

Report No.: MSTLAB241101024

Test Time: 2024/11/1 22:21

Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: MALL014F40W27V30K(Up50%-Down-50%)

Lamp Catalog:

Lamp Description:

Number of Lamps: 1

Lumens per Lamp:

Luminous Length (mm): 1200

Luminous Width (mm): 63

Luminous Height (mm):

Voltage: 120.3 V

Current: 0.338 A

Power: 40.49 W

Power Factor: 0.995

Photometric Results

CIE Class: General Diffuse

Total Rated Lamp Lumens: 5367.9 lm

Measurement Flux: 5367.9 lm

Efficiency: 100%

Downward Ratio: 56%

Upward Ratio: 44%

Horizontal Diffuse Angle(10%,50%,75%,100%): H160.5,H112.8,H76.7,H0

Vertical Diffuse Angle(10%,50%,75%,100%): V161.7,V114.4,V78.3,V0

Luminaire Efficacy Rating (LER): 132.62

C0r0 Intensity: 1036.71 cd

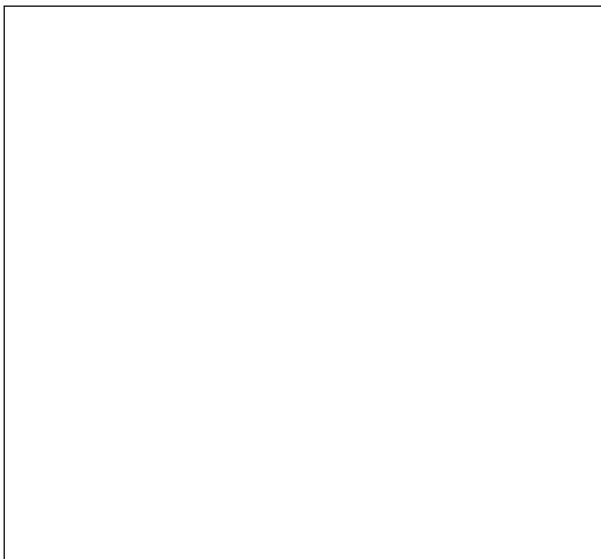
Max. Intensity: 1037.35 cd

Pos of Max. Intensity: H90 V0

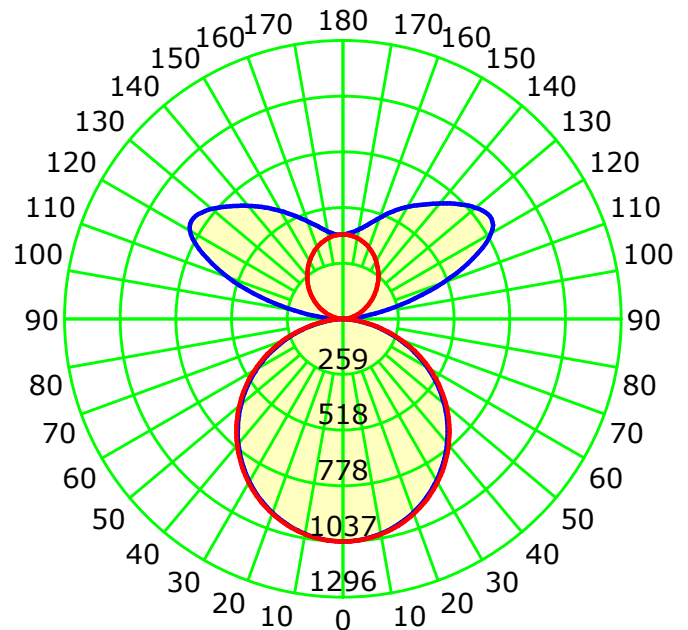
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 214.6°

C Plane (°):0.0-360.0: 30.0

Test Lab: MESTER LAB

Test Type: TYPE C

Temperature: 25.5℃

Operator: Yanzhao Sun

— C0-C180 — C90-C270

Gamma Plane (°):0.0-180.0:1.0

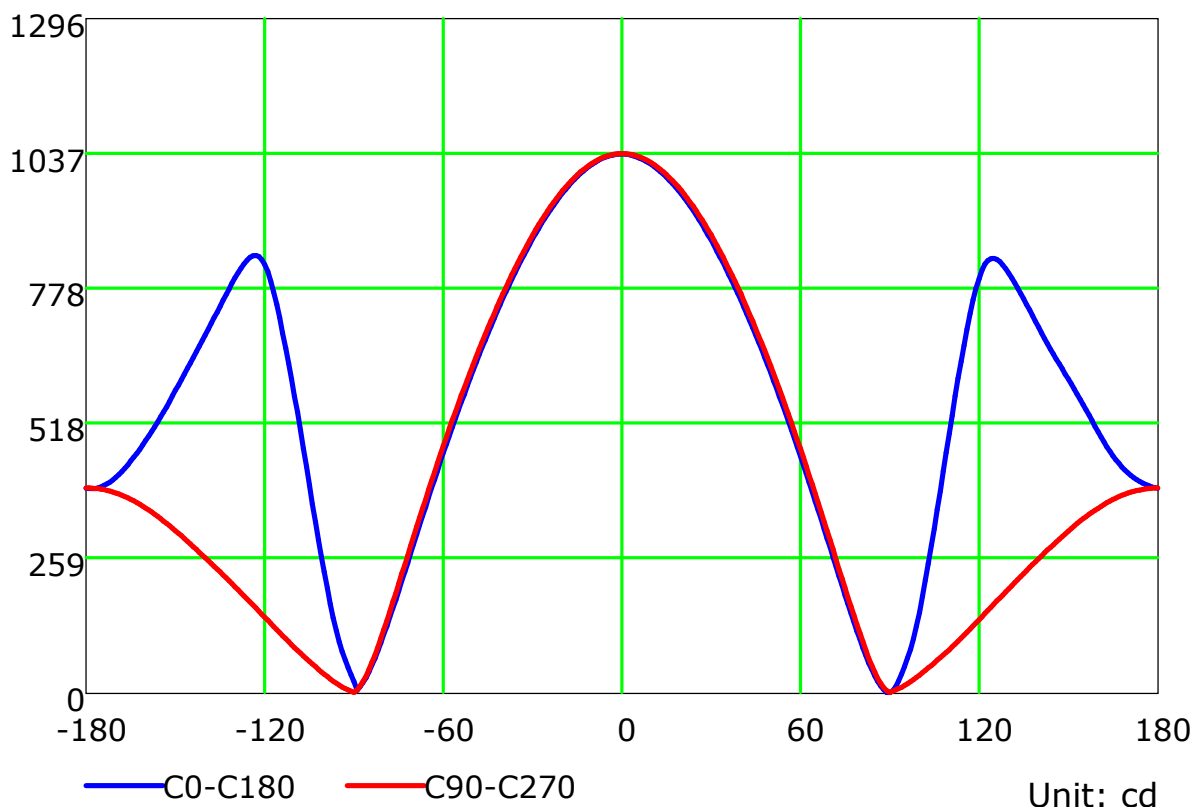
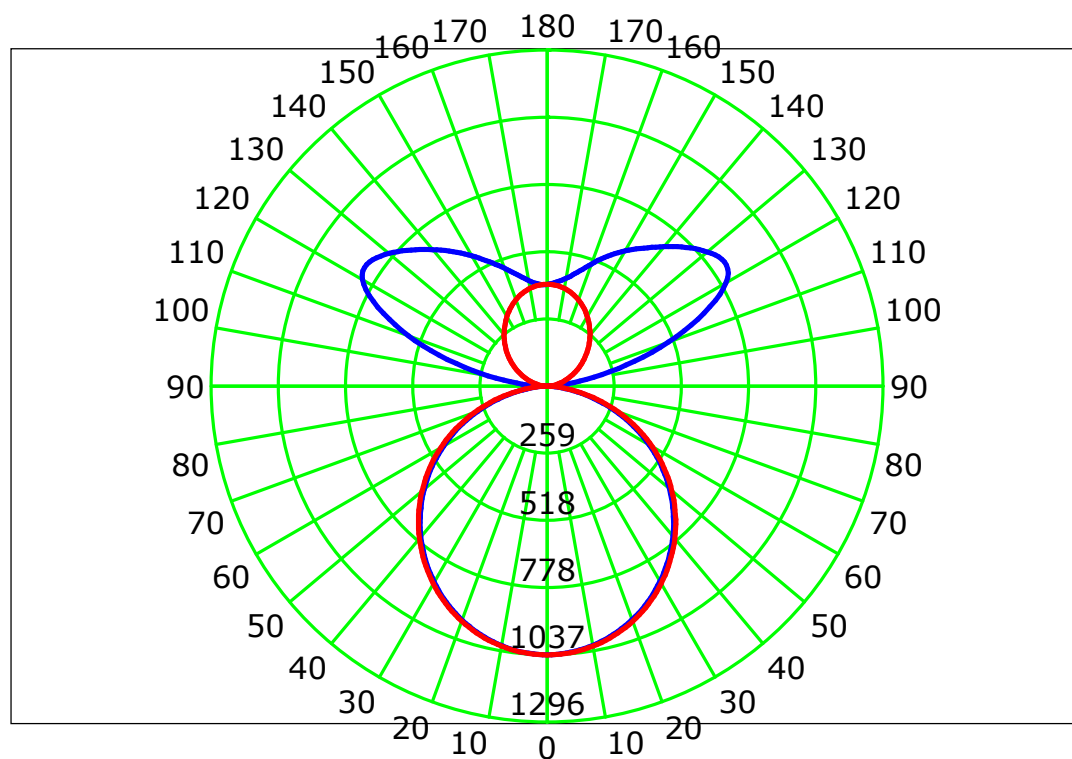
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0900]

Humidity: 45% R.H

Inspector:

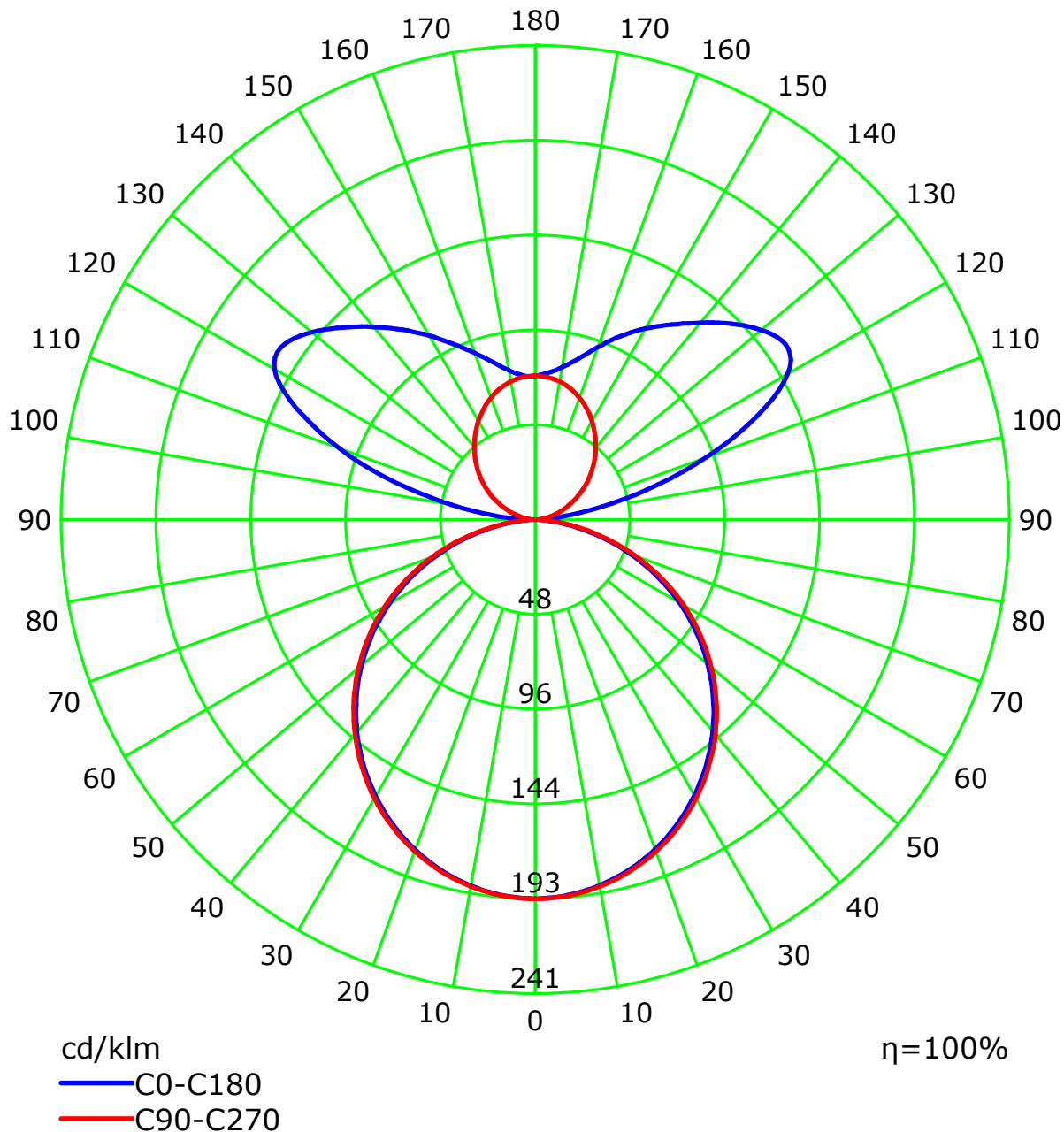
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

