

Report No.:

Test Time: 2024/10/31 20:02

Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: MALL014F40W27V40K(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: 0.336 A

Power: 40.19 W

Power Factor: 0.995

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 5415.4 lm

Downward Ratio: 75%

Total Rated Lamp Lumens: 5415.4 lm

Efficiency: 100%

Upward Ratio: 25%

Horizontal Diffuse Angle(10%,50%,75%,100%): H160.2,H112.5,H76.5,H1

Vertical Diffuse Angle(10%,50%,75%,100%): V161.3,V114.1,V78.1,V2

Luminaire Efficacy Rating (LER): 134.80

C0r0 Intensity: 1422.17 cd

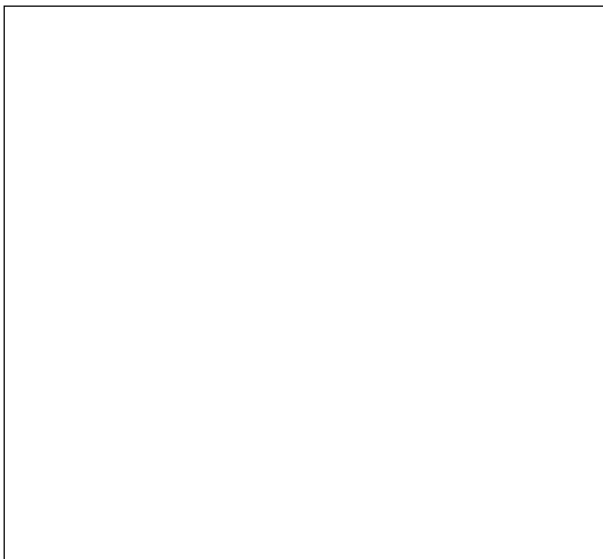
Max. Intensity: 1422.77 cd

Pos of Max. Intensity: H0 V1

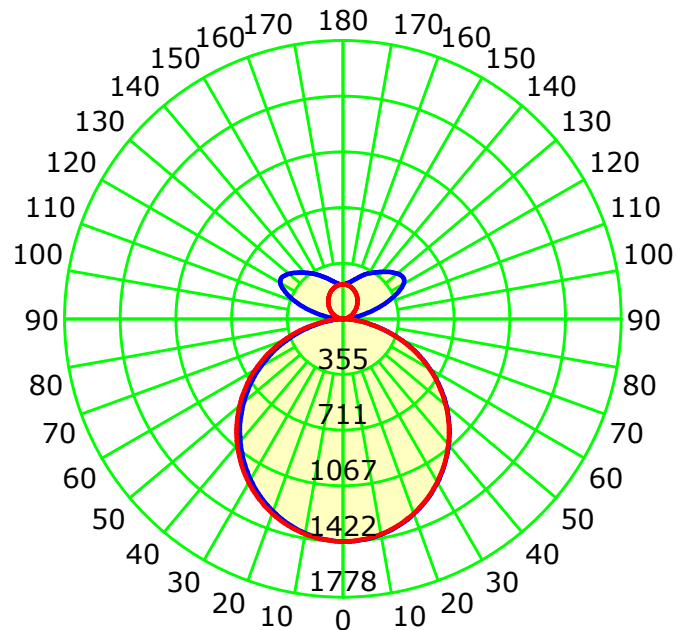
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 113.3°

