

Report No.:

Test Time: 2024/10/31 20:13

Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: MALL014F40W27V35K(Up25%-Down75%)

Lamp Catalog:

Lamp Description:

Number of Lamps:

Lumens per Lamp:

Luminous Length (mm): 1200

Luminous Width (mm): 63

Luminous Height (mm):

Voltage: 120.2 V

Current: 0.330 A

Power: 39.55 W

Power Factor: 0.996

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 5319.6 lm

Downward Ratio: 79%

Total Rated Lamp Lumens: 5319.6 lm

Efficiency: 100%

Upward Ratio: 21%

Horizontal Diffuse Angle(10%,50%,75%,100%): H160.1,H112.4,H76.6,H2

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

Luminaire Efficacy Rating (LER): 134.55

C0r0 Intensity: 1464.6 cd

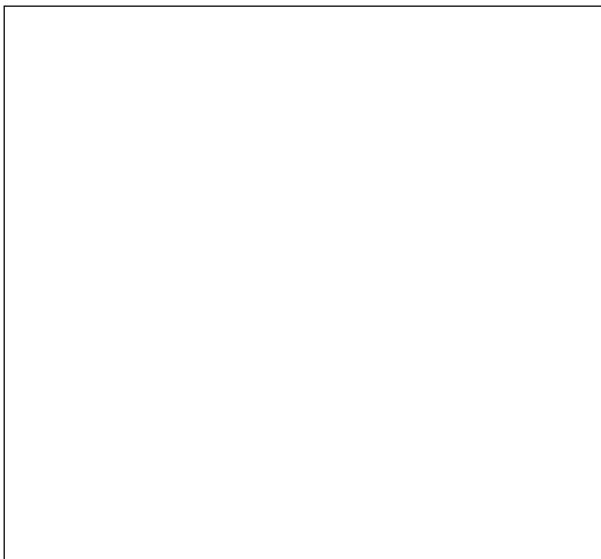
Max. Intensity: 1466.83 cd

Pos of Max. Intensity: H30 V2

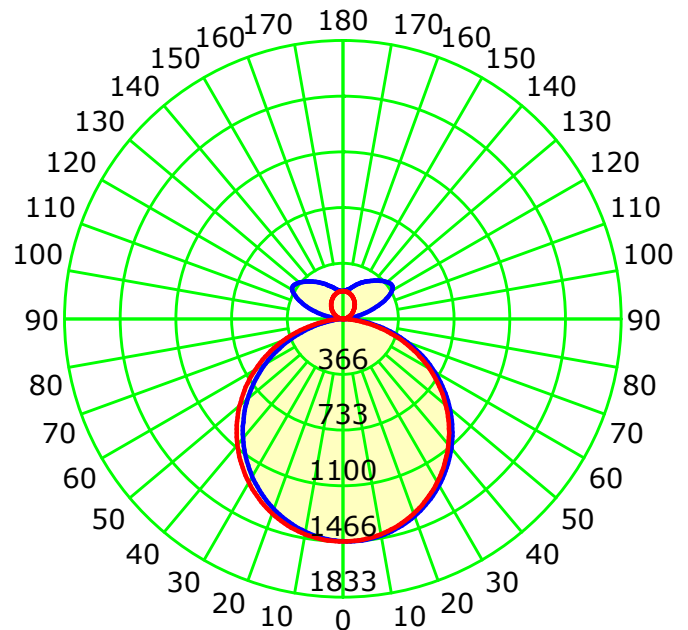
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 113.2°

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

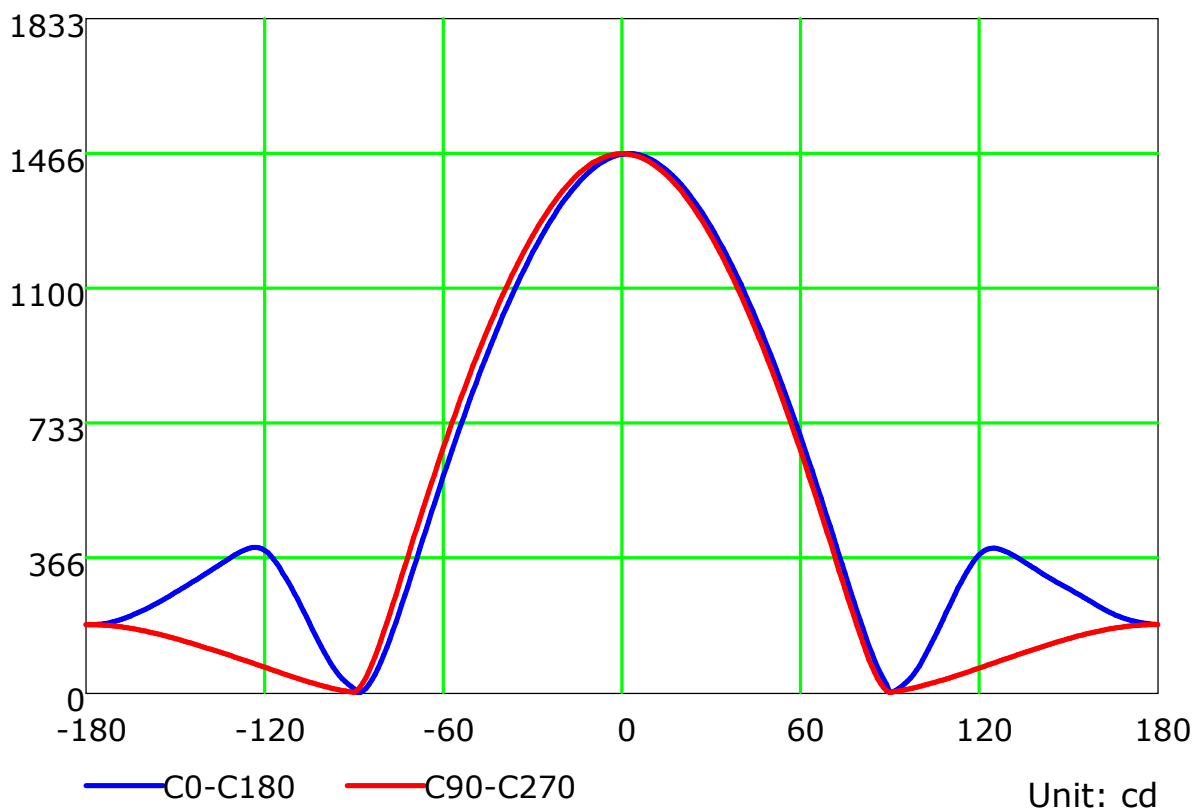
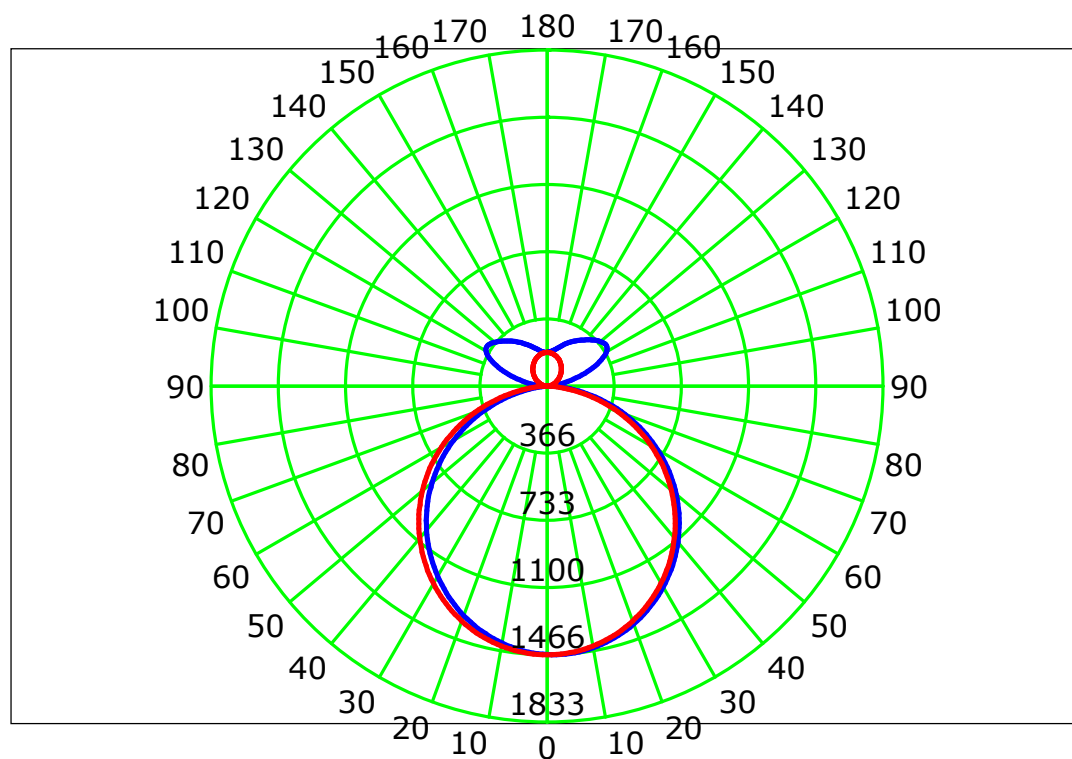
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0900]

Humidity: 45% R.H

Inspector:

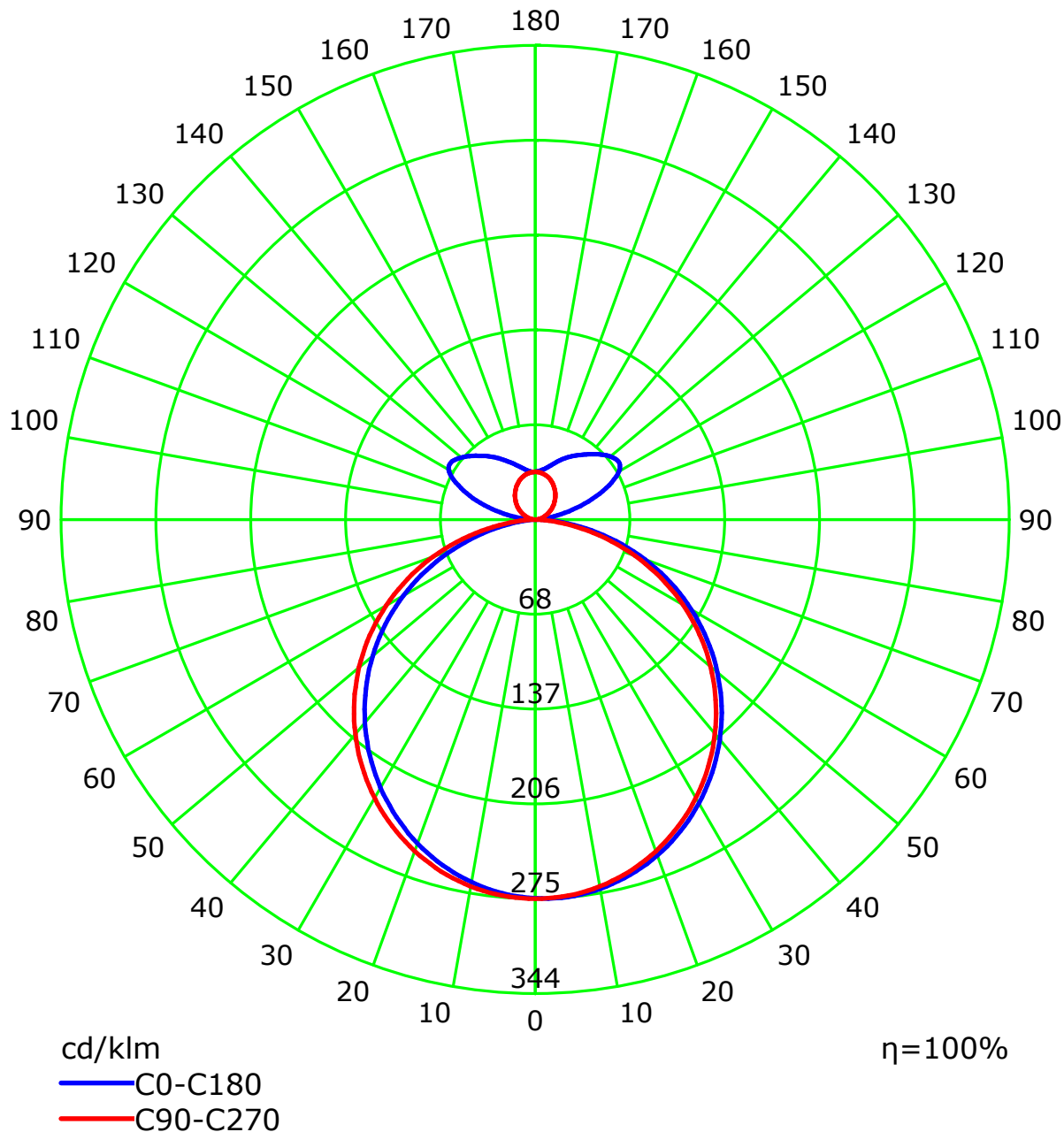
Luminous Intensity Distribution Curve



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
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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
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Distance: 11.655 m [K=1.0900]
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Inspector:

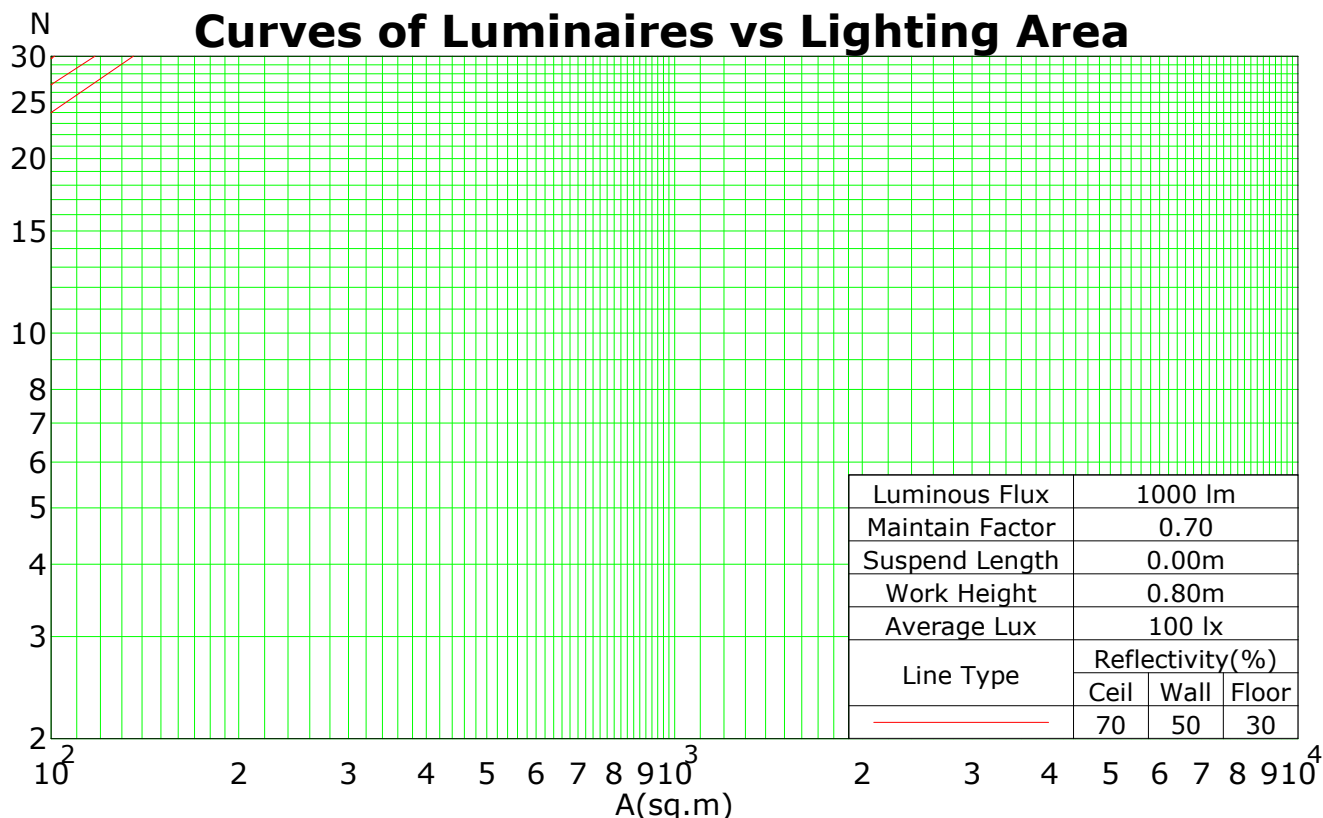
Coefficients Of Utilization - Zonal Cavity Method

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	1.14	1.14	1.14	1.14	1.09	1.09	1.09	1.09	0.99	0.99	0.99	0.91	0.91	0.91	0.83	0.83	0.83	0.79
1	1.04	0.99	0.95	0.92	0.99	0.95	0.91	0.88	0.87	0.84	0.82	0.80	0.77	0.75	0.73	0.71	0.69	0.66
2	0.95	0.87	0.80	0.74	0.90	0.83	0.77	0.72	0.76	0.71	0.67	0.70	0.66	0.63	0.64	0.61	0.58	0.55
3	0.86	0.76	0.68	0.62	0.82	0.73	0.66	0.60	0.67	0.61	0.56	0.61	0.57	0.53	0.56	0.52	0.49	0.46
4	0.79	0.67	0.59	0.52	0.75	0.64	0.57	0.51	0.59	0.53	0.48	0.55	0.49	0.45	0.50	0.46	0.42	0.39
5	0.72	0.60	0.51	0.45	0.69	0.57	0.49	0.44	0.53	0.46	0.41	0.49	0.43	0.39	0.45	0.40	0.37	0.34
6	0.67	0.54	0.45	0.39	0.63	0.52	0.44	0.38	0.48	0.41	0.36	0.44	0.38	0.34	0.41	0.36	0.32	0.30
7	0.62	0.49	0.40	0.34	0.59	0.47	0.39	0.33	0.43	0.37	0.32	0.40	0.34	0.30	0.37	0.32	0.28	0.26
8	0.57	0.44	0.36	0.30	0.55	0.43	0.35	0.30	0.40	0.33	0.28	0.37	0.31	0.27	0.34	0.29	0.25	0.23
9	0.53	0.40	0.32	0.27	0.51	0.39	0.32	0.26	0.36	0.30	0.25	0.34	0.28	0.24	0.31	0.27	0.23	0.21
10	0.50	0.37	0.30	0.24	0.48	0.36	0.29	0.24	0.34	0.27	0.23	0.31	0.26	0.22	0.29	0.24	0.21	0.19

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.26

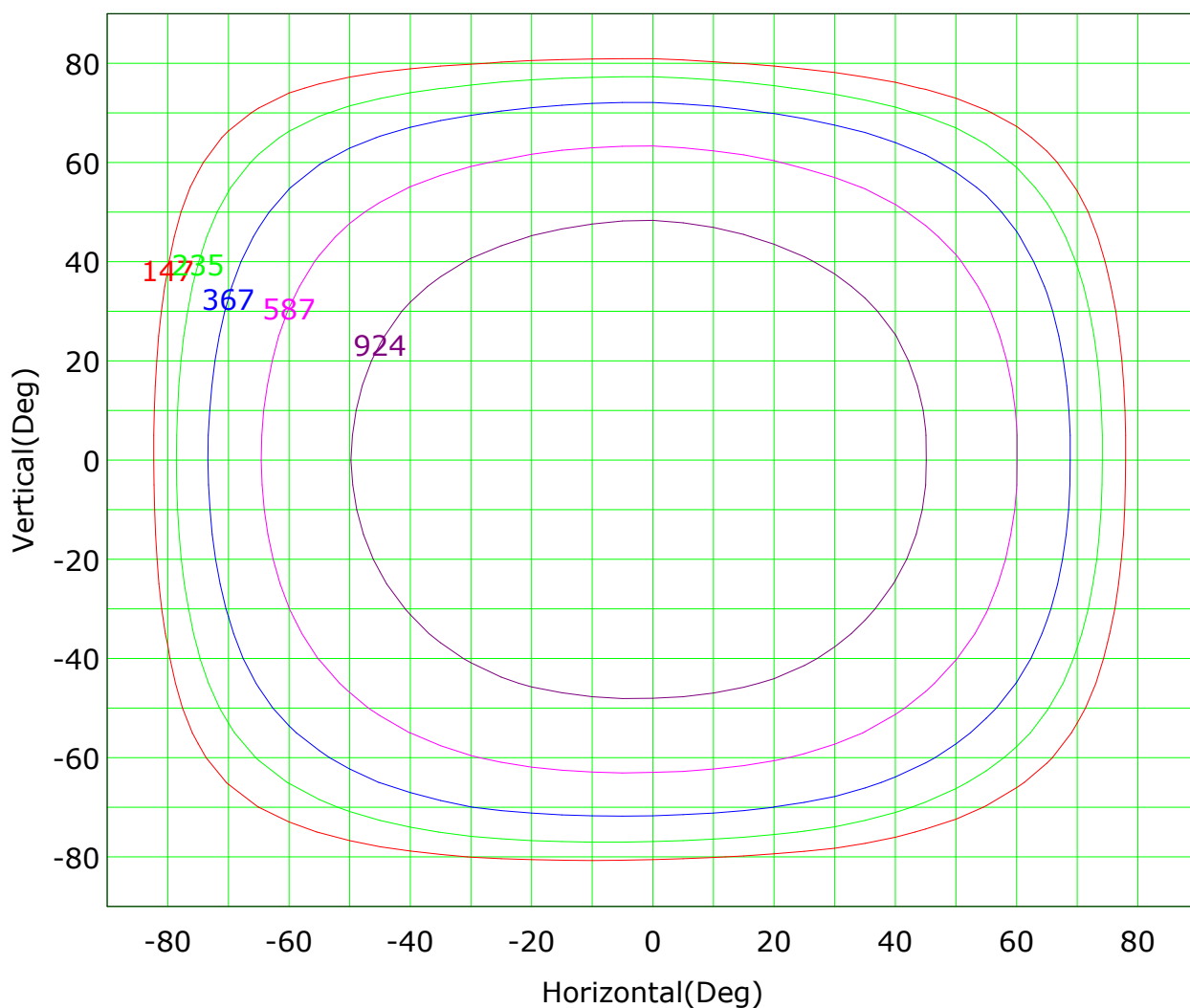
Spacing Criteria (Diagonal): 1.38



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)



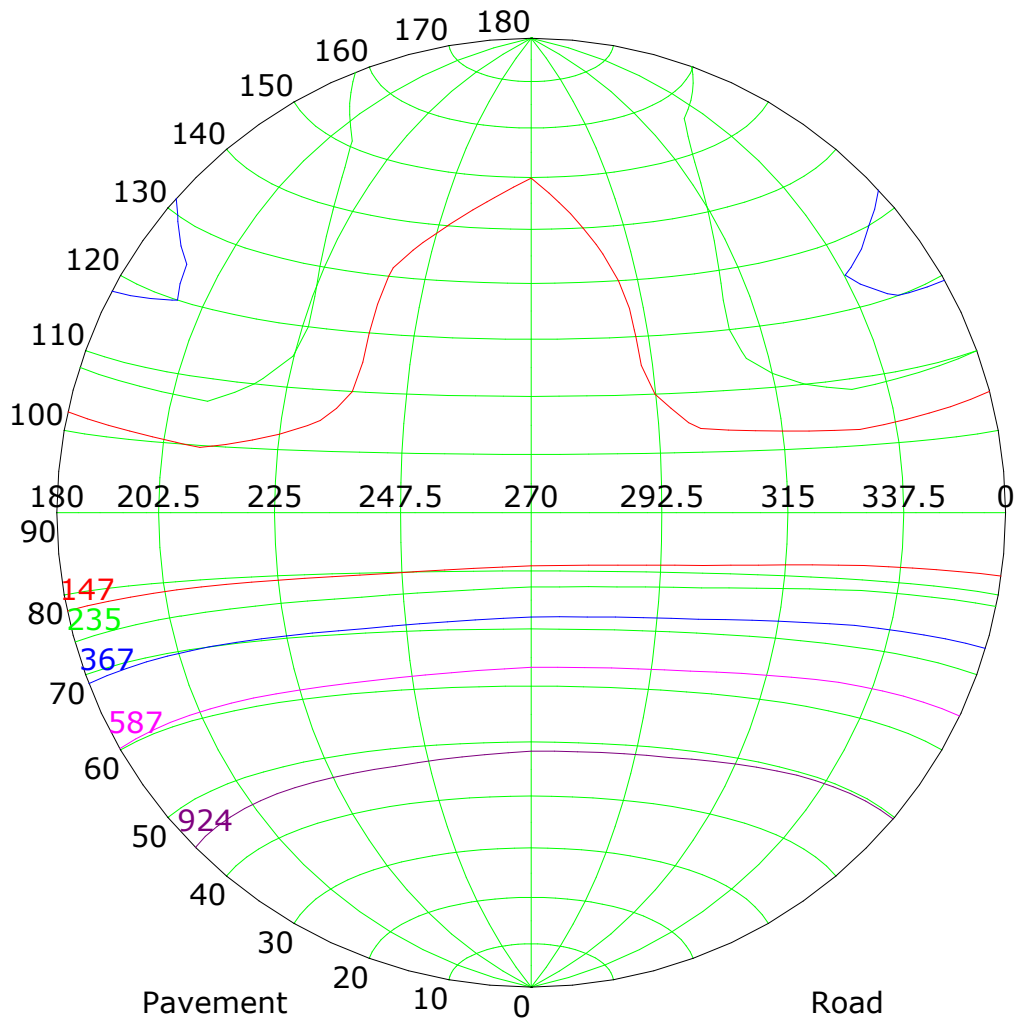
Imax (100%): 1467 cd

(10%): 147 cd	(16%): 235 cd
(25%): 367 cd	(40%): 587 cd
(63%): 924 cd	(100%): 1467 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:

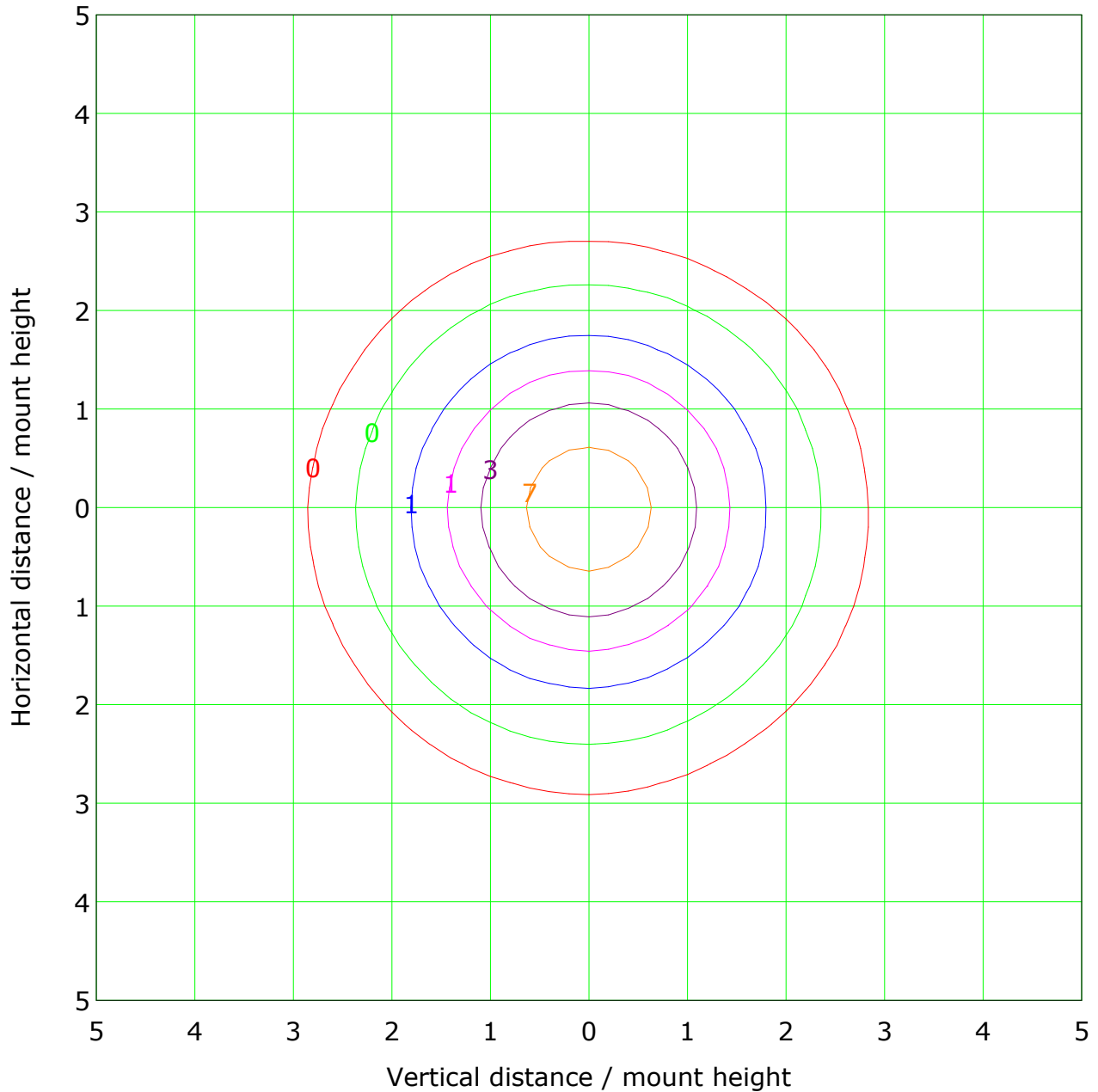
Isocandela (sphere)



Imax (100%): 1467 cd

(10%): 147 cd	(16%): 235 cd
(25%): 367 cd	(40%): 587 cd
(63%): 924 cd	(100%): 1467 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 14.7 lx

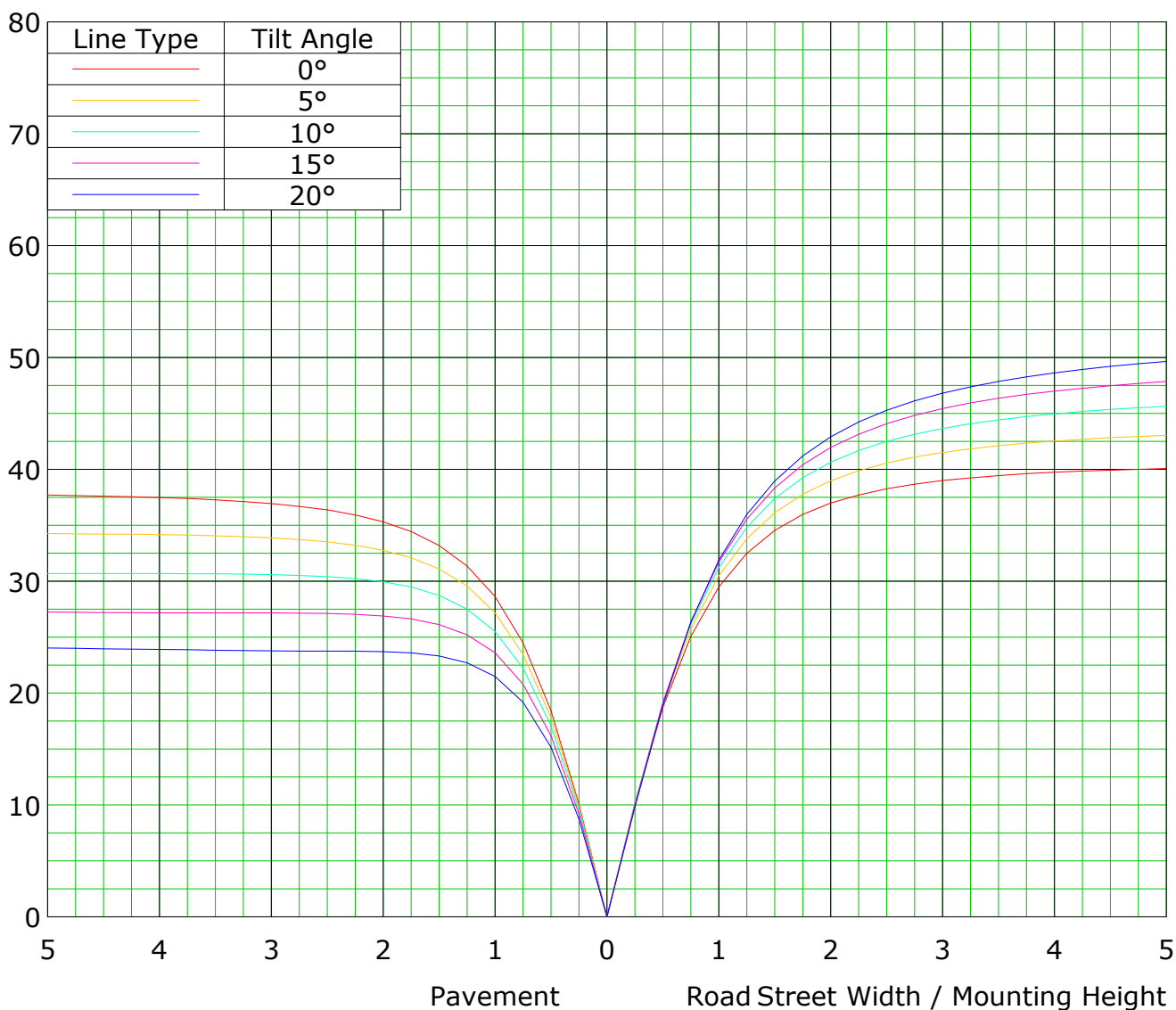
(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.5 lx
(20%): 2.9 lx	(50%): 7.3 lx
(100%): 14.7 lx	

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:

Roadway CU Curve

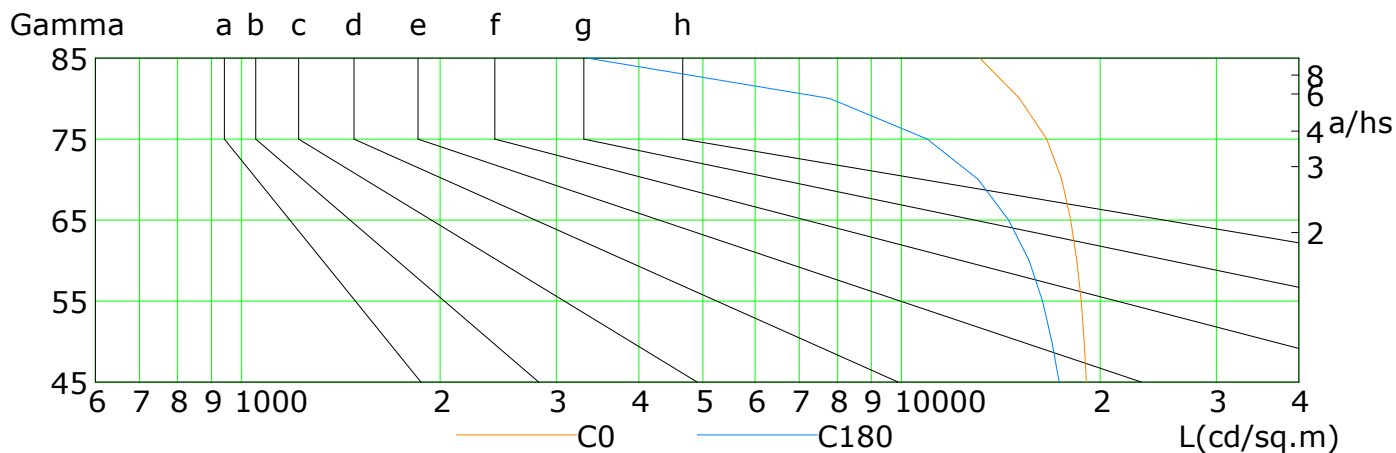
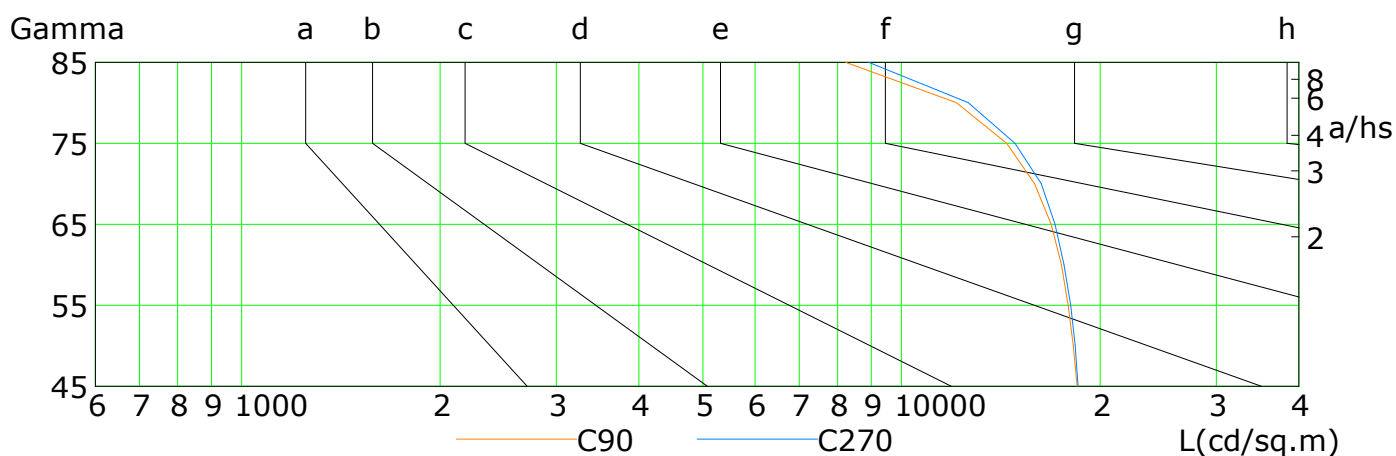
Efficiency(%)