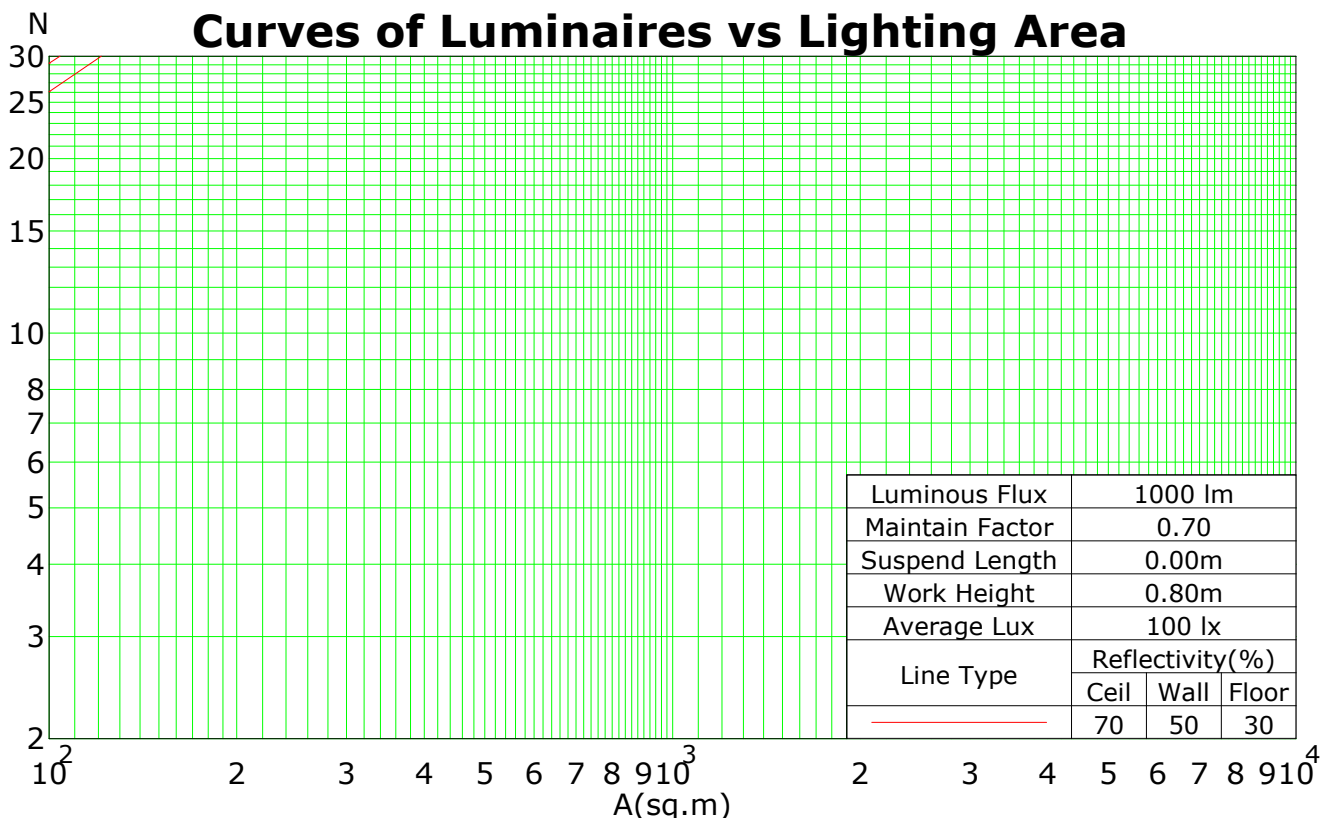
Coefficients Of Utilization - Zonal Cavity Method

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	1.08	1.08	1.08	1.08	1.01	1.01	1.01	1.01	0.86	0.86	0.86	0.73	0.73	0.73	0.61	0.61	0.61	0.56
1	0.99	0.94	0.90	0.87	0.92	0.88	0.84	0.81	0.76	0.73	0.71	0.64	0.62	0.61	0.54	0.53	0.51	0.46
2	0.90	0.82	0.76	0.71	0.83	0.77	0.71	0.66	0.66	0.62	0.58	0.56	0.53	0.50	0.47	0.45	0.43	0.39
3	0.82	0.72	0.65	0.59	0.76	0.67	0.61	0.55	0.58	0.53	0.49	0.49	0.46	0.42	0.42	0.39	0.36	0.32
4	0.75	0.64	0.56	0.49	0.69	0.59	0.52	0.47	0.51	0.46	0.41	0.44	0.40	0.36	0.37	0.34	0.31	0.28
5	0.69	0.57	0.48	0.42	0.63	0.53	0.45	0.40	0.46	0.40	0.36	0.39	0.35	0.31	0.33	0.30	0.27	0.24
6	0.63	0.51	0.42	0.36	0.58	0.47	0.40	0.35	0.41	0.35	0.31	0.35	0.31	0.27	0.30	0.26	0.24	0.21
7	0.58	0.46	0.38	0.32	0.54	0.43	0.35	0.30	0.37	0.31	0.27	0.32	0.28	0.24	0.27	0.24	0.21	0.18
8	0.54	0.41	0.34	0.28	0.50	0.39	0.32	0.27	0.34	0.28	0.24	0.29	0.25	0.21	0.25	0.21	0.19	0.16
9	0.50	0.38	0.30	0.25	0.47	0.36	0.29	0.24	0.31	0.25	0.21	0.27	0.22	0.19	0.23	0.19	0.17	0.15
10	0.47	0.35	0.27	0.22	0.44	0.33	0.26	0.21	0.29	0.23	0.19	0.25	0.20	0.17	0.21	0.18	0.15	0.13

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.26

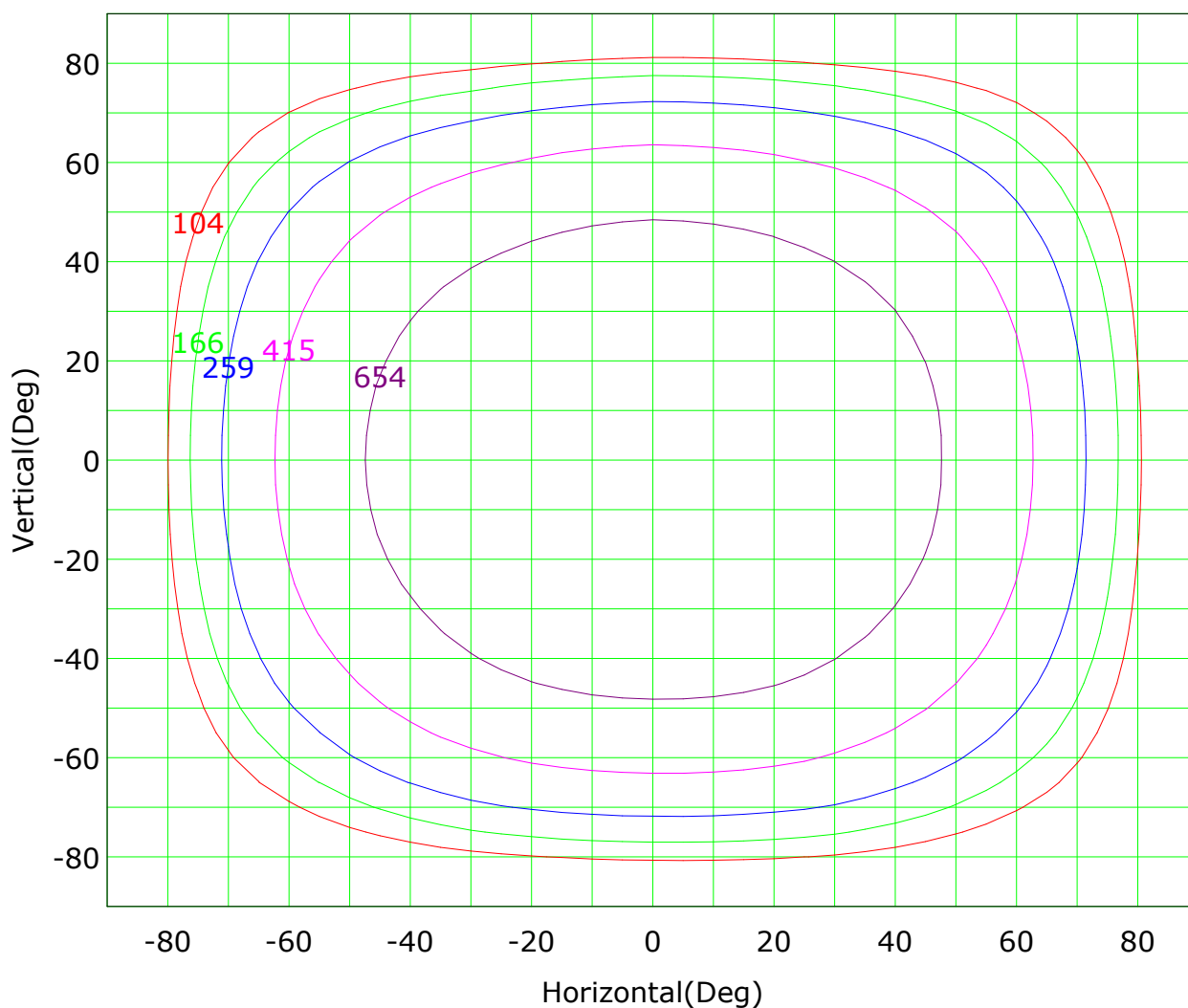
Spacing Criteria (Diagonal): 1.38



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Isocandela (rectangle)



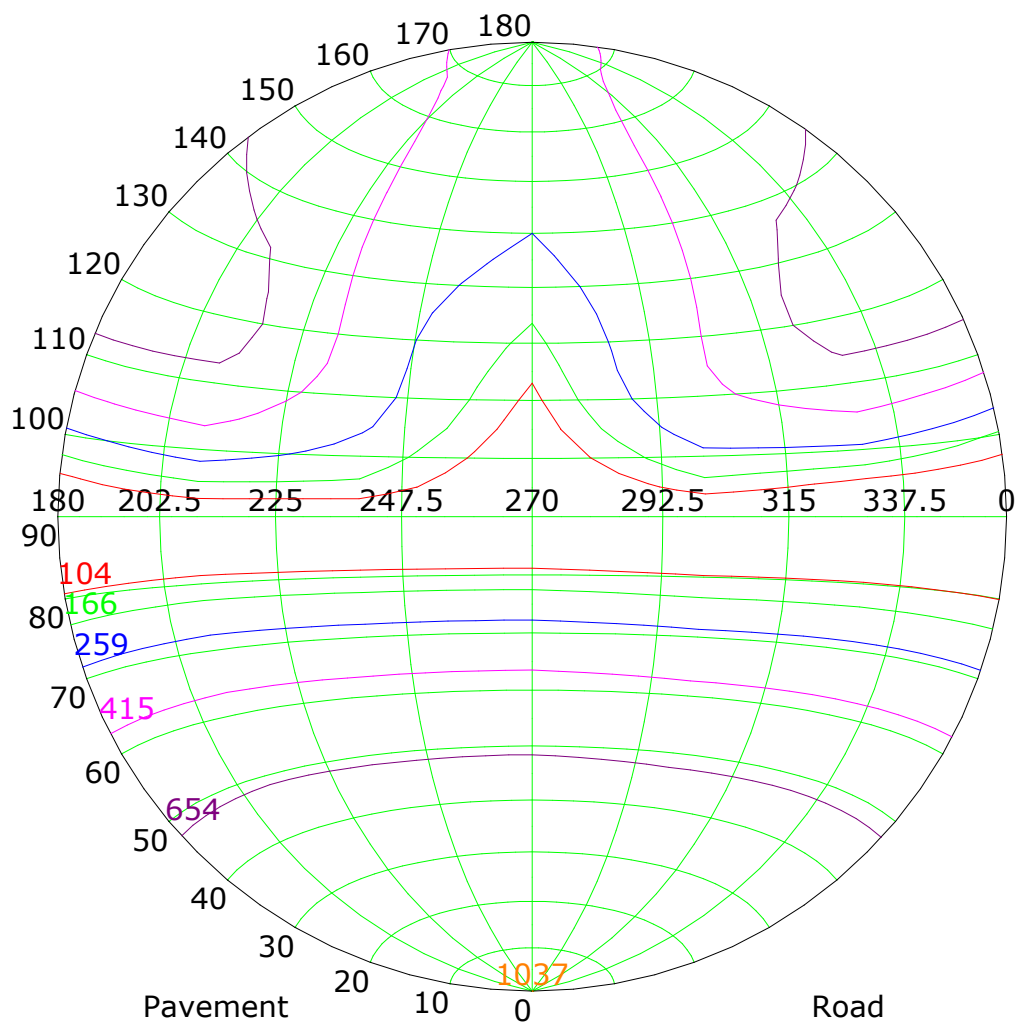
Imax (100%): 1037 cd

(10%): 104 cd	(16%): 166 cd
(25%): 259 cd	(40%): 415 cd
(63%): 654 cd	(100%): 1037 cd