C Plane (°):0.0-360.0: 30.0

Test Lab: MESTER LAB

Test Type: TYPE C

Temperature: 25.5°C

Operator: Yanzhao Sun

Gamma Plane (°):0.0-180.0:1.0

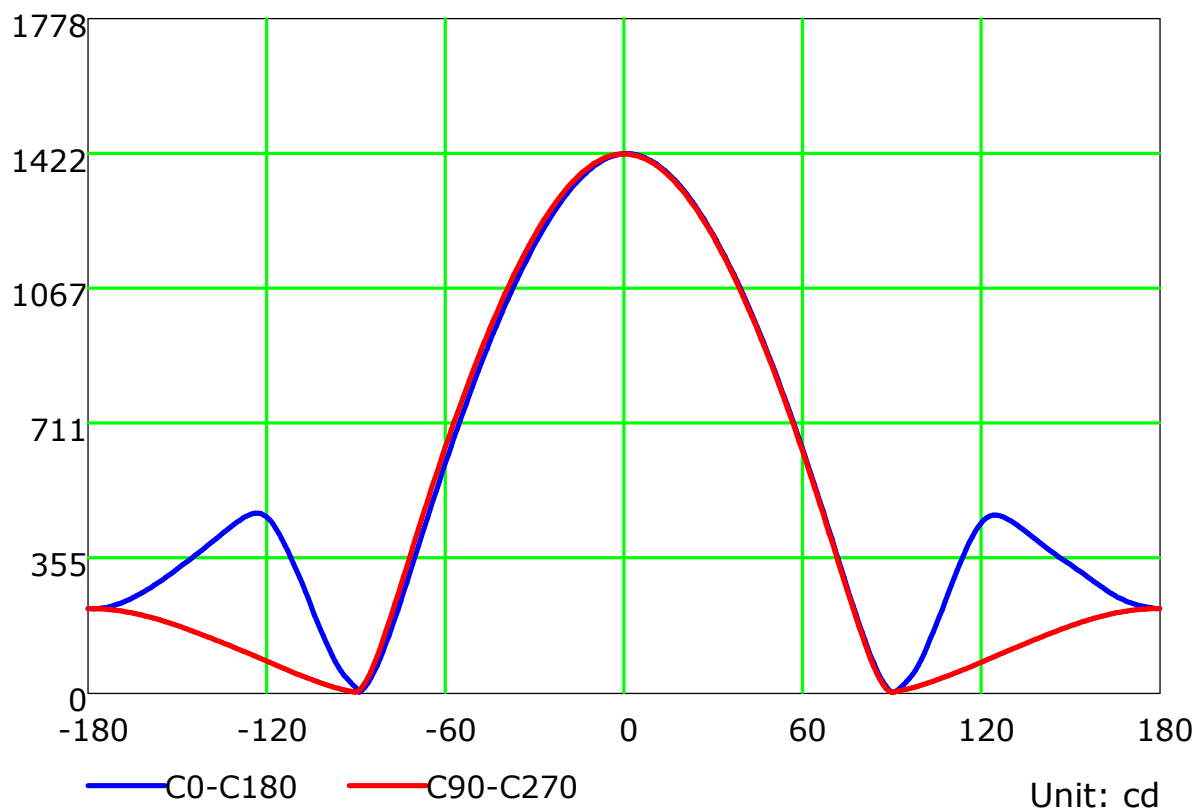
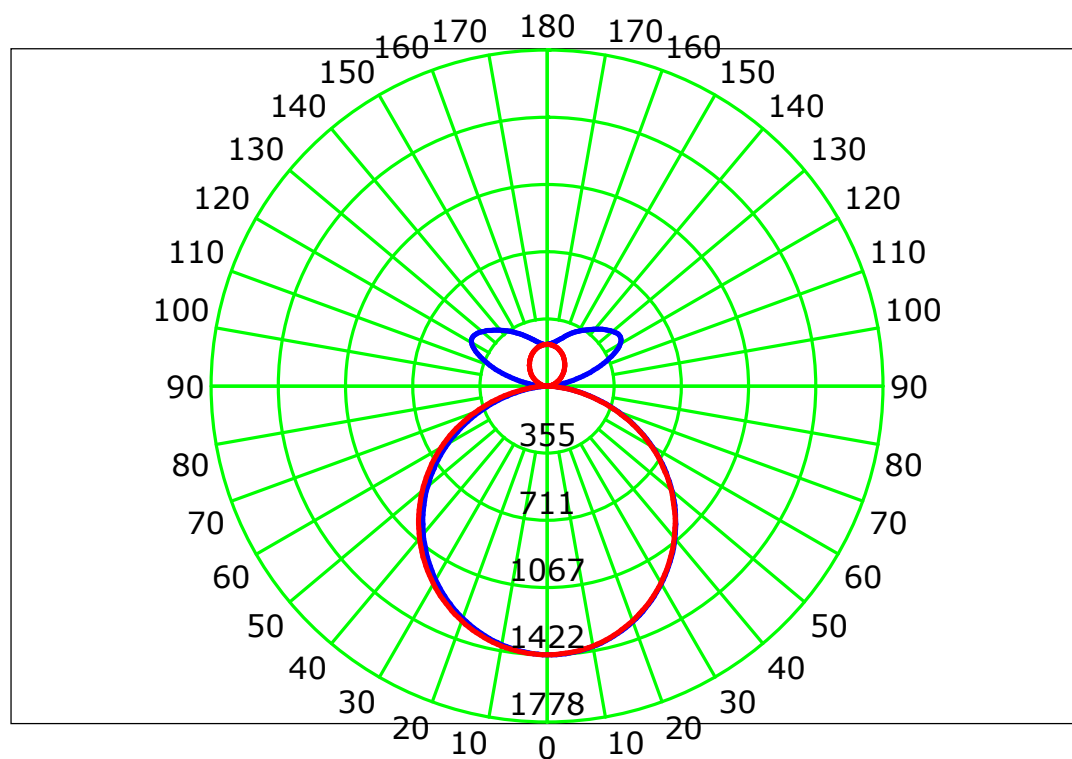
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0900]

Humidity: 45% R.H

Inspector:

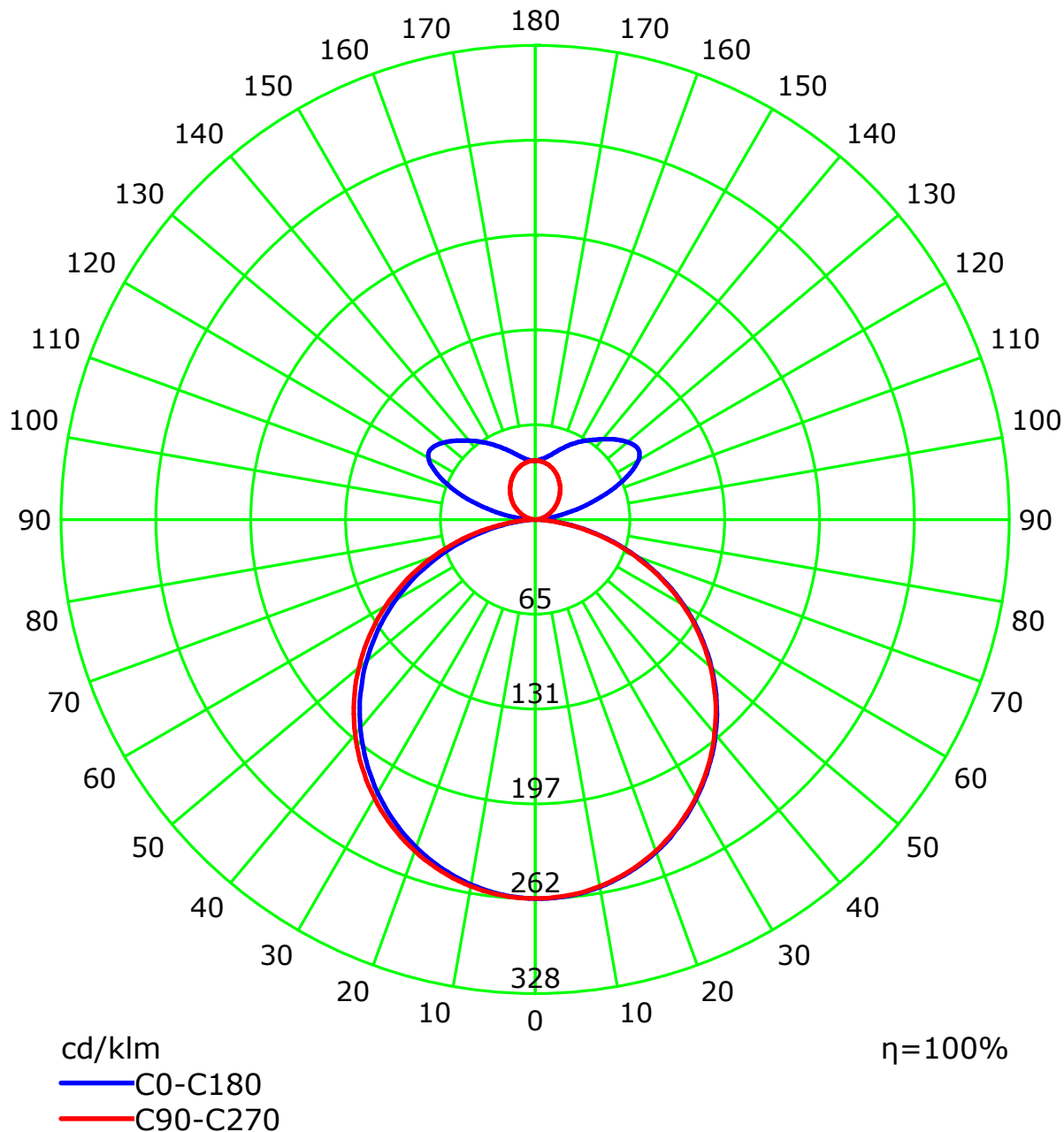
Luminous Intensity Distribution Curve



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)



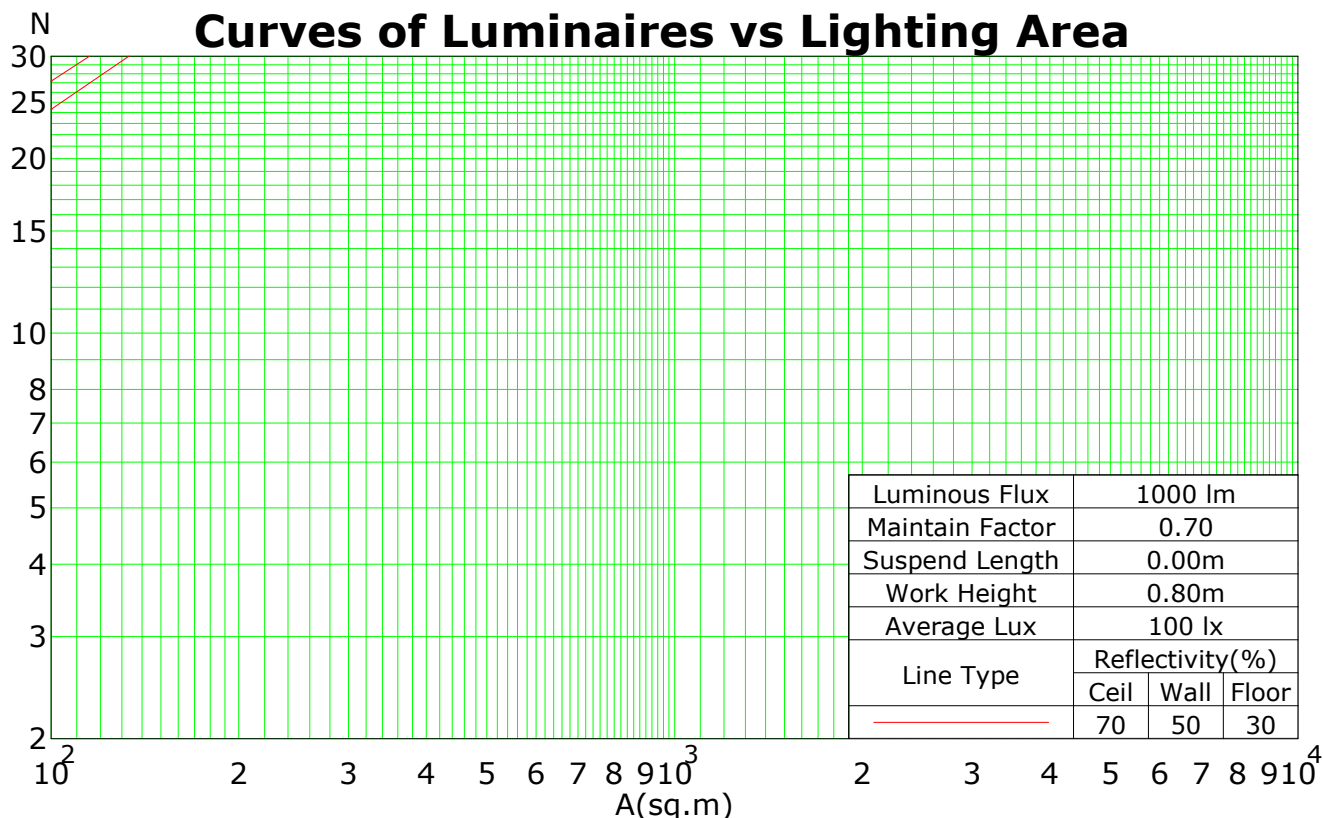
Coefficients Of Utilization - Zonal Cavity Method