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

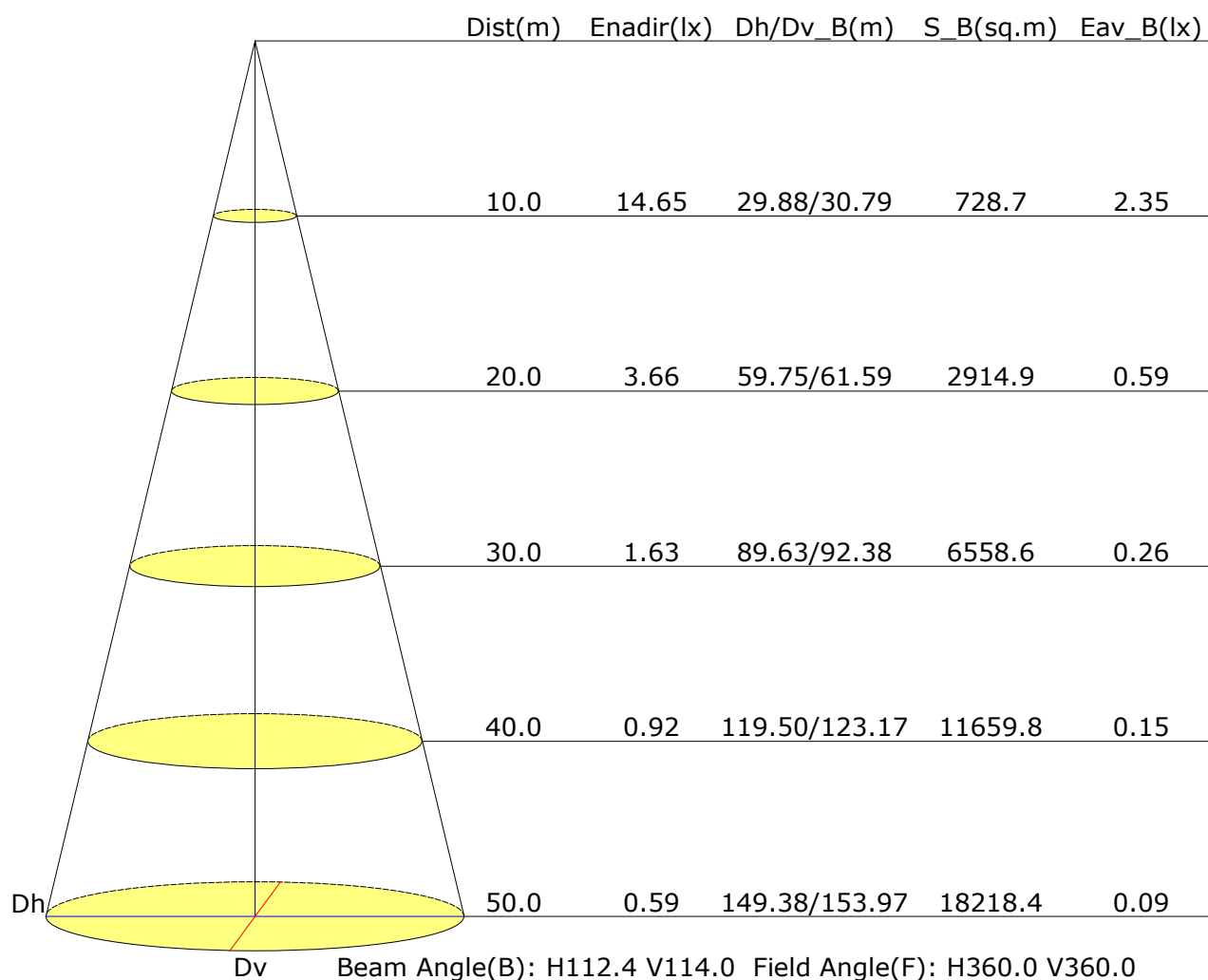


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	19058	18916	18735	18439	18053	17497	16600	15095	13143
C90	18465	18212	17898	17465	16852	15911	14434	12112	8232
C180	17328	16900	16355	15614	14538	13064	10937	7781	3343
C270	18525	18325	18044	17629	17082	16283	14853	12630	8915

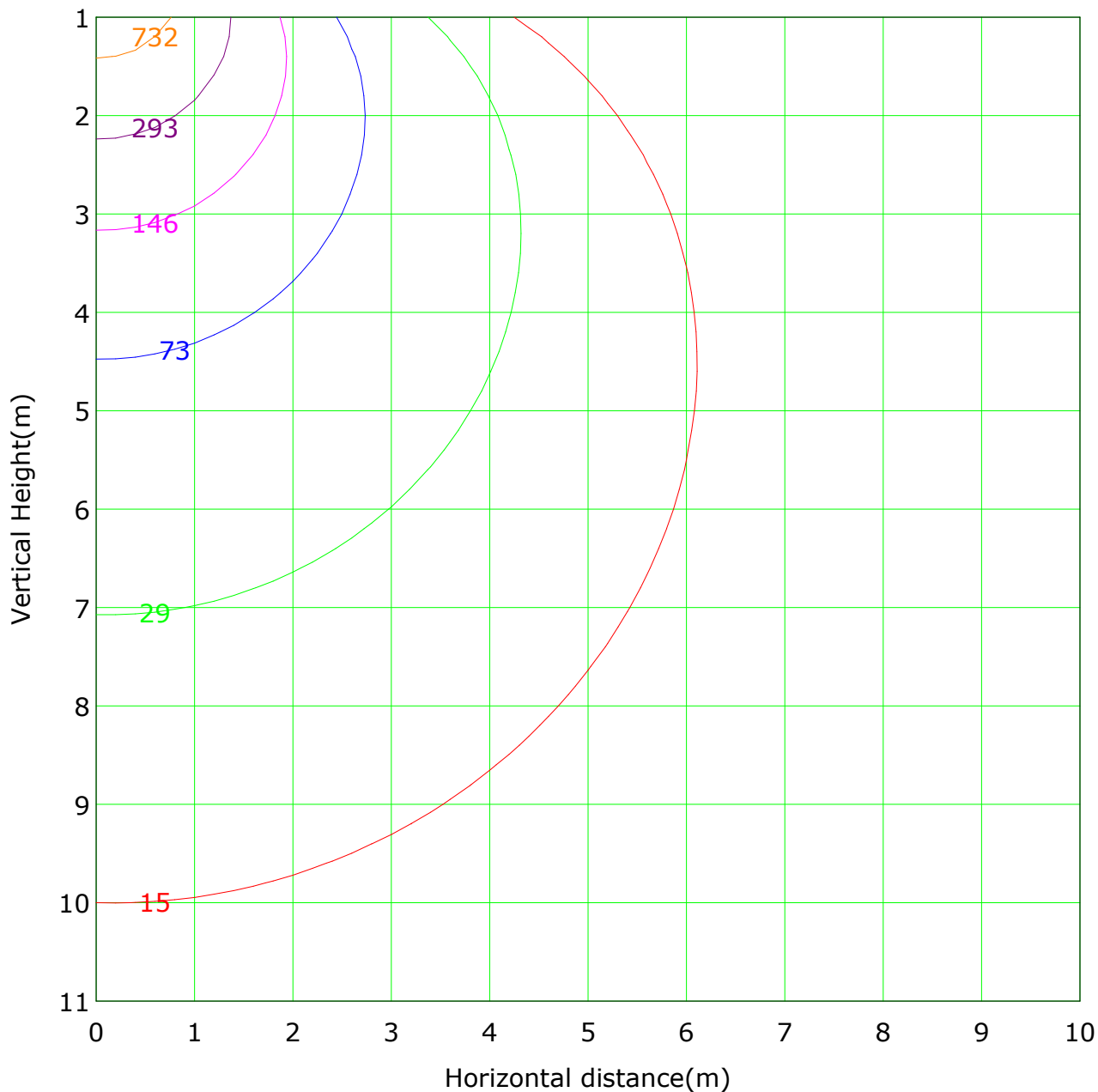
C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

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: 1464.6 lx
— (1%): 14.6 lx — (2%): 29.3 lx
— (5%): 73.2 lx — (10%): 146.5 lx
— (20%): 292.9 lx — (50%): 732.3 lx
— (100%):1464.6 lx

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:

Area Flux Table

Unit: lm

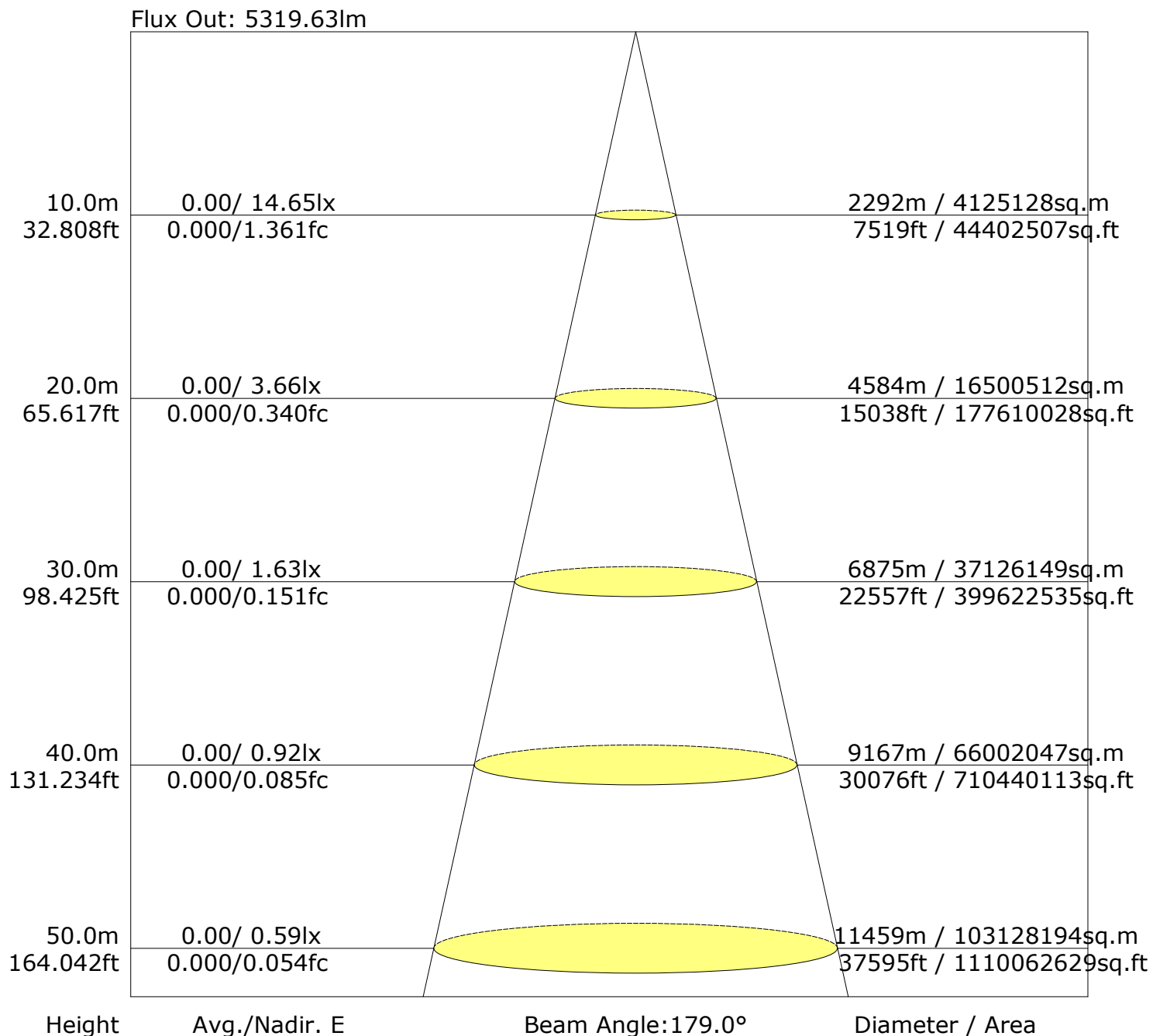
		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(T)	0.0	0.0	0.0	0.1	0.3	0.6	0.9	1.3	1.7	1.9	2.0	2.0	1.8	1.5	1.2	0.8	0.5	0.2	0.0	16.7	1.1	
	0.0	0.0	0.1	0.7	1.7	3.1	4.7	6.3	7.7	8.6	8.8	8.3	7.2	5.8	4.3	2.8	1.5	0.5	0.1	72.1	63.9	
	0.0	0.0	0.4	1.6	3.8	6.6	9.6	12.5	14.8	16.2	16.4	15.4	13.4	10.9	8.0	5.1	2.6	0.9	0.1	138.6	136.2	
	0.0	0.7	2.7	6.1	10.2	14.4	18.3	21.5	23.3	23.5	22.1	19.3	15.7	11.6	7.5	3.9	1.3	0.2	0.2	202.4	201.1	
	0.1	1.0	3.8	8.1	13.3	18.7	23.6	27.4	29.6	29.8	28.0	24.6	20.0	14.8	9.6	5.0	1.7	0.2	0.2	259.3	258.5	
	0.1	1.3	4.7	9.8	16.0	22.3	28.0	32.3	34.9	35.2	33.0	29.0	23.7	17.5	11.3	5.9	2.1	0.3	0.3	307.5	306.9	
	0.1	1.6	5.4	11.1	18.0	25.1	31.5	36.3	39.2	39.4	37.0	32.6	26.6	19.6	12.7	6.7	2.4	0.3	0.3	345.5	345.0	
	0.1	1.7	5.8	12.0	19.3	26.9	33.8	39.2	42.2	42.4	39.9	35.1	28.5	21.1	13.7	7.2	2.5	0.3	0.3	371.9	371.4	
	0.1	1.8	6.1	12.4	19.9	27.7	34.9	40.5	43.7	44.0	41.5	36.4	29.5	21.8	14.1	7.5	2.6	0.3	0.3	385.0	384.6	
	0.1	1.8	6.0	12.4	19.9	27.7	34.9	40.5	43.7	44.0	41.4	36.4	29.5	21.8	14.1	7.5	2.6	0.3	0.3	384.7	384.3	
Flux(E)	0.1	1.8	6.0	12.4	19.9	27.7	34.9	40.5	43.7	44.0	41.4	36.4	29.5	21.8	14.1	7.5	2.6	0.3	0.3	371.4	371.0	
	0.1	1.7	5.8	11.9	19.2	26.8	33.7	39.2	42.3	42.5	40.0	35.0	28.4	21.0	13.6	7.2	2.5	0.3	0.3	345.3	344.7	
	0.1	1.5	5.3	11.0	17.8	24.9	31.5	36.6	39.3	39.5	37.3	32.6	26.4	19.5	12.6	6.6	2.3	0.3	0.3	307.5	306.8	
	0.1	1.3	4.6	9.7	15.8	22.2	28.1	32.6	35.0	35.3	33.3	29.2	23.6	17.4	11.2	5.8	2.0	0.3	0.3	259.3	258.4	
	0.1	1.0	3.7	7.9	13.2	18.7	23.8	27.6	29.6	29.9	28.2	24.8	20.1	14.7	9.4	4.9	1.7	0.2	0.2	202.2	200.8	
	0.0	0.7	2.6	5.8	10.0	14.5	18.6	21.6	23.3	23.5	22.2	19.6	15.8	11.5	7.3	3.7	1.3	0.2	0.2	138.2	135.6	
	0.0	0.4	1.5	3.6	6.5	9.7	12.7	14.8	16.1	16.3	15.5	13.7	11.0	7.9	4.9	2.5	0.9	0.1	0.1	71.4	63.3	
	0.0	0.1	0.6	1.5	3.0	4.7	6.4	7.7	8.4	8.6	8.3	7.4	5.9	4.2	2.6	1.4	0.5	0.1	0.1	16.1	1.1	
	0.0	0.0	0.1	0.2	0.5	0.9	1.3	1.6	1.8	2.0	2.0	1.8	1.5	1.1	0.7	0.4	0.2	0.0	0.0	4195		
	0.0	1.2	17.2	61.1	129.4	213.0	300.6	381.0	443.4	479.3	483.3	455.4	400.0	324.6	238.9	154.0	80.6	28.4	3.6	0.9	4135	
0.0	12.1	57.3	125.8	209.5	297.1	377.5	440.0	475.9	480.3	452.3	396.5	321.2	235.5	150.7	77.2	24.8	0.9					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		Horizontal plane																				