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Isocandela (sphere)

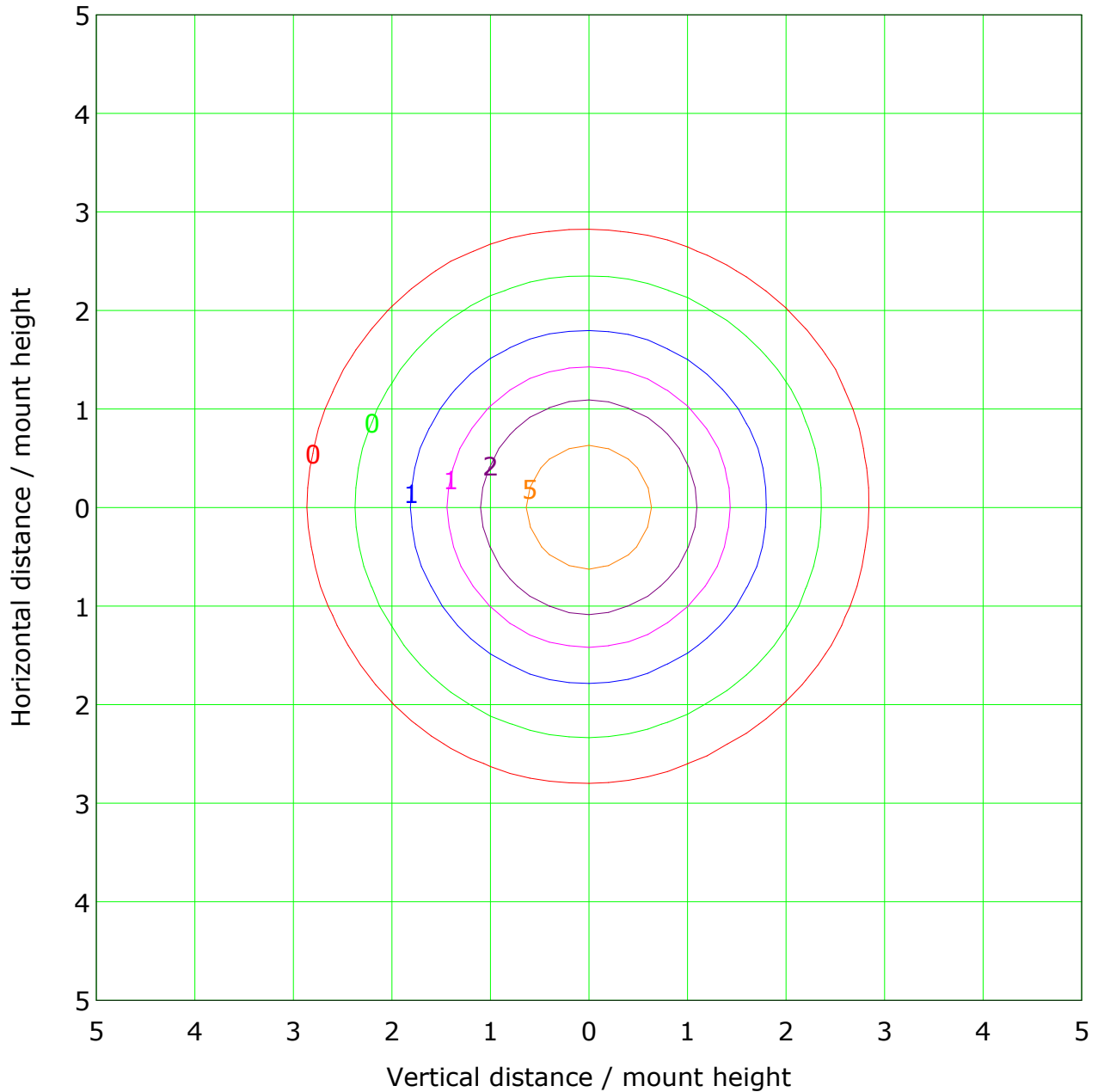


Imax (100%): 1037 cd

(10%): 104 cd
(25%): 259 cd
(63%): 654 cd

(16%): 166 cd
(40%): 415 cd
(100%): 1037 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 10.4 lx

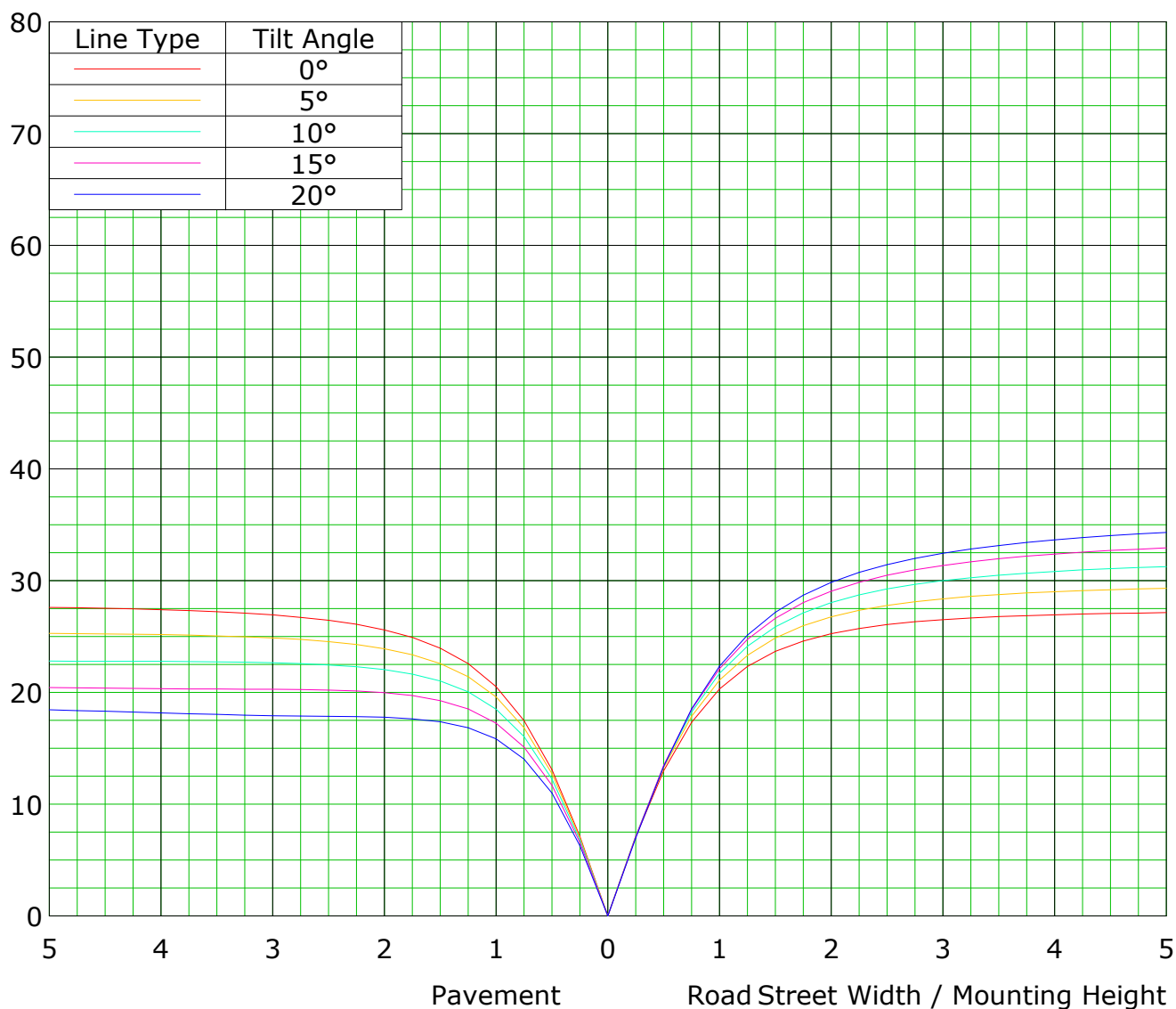
(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.5 lx	(10%): 1.0 lx
(20%): 2.1 lx	(50%): 5.2 lx
(100%): 10.4 lx	

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Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Roadway CU Curve

Efficiency(%)



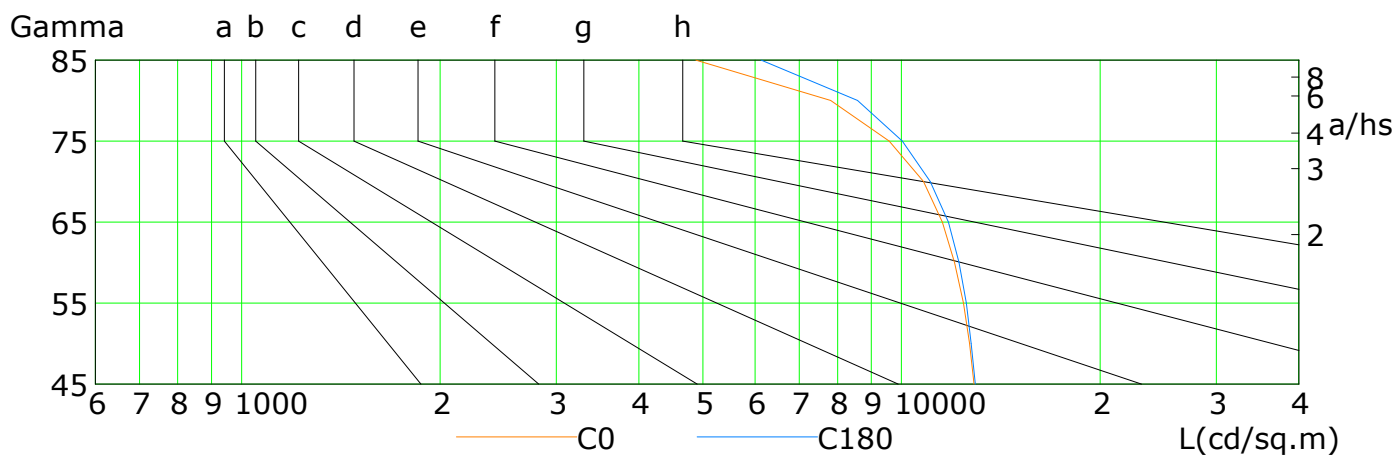
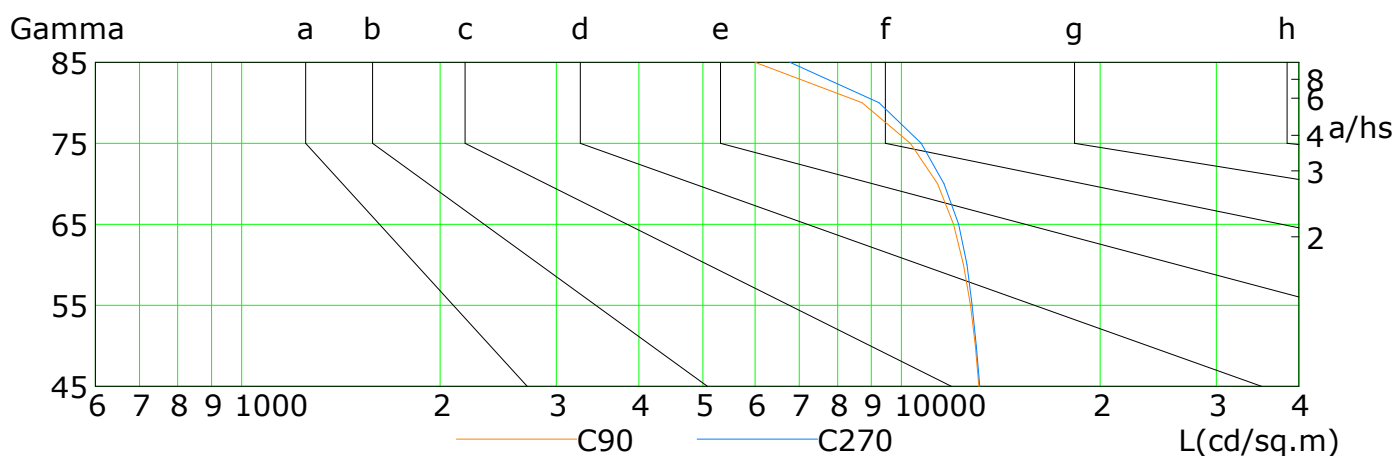
C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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