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	1.13	1.13	1.13	1.13	1.08	1.08	1.08	1.08	0.97	0.97	0.97	0.88	0.88	0.88	0.79	0.79	0.79	0.75
1	1.03	0.99	0.95	0.91	0.98	0.94	0.90	0.87	0.85	0.82	0.80	0.77	0.75	0.73	0.70	0.68	0.67	0.63
2	0.94	0.86	0.79	0.74	0.89	0.82	0.76	0.71	0.74	0.70	0.66	0.67	0.64	0.61	0.61	0.58	0.56	0.52
3	0.85	0.75	0.68	0.61	0.81	0.72	0.65	0.59	0.65	0.60	0.55	0.59	0.55	0.51	0.54	0.50	0.47	0.44
4	0.78	0.67	0.58	0.52	0.74	0.64	0.56	0.50	0.58	0.52	0.47	0.53	0.48	0.43	0.48	0.44	0.40	0.37
5	0.72	0.59	0.51	0.44	0.68	0.57	0.49	0.43	0.52	0.45	0.40	0.47	0.42	0.38	0.43	0.39	0.35	0.32
6	0.66	0.53	0.45	0.38	0.63	0.51	0.43	0.37	0.47	0.40	0.35	0.43	0.37	0.33	0.39	0.34	0.31	0.28
7	0.61	0.48	0.40	0.34	0.58	0.46	0.38	0.33	0.42	0.36	0.31	0.39	0.33	0.29	0.36	0.31	0.27	0.25
8	0.57	0.44	0.36	0.30	0.54	0.42	0.34	0.29	0.39	0.32	0.27	0.36	0.30	0.26	0.33	0.28	0.24	0.22
9	0.53	0.40	0.32	0.27	0.50	0.38	0.31	0.26	0.36	0.29	0.25	0.33	0.27	0.23	0.30	0.25	0.22	0.20
10	0.50	0.37	0.29	0.24	0.47	0.35	0.28	0.23	0.33	0.27	0.22	0.30	0.25	0.21	0.28	0.23	0.20	0.18