Horizontal plane

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:

The Average Illuminance Effective Figure



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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	21.1	22.3	21.7	23.0	23.8	20.8	22.0	21.5	22.7	23.5
3H	23.0	24.1	23.7	24.8	25.6	22.6	23.7	23.3	24.4	25.2
4H	23.7	24.7	24.4	25.4	26.3	23.2	24.3	23.9	25.0	25.8
6H	24.2	25.2	25.0	25.9	26.8	23.7	24.6	24.4	25.3	26.2
8H	24.4	25.3	25.1	26.1	26.9	23.8	24.7	24.5	25.4	26.3
12H	24.5	25.4	25.3	26.1	27.0	23.8	24.7	24.5	25.4	26.3
X=4H Y=2H	21.7	22.7	22.4	23.4	24.3	21.4	22.4	22.1	23.1	24.0
3H	23.8	24.7	24.5	25.4	26.3	23.4	24.3	24.1	25.0	25.9
4H	24.7	25.4	25.4	26.2	27.1	24.2	25.0	24.9	25.7	26.6
6H	25.3	26.0	26.1	26.8	27.7	24.7	25.4	25.5	26.2	27.1
8H	25.5	26.2	26.3	26.9	27.8	24.9	25.5	25.6	26.3	27.2
12H	25.7	26.3	26.5	27.0	28.0	24.9	25.5	25.7	26.3	27.2
X=8H Y=4H	24.9	25.6	25.7	26.3	27.2	24.4	25.1	25.2	25.8	26.7
6H	25.7	26.3	26.5	27.1	28.0	25.1	25.6	25.9	26.4	27.3
8H	26.0	26.5	26.8	27.3	28.2	25.3	25.8	26.1	26.6	27.5
12H	26.2	26.7	27.0	27.5	28.4	25.4	25.8	26.2	26.6	27.6
X=12H Y=4H	24.9	25.5	25.7	26.3	27.2	24.4	25.0	25.2	25.8	26.7
6H	25.8	26.2	26.6	27.0	28.0	25.1	25.6	25.9	26.4	27.3
8H	26.1	26.5	26.9	27.3	28.3	25.4	25.8	26.2	26.6	27.5

Calculate in accordance with CIE 190:2010 The table is revised with 5320lm ($8\log(F/F_0) = 5.8$).

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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2169	40.8
	FL (0°-30°)	574	10.8
	FM (30°-60°)	1113	20.9
	FH (60°-80°)	439	8.3
	FVH (80°-90°)	44	0.8
	BACK LIGHT	2026	38.1
	BL (0°-30°)	563	10.6
	BM (30°-60°)	1058	19.9
	BH (60°-80°)	380	7.1
	BVH (80°-90°)	25	0.5
	UP LIGHT	1124	21.1
	UL (90°-100°)	52	1.0
	UH (100°-180°)	1073	20.2
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U5 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 G1

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Inspector:



Back Light

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	0.52	0.62	0.69	0.74	0.81	0.86	0.89	0.94	0.97	
	0.30		0.44	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.93	
	0.20		0.39	0.49	0.56	0.62	0.70	0.76	0.80	0.86	0.90	
0.50	0.50	0.20	0.48	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.88	
	0.30		0.42	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86	
	0.20		0.37	0.47	0.53	0.58	0.66	0.71	0.75	0.80	0.83	
0.30	0.50	0.20	0.45	0.53	0.59	0.63	0.69	0.73	0.75	0.79	0.81	
	0.30		0.39	0.48	0.54	0.59	0.65	0.69	0.72	0.76	0.79	
	0.20		0.35	0.44	0.50	0.55	0.62	0.66	0.70	0.74	0.77	
0.00	0.00	0.00	0.31	0.39	0.45	0.49	0.55	0.59	0.62	0.65	0.68	
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	0.96	0.79	0.67	0.59	0.47	0.39	0.33	0.26	0.21	
	0.30		0.80	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20	
	0.20		0.68	0.59	0.52	0.47	0.39	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.88	0.72	0.61	0.54	0.43	0.38	0.30	0.23	0.19	
	0.30		0.74	0.63	0.54	0.48	0.39	0.33	0.28	0.22	0.18	
	0.20		0.64	0.55	0.49	0.43	0.36	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.81	0.66	0.56	0.49	0.39	0.32	0.27	0.21	0.17	
	0.30		0.69	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.16	
	0.20		0.60	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.48	0.40	0.34	0.30	0.24	0.20	0.17	0.14	0.11	
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	0.37	0.38	0.39	0.39	0.40	0.41	0.41	0.41	0.42	
	0.30		0.30	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	
	0.20		0.25	0.27	0.28	0.30	0.31	0.33	0.34	0.36	0.37	
0.50	0.50	0.20	0.35	0.36	0.37	0.38	0.38	0.39	0.39	0.40	0.40	
	0.30		0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	
	0.20		0.25	0.27	0.28	0.29	0.31	0.32	0.33	0.35	0.36	
0.30	0.50	0.20	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.38	
	0.30		0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.36	
	0.20		0.25	0.26	0.28	0.29	0.30	0.31	0.32	0.34	0.35	
0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
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	1465.7	1.4	1.4	0.03	0.03
1.0-2.0	1465.2	4.2	5.6	0.08	0.11
2.0-3.0	1464.1	7.0	12.6	0.13	0.24
3.0-4.0	1462.5	9.8	22.4	0.18	0.42
4.0-5.0	1460.4	12.6	35.0	0.24	0.66
5.0-6.0	1457.7	15.3	50.3	0.29	0.95
6.0-7.0	1454.5	18.1	68.3	0.34	1.28
7.0-8.0	1450.7	20.8	89.1	0.39	1.68
8.0-9.0	1446.5	23.4	112.6	0.44	2.12
9.0-10.0	1441.7	26.1	138.7	0.49	2.61
10.0-11.0	1436.5	28.7	167.4	0.54	3.15
11.0-12.0	1430.6	31.3	198.6	0.59	3.73
12.0-13.0	1424.2	33.8	232.4	0.64	4.37
13.0-14.0	1417.5	36.3	268.7	0.68	5.05
14.0-15.0	1410.3	38.7	307.4	0.73	5.78
15.0-16.0	1402.4	41.1	348.5	0.77	6.55
16.0-17.0	1394.0	43.4	392.0	0.82	7.37
17.0-18.0	1385.3	45.7	437.6	0.86	8.23
18.0-19.0	1376.1	47.9	485.5	0.90	9.13
19.0-20.0	1366.6	50.0	535.5	0.94	10.07
20.0-21.0	1356.4	52.1	587.6	0.98	11.05
21.0-22.0	1345.6	54.1	641.7	1.02	12.06
22.0-23.0	1334.6	56.0	697.7	1.05	13.12
23.0-24.0	1323.1	57.9	755.6	1.09	14.20
24.0-25.0	1311.0	59.6	815.2	1.12	15.32
25.0-26.0	1298.4	61.3	876.5	1.15	16.48
26.0-27.0	1285.8	62.9	939.4	1.18	17.66
27.0-28.0	1272.8	64.5	1003.9	1.21	18.87
28.0-29.0	1259.3	65.9	1069.8	1.24	20.11
29.0-30.0	1245.3	67.2	1137.0	1.26	21.37
30.0-31.0	1230.7	68.5	1205.5	1.29	22.66
31.0-32.0	1215.9	69.7	1275.2	1.31	23.97
32.0-33.0	1201.0	70.8	1345.9	1.33	25.30
33.0-34.0	1185.4	71.7	1417.7	1.35	26.65
34.0-35.0	1169.1	72.6	1490.3	1.37	28.01
35.0-36.0	1152.9	73.4	1563.7	1.38	29.40

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	1136.6	74.1	1637.8	1.39	30.79
37.0-38.0	1119.6	74.7	1712.6	1.40	32.19
38.0-39.0	1102.0	75.2	1787.8	1.41	33.61
39.0-40.0	1084.3	75.6	1863.4	1.42	35.03
40.0-41.0	1066.3	75.9	1939.4	1.43	36.46
41.0-42.0	1048.2	76.2	2015.6	1.43	37.89
42.0-43.0	1029.5	76.3	2091.8	1.43	39.32
43.0-44.0	1010.3	76.3	2168.1	1.43	40.76
44.0-45.0	990.9	76.2	2244.3	1.43	42.19
45.0-46.0	971.5	76.0	2320.2	1.43	43.62
46.0-47.0	951.4	75.7	2395.9	1.42	45.04
47.0-48.0	931.0	75.3	2471.2	1.42	46.45
48.0-49.0	910.6	74.8	2546.0	1.41	47.86
49.0-50.0	889.7	74.2	2620.2	1.39	49.25
50.0-51.0	868.5	73.5	2693.7	1.38	50.64
51.0-52.0	847.0	72.7	2766.4	1.37	52.00
52.0-53.0	825.4	71.8	2838.2	1.35	53.35
53.0-54.0	803.4	70.8	2909.0	1.33	54.68
54.0-55.0	780.9	69.7	2978.7	1.31	55.99
55.0-56.0	758.5	68.5	3047.3	1.29	57.28
56.0-57.0	735.7	67.3	3114.5	1.26	58.55
57.0-58.0	712.6	65.9	3180.4	1.24	59.79
58.0-59.0	689.1	64.4	3244.9	1.21	61.00
59.0-60.0	665.3	62.9	3307.7	1.18	62.18
60.0-61.0	641.8	61.3	3369.0	1.15	63.33
61.0-62.0	617.9	59.6	3428.5	1.12	64.45
62.0-63.0	593.3	57.7	3486.3	1.08	65.54
63.0-64.0	568.5	55.8	3542.0	1.05	66.58
64.0-65.0	544.2	53.9	3595.9	1.01	67.60
65.0-66.0	519.5	51.8	3647.7	0.97	68.57
66.0-67.0	494.1	49.7	3697.4	0.93	69.51
67.0-68.0	468.5	47.5	3744.9	0.89	70.40
68.0-69.0	443.4	45.2	3790.1	0.85	71.25
69.0-70.0	418.0	42.9	3833.1	0.81	72.06
70.0-71.0	392.3	40.6	3873.6	0.76	72.82
71.0-72.0	366.6	38.1	3911.8	0.72	73.53