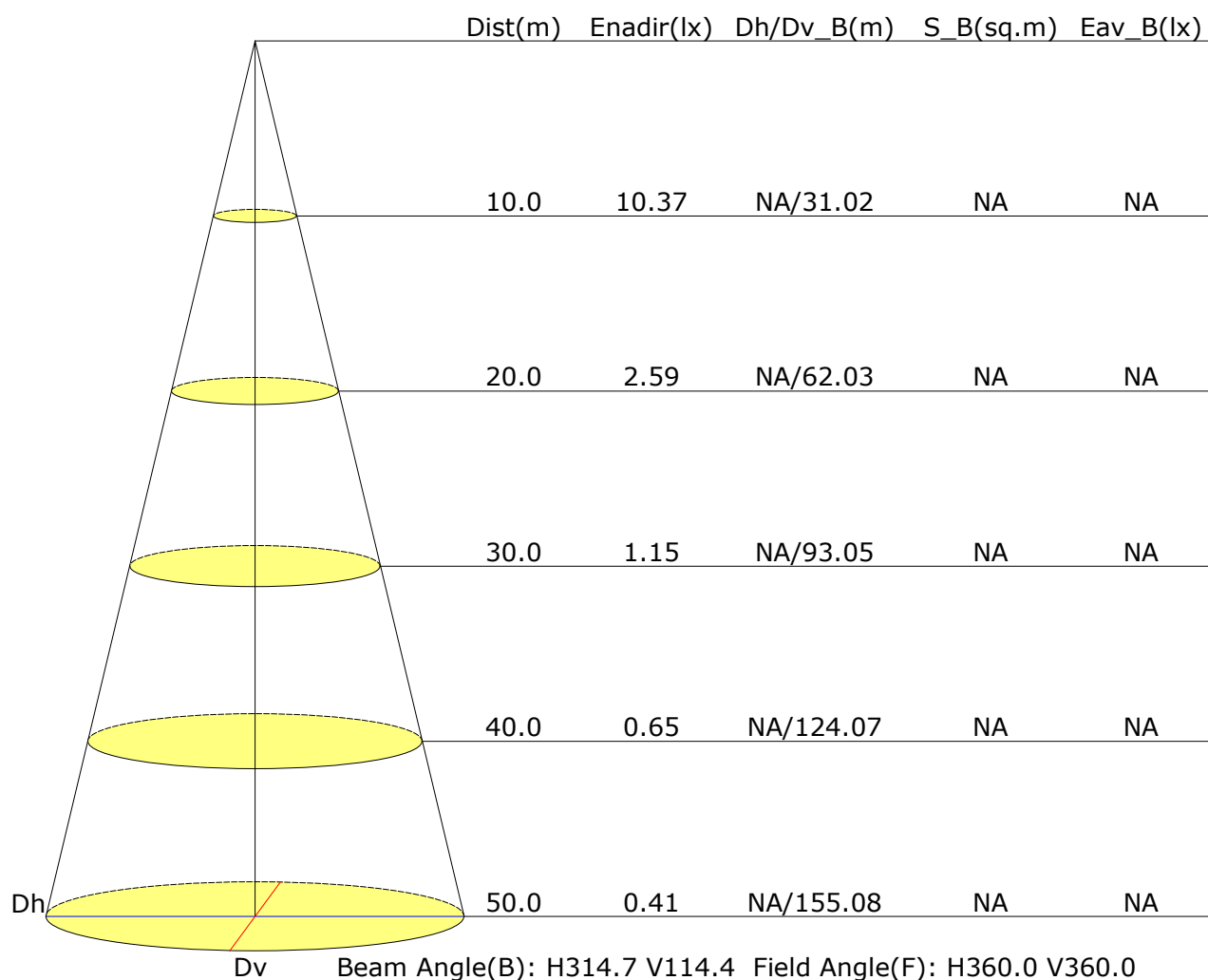


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	12880	12679	12421	12038	11529	10796	9579	7808	4880
C90	13099	12933	12723	12419	11991	11335	10309	8711	5998
C180	12944	12759	12534	12222	11773	11047	10031	8574	6129
C270	13141	12980	12800	12562	12211	11597	10719	9243	6774

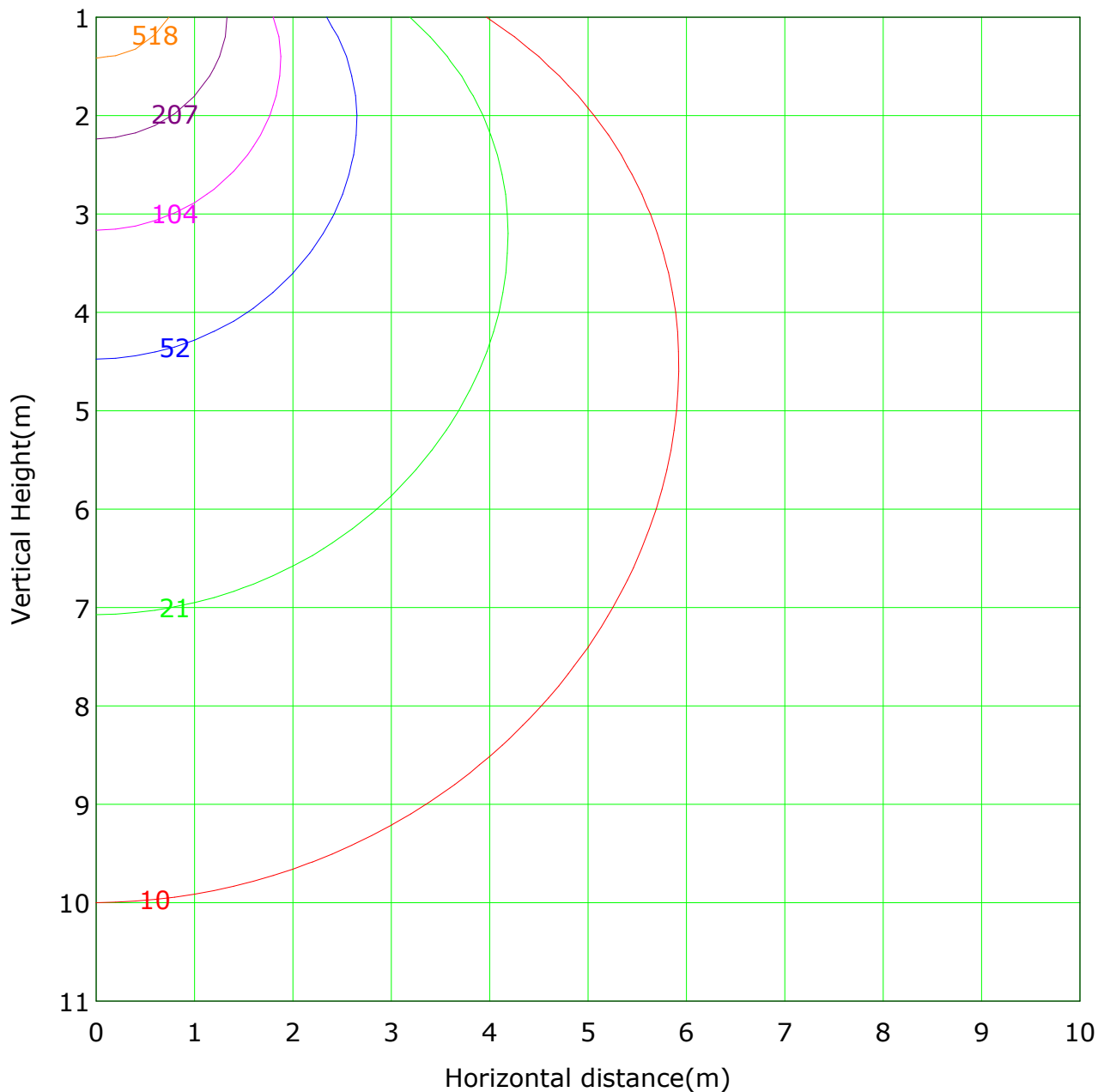
C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1036.7 lx

(1%): 10.4 lx	(2%): 20.7 lx
(5%): 51.8 lx	(10%): 103.7 lx
(20%): 207.3 lx	(50%): 518.4 lx
(100%):1036.7 lx	

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Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Area Flux Table

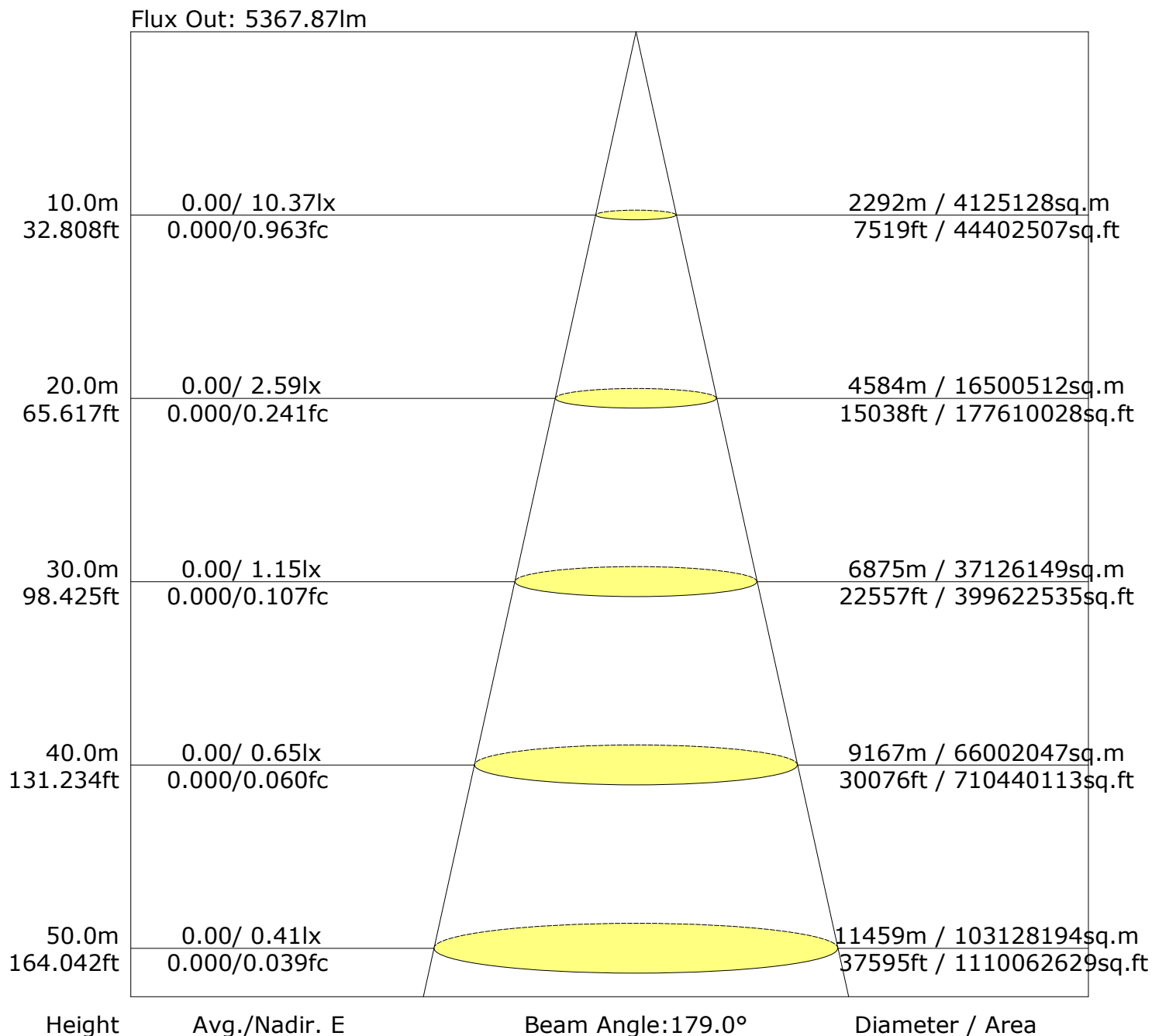
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
		0.0	0.1	0.3	0.5	0.8	1.0	1.3	1.4	1.5	1.5	1.3	1.0	0.8	0.5	0.3	0.1	0.0	0.0	0.0
		0.0	0.3	0.8	1.7	2.8	4.0	5.1	5.9	6.3	6.2	5.6	4.7	3.6	2.5	1.5	0.7	0.2	0.0	0.0
		0.1	0.5	1.6	3.4	5.4	7.6	9.5	10.9	11.7	11.6	10.7	9.1	7.2	5.1	3.1	1.5	0.4	0.0	0.0
		0.1	0.8	2.5	5.0	8.0	10.9	13.6	15.6	16.7	16.6	15.4	13.2	10.6	7.6	4.7	2.3	0.7	0.1	0.1
		0.1	1.0	3.2	6.5	10.2	14.0	17.3	19.8	21.1	21.0	19.5	16.9	13.6	9.9	6.2	3.1	0.9	0.1	0.1
		0.1	1.3	3.9	7.7	12.1	16.5	20.4	23.3	24.9	24.8	23.0	20.0	16.1	11.8	7.4	3.7	1.2	0.1	0.1
		0.2	1.4	4.4	8.6	13.5	18.5	22.9	26.1	27.9	27.8	25.8	22.5	18.1	13.2	8.4	4.2	1.4	0.1	0.1
		0.2	1.6	4.7	9.2	14.4	19.8	24.5	28.1	30.0	29.9	27.9	24.3	19.5	14.2	9.1	4.6	1.5	0.1	0.1
		0.2	1.6	4.9	9.5	14.9	20.4	25.3	29.1	31.1	31.0	28.9	25.2	20.2	14.7	9.4	4.8	1.6	0.1	0.1
		0.2	1.6	4.9	9.5	14.8	20.3	25.3	29.1	31.1	31.0	28.9	25.1	20.2	14.7	9.4	4.8	1.5	0.1	0.1
		0.2	1.6	4.7	9.2	14.4	19.7	24.5	28.2	30.1	30.0	27.9	24.2	19.5	14.2	9.0	4.6	1.5	0.1	0.1
		0.1	1.4	4.3	8.5	13.4	18.4	22.9	26.3	28.0	27.9	26.0	22.6	18.1	13.1	8.3	4.2	1.3	0.1	0.1
		0.1	1.2	3.8	7.5	11.9	16.5	20.5	23.5	25.0	24.9	23.2	20.2	16.1	11.6	7.3	3.7	1.2	0.1	0.1
		0.1	1.0	3.1	6.3	10.1	14.0	17.4	19.9	21.1	21.1	19.7	17.1	13.6	9.7	6.0	3.0	0.9	0.1	0.1
		0.1	0.7	2.4	4.8	7.8	11.0	13.8	15.7	16.7	16.6	15.5	13.4	10.6	7.5	4.5	2.2	0.7	0.1	0.1
		0.1	0.5	1.5	3.2	5.3	7.6	9.6	10.9	11.6	11.5	10.7	9.2	7.2	5.0	2.9	1.4	0.4	0.0	0.0
		0.0	0.2	0.7	1.6	2.7	4.0	5.1	5.8	6.1	6.1	5.6	4.8	3.6	2.4	1.4	0.6	0.2	0.0	0.0
		0.0	0.1	0.2	0.4	0.7	1.0	1.2	1.4	1.4	1.4	1.2	1.0	0.7	0.5	0.2	0.1	0.0	0.0	0.0
		1.8	17.0	51.9	103.0	163.3	224.9	280.0	320.8	342.1	340.7	316.9	274.6	219.4	158.4	99.2	49.3	15.5	1.4	0.0
		0.1	14.0	49.3	100.5	160.8	222.4	277.4	318.5	339.9	338.4	314.5	272.2	217.0	156.0	96.7	46.8	12.6	0.0	0.0
		Flux(E)																		
		Flux(T)																		
		90																		
		Flux(E)																		
		0.1																		
		1.8																		
		17.0																		
		51.9																		
		103.0																		
		163.3																		
		224.9																		
		280.0																		
		320.8																		
		342.1																		
		340.7																		
		316.9																		
		274.6																		
		219.4																		
		158.4																		
		99.2																		
		49.3																		
		15.5																		
		1.4																		
		0.0																		
		0.0																		
		2937																		

