	7086.10
L 45(75) av	6334.50
L 45(85) av	7374.63

Standard: GB/T 29293-2012