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.26

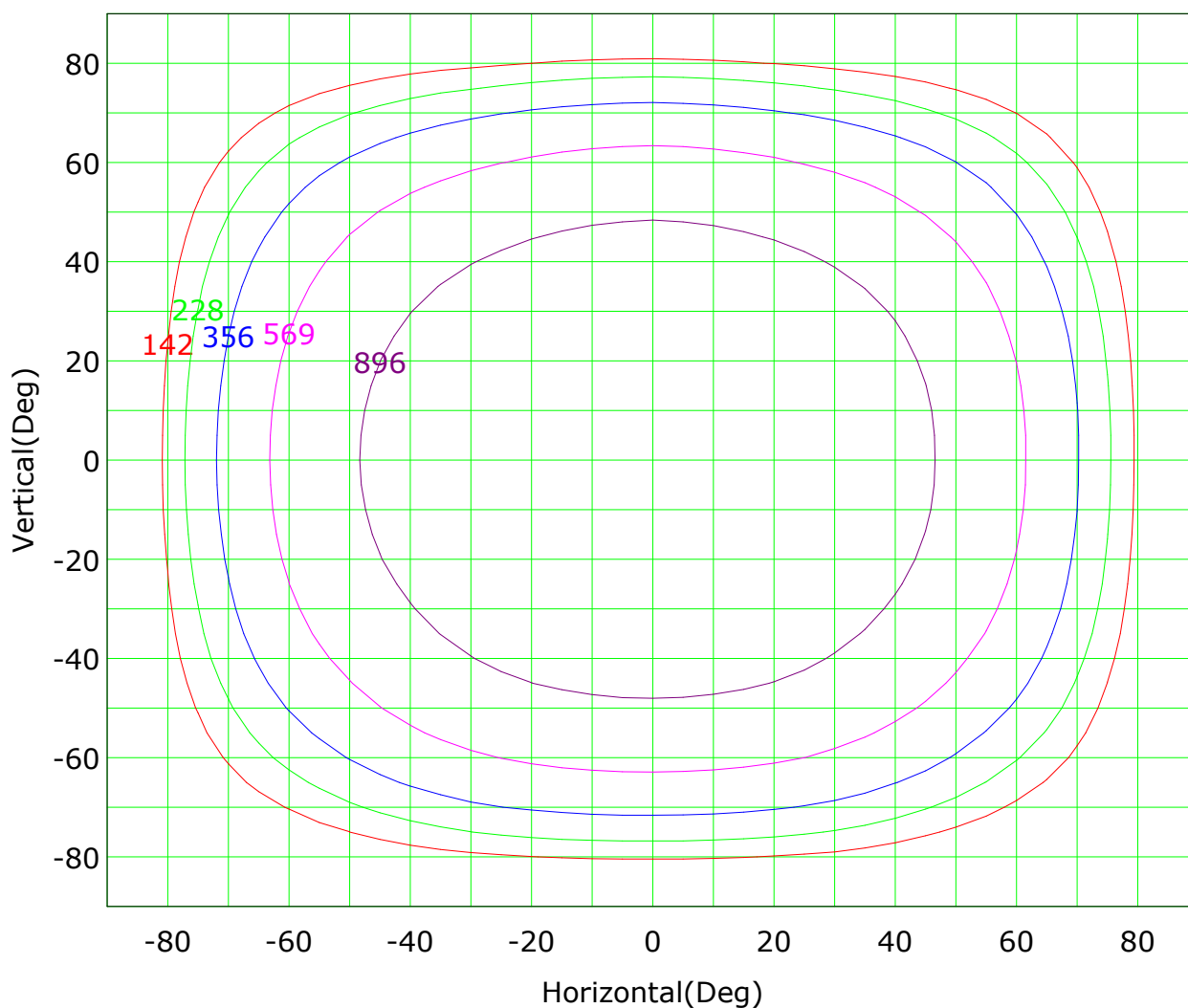
Spacing Criteria (Diagonal): 1.38



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)



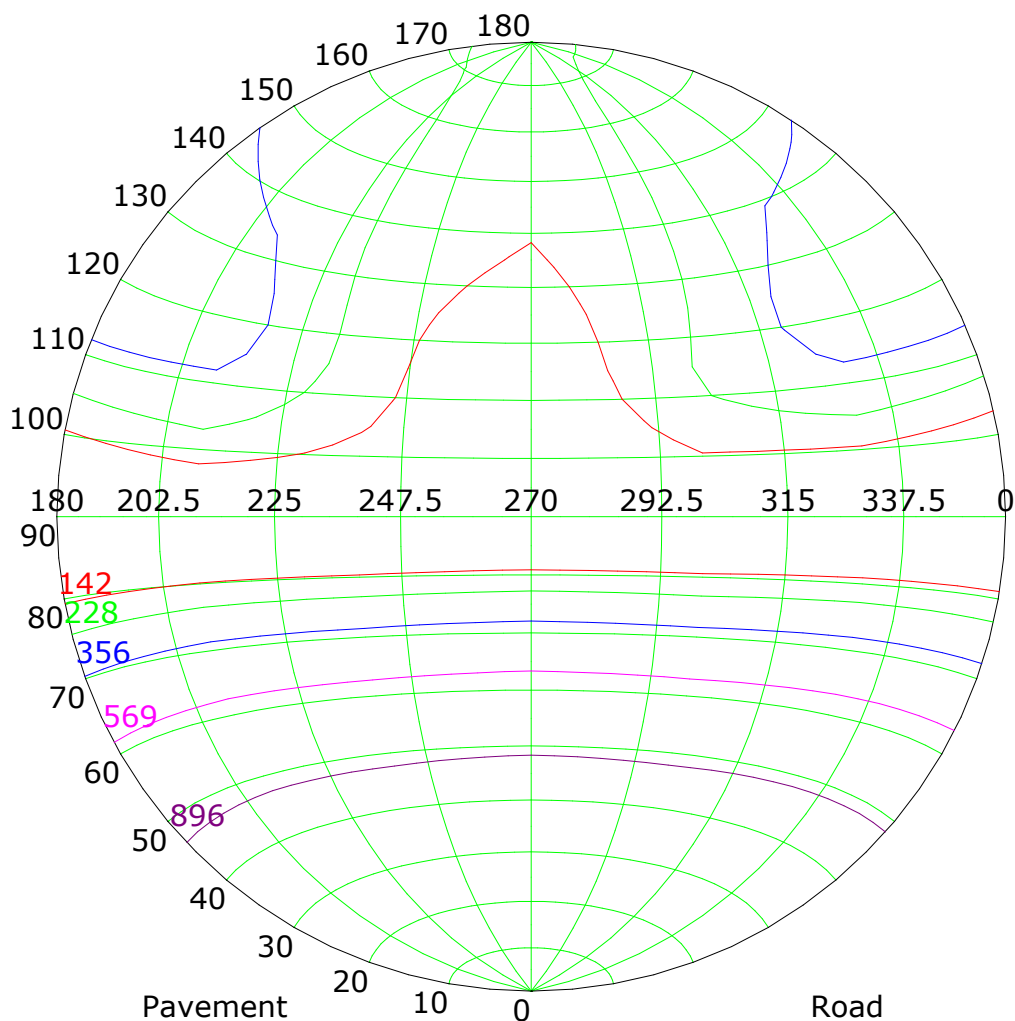
Imax (100%): 1423 cd

(10%): 142 cd	(16%): 228 cd
(25%): 356 cd	(40%): 569 cd
(63%): 896 cd	(100%): 1423 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:

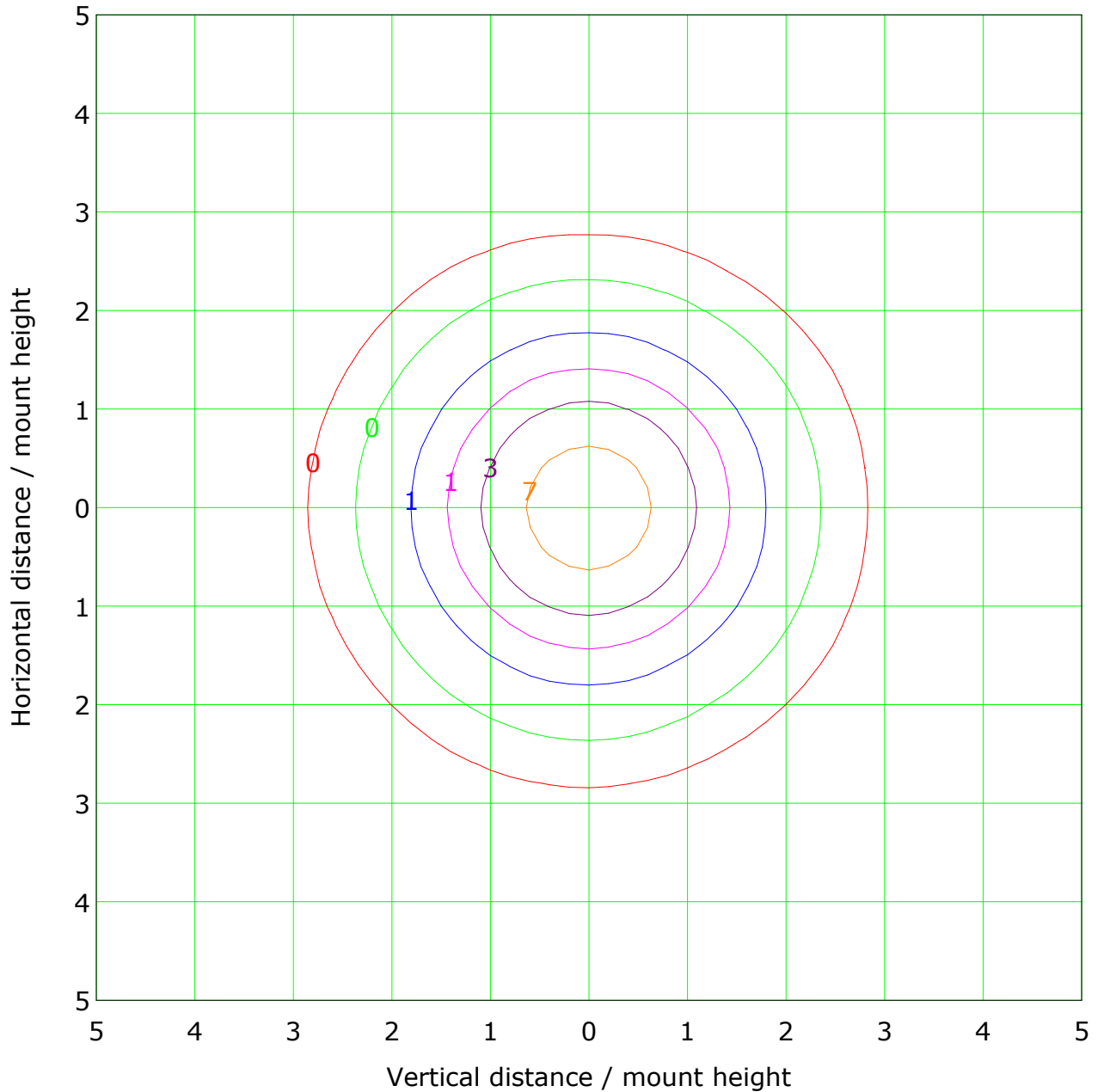
Isocandela (sphere)



Imax (100%): 1423 cd

(10%): 142 cd	(16%): 228 cd
(25%): 356 cd	(40%): 569 cd
(63%): 896 cd	(100%): 1423 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 14.2 lx