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
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Humidity: 45% R.H
Inspector:

The Average Illuminance Effective Figure



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Temperature: 25.5°C
Operator: Yanzhao Sun

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Inspector:

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	17.6	18.5	18.5	19.4	20.6	17.8	18.7	18.7	19.7	20.8
3H	19.3	20.1	20.2	21.1	22.3	19.6	20.4	20.5	21.4	22.6
4H	19.9	20.7	20.8	21.6	22.9	20.2	21.0	21.1	21.9	23.2
6H	20.3	21.0	21.2	21.9	23.2	20.6	21.4	21.6	22.3	23.5
8H	20.4	21.0	21.3	22.0	23.2	20.7	21.4	21.7	22.4	23.6
12H	20.4	21.0	21.3	22.0	23.2	20.8	21.4	21.7	22.4	23.6
X=4H Y=2H	18.2	18.9	19.1	19.9	21.1	18.4	19.1	19.3	20.1	21.3
3H	20.1	20.7	21.0	21.7	22.9	20.4	21.0	21.3	22.0	23.2
4H	20.8	21.4	21.7	22.3	23.6	21.1	21.7	22.1	22.7	23.9
6H	21.3	21.8	22.2	22.8	24.0	21.6	22.2	22.6	23.1	24.4
8H	21.4	21.8	22.3	22.8	24.1	21.8	22.3	22.8	23.2	24.5
12H	21.4	21.8	22.4	22.8	24.1	21.8	22.3	22.8	23.3	24.6
X=8H Y=4H	21.0	21.5	22.0	22.5	23.8	21.3	21.8	22.3	22.8	24.1
6H	21.6	22.0	22.6	23.0	24.3	22.0	22.4	23.0	23.4	24.7
8H	21.8	22.1	22.8	23.1	24.4	22.2	22.5	23.2	23.6	24.8
12H	21.8	22.1	22.9	23.2	24.5	22.3	22.6	23.3	23.6	25.0
X=12H Y=4H	21.0	21.5	22.0	22.5	23.7	21.3	21.8	22.3	22.8	24.0
6H	21.6	22.0	22.6	23.0	24.3	22.0	22.4	23.0	23.4	24.7
8H	21.8	22.1	22.8	23.1	24.5	22.2	22.5	23.3	23.6	24.9

Calculate in accordance with CIE 190:2010 The table is revised with 5368lm ($8\log(F/F_0) = 5.8$).

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Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

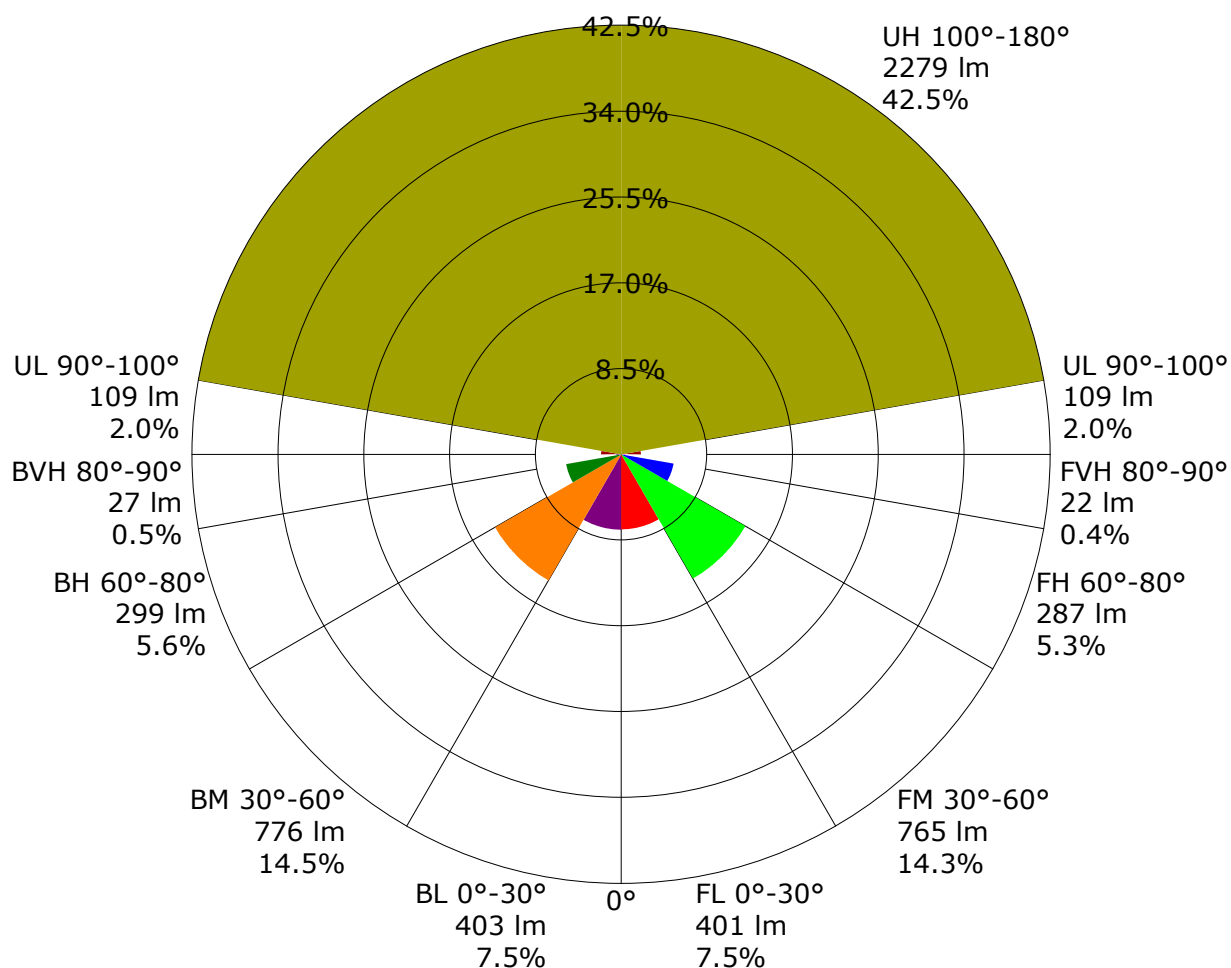
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1476	27.5
	FL (0°-30°)	401	7.5
	FM (30°-60°)	765	14.3
	FH (60°-80°)	287	5.3
	FVH (80°-90°)	22	0.4
	BACK LIGHT	1505	28.0
	BL (0°-30°)	403	7.5
	BM (30°-60°)	776	14.5
	BH (60°-80°)	299	5.6
	BVH (80°-90°)	27	0.5
	UP LIGHT	2387	44.5
	UL (90°-100°)	109	2.0
	UH (100°-180°)	2279	42.5
	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

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

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	0.47	0.56	0.62	0.67	0.74	0.79	0.82	0.86	0.89	
	0.30		0.40	0.49	0.56	0.61	0.68	0.74	0.77	0.82	0.86	
	0.20		0.35	0.44	0.50	0.56	0.64	0.69	0.73	0.79	0.83	
0.50	0.50	0.20	0.41	0.49	0.54	0.59	0.64	0.68	0.71	0.74	0.77	
	0.30		0.35	0.43	0.49	0.54	0.60	0.64	0.67	0.72	0.74	
	0.20		0.31	0.40	0.45	0.50	0.56	0.61	0.64	0.69	0.72	
0.30	0.50	0.20	0.36	0.42	0.47	0.50	0.55	0.58	0.61	0.63	0.65	
	0.30		0.31	0.38	0.43	0.47	0.52	0.55	0.58	0.61	0.64	
	0.20		0.28	0.35	0.40	0.44	0.49	0.53	0.56	0.60	0.62	
0.00	0.00	0.00	0.22	0.27	0.31	0.34	0.38	0.41	0.43	0.46	0.48	
Rating:40W 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	0.90	0.75	0.64	0.56	0.45	0.37	0.32	0.24	0.20	
	0.30		0.75	0.64	0.56	0.49	0.40	0.34	0.29	0.23	0.19	
	0.20		0.65	0.56	0.49	0.44	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.78	0.64	0.55	0.48	0.38	0.33	0.27	0.21	0.17	
	0.30		0.66	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.57	0.49	0.43	0.39	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.66	0.54	0.46	0.40	0.32	0.26	0.22	0.17	0.14	
	0.30		0.57	0.48	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
	0.20		0.50	0.43	0.37	0.33	0.27	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	0.34	0.28	0.24	0.21	0.17	0.14	0.12	0.10	0.08	
Rating:40W 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	0.59	0.60	0.61	0.61	0.62	0.63	0.63	0.63	0.64	
	0.30		0.53	0.54	0.55	0.56	0.58	0.59	0.59	0.61	0.61	
	0.20		0.48	0.50	0.51	0.52	0.54	0.55	0.56	0.58	0.59	
0.50	0.50	0.20	0.57	0.58	0.59	0.59	0.60	0.60	0.60	0.61	0.61	
	0.30		0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.58	0.59	
	0.20		0.48	0.49	0.50	0.51	0.53	0.54	0.55	0.56	0.57	
0.30	0.50	0.20	0.55	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.58	
	0.30		0.51	0.52	0.53	0.53	0.54	0.55	0.56	0.56	0.57	
	0.20		0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.55	
0.00	0.00	0.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	
Rating:40W 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	1036.8	1.0	1.0	0.02	0.02
1.0-2.0	1036.4	3.0	4.0	0.06	0.07
2.0-3.0	1035.6	5.0	8.9	0.09	0.17
3.0-4.0	1034.5	6.9	15.8	0.13	0.30
4.0-5.0	1032.9	8.9	24.7	0.17	0.46
5.0-6.0	1031.0	10.8	35.6	0.20	0.66
6.0-7.0	1028.8	12.8	48.3	0.24	0.90
7.0-8.0	1026.2	14.7	63.0	0.27	1.17
8.0-9.0	1023.2	16.6	79.6	0.31	1.48
9.0-10.0	1019.8	18.5	98.1	0.34	1.83
10.0-11.0	1016.0	20.3	118.4	0.38	2.21
11.0-12.0	1012.0	22.1	140.5	0.41	2.62
12.0-13.0	1007.7	23.9	164.4	0.45	3.06
13.0-14.0	1002.9	25.7	190.1	0.48	3.54
14.0-15.0	997.7	27.4	217.5	0.51	4.05
15.0-16.0	992.2	29.1	246.6	0.54	4.59
16.0-17.0	986.5	30.7	277.3	0.57	5.17
17.0-18.0	980.4	32.3	309.6	0.60	5.77
18.0-19.0	973.8	33.9	343.5	0.63	6.40
19.0-20.0	967.0	35.4	378.9	0.66	7.06
20.0-21.0	960.0	36.9	415.8	0.69	7.75
21.0-22.0	952.6	38.3	454.0	0.71	8.46
22.0-23.0	944.8	39.6	493.7	0.74	9.20
23.0-24.0	936.7	41.0	534.7	0.76	9.96
24.0-25.0	928.3	42.2	576.9	0.79	10.75
25.0-26.0	919.6	43.4	620.3	0.81	11.56
26.0-27.0	910.7	44.6	664.8	0.83	12.39
27.0-28.0	901.2	45.6	710.5	0.85	13.24
28.0-29.0	891.6	46.7	757.1	0.87	14.10
29.0-30.0	881.9	47.6	804.7	0.89	14.99
30.0-31.0	871.8	48.5	853.3	0.90	15.90
31.0-32.0	861.4	49.4	902.6	0.92	16.82
32.0-33.0	850.6	50.1	952.7	0.93	17.75
33.0-34.0	839.8	50.8	1003.6	0.95	18.70
34.0-35.0	828.6	51.5	1055.0	0.96	19.65
35.0-36.0	817.1	52.0	1107.1	0.97	20.62