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	341.0	35.7	3947.4	0.67	74.20
73.0-74.0	315.4	33.2	3980.6	0.62	74.83
74.0-75.0	290.1	30.7	4011.2	0.58	75.40
75.0-76.0	264.9	28.1	4039.4	0.53	75.93
76.0-77.0	239.8	25.6	4064.9	0.48	76.41
77.0-78.0	215.3	23.0	4088.0	0.43	76.85
78.0-79.0	191.2	20.5	4108.5	0.39	77.23
79.0-80.0	167.5	18.1	4126.6	0.34	77.57
80.0-81.0	144.5	15.6	4142.2	0.29	77.87
81.0-82.0	122.5	13.3	4155.5	0.25	78.12
82.0-83.0	101.4	11.0	4166.5	0.21	78.32
83.0-84.0	81.6	8.9	4175.4	0.17	78.49
84.0-85.0	63.5	6.9	4182.4	0.13	78.62
85.0-86.0	47.0	5.1	4187.5	0.10	78.72
86.0-87.0	32.7	3.6	4191.1	0.07	78.79
87.0-88.0	20.9	2.3	4193.4	0.04	78.83
88.0-89.0	11.9	1.3	4194.7	0.02	78.85
89.0-90.0	7.6	0.8	4195.5	0.02	78.87
90.0-91.0	9.8	1.1	4196.6	0.02	78.89
91.0-92.0	16.6	1.8	4198.4	0.03	78.92
92.0-93.0	24.8	2.7	4201.1	0.05	78.97
93.0-94.0	33.3	3.6	4204.8	0.07	79.04
94.0-95.0	42.0	4.6	4209.4	0.09	79.13
95.0-96.0	50.8	5.5	4214.9	0.10	79.23
96.0-97.0	59.8	6.5	4221.4	0.12	79.36
97.0-98.0	69.1	7.5	4228.9	0.14	79.50
98.0-99.0	78.7	8.5	4237.5	0.16	79.66
99.0-100.0	88.7	9.6	4247.1	0.18	79.84
100.0-101.0	98.8	10.7	4257.7	0.20	80.04
101.0-102.0	108.9	11.7	4269.4	0.22	80.26
102.0-103.0	118.8	12.7	4282.2	0.24	80.50
103.0-104.0	128.6	13.7	4295.9	0.26	80.75
104.0-105.0	138.3	14.7	4310.6	0.28	81.03
105.0-106.0	147.7	15.6	4326.2	0.29	81.32
106.0-107.0	156.9	16.5	4342.7	0.31	81.63
107.0-108.0	165.7	17.3	4360.0	0.33	81.96

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	174.2	18.1	4378.1	0.34	82.30
109.0-110.0	182.3	18.8	4397.0	0.35	82.66
110.0-111.0	190.1	19.5	4416.5	0.37	83.02
111.0-112.0	197.9	20.2	4436.7	0.38	83.40
112.0-113.0	205.5	20.8	4457.5	0.39	83.79
113.0-114.0	212.6	21.4	4478.9	0.40	84.20
114.0-115.0	219.3	21.9	4500.8	0.41	84.61
115.0-116.0	225.4	22.3	4523.1	0.42	85.03
116.0-117.0	230.7	22.6	4545.7	0.43	85.45
117.0-118.0	235.4	22.9	4568.6	0.43	85.88
118.0-119.0	239.3	23.1	4591.7	0.43	86.32
119.0-120.0	242.3	23.1	4614.8	0.43	86.75
120.0-121.0	244.5	23.1	4637.9	0.43	87.18
121.0-122.0	245.9	23.0	4660.9	0.43	87.62
122.0-123.0	246.7	22.8	4683.7	0.43	88.05
123.0-124.0	246.9	22.6	4706.3	0.42	88.47
124.0-125.0	246.6	22.3	4728.6	0.42	88.89
125.0-126.0	245.9	21.9	4750.5	0.41	89.30
126.0-127.0	244.9	21.6	4772.1	0.41	89.71
127.0-128.0	243.6	21.2	4793.3	0.40	90.11
128.0-129.0	242.3	20.8	4814.1	0.39	90.50
129.0-130.0	240.8	20.4	4834.5	0.38	90.88
130.0-131.0	239.2	19.9	4854.4	0.37	91.25
131.0-132.0	237.6	19.5	4873.9	0.37	91.62
132.0-133.0	236.0	19.1	4893.0	0.36	91.98
133.0-134.0	234.4	18.6	4911.7	0.35	92.33
134.0-135.0	232.9	18.2	4929.9	0.34	92.67
135.0-136.0	231.3	17.8	4947.7	0.33	93.01
136.0-137.0	229.8	17.3	4965.0	0.33	93.33
137.0-138.0	228.3	16.9	4981.9	0.32	93.65
138.0-139.0	226.8	16.5	4998.4	0.31	93.96
139.0-140.0	225.4	16.1	5014.4	0.30	94.26
140.0-141.0	224.0	15.6	5030.1	0.29	94.56
141.0-142.0	222.7	15.2	5045.3	0.29	94.84
142.0-143.0	221.3	14.8	5060.0	0.28	95.12
143.0-144.0	220.0	14.4	5074.4	0.27	95.39

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	218.7	13.9	5088.3	0.26	95.65
145.0-146.0	217.5	13.5	5101.8	0.25	95.91
146.0-147.0	216.2	13.1	5114.9	0.25	96.15
147.0-148.0	214.9	12.7	5127.6	0.24	96.39
148.0-149.0	213.7	12.2	5139.8	0.23	96.62
149.0-150.0	212.4	11.8	5151.7	0.22	96.84
150.0-151.0	211.2	11.4	5163.1	0.21	97.06
151.0-152.0	209.9	11.0	5174.0	0.21	97.26
152.0-153.0	208.6	10.6	5184.6	0.20	97.46
153.0-154.0	207.3	10.1	5194.7	0.19	97.65
154.0-155.0	206.0	9.7	5204.5	0.18	97.84
155.0-156.0	204.7	9.3	5213.8	0.17	98.01
156.0-157.0	203.4	8.9	5222.7	0.17	98.18
157.0-158.0	202.0	8.5	5231.1	0.16	98.34
158.0-159.0	200.7	8.1	5239.2	0.15	98.49
159.0-160.0	199.4	7.7	5246.9	0.14	98.63
160.0-161.0	198.1	7.3	5254.1	0.14	98.77
161.0-162.0	196.9	6.9	5261.0	0.13	98.90
162.0-163.0	195.7	6.5	5267.4	0.12	99.02
163.0-164.0	194.6	6.1	5273.5	0.11	99.13
164.0-165.0	193.5	5.7	5279.2	0.11	99.24
165.0-166.0	192.4	5.3	5284.4	0.10	99.34
166.0-167.0	191.5	4.9	5289.4	0.09	99.43
167.0-168.0	190.6	4.5	5293.9	0.09	99.52
168.0-169.0	189.7	4.1	5298.0	0.08	99.59
169.0-170.0	189.0	3.8	5301.8	0.07	99.66
170.0-171.0	188.3	3.4	5305.2	0.06	99.73
171.0-172.0	187.6	3.0	5308.2	0.06	99.79
172.0-173.0	187.1	2.7	5310.9	0.05	99.84
173.0-174.0	186.6	2.3	5313.2	0.04	99.88
174.0-175.0	186.1	2.0	5315.2	0.04	99.92
175.0-176.0	185.8	1.6	5316.8	0.03	99.95
176.0-177.0	185.5	1.2	5318.0	0.02	99.97
177.0-178.0	185.3	0.9	5318.9	0.02	99.99
178.0-179.0	185.2	0.5	5319.5	0.01	100.00
179.0-180.0	185.2	0.2	5319.6	0.00	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°): 2244.26 lm

%lum = 42.2%

%lamp = 42.2%

cone flux(120°): 3307.74 lm

%lum = 62.2%

%lamp = 62.2%

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	1464.6	1465.9	1465.8	1466.5	1466.3	1465.5	1464.6	1465.9	1465.8	1466.5
G1.0	1465.9	1466.4	1466.1	1466.2	1465.8	1464.3	1463.5	1464.9	1465.1	1466.1
G2.0	1466.7	1466.8	1466.2	1465.4	1465.0	1462.2	1461.1	1462.7	1463.5	1465.4
G3.0	1466.5	1466.0	1465.6	1463.7	1463.2	1460.1	1458.5	1461.2	1461.6	1464.1
G4.0	1466.2	1465.0	1464.0	1462.4	1461.1	1457.6	1455.2	1458.2	1459.3	1462.0
G5.0	1465.0	1463.3	1462.1	1460.1	1458.4	1454.2	1451.4	1455.1	1456.0	1460.1
G6.0	1463.1	1460.6	1460.3	1457.4	1455.5	1450.2	1446.7	1451.4	1453.1	1456.9
G7.0	1460.4	1458.3	1457.6	1453.8	1452.1	1445.5	1441.8	1447.2	1448.5	1453.7
G8.0	1457.6	1455.1	1454.2	1450.1	1447.8	1440.6	1436.6	1442.2	1444.0	1449.2
G9.0	1454.4	1450.9	1450.3	1446.0	1442.8	1435.6	1430.4	1436.9	1439.6	1445.3
G10.0	1450.1	1446.6	1446.0	1440.5	1437.5	1429.8	1423.6	1431.6	1433.3	1440.8
G11.0	1445.6	1442.4	1441.2	1435.4	1432.1	1423.8	1416.8	1425.1	1428.1	1434.6
G12.0	1440.1	1436.4	1435.7	1428.8	1425.9	1416.3	1409.4	1418.0	1420.8	1429.0
G13.0	1434.5	1430.5	1429.6	1422.7	1418.8	1408.7	1401.9	1411.0	1413.7	1422.5
G14.0	1428.4	1424.4	1423.2	1416.2	1412.0	1401.0	1392.9	1403.0	1406.5	1416.2
G15.0	1422.1	1417.8	1416.2	1409.2	1404.6	1392.7	1383.9	1395.0	1398.4	1408.8
G16.0	1414.7	1409.7	1409.3	1400.7	1396.2	1383.2	1375.2	1386.3	1389.2	1400.9
G17.0	1407.0	1401.9	1401.3	1392.5	1387.8	1373.5	1364.6	1377.0	1380.6	1391.8
G18.0	1399.7	1394.1	1393.0	1383.7	1378.0	1363.8	1354.5	1366.6	1371.4	1383.1
G19.0	1391.1	1384.6	1383.9	1374.7	1368.5	1353.6	1344.2	1356.5	1360.9	1374.3
G20.0	1382.3	1375.7	1374.5	1365.6	1358.6	1343.0	1333.1	1346.2	1351.6	1364.7
G21.0	1372.1	1365.8	1365.4	1354.2	1348.7	1330.7	1321.5	1335.1	1340.2	1353.7
G22.0	1362.6	1355.6	1354.5	1343.6	1336.9	1319.1	1309.6	1322.7	1329.3	1343.4
G23.0	1352.1	1345.3	1343.6	1332.7	1325.8	1306.9	1296.0	1311.0	1317.6	1332.4
G24.0	1340.5	1333.8	1333.0	1321.1	1314.2	1294.7	1283.1	1298.7	1305.6	1321.3
G25.0	1329.3	1321.5	1320.8	1308.5	1301.1	1281.8	1270.1	1286.2	1291.8	1308.8
G26.0	1318.0	1309.6	1308.7	1296.3	1288.5	1267.2	1256.6	1272.0	1279.5	1296.5
G27.0	1306.2	1297.6	1296.8	1284.0	1275.8	1253.8	1241.5	1258.3	1266.6	1283.9
G28.0	1293.5	1283.7	1284.2	1271.1	1262.5	1240.0	1227.2	1244.6	1253.1	1271.1
G29.0	1279.9	1270.8	1271.1	1257.4	1248.9	1225.4	1212.9	1230.2	1238.0	1257.7
G30.0	1266.6	1257.2	1257.7	1242.7	1234.7	1210.6	1197.9	1215.8	1223.7	1242.7
G31.0	1253.3	1243.2	1242.3	1228.5	1218.7	1193.9	1181.4	1199.0	1209.1	1228.6
G32.0	1238.2	1229.1	1228.7	1213.8	1203.9	1178.6	1165.4	1184.0	1194.2	1214.0
G33.0	1223.6	1214.6	1214.1	1198.8	1188.9	1162.7	1149.0	1168.5	1178.8	1199.5
G34.0	1209.3	1199.5	1197.7	1183.5	1171.9	1146.3	1132.6	1152.4	1161.4	1182.8
G35.0	1194.1	1182.6	1182.5	1166.3	1155.9	1127.9	1115.8	1134.6	1145.1	1167.4
G36.0	1178.3	1166.7	1166.9	1150.1	1139.9	1112.8	1099.0	1118.1	1128.9	1151.3