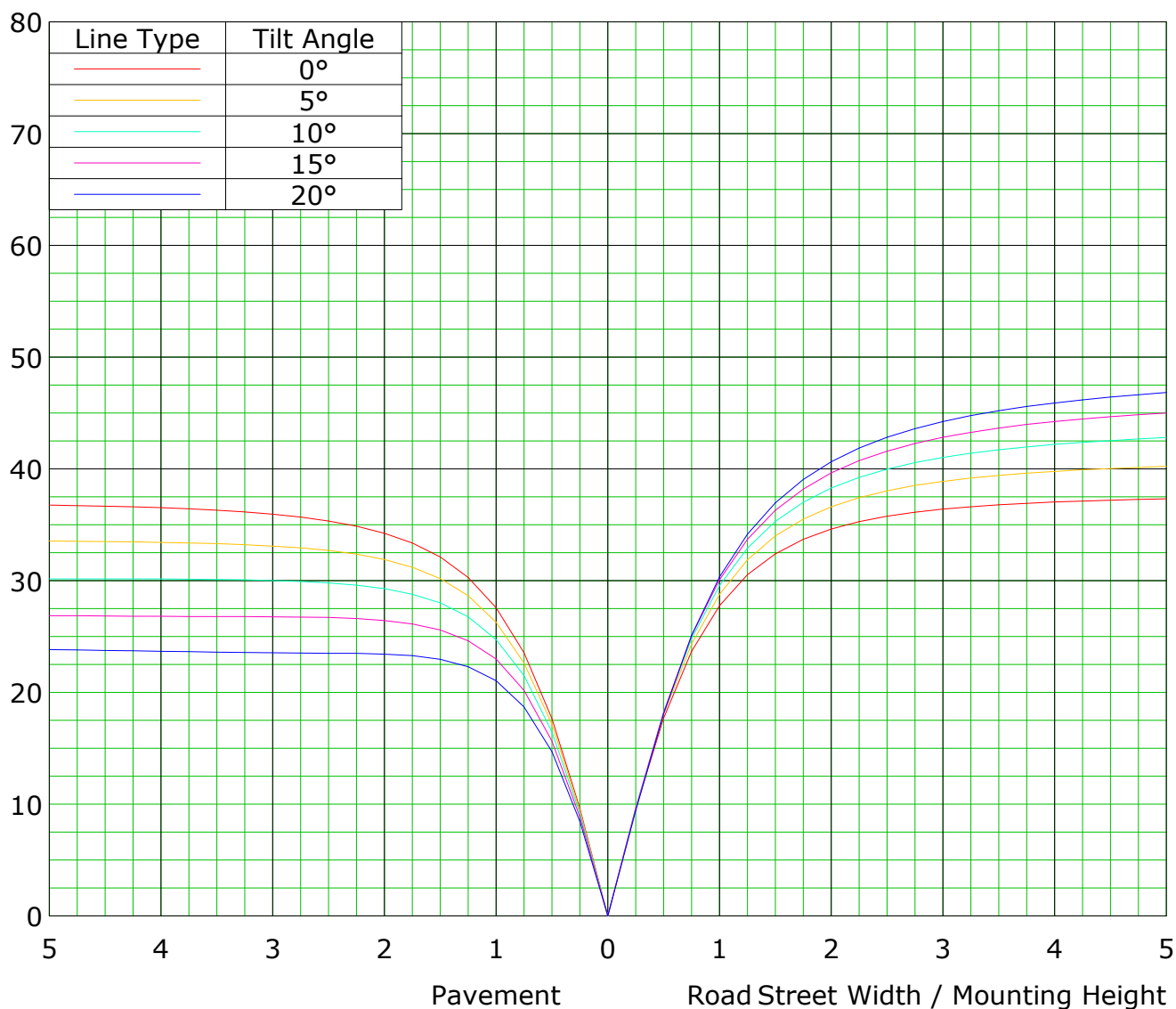
(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.4 lx
(20%): 2.8 lx	(50%): 7.1 lx
(100%): 14.2 lx	

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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(%)



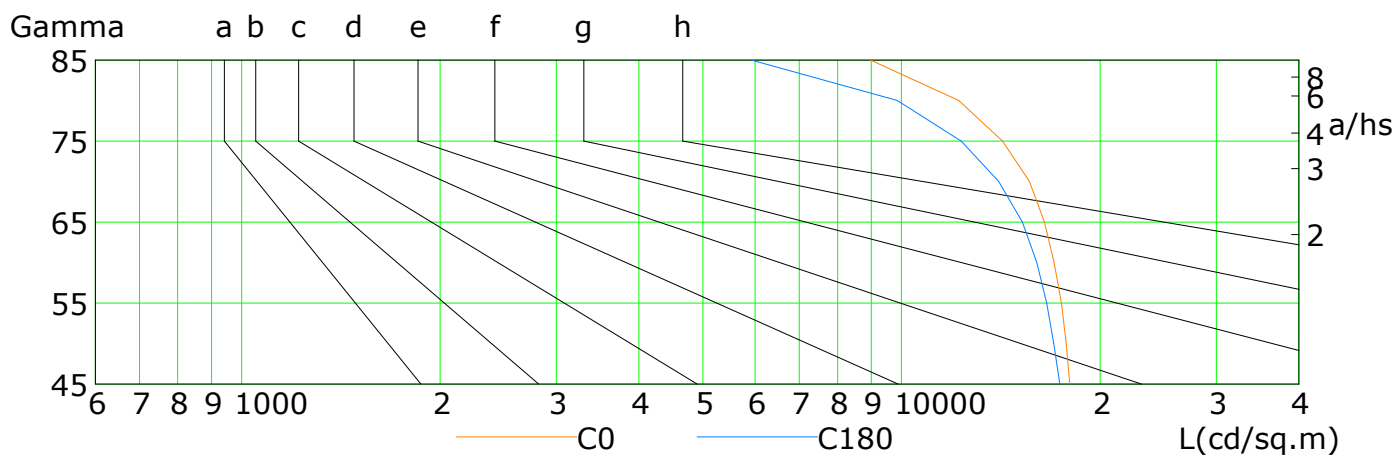
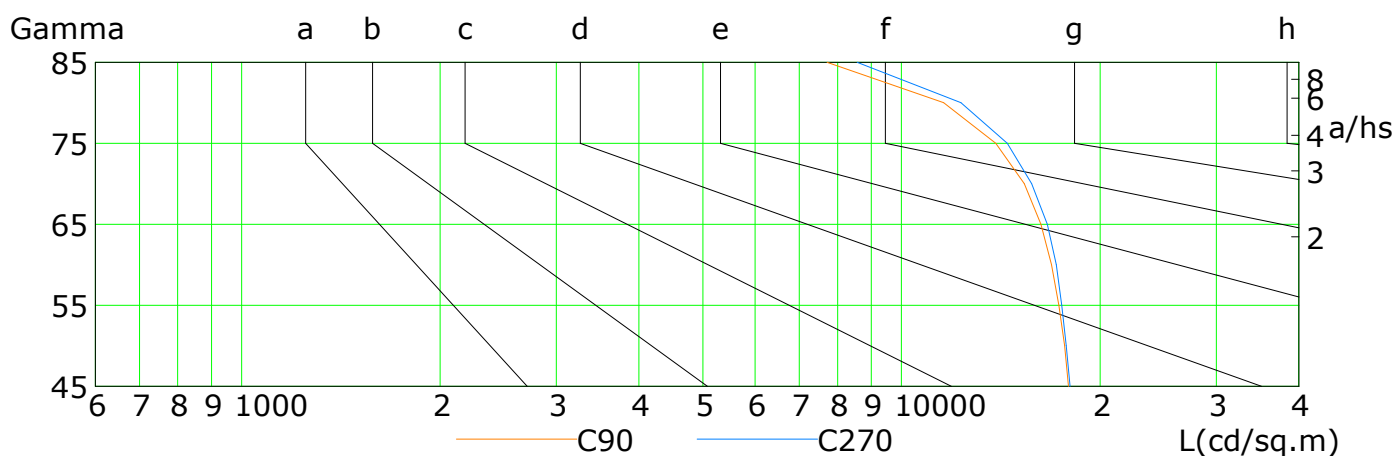
C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