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	805.5	52.5	1159.6	0.98	21.60
37.0-38.0	793.5	53.0	1212.6	0.99	22.59
38.0-39.0	781.3	53.3	1265.9	0.99	23.58
39.0-40.0	769.0	53.6	1319.6	1.00	24.58
40.0-41.0	756.2	53.9	1373.4	1.00	25.59
41.0-42.0	743.1	54.0	1427.4	1.01	26.59
42.0-43.0	730.1	54.1	1481.5	1.01	27.60
43.0-44.0	716.7	54.1	1535.6	1.01	28.61
44.0-45.0	703.0	54.0	1589.6	1.01	29.61
45.0-46.0	689.3	53.9	1643.6	1.00	30.62
46.0-47.0	675.3	53.7	1697.3	1.00	31.62
47.0-48.0	661.0	53.4	1750.7	1.00	32.61
48.0-49.0	646.6	53.1	1803.8	0.99	33.60
49.0-50.0	631.9	52.7	1856.5	0.98	34.59
50.0-51.0	616.7	52.2	1908.7	0.97	35.56
51.0-52.0	601.7	51.6	1960.3	0.96	36.52
52.0-53.0	586.4	51.0	2011.3	0.95	37.47
53.0-54.0	570.9	50.3	2061.7	0.94	38.41
54.0-55.0	555.3	49.6	2111.2	0.92	39.33
55.0-56.0	539.5	48.8	2160.0	0.91	40.24
56.0-57.0	523.3	47.9	2207.9	0.89	41.13
57.0-58.0	506.9	46.9	2254.7	0.87	42.00
58.0-59.0	490.6	45.9	2300.6	0.85	42.86
59.0-60.0	474.0	44.8	2345.4	0.83	43.69
60.0-61.0	457.2	43.6	2389.0	0.81	44.51
61.0-62.0	440.3	42.4	2431.4	0.79	45.30
62.0-63.0	423.0	41.2	2472.6	0.77	46.06
63.0-64.0	405.6	39.8	2512.4	0.74	46.80
64.0-65.0	388.1	38.4	2550.8	0.72	47.52
65.0-66.0	370.5	37.0	2587.8	0.69	48.21
66.0-67.0	352.6	35.5	2623.3	0.66	48.87
67.0-68.0	334.9	33.9	2657.2	0.63	49.50
68.0-69.0	317.2	32.4	2689.6	0.60	50.10
69.0-70.0	298.9	30.7	2720.3	0.57	50.68
70.0-71.0	280.6	29.0	2749.3	0.54	51.22
71.0-72.0	262.7	27.3	2776.6	0.51	51.73

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	244.5	25.6	2802.2	0.48	52.20
73.0-74.0	226.4	23.8	2826.0	0.44	52.65
74.0-75.0	208.3	22.0	2848.0	0.41	53.06
75.0-76.0	190.2	20.2	2868.2	0.38	53.43
76.0-77.0	172.4	18.4	2886.6	0.34	53.77
77.0-78.0	154.9	16.6	2903.2	0.31	54.08
78.0-79.0	137.6	14.8	2917.9	0.28	54.36
79.0-80.0	120.6	13.0	2930.9	0.24	54.60
80.0-81.0	104.2	11.3	2942.2	0.21	54.81
81.0-82.0	88.3	9.6	2951.8	0.18	54.99
82.0-83.0	73.1	7.9	2959.7	0.15	55.14
83.0-84.0	58.8	6.4	2966.1	0.12	55.26
84.0-85.0	45.7	5.0	2971.1	0.09	55.35
85.0-86.0	33.5	3.7	2974.8	0.07	55.42
86.0-87.0	22.9	2.5	2977.3	0.05	55.47
87.0-88.0	14.1	1.5	2978.8	0.03	55.49
88.0-89.0	7.0	0.8	2979.6	0.01	55.51
89.0-90.0	8.7	0.9	2980.6	0.02	55.53
90.0-91.0	19.6	2.2	2982.7	0.04	55.57
91.0-92.0	34.2	3.7	2986.5	0.07	55.64
92.0-93.0	51.7	5.7	2992.1	0.11	55.74
93.0-94.0	69.9	7.7	2999.8	0.14	55.88
94.0-95.0	88.3	9.7	3009.4	0.18	56.06
95.0-96.0	107.1	11.7	3021.1	0.22	56.28
96.0-97.0	126.2	13.8	3034.9	0.26	56.54
97.0-98.0	145.9	15.9	3050.7	0.30	56.83
98.0-99.0	166.8	18.1	3068.8	0.34	57.17
99.0-100.0	188.1	20.3	3089.2	0.38	57.55
100.0-101.0	209.2	22.6	3111.7	0.42	57.97
101.0-102.0	230.7	24.8	3136.5	0.46	58.43
102.0-103.0	252.0	27.0	3163.5	0.50	58.93
103.0-104.0	272.8	29.1	3192.6	0.54	59.48
104.0-105.0	293.4	31.1	3223.7	0.58	60.06
105.0-106.0	313.3	33.1	3256.8	0.62	60.67
106.0-107.0	332.7	35.0	3291.8	0.65	61.32
107.0-108.0	351.4	36.7	3328.6	0.68	62.01

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	369.5	38.4	3367.0	0.72	62.72
109.0-110.0	386.6	40.0	3406.9	0.74	63.47
110.0-111.0	403.0	41.4	3448.3	0.77	64.24
111.0-112.0	419.7	42.8	3491.2	0.80	65.04
112.0-113.0	436.0	44.2	3535.3	0.82	65.86
113.0-114.0	451.1	45.4	3580.7	0.85	66.71
114.0-115.0	465.2	46.4	3627.1	0.86	67.57
115.0-116.0	478.2	47.3	3674.5	0.88	68.45
116.0-117.0	489.9	48.1	3722.5	0.90	69.35
117.0-118.0	499.9	48.6	3771.2	0.91	70.25
118.0-119.0	508.1	49.0	3820.1	0.91	71.17
119.0-120.0	514.5	49.1	3869.2	0.91	72.08
120.0-121.0	519.2	49.1	3918.3	0.91	73.00
121.0-122.0	522.4	48.8	3967.1	0.91	73.91
122.0-123.0	524.0	48.5	4015.6	0.90	74.81
123.0-124.0	524.3	47.9	4063.5	0.89	75.70
124.0-125.0	523.7	47.3	4110.9	0.88	76.58
125.0-126.0	522.3	46.6	4157.5	0.87	77.45
126.0-127.0	520.2	45.9	4203.3	0.85	78.31
127.0-128.0	517.5	45.0	4248.4	0.84	79.14
128.0-129.0	514.5	44.2	4292.5	0.82	79.97
129.0-130.0	511.4	43.3	4335.8	0.81	80.77
130.0-131.0	508.2	42.4	4378.2	0.79	81.56
131.0-132.0	504.9	41.5	4419.6	0.77	82.34
132.0-133.0	501.5	40.5	4460.2	0.76	83.09
133.0-134.0	498.1	39.6	4499.8	0.74	83.83
134.0-135.0	494.9	38.7	4538.5	0.72	84.55
135.0-136.0	491.6	37.8	4576.3	0.70	85.25
136.0-137.0	488.4	36.9	4613.2	0.69	85.94
137.0-138.0	485.4	36.0	4649.1	0.67	86.61
138.0-139.0	482.4	35.1	4684.2	0.65	87.26
139.0-140.0	479.4	34.1	4718.3	0.64	87.90
140.0-141.0	476.4	33.2	4751.6	0.62	88.52
141.0-142.0	473.6	32.3	4783.9	0.60	89.12
142.0-143.0	471.0	31.4	4815.3	0.59	89.71
143.0-144.0	468.2	30.5	4845.9	0.57	90.28

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	465.4	29.6	4875.5	0.55	90.83
145.0-146.0	462.8	28.7	4904.2	0.54	91.36
146.0-147.0	460.2	27.9	4932.1	0.52	91.88
147.0-148.0	457.6	27.0	4959.1	0.50	92.38
148.0-149.0	454.9	26.1	4985.1	0.49	92.87
149.0-150.0	452.2	25.2	5010.3	0.47	93.34
150.0-151.0	449.5	24.3	5034.6	0.45	93.79
151.0-152.0	446.8	23.4	5057.9	0.44	94.23
152.0-153.0	444.1	22.5	5080.4	0.42	94.65
153.0-154.0	441.3	21.6	5102.0	0.40	95.05
154.0-155.0	438.5	20.7	5122.7	0.39	95.43
155.0-156.0	435.8	19.8	5142.5	0.37	95.80
156.0-157.0	432.9	18.9	5161.5	0.35	96.16
157.0-158.0	430.2	18.1	5179.5	0.34	96.49
158.0-159.0	427.4	17.2	5196.7	0.32	96.81
159.0-160.0	424.5	16.3	5213.0	0.30	97.12
160.0-161.0	421.8	15.4	5228.5	0.29	97.40
161.0-162.0	419.2	14.6	5243.0	0.27	97.67
162.0-163.0	416.7	13.7	5256.8	0.26	97.93
163.0-164.0	414.2	12.9	5269.7	0.24	98.17
164.0-165.0	411.8	12.1	5281.7	0.22	98.40
165.0-166.0	409.6	11.2	5293.0	0.21	98.61
166.0-167.0	407.6	10.4	5303.4	0.19	98.80
167.0-168.0	405.7	9.6	5313.1	0.18	98.98
168.0-169.0	403.9	8.8	5321.9	0.16	99.14
169.0-170.0	402.2	8.0	5329.9	0.15	99.29
170.0-171.0	400.6	7.3	5337.2	0.14	99.43
171.0-172.0	399.2	6.5	5343.6	0.12	99.55
172.0-173.0	398.1	5.7	5349.3	0.11	99.65
173.0-174.0	397.0	4.9	5354.3	0.09	99.75
174.0-175.0	396.0	4.2	5358.4	0.08	99.82
175.0-176.0	395.2	3.4	5361.8	0.06	99.89
176.0-177.0	394.6	2.6	5364.5	0.05	99.94
177.0-178.0	394.1	1.9	5366.4	0.04	99.97
178.0-179.0	393.9	1.1	5367.5	0.02	99.99
179.0-180.0	393.7	0.4	5367.9	0.01	100.00

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1589.64 lm

%lum = 29.6%

%lamp = 29.6%

cone flux(120°): 2345.39 lm

%lum = 43.7%

%lamp = 43.7%

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	1036.7	1036.5	1036.6	1037.3	1036.7	1037.2	1036.7	1036.5	1036.6	1037.3
G1.0	1036.4	1036.2	1036.2	1037.1	1037.2	1037.2	1036.4	1036.8	1036.4	1037.1
G2.0	1035.6	1035.2	1035.6	1036.7	1036.9	1036.9	1035.7	1036.5	1036.1	1036.5
G3.0	1034.4	1034.1	1034.7	1035.7	1036.5	1036.1	1034.8	1035.7	1035.0	1035.6
G4.0	1032.9	1032.8	1033.4	1034.4	1035.3	1034.8	1033.3	1034.8	1033.6	1034.2
G5.0	1031.2	1030.7	1031.7	1032.9	1033.9	1033.5	1031.7	1033.2	1032.1	1032.4
G6.0	1028.7	1028.2	1029.5	1030.7	1032.1	1031.5	1029.5	1031.6	1030.1	1030.8
G7.0	1026.0	1025.8	1027.3	1028.3	1029.9	1029.2	1027.1	1029.4	1027.7	1028.3
G8.0	1023.0	1022.6	1024.7	1025.8	1027.6	1026.7	1024.1	1027.0	1025.1	1025.3
G9.0	1019.7	1018.9	1021.2	1022.7	1024.9	1023.5	1020.4	1023.8	1022.2	1022.5
G10.0	1016.0	1015.2	1017.9	1019.3	1021.6	1020.1	1016.8	1020.4	1018.4	1018.8
G11.0	1011.5	1010.9	1014.0	1015.6	1017.8	1016.3	1012.8	1016.9	1014.8	1015.0
G12.0	1007.4	1006.5	1010.1	1011.4	1014.0	1012.3	1008.5	1013.1	1010.5	1010.8
G13.0	1002.6	1001.7	1005.7	1006.8	1010.2	1007.8	1004.1	1008.8	1006.3	1006.4
G14.0	997.6	996.1	1001.0	1001.9	1005.6	1002.6	998.6	1003.6	1001.1	1001.7
G15.0	991.9	990.4	995.3	996.8	1000.3	997.7	993.2	998.9	996.0	996.7
G16.0	985.9	984.8	989.6	991.0	995.1	992.1	987.7	993.3	990.6	990.6
G17.0	979.9	979.0	983.9	985.2	989.5	986.6	981.7	987.8	984.8	984.9
G18.0	973.5	971.8	977.7	979.3	983.7	980.5	974.6	981.8	978.7	978.7
G19.0	967.0	965.0	970.8	973.3	977.5	973.3	968.2	974.9	971.7	972.3
G20.0	959.3	958.0	964.1	966.4	970.4	966.4	961.0	967.9	965.1	965.8
G21.0	952.1	950.4	956.9	959.0	963.8	959.7	954.1	961.1	958.0	958.2
G22.0	944.8	942.5	948.9	951.2	956.5	951.8	945.7	953.7	950.6	950.9
G23.0	936.6	934.7	941.1	943.7	948.5	944.1	937.9	945.2	942.8	943.2
G24.0	927.7	926.2	933.2	935.7	940.7	936.1	929.4	937.3	934.3	935.2
G25.0	919.1	916.7	925.0	927.6	932.6	927.0	921.1	929.0	925.8	926.5
G26.0	910.1	907.9	916.4	918.2	924.2	918.1	912.4	920.5	917.1	918.2
G27.0	900.9	898.6	906.6	909.3	915.4	909.3	903.2	911.7	908.3	909.1
G28.0	890.7	888.6	897.5	900.2	905.7	899.1	893.2	901.6	898.6	900.1
G29.0	880.8	878.6	887.9	890.5	896.4	889.7	883.6	892.1	889.2	890.8
G30.0	871.1	868.6	878.2	881.0	887.0	879.6	874.0	882.5	879.3	880.1
G31.0	861.1	858.5	867.4	870.2	877.1	869.6	862.8	872.7	869.7	870.3
G32.0	849.4	846.8	857.2	860.0	866.1	859.2	852.3	862.5	859.6	859.7
G33.0	838.7	836.2	846.6	849.5	855.8	847.6	841.6	850.8	848.9	849.5
G34.0	828.0	824.8	836.1	838.6	845.6	836.5	830.6	840.1	837.3	837.9
G35.0	816.8	813.4	823.8	826.4	833.5	825.7	819.3	829.3	825.9	827.2
G36.0	804.3	801.9	812.5	815.1	822.4	814.2	808.1	818.3	814.7	815.9