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 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	1161.1	1150.7	1150.9	1133.9	1123.4	1093.9	1079.9	1101.2	1112.3	1135.7
G38.0	1144.9	1134.1	1132.8	1117.2	1104.6	1076.5	1062.4	1083.8	1095.5	1117.3
G39.0	1128.4	1115.9	1116.1	1098.8	1087.5	1058.9	1044.4	1065.9	1076.1	1100.2
G40.0	1111.5	1098.9	1099.0	1081.1	1069.7	1038.9	1026.2	1046.2	1058.2	1083.1
G41.0	1092.6	1081.2	1081.6	1063.1	1051.7	1019.8	1005.7	1028.2	1040.8	1065.6
G42.0	1074.8	1063.4	1063.6	1045.1	1033.5	1001.2	987.0	1009.5	1020.8	1047.5
G43.0	1057.0	1045.4	1044.3	1026.6	1013.4	981.8	967.7	990.5	1002.5	1027.6
G44.0	1039.1	1025.1	1025.8	1006.2	994.3	962.5	946.3	969.5	983.3	1009.3
G45.0	1018.8	1005.9	1007.4	987.1	975.4	940.6	926.3	950.2	963.8	990.3
G46.0	1000.2	986.7	988.3	967.5	955.9	920.5	906.3	930.3	944.4	971.3
G47.0	981.0	967.8	967.0	947.8	934.3	900.2	885.8	908.2	922.4	950.1
G48.0	959.5	945.6	947.4	928.0	914.2	879.4	865.3	887.9	902.7	930.5
G49.0	939.9	926.0	927.8	905.9	894.0	858.9	842.0	867.4	882.1	910.7
G50.0	919.2	905.3	907.2	885.0	873.0	835.1	821.3	846.5	859.7	890.5
G51.0	899.1	885.1	884.6	864.7	850.0	814.2	799.6	825.4	838.8	867.7
G52.0	878.2	862.2	863.4	843.5	828.4	792.2	777.6	801.6	817.3	846.8
G53.0	857.0	840.8	842.4	822.1	806.9	770.2	753.9	779.7	796.6	825.6
G54.0	834.0	819.7	821.2	798.5	783.2	745.8	731.0	757.6	774.3	804.3
G55.0	812.4	797.7	797.6	776.1	761.0	722.6	709.2	735.1	750.7	782.4
G56.0	790.5	775.9	775.5	754.1	738.7	700.2	686.0	710.9	728.1	758.5
G57.0	766.9	751.6	753.8	729.7	716.3	677.7	660.5	688.2	705.1	736.3
G58.0	744.4	728.4	731.2	706.2	691.0	653.4	637.5	664.9	682.5	713.7
G59.0	722.4	705.9	707.0	683.6	668.4	627.6	613.6	639.9	657.0	689.2
G60.0	697.0	682.6	683.7	660.2	645.2	603.6	590.2	616.3	634.0	666.4
G61.0	673.8	659.2	660.5	636.6	621.8	579.6	564.0	592.5	610.2	643.1
G62.0	650.4	633.4	636.8	613.1	597.5	555.5	539.8	569.0	586.4	619.9
G63.0	627.1	609.9	610.8	587.0	571.3	528.8	515.2	542.5	560.0	593.7
G64.0	603.1	585.5	586.9	562.6	546.8	504.3	491.0	517.8	536.0	569.9
G65.0	576.8	561.7	562.9	538.4	522.3	479.4	464.5	493.7	512.1	545.8
G66.0	552.8	536.9	538.7	513.5	497.8	454.3	439.7	469.0	487.6	521.7
G67.0	528.7	509.9	512.2	486.4	470.8	429.6	415.2	441.6	460.7	494.8
G68.0	501.6	485.3	487.4	461.5	445.8	401.9	390.0	417.0	435.7	470.3
G69.0	476.9	460.3	462.6	436.2	421.1	376.5	362.6	392.2	410.5	445.7
G70.0	452.4	432.7	435.3	411.4	393.4	351.4	337.8	367.5	386.1	421.0
G71.0	427.4	407.8	410.1	386.0	368.2	326.3	313.5	340.4	358.6	393.8
G72.0	400.7	383.2	385.7	358.9	341.5	299.2	287.1	316.2	334.3	367.2
G73.0	375.0	357.2	359.7	332.7	315.5	275.8	263.9	290.2	308.3	343.4

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 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	349.4	331.5	331.3	307.1	289.9	248.6	239.2	265.3	283.0	317.7
G75.0	324.8	307.1	306.8	282.4	265.2	224.8	214.0	239.1	258.6	290.6
G76.0	298.8	280.9	280.7	256.2	239.6	201.6	190.0	214.2	233.4	264.6
G77.0	271.5	255.9	255.3	231.4	214.7	176.2	167.7	190.6	209.5	239.8
G78.0	248.1	230.6	229.7	208.2	189.9	154.5	144.6	166.7	184.5	214.1
G79.0	222.3	206.4	205.2	183.7	166.6	132.1	123.2	144.3	161.3	190.0
G80.0	198.2	181.9	180.7	159.0	141.5	110.3	102.1	122.2	137.9	165.8
G81.0	175.1	159.2	155.7	136.3	119.7	90.3	83.2	100.7	116.8	142.0
G82.0	151.4	136.7	133.4	114.0	99.0	71.2	65.4	81.6	94.7	118.7
G83.0	128.1	115.2	110.2	91.3	78.0	53.8	49.2	62.9	75.4	97.9
G84.0	107.7	95.1	88.5	71.8	59.2	37.7	34.0	46.2	58.0	77.4
G85.0	86.6	76.3	69.4	54.2	42.7	24.7	22.0	31.6	41.7	58.7
G86.0	68.0	57.9	50.9	37.7	27.8	13.6	11.5	19.1	28.2	41.3
G87.0	51.3	41.8	35.3	23.8	15.9	5.3	3.5	9.4	16.8	26.8
G88.0	35.8	28.3	22.6	13.1	7.4	0.0	0.0	2.1	7.9	15.1
G89.0	22.2	16.6	11.8	5.1	1.2	0.0	0.0	0.0	1.6	6.3
G90.0	0.7	0.7	0.5	0.6	16.0	13.7	10.9	19.7	17.2	0.9
G91.0	2.0	3.4	5.0	2.0	27.3	22.2	17.0	29.3	29.9	2.0
G92.0	5.6	10.6	16.1	3.2	38.7	31.2	23.3	39.6	42.2	3.1
G93.0	11.0	20.6	27.6	4.4	49.3	40.1	30.4	50.9	53.3	4.4
G94.0	17.3	31.4	39.2	5.8	57.9	50.1	38.2	63.1	61.8	5.8
G95.0	24.0	43.0	49.7	7.3	66.7	61.3	46.8	76.7	68.6	7.4
G96.0	31.1	54.9	57.6	9.0	75.4	74.3	57.1	91.6	74.7	9.0
G97.0	39.7	68.6	64.0	10.7	82.7	87.4	68.9	106.6	80.9	11.0
G98.0	49.3	83.8	69.8	12.7	90.4	102.3	81.2	122.0	87.2	13.0
G99.0	60.5	99.0	75.7	14.7	98.5	117.9	95.7	136.6	93.0	15.0
G100.0	73.0	115.2	81.9	16.7	106.4	131.9	110.6	150.7	98.9	17.2
G101.0	87.5	130.5	87.4	18.7	114.4	146.4	125.3	164.5	104.4	19.3
G102.0	102.5	144.6	93.0	21.0	122.1	162.0	139.6	177.8	109.6	21.7
G103.0	117.5	158.6	98.6	23.1	129.1	175.9	155.6	191.3	114.5	23.9
G104.0	134.4	171.9	103.7	25.4	136.8	190.7	171.8	203.6	118.8	26.3
G105.0	149.3	185.6	108.6	27.6	143.0	204.2	189.1	215.9	122.8	28.7
G106.0	165.1	198.9	112.8	30.0	149.4	216.4	205.6	227.2	126.3	31.3
G107.0	183.4	211.3	116.8	32.3	154.9	228.7	222.2	238.8	129.2	33.8
G108.0	199.7	223.4	120.4	34.8	159.7	241.1	238.4	250.7	131.5	36.2
G109.0	218.1	234.7	123.3	37.1	163.5	251.4	254.8	261.9	133.4	38.8
G110.0	235.2	246.0	126.2	39.7	166.6	261.4	269.2	273.6	135.0	41.4

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	251.6	258.8	128.4	42.2	169.5	272.1	284.8	286.5	136.0	44.2
G112.0	268.0	270.3	130.2	44.7	171.1	286.2	298.8	298.1	136.7	46.8
G113.0	285.3	281.6	131.7	47.5	172.0	301.1	312.3	309.2	137.1	49.5
G114.0	300.4	293.6	133.0	50.1	172.5	313.2	325.7	319.4	137.3	52.1
G115.0	315.2	303.7	134.1	52.7	172.5	325.0	339.8	329.3	137.3	55.1
G116.0	329.0	313.2	134.9	55.3	171.9	333.8	351.7	336.5	137.3	57.7
G117.0	342.4	321.3	135.6	58.3	171.3	342.1	362.6	342.4	137.1	60.5
G118.0	355.4	328.6	136.3	61.0	170.5	347.8	372.3	346.8	137.1	63.2
G119.0	365.8	333.8	136.9	63.7	169.7	352.0	380.9	348.9	137.0	66.3
G120.0	374.6	337.3	137.6	66.5	168.6	354.5	386.9	349.6	137.1	69.0
G121.0	382.2	339.5	138.2	69.5	167.9	355.5	391.3	348.9	137.4	71.8
G122.0	387.0	340.3	139.0	72.2	167.4	355.0	394.2	346.7	137.8	74.5
G123.0	390.9	339.8	139.7	75.0	167.3	353.4	395.1	343.9	138.2	77.3
G124.0	392.7	338.4	140.6	78.0	167.0	351.0	394.7	340.3	138.9	80.3
G125.0	393.1	335.8	141.5	80.7	166.7	347.9	393.2	336.2	139.7	83.1
G126.0	392.2	333.0	142.5	83.4	166.5	345.1	390.6	331.9	140.5	85.8
G127.0	390.1	329.7	143.6	86.3	166.4	341.4	387.1	327.0	141.4	88.5
G128.0	387.3	325.8	144.8	89.1	166.5	337.1	383.4	322.5	142.4	91.3
G129.0	384.0	321.9	146.0	91.8	166.6	332.9	379.1	317.9	143.4	94.0
G130.0	379.8	317.4	147.2	94.5	166.9	328.5	374.6	313.2	144.7	96.7
G131.0	375.7	313.2	148.5	97.3	167.2	324.0	369.5	308.2	145.9	99.5
G132.0	371.4	309.1	149.7	99.9	167.6	319.6	364.6	303.8	147.1	102.1
G133.0	366.8	305.0	151.2	102.8	168.0	314.8	359.5	299.6	148.4	104.7
G134.0	362.0	300.5	152.6	105.5	168.6	310.5	354.4	295.2	149.8	107.3
G135.0	357.1	296.5	153.8	108.2	169.2	306.3	348.7	290.8	151.1	109.9
G136.0	351.6	292.7	155.2	110.8	169.8	302.0	343.6	286.8	152.5	112.7
G137.0	346.6	288.7	156.6	113.6	170.5	297.7	338.4	282.8	154.0	115.2
G138.0	341.3	285.0	157.9	116.2	171.1	293.6	332.8	279.0	155.3	117.7
G139.0	336.3	281.7	159.2	118.8	171.9	289.5	327.8	275.3	156.6	120.2
G140.0	330.5	278.0	160.5	121.6	172.6	285.3	322.7	271.4	158.0	122.8
G141.0	325.5	275.0	161.8	124.2	173.3	281.3	317.7	267.7	159.5	125.3
G142.0	320.5	271.9	163.1	126.8	174.1	277.4	312.6	264.2	160.9	127.7
G143.0	315.5	268.5	164.3	129.3	174.7	273.6	307.2	260.3	162.1	130.1
G144.0	310.9	265.4	165.5	131.8	175.5	269.8	302.3	256.8	163.3	132.8
G145.0	305.8	262.4	166.7	134.5	176.2	265.7	297.4	253.5	164.5	135.2
G146.0	301.2	259.1	168.0	137.0	176.9	262.0	292.5	250.1	165.8	137.6
G147.0	296.8	256.0	169.2	139.4	177.5	258.3	287.2	246.8	166.9	140.0