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	C270.0
G37.0	792.6	790.2	800.8	803.8	810.9	802.9	795.3	806.0	803.2	804.3
G38.0	780.5	777.0	789.0	791.8	799.5	789.5	783.4	794.4	790.4	791.6
G39.0	768.4	764.9	775.8	780.2	787.5	777.6	771.4	782.3	778.6	779.9
G40.0	755.8	752.2	763.4	767.6	773.9	765.3	759.3	770.0	766.2	767.5
G41.0	742.1	739.7	751.0	753.8	761.6	752.7	745.5	756.5	752.7	755.1
G42.0	729.3	725.4	738.0	741.2	748.8	738.4	733.1	743.8	740.3	742.7
G43.0	716.3	711.7	725.0	728.1	736.2	725.4	720.0	730.8	727.3	728.4
G44.0	701.7	698.5	710.8	715.1	722.0	712.0	705.2	717.6	714.3	715.6
G45.0	688.5	684.9	697.6	700.2	708.9	698.5	691.9	703.0	701.1	702.5
G46.0	674.6	670.7	684.1	686.4	695.4	684.7	678.1	689.5	686.0	689.1
G47.0	660.7	655.3	668.6	672.6	681.7	670.8	664.2	676.0	672.4	674.2
G48.0	645.0	641.0	654.7	658.6	666.5	655.3	650.0	662.1	658.7	660.4
G49.0	630.8	626.6	640.4	644.4	652.3	640.7	635.7	646.5	644.4	646.5
G50.0	616.1	611.7	625.9	628.5	637.9	626.4	620.0	632.5	629.1	630.8
G51.0	599.8	595.4	609.6	613.8	621.9	610.2	605.3	617.9	614.3	616.4
G52.0	586.2	580.3	594.6	599.0	606.9	595.2	590.3	603.0	599.5	601.6
G53.0	569.4	565.1	579.5	584.1	591.8	579.9	573.9	586.8	583.5	586.7
G54.0	554.1	549.6	564.3	567.4	576.7	564.6	558.8	571.8	568.3	571.8
G55.0	538.6	532.3	547.4	551.7	561.4	547.3	543.5	556.2	553.6	555.0
G56.0	522.9	516.6	531.8	536.2	544.1	531.9	527.7	541.0	537.6	539.9
G57.0	505.3	500.7	516.0	518.9	528.5	516.1	510.3	523.9	521.8	524.3
G58.0	489.6	484.1	498.6	502.3	512.9	499.5	494.2	507.8	504.6	508.5
G59.0	472.9	467.6	482.1	485.9	496.7	483.2	478.1	492.0	488.4	491.0
G60.0	455.0	450.9	465.9	469.4	478.9	466.4	462.0	474.3	472.5	474.8
G61.0	438.4	432.6	449.1	453.0	462.4	448.2	445.4	457.8	456.1	458.7
G62.0	421.6	415.5	432.3	436.0	445.7	431.4	426.8	441.5	439.5	442.1
G63.0	404.6	398.6	413.7	417.6	428.7	414.6	410.0	424.6	421.0	423.8
G64.0	385.8	379.4	396.7	400.4	410.2	397.2	393.1	407.7	404.2	407.1
G65.0	368.3	362.1	379.1	383.1	392.6	378.3	376.2	389.1	387.5	390.1
G66.0	351.2	344.5	362.1	365.7	375.7	360.8	357.0	372.1	368.8	371.4
G67.0	333.6	326.9	342.7	346.5	356.3	343.2	339.9	354.6	351.8	354.0
G68.0	314.6	309.3	325.5	328.9	339.0	325.5	322.3	337.5	334.4	336.8
G69.0	296.9	291.5	307.7	311.1	321.4	307.9	304.7	318.5	316.6	319.3
G70.0	279.2	271.8	288.3	293.1	303.7	288.1	285.6	300.8	297.6	299.8
G71.0	259.9	254.1	270.6	275.4	284.1	270.2	268.3	283.5	280.0	282.5
G72.0	242.8	236.4	253.2	256.1	267.0	252.7	249.4	264.8	263.0	263.5
G73.0	224.5	218.1	234.7	237.4	248.2	234.3	232.6	246.4	244.4	245.3

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	C270.0
G74.0	206.4	200.2	216.5	219.4	229.8	216.2	214.7	228.4	226.2	228.8
G75.0	187.4	182.8	197.4	201.7	210.9	198.6	196.3	211.0	208.9	209.7
G76.0	170.7	164.7	179.1	183.3	192.1	180.2	178.5	192.9	190.6	191.4
G77.0	152.3	147.4	161.7	165.6	174.5	162.7	161.6	175.3	173.2	173.9
G78.0	136.0	129.8	143.6	148.8	156.0	144.8	145.4	157.2	155.3	155.8
G79.0	118.5	113.3	126.7	131.5	139.1	127.9	127.9	139.1	138.3	138.4
G80.0	102.5	96.8	109.8	114.4	122.0	111.3	112.6	122.2	121.1	121.3
G81.0	86.1	81.9	92.8	98.2	104.6	95.8	95.7	106.5	105.0	104.2
G82.0	71.6	67.2	77.5	82.2	88.9	80.5	80.8	90.1	88.4	87.6
G83.0	57.1	53.5	62.1	66.3	72.7	65.8	66.3	74.6	73.3	72.7
G84.0	44.7	40.8	48.1	52.2	58.7	52.2	53.2	60.8	59.4	57.9
G85.0	32.2	29.7	35.6	39.5	44.7	40.1	40.4	47.0	45.7	44.6
G86.0	21.6	19.4	24.2	27.6	32.7	28.6	28.8	34.9	33.6	31.8
G87.0	12.7	11.0	14.7	17.9	22.0	18.8	19.1	23.8	23.5	21.5
G88.0	5.9	4.6	7.6	9.7	13.5	10.9	11.3	14.6	14.4	12.4
G89.0	0.0	0.0	2.3	3.9	6.3	4.5	4.7	7.2	7.3	5.2
G90.0	0.0	0.0	0.0	0.0	32.0	29.0	21.3	39.6	36.2	0.0
G91.0	3.2	5.9	9.7	2.8	55.7	47.3	34.2	59.6	63.4	2.9
G92.0	10.6	21.4	33.8	5.1	80.1	66.9	47.8	81.6	90.0	5.3
G93.0	22.2	42.5	59.0	7.4	103.0	86.4	62.8	105.3	114.5	7.8
G94.0	35.8	64.7	84.3	10.2	121.6	108.2	79.2	130.8	134.4	10.9
G95.0	49.9	89.1	107.8	13.7	138.3	132.1	97.6	158.0	149.2	14.4
G96.0	65.9	114.5	125.6	17.2	155.2	160.3	119.2	189.1	163.2	18.2
G97.0	83.3	141.2	140.4	21.1	171.8	188.4	144.0	222.5	176.5	22.1
G98.0	103.6	173.0	153.7	25.1	187.7	221.0	170.3	255.2	190.6	26.3
G99.0	127.7	207.3	167.0	29.4	204.8	254.7	200.9	286.7	204.7	30.9
G100.0	154.2	239.5	179.9	33.9	221.4	284.4	232.5	315.1	217.0	35.4
G101.0	184.8	271.6	193.5	38.2	237.5	315.0	261.9	344.5	229.6	40.0
G102.0	216.6	304.4	206.5	42.7	253.0	347.8	294.2	373.0	241.9	44.8
G103.0	248.0	334.3	219.3	47.5	267.5	376.1	328.0	402.2	252.0	49.9
G104.0	284.0	363.3	230.9	52.0	282.8	406.6	362.5	428.9	262.6	54.9
G105.0	315.1	393.0	242.2	57.0	294.6	434.8	399.4	455.4	271.4	60.1
G106.0	351.9	419.4	252.0	62.2	306.8	460.4	434.6	481.9	278.8	65.1
G107.0	387.9	446.7	261.1	67.2	317.9	486.6	469.8	506.5	285.1	70.4
G108.0	426.0	473.3	269.3	72.3	326.9	512.4	504.7	529.8	290.3	75.8
G109.0	461.5	499.8	276.1	77.5	334.7	534.7	539.5	556.3	294.6	81.0
G110.0	498.4	524.9	282.1	82.5	340.4	555.3	570.0	581.1	297.4	86.4

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	C270.0
G111.0	533.1	549.7	287.5	88.2	346.0	578.6	603.5	606.4	299.5	92.3
G112.0	571.0	576.9	291.4	93.6	348.6	607.8	633.5	633.8	300.8	98.0
G113.0	604.6	601.6	294.6	99.1	350.5	639.3	662.5	657.9	301.5	103.8
G114.0	637.0	625.4	297.2	105.0	351.8	666.0	691.3	680.0	301.3	109.2
G115.0	668.3	648.1	299.3	110.6	351.4	687.7	721.6	699.3	301.0	115.4
G116.0	699.0	670.6	300.5	116.3	350.1	707.1	747.1	717.1	300.6	121.3
G117.0	729.4	688.7	301.9	122.0	349.3	724.4	770.8	729.8	300.0	127.0
G118.0	755.4	703.5	302.8	128.4	348.2	735.8	792.0	738.8	299.4	133.4
G119.0	777.5	715.2	303.9	134.2	346.7	744.0	810.4	744.1	299.1	139.4
G120.0	796.5	723.7	304.9	140.1	344.3	748.4	823.6	745.8	298.9	144.9
G121.0	813.0	729.1	305.8	145.8	343.9	750.3	833.0	744.4	298.9	150.7
G122.0	824.3	730.9	306.7	152.2	343.9	749.0	839.0	740.6	299.4	156.6
G123.0	831.5	730.3	308.1	158.0	343.7	744.1	841.2	734.7	299.9	163.0
G124.0	835.0	727.2	309.2	163.9	343.3	739.3	840.5	726.6	301.1	168.9
G125.0	835.5	722.5	311.1	170.2	343.1	733.8	837.3	718.0	302.2	174.7
G126.0	833.6	716.3	312.7	176.2	343.3	727.3	832.0	709.2	303.7	180.2
G127.0	829.2	708.6	314.6	181.9	343.7	719.5	824.6	699.4	305.4	186.6
G128.0	822.8	700.4	316.8	187.8	344.2	709.6	816.4	689.0	307.5	192.2
G129.0	815.7	692.2	318.9	193.6	344.8	700.6	807.7	679.2	309.4	197.9
G130.0	806.8	683.6	321.2	200.1	345.7	691.5	797.9	669.4	311.8	203.6
G131.0	798.0	674.8	323.8	205.6	346.9	682.2	788.1	660.0	314.1	209.6
G132.0	788.7	665.0	326.3	211.4	348.2	673.2	776.7	650.5	316.5	215.2
G133.0	779.1	656.2	328.9	217.1	349.4	663.1	766.0	640.4	319.1	220.9
G134.0	768.0	647.4	331.4	223.4	351.0	654.3	755.2	631.4	321.7	226.3
G135.0	757.8	638.7	334.1	229.1	352.5	645.3	743.2	622.8	324.5	232.4
G136.0	747.0	629.6	336.6	234.5	354.3	636.1	732.2	614.3	327.0	237.8
G137.0	736.4	621.7	339.0	241.0	356.0	627.8	721.4	605.1	329.9	243.2
G138.0	725.4	613.7	341.6	246.5	357.7	619.4	710.5	596.9	332.6	248.5
G139.0	714.5	605.5	344.4	251.9	359.5	611.3	699.7	589.0	335.4	254.4
G140.0	703.0	598.3	346.9	257.5	361.5	602.2	688.0	580.7	338.4	259.4
G141.0	692.1	591.5	349.5	263.0	363.3	594.0	677.1	572.9	341.1	264.6
G142.0	681.6	584.6	351.9	268.9	365.2	585.8	666.5	565.4	343.7	269.8
G143.0	671.8	577.8	354.5	274.2	367.0	577.8	656.1	557.7	346.3	275.8
G144.0	660.8	570.5	356.7	279.2	368.7	570.1	644.8	549.5	348.9	280.9
G145.0	651.3	564.0	359.1	284.5	370.5	561.6	634.5	542.3	351.4	286.2
G146.0	641.7	557.4	361.5	289.8	372.1	553.9	624.1	535.0	353.9	291.3
G147.0	632.3	550.8	363.7	295.3	373.6	546.5	612.6	528.2	356.3	296.9

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
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	C270.0
G148.0	622.9	543.3	365.9	300.5	375.2	538.9	602.0	521.5	358.5	302.0
G149.0	612.8	536.7	368.3	305.4	376.5	530.8	591.7	514.7	360.9	306.8
G150.0	603.5	530.1	370.5	310.8	377.7	523.3	581.6	507.7	362.9	311.6
G151.0	594.3	523.5	372.4	315.7	379.1	516.3	571.1	501.3	365.1	316.2
G152.0	584.4	515.7	374.3	320.6	380.4	509.2	560.0	495.1	366.9	321.2
G153.0	574.7	508.8	376.6	325.7	381.5	502.0	550.0	489.0	368.7	325.7
G154.0	563.9	501.8	378.3	330.2	382.3	495.3	540.0	482.5	370.6	330.1
G155.0	554.1	494.7	379.9	334.7	383.2	488.5	530.4	476.7	372.3	334.6
G156.0	544.1	487.2	381.8	338.7	383.9	481.7	521.1	470.8	373.9	339.3
G157.0	533.6	480.3	383.3	343.3	384.6	475.5	511.0	465.3	375.5	343.4
G158.0	523.5	473.6	384.9	347.0	385.1	469.1	502.2	459.6	376.8	347.5
G159.0	512.2	467.0	386.0	350.9	385.8	463.2	493.5	454.3	378.2	351.4
G160.0	501.7	459.9	387.4	354.7	386.4	457.3	485.2	448.7	379.2	355.1
G161.0	492.1	453.8	388.6	358.3	386.8	450.9	476.2	443.5	380.4	358.9
G162.0	482.5	448.2	389.6	362.2	387.0	445.2	468.1	438.8	381.4	362.4
G163.0	472.6	442.5	390.7	365.4	387.5	439.6	460.5	433.9	382.5	365.8
G164.0	463.9	437.2	391.7	368.6	388.0	434.4	453.2	428.6	383.2	369.1
G165.0	455.7	432.2	392.6	371.5	388.2	428.7	446.0	424.1	384.5	371.6
G166.0	448.0	427.5	393.3	374.3	388.7	423.9	438.2	420.1	385.2	374.6
G167.0	441.3	423.6	394.1	377.1	389.0	419.5	431.7	415.6	385.9	377.4
G168.0	434.1	419.8	394.7	379.7	389.4	415.3	425.6	411.9	386.7	379.7
G169.0	428.3	416.1	395.1	381.9	389.6	411.3	419.8	408.4	387.3	382.1
G170.0	423.1	413.1	395.2	383.9	389.8	407.3	414.3	405.3	387.8	384.2
G171.0	418.0	410.2	395.2	385.7	390.1	404.1	409.5	402.4	388.4	386.0
G172.0	413.5	407.6	395.5	387.4	390.4	401.3	405.2	399.9	389.2	387.6
G173.0	409.8	405.1	395.6	388.7	390.8	398.8	401.8	397.7	389.8	389.3
G174.0	406.2	402.5	395.6	389.9	391.0	396.3	398.6	395.7	390.6	390.6
G175.0	403.3	400.6	395.5	391.0	391.4	395.0	395.9	394.3	391.1	391.7
G176.0	400.6	398.5	395.2	392.1	392.0	393.7	394.2	393.5	391.7	392.4
G177.0	397.9	397.1	394.8	392.8	392.4	393.0	393.0	392.9	392.5	393.0
G178.0	396.0	395.6	394.7	393.4	392.8	392.7	392.5	392.7	393.1	393.5
G179.0	394.3	394.3	394.2	393.6	393.5	393.2	392.7	393.2	393.5	393.9
G180.0	393.3	393.5	393.8	393.9	393.8	393.7	393.3	393.5	393.8	393.9

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1036.7	1037.2	1036.7							
G1.0	1036.1	1036.8	1036.4							
G2.0	1035.5	1035.9	1035.6							
G3.0	1034.1	1034.9	1034.4							
G4.0	1032.4	1033.4	1032.9							
G5.0	1030.4	1031.3	1031.2							
G6.0	1028.1	1029.1	1028.7							
G7.0	1025.5	1026.6	1026.0							
G8.0	1022.4	1023.6	1023.0							
G9.0	1018.2	1020.0	1019.7							
G10.0	1015.0	1016.4	1016.0							
G11.0	1010.9	1012.3	1011.5							
G12.0	1006.5	1007.9	1007.4							
G13.0	1001.7	1003.3	1002.6							
G14.0	996.3	997.8	997.6							
G15.0	990.8	992.2	991.9							
G16.0	985.1	986.5	985.9							
G17.0	979.2	980.3	979.9							
G18.0	972.1	973.5	973.5							
G19.0	965.4	967.0	967.0							
G20.0	958.3	959.9	959.3							
G21.0	951.0	952.5	952.1							
G22.0	943.2	945.0	944.8							
G23.0	935.2	936.3	936.6							
G24.0	926.3	928.1	927.7							
G25.0	917.7	919.8	919.1							
G26.0	908.9	911.0	910.1							
G27.0	899.9	900.9	900.9							
G28.0	889.7	891.4	890.7							
G29.0	879.9	881.8	880.8							
G30.0	870.0	871.9	871.1							
G31.0	860.0	861.7	861.1							
G32.0	848.7	850.2	849.4							
G33.0	837.9	839.4	838.7							
G34.0	827.1	828.5	828.0							
G35.0	815.7	817.4	816.8							
G36.0	804.5	804.7	804.3							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	791.8	793.0	792.6							
G38.0	779.9	781.1	780.5							
G39.0	767.9	769.0	768.4							
G40.0	755.4	756.6	755.8							
G41.0	741.8	742.8	742.1							
G42.0	729.0	730.0	729.3							
G43.0	716.1	716.9	716.3							
G44.0	703.0	702.5	701.7							
G45.0	687.9	689.2	688.5							
G46.0	674.2	675.3	674.6							
G47.0	660.3	661.6	660.7							
G48.0	646.4	646.3	645.0							
G49.0	632.1	632.0	630.8							
G50.0	616.6	617.6	616.1							
G51.0	601.7	602.7	599.8							
G52.0	586.8	587.9	586.2							
G53.0	570.6	571.3	569.4							
G54.0	555.4	556.2	554.1							
G55.0	540.3	540.7	538.6							
G56.0	524.4	525.2	522.9							
G57.0	506.9	507.8	505.3							
G58.0	491.0	491.9	489.6							
G59.0	474.9	475.9	472.9							
G60.0	458.9	457.7	455.0							
G61.0	442.3	441.2	438.4							
G62.0	423.9	424.8	421.6							
G63.0	407.0	407.9	404.6							
G64.0	390.1	390.9	385.8							
G65.0	373.6	372.1	368.3							
G66.0	354.5	355.2	351.2							
G67.0	337.3	337.6	333.6							
G68.0	319.8	320.5	314.6							
G69.0	302.1	301.4	296.9							
G70.0	282.9	283.9	279.2							
G71.0	265.2	266.6	259.9							
G72.0	247.9	247.7	242.8							
G73.0	229.4	229.4	224.5							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	211.4	211.5	206.4							
G75.0	192.5	192.7	187.4							
G76.0	175.8	176.3	170.7							
G77.0	157.1	157.5	152.3							
G78.0	140.7	141.2	136.0							
G79.0	122.6	123.5	118.5							
G80.0	107.1	107.1	102.5							
G81.0	90.4	91.7	86.1							
G82.0	75.3	76.1	71.6							
G83.0	60.9	61.6	57.1							
G84.0	47.9	48.8	44.7							
G85.0	35.5	36.0	32.2							
G86.0	24.8	25.2	21.6							
G87.0	15.8	15.9	12.7							
G88.0	8.6	8.2	5.9							
G89.0	3.4	2.4	0.0							
G90.0	1.4	1.2	0.0							
G91.0	17.4	7.9	3.2							
G92.0	45.9	22.2	10.6							
G93.0	77.0	41.3	22.2							
G94.0	107.6	61.8	35.8							
G95.0	136.2	84.5	49.9							
G96.0	162.1	109.1	65.9							
G97.0	182.7	135.8	83.3							
G98.0	199.7	165.8	103.6							
G99.0	217.7	198.6	127.7							
G100.0	235.7	234.8	154.2							
G101.0	252.4	267.7	184.8							
G102.0	271.2	303.8	216.6							
G103.0	288.9	334.4	248.0							
G104.0	305.0	365.6	284.0							
G105.0	320.8	397.7	315.1							
G106.0	334.5	430.5	351.9							
G107.0	347.1	460.3	387.9							
G108.0	358.4	487.4	426.0							
G109.0	368.1	516.7	461.5							
G110.0	375.2	543.3	498.4							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	381.3	568.9	533.1							
G112.0	385.1	597.1	571.0							
G113.0	387.8	622.7	604.6							
G114.0	389.1	647.3	637.0							
G115.0	389.1	672.9	668.3							
G116.0	388.4	694.3	699.0							
G117.0	387.0	713.8	729.4							
G118.0	385.1	730.2	755.4							
G119.0	382.9	743.8	777.5							
G120.0	380.4	754.6	796.5							
G121.0	378.4	761.1	813.0							
G122.0	376.2	764.3	824.3							
G123.0	374.4	764.6	831.5							
G124.0	373.0	762.0	835.0							
G125.0	371.8	757.4	835.5							
G126.0	370.8	751.3	833.6							
G127.0	370.3	743.7	829.2							
G128.0	369.8	734.9	822.8							
G129.0	369.6	726.1	815.7							
G130.0	369.6	716.4	806.8							
G131.0	369.9	706.9	798.0							
G132.0	370.4	696.0	788.7							
G133.0	370.8	686.4	779.1							
G134.0	371.4	676.5	768.0							
G135.0	372.1	666.8	757.8							
G136.0	373.0	657.5	747.0							
G137.0	374.0	647.4	736.4							
G138.0	375.0	638.5	725.4							
G139.0	375.7	630.4	714.5							
G140.0	376.6	621.2	703.0							
G141.0	377.5	613.2	692.1							
G142.0	378.4	605.5	681.6							
G143.0	379.5	597.6	671.8							
G144.0	380.4	589.4	660.8							
G145.0	381.4	582.0	651.3							
G146.0	382.4	574.5	641.7							
G147.0	383.4	567.1	632.3							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	384.4	559.8	622.9							
G149.0	385.6	552.4	612.8							
G150.0	386.4	544.1	603.5							
G151.0	387.6	536.4	594.3							
G152.0	388.6	529.1	584.4							
G153.0	389.6	520.9	574.7							
G154.0	390.4	513.1	563.9							
G155.0	391.3	505.4	554.1							
G156.0	391.9	497.8	544.1							
G157.0	392.8	489.4	533.6							
G158.0	393.5	482.8	523.5							
G159.0	394.1	474.4	512.2							
G160.0	394.6	467.6	501.7							
G161.0	395.3	460.6	492.1							
G162.0	395.7	454.2	482.5							
G163.0	396.1	448.0	472.6							
G164.0	396.6	441.3	463.9							
G165.0	396.9	436.2	455.7							
G166.0	397.4	431.1	448.0							
G167.0	397.6	426.3	441.3							
G168.0	397.7	422.0	434.1							
G169.0	397.7	418.2	428.3							
G170.0	397.7	414.9	423.1							
G171.0	397.4	411.7	418.0							
G172.0	397.1	408.5	413.5							
G173.0	396.9	406.1	409.8							
G174.0	396.5	403.3	406.2							
G175.0	396.1	401.0	403.3							
G176.0	395.6	399.1	400.6							
G177.0	395.0	397.1	397.9							
G178.0	394.7	395.8	396.0							
G179.0	394.3	394.3	394.3							
G180.0	393.8	393.7	393.3							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0900]
Humidity: 45% R.H
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	11651.09
L 0-180(75) av	9804.68
L 0-180(85) av	5504.65
L 90-270(65) av	12101.24
L 90-270(75) av	10513.57
L 90-270(85) av	6386.35
L 45(65) av	11871.74
L 45(75) av	10188.01
L 45(85) av	5962.88

Standard: GB/T 29293-2012