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	292.2	253.0	170.3	141.7	178.0	254.8	282.3	243.4	168.0	142.3
G149.0	288.1	250.0	171.4	144.3	178.6	250.9	277.6	240.2	169.1	144.6
G150.0	283.2	246.5	172.4	146.6	179.1	247.3	272.7	237.3	170.2	147.1
G151.0	278.8	243.5	173.6	148.9	179.6	243.8	267.4	234.4	171.2	149.3
G152.0	274.3	240.2	174.6	151.3	180.1	240.1	262.7	231.5	172.1	151.5
G153.0	269.7	237.0	175.6	153.5	180.5	236.9	258.0	228.5	173.0	153.7
G154.0	265.2	233.5	176.6	155.6	180.9	233.6	253.3	225.7	173.9	155.8
G155.0	260.1	230.3	177.5	157.6	181.3	230.4	248.8	223.0	174.8	157.8
G156.0	255.5	227.2	178.3	159.6	181.5	227.3	244.4	220.3	175.5	159.8
G157.0	250.7	224.1	179.1	161.5	181.8	224.1	239.6	217.5	176.2	161.9
G158.0	245.9	221.1	179.8	163.5	182.0	221.1	235.5	215.1	176.9	163.7
G159.0	240.6	217.8	180.5	165.3	182.2	218.2	231.5	212.6	177.4	165.5
G160.0	235.8	215.0	181.2	167.0	182.4	215.4	227.1	210.3	178.1	167.3
G161.0	231.3	212.1	181.8	168.8	182.5	212.3	223.3	208.0	178.6	168.9
G162.0	226.9	209.4	182.5	170.4	182.6	209.7	219.6	205.5	179.1	170.5
G163.0	222.6	207.0	182.9	171.9	182.7	207.1	216.1	203.3	179.6	172.1
G164.0	218.5	204.6	183.5	173.4	182.8	204.5	212.6	201.2	180.0	173.6
G165.0	214.3	202.5	183.9	174.9	182.9	201.8	209.0	199.2	180.5	174.9
G166.0	210.7	200.2	184.3	176.1	183.0	199.5	205.7	197.1	181.0	176.3
G167.0	207.5	198.5	184.6	177.4	183.0	197.4	202.7	195.2	181.3	177.6
G168.0	204.5	196.7	184.9	178.5	183.2	195.4	199.9	193.5	181.7	178.7
G169.0	201.5	195.1	185.1	179.5	183.2	193.3	197.3	191.9	182.0	179.7
G170.0	199.0	193.7	185.3	180.4	183.3	191.6	194.7	190.4	182.3	180.7
G171.0	196.7	192.5	185.5	181.4	183.4	190.1	192.5	189.1	182.7	181.5
G172.0	194.6	191.2	185.6	182.1	183.5	188.8	190.6	187.9	183.0	182.3
G173.0	192.9	190.1	185.7	182.8	183.6	187.5	189.0	186.9	183.4	183.0
G174.0	191.1	189.1	185.7	183.4	183.7	186.6	187.4	186.1	183.6	183.6
G175.0	189.7	188.1	185.6	183.9	183.9	185.7	186.4	185.5	184.0	184.0
G176.0	188.5	187.3	185.7	184.4	184.1	185.2	185.6	185.0	184.3	184.5
G177.0	187.4	186.6	185.6	184.7	184.4	184.8	185.0	184.7	184.7	184.8
G178.0	186.3	185.9	185.5	185.0	184.8	184.7	184.8	184.8	185.0	185.0
G179.0	185.6	185.4	185.3	185.1	185.0	185.0	185.1	185.1	185.1	185.2
G180.0	185.2	185.2	185.2	185.2	185.1	185.1	185.2	185.2	185.2	185.2

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	1466.3	1465.5	1464.6							
G1.0	1466.2	1466.2	1465.9							
G2.0	1465.7	1466.6	1466.7							
G3.0	1465.1	1465.9	1466.5							
G4.0	1463.2	1465.2	1466.2							
G5.0	1460.9	1463.6	1465.0							
G6.0	1458.4	1461.5	1463.1							
G7.0	1455.0	1458.6	1460.4							
G8.0	1451.4	1455.3	1457.6							
G9.0	1447.4	1452.2	1454.4							
G10.0	1442.6	1447.5	1450.1							
G11.0	1437.5	1442.9	1445.6							
G12.0	1431.4	1437.8	1440.1							
G13.0	1424.9	1431.9	1434.5							
G14.0	1418.2	1426.1	1428.4							
G15.0	1411.1	1418.8	1422.1							
G16.0	1402.6	1411.4	1414.7							
G17.0	1394.9	1403.7	1407.0							
G18.0	1386.1	1395.7	1399.7							
G19.0	1376.5	1387.6	1391.1							
G20.0	1367.9	1378.5	1382.3							
G21.0	1356.9	1368.4	1372.1							
G22.0	1346.6	1358.3	1362.6							
G23.0	1335.9	1347.9	1352.1							
G24.0	1324.7	1336.1	1340.5							
G25.0	1311.7	1324.9	1329.3							
G26.0	1300.0	1313.2	1318.0							
G27.0	1287.4	1301.3	1306.2							
G28.0	1275.0	1288.9	1293.5							
G29.0	1260.8	1275.8	1279.9							
G30.0	1246.6	1261.2	1266.6							
G31.0	1233.1	1247.4	1253.3							
G32.0	1218.6	1233.6	1238.2							
G33.0	1203.4	1219.3	1223.6							
G34.0	1187.0	1202.6	1209.3							
G35.0	1171.2	1187.4	1194.1							
G36.0	1155.5	1172.0	1178.3							

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	1139.4	1156.3	1161.1							
G38.0	1122.8	1138.7	1144.9							
G39.0	1104.4	1121.8	1128.4							
G40.0	1087.0	1104.4	1111.5							
G41.0	1069.9	1087.6	1092.6							
G42.0	1052.4	1070.1	1074.8							
G43.0	1032.6	1050.5	1057.0							
G44.0	1013.8	1032.3	1039.1							
G45.0	994.9	1013.9	1018.8							
G46.0	975.8	993.2	1000.2							
G47.0	954.7	974.3	981.0							
G48.0	935.5	954.7	959.5							
G49.0	915.1	935.2	939.9							
G50.0	893.1	912.9	919.2							
G51.0	872.1	892.7	899.1							
G52.0	850.9	872.0	878.2							
G53.0	830.5	850.9	857.0							
G54.0	808.9	827.7	834.0							
G55.0	785.7	805.7	812.4							
G56.0	763.8	784.7	790.5							
G57.0	741.5	762.7	766.9							
G58.0	719.3	740.4	744.4							
G59.0	694.0	715.9	722.4							
G60.0	671.3	693.3	697.0							
G61.0	648.1	670.1	673.8							
G62.0	624.6	644.9	650.4							
G63.0	598.8	621.7	627.1							
G64.0	575.2	597.8	603.1							
G65.0	551.5	573.7	576.8							
G66.0	527.0	547.4	552.8							
G67.0	500.5	522.9	528.7							
G68.0	475.7	498.4	501.6							
G69.0	450.8	474.2	476.9							
G70.0	426.4	447.2	452.4							
G71.0	398.9	422.5	427.4							
G72.0	374.6	396.0	400.7							
G73.0	348.4	370.1	375.0							

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	322.7	344.7	349.4							
G75.0	298.2	320.2	324.8							
G76.0	272.3	294.3	298.8							
G77.0	247.6	269.5	271.5							
G78.0	221.8	243.8	248.1							
G79.0	197.6	219.6	222.3							
G80.0	173.2	195.1	198.2							
G81.0	150.5	170.8	175.1							
G82.0	126.8	147.1	151.4							
G83.0	105.2	125.8	128.1							
G84.0	85.4	104.3	107.7							
G85.0	66.5	83.6	86.6							
G86.0	49.8	65.2	68.0							
G87.0	35.1	48.7	51.3							
G88.0	22.7	33.5	35.8							
G89.0	12.4	21.0	22.2							
G90.0	1.1	1.2	0.7							
G91.0	8.6	4.1	2.0							
G92.0	22.1	10.7	5.6							
G93.0	36.9	19.6	11.0							
G94.0	51.5	29.1	17.3							
G95.0	65.3	39.6	24.0							
G96.0	77.9	50.3	31.1							
G97.0	88.2	63.4	39.7							
G98.0	96.4	77.5	49.3							
G99.0	105.0	92.7	60.5							
G100.0	113.2	109.8	73.0							
G101.0	121.8	125.3	87.5							
G102.0	130.9	142.7	102.5							
G103.0	139.5	157.2	117.5							
G104.0	147.5	172.0	134.4							
G105.0	155.3	187.3	149.3							
G106.0	162.2	203.0	165.1							
G107.0	168.6	217.3	183.4							
G108.0	174.2	230.3	199.7							
G109.0	179.1	244.2	218.1							
G110.0	182.7	256.8	235.2							

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	185.6	269.0	251.6							
G112.0	187.8	282.4	268.0							
G113.0	189.1	294.3	285.3							
G114.0	189.7	305.7	300.4							
G115.0	189.8	316.8	315.2							
G116.0	189.3	327.7	329.0							
G117.0	188.6	336.8	342.4							
G118.0	187.6	344.6	355.4							
G119.0	186.4	350.8	365.8							
G120.0	185.1	356.0	374.6							
G121.0	183.9	359.1	382.2							
G122.0	182.7	360.5	387.0							
G123.0	181.6	360.9	390.9							
G124.0	180.7	359.7	392.7							
G125.0	179.9	357.6	393.1							
G126.0	179.2	354.7	392.2							
G127.0	178.7	351.3	390.1							
G128.0	178.4	347.1	387.3							
G129.0	178.1	342.8	384.0							
G130.0	177.9	338.3	379.8							
G131.0	177.9	333.7	375.7							
G132.0	177.9	328.7	371.4							
G133.0	178.0	324.0	366.8							
G134.0	178.1	319.3	362.0							
G135.0	178.4	314.8	357.1							
G136.0	178.6	310.2	351.6							
G137.0	178.9	305.4	346.6							
G138.0	179.2	301.1	341.3							
G139.0	179.4	297.0	336.3							
G140.0	179.8	292.7	330.5							
G141.0	180.0	288.7	325.5							
G142.0	180.4	285.0	320.5							
G143.0	180.7	281.4	315.5							
G144.0	181.0	277.4	310.9							
G145.0	181.3	273.9	305.8							
G146.0	181.6	270.4	301.2							
G147.0	181.9	266.7	296.8							

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	182.3	263.3	292.2							
G149.0	182.6	259.7	288.1							
G150.0	183.0	255.9	283.2							
G151.0	183.4	252.3	278.8							
G152.0	183.7	248.8	274.3							
G153.0	184.1	244.9	269.7							
G154.0	184.5	241.3	265.2							
G155.0	184.8	237.7	260.1							
G156.0	185.0	233.9	255.5							
G157.0	185.3	230.4	250.7							
G158.0	185.5	226.8	245.9							
G159.0	185.8	223.3	240.6							
G160.0	186.0	219.7	235.8							
G161.0	186.1	216.5	231.3							
G162.0	186.3	213.4	226.9							
G163.0	186.4	210.2	222.6							
G164.0	186.6	207.4	218.5							
G165.0	186.7	204.9	214.3							
G166.0	186.8	202.5	210.7							
G167.0	186.8	200.2	207.5							
G168.0	186.9	198.2	204.5							
G169.0	186.9	196.4	201.5							
G170.0	186.8	194.7	199.0							
G171.0	186.7	193.2	196.7							
G172.0	186.6	191.9	194.6							
G173.0	186.4	190.6	192.9							
G174.0	186.3	189.4	191.1							
G175.0	186.1	188.4	189.7							
G176.0	185.8	187.4	188.5							
G177.0	185.6	186.5	187.4							
G178.0	185.4	185.9	186.3							
G179.0	185.3	185.3	185.6							
G180.0	185.1	185.1	185.2							

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	16295.63
L 0-180(75) av	13768.79
L 0-180(85) av	8243.32
L 90-270(65) av	16966.85
L 90-270(75) av	14643.67
L 90-270(85) av	8573.27
L 45(65) av	16656.03
L 45(75) av	14182.00
L 45(85) av	8278.63

Standard: GB/T 29293-2012