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

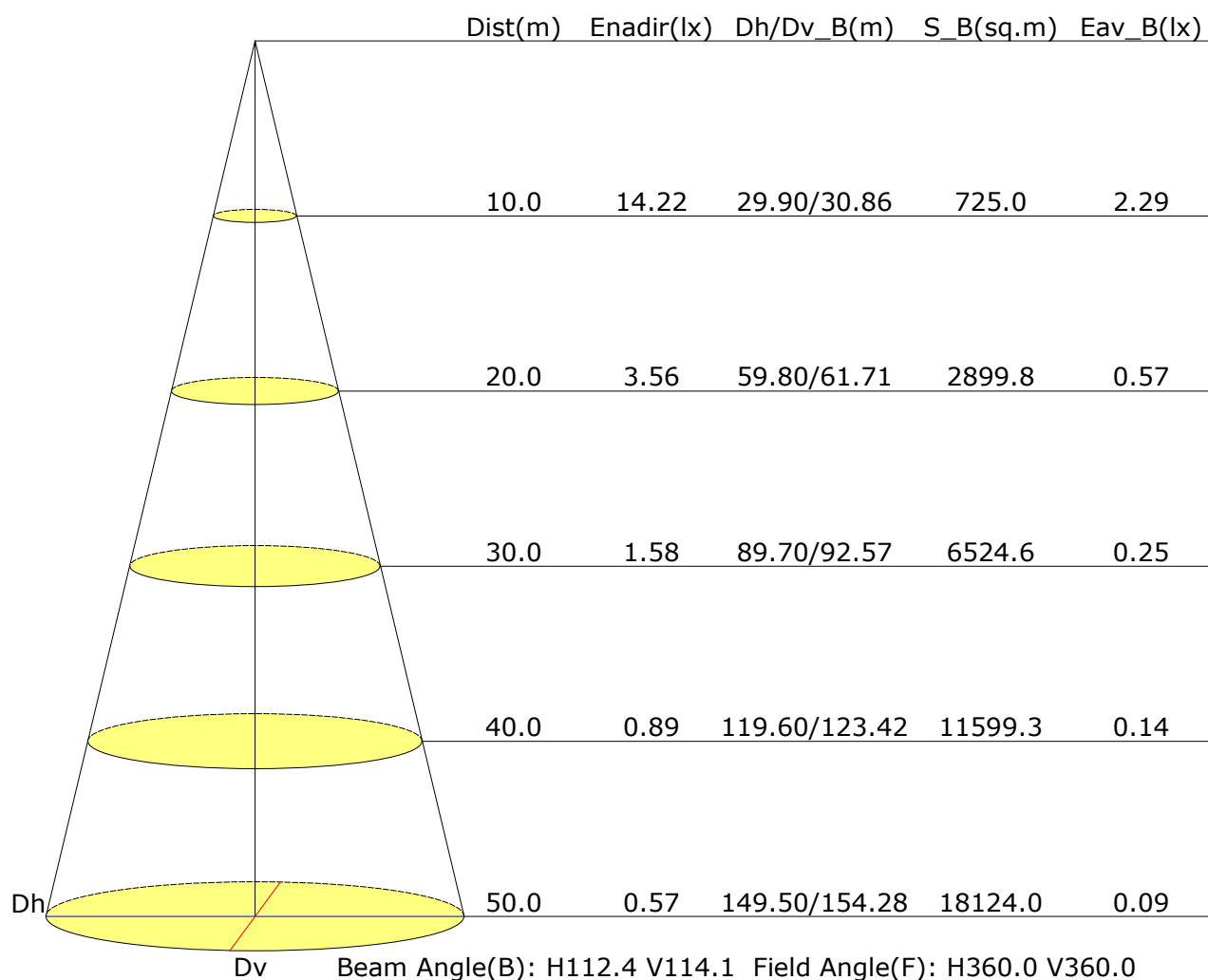


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	17993	17768	17480	17035	16462	15635	14227	12210	8984
C90	17901	17662	17309	16879	16272	15343	13890	11588	7717
C180	17372	17015	16600	16037	15254	14031	12320	9848	5926
C270	18002	17768	17495	17155	16633	15754	14463	12298	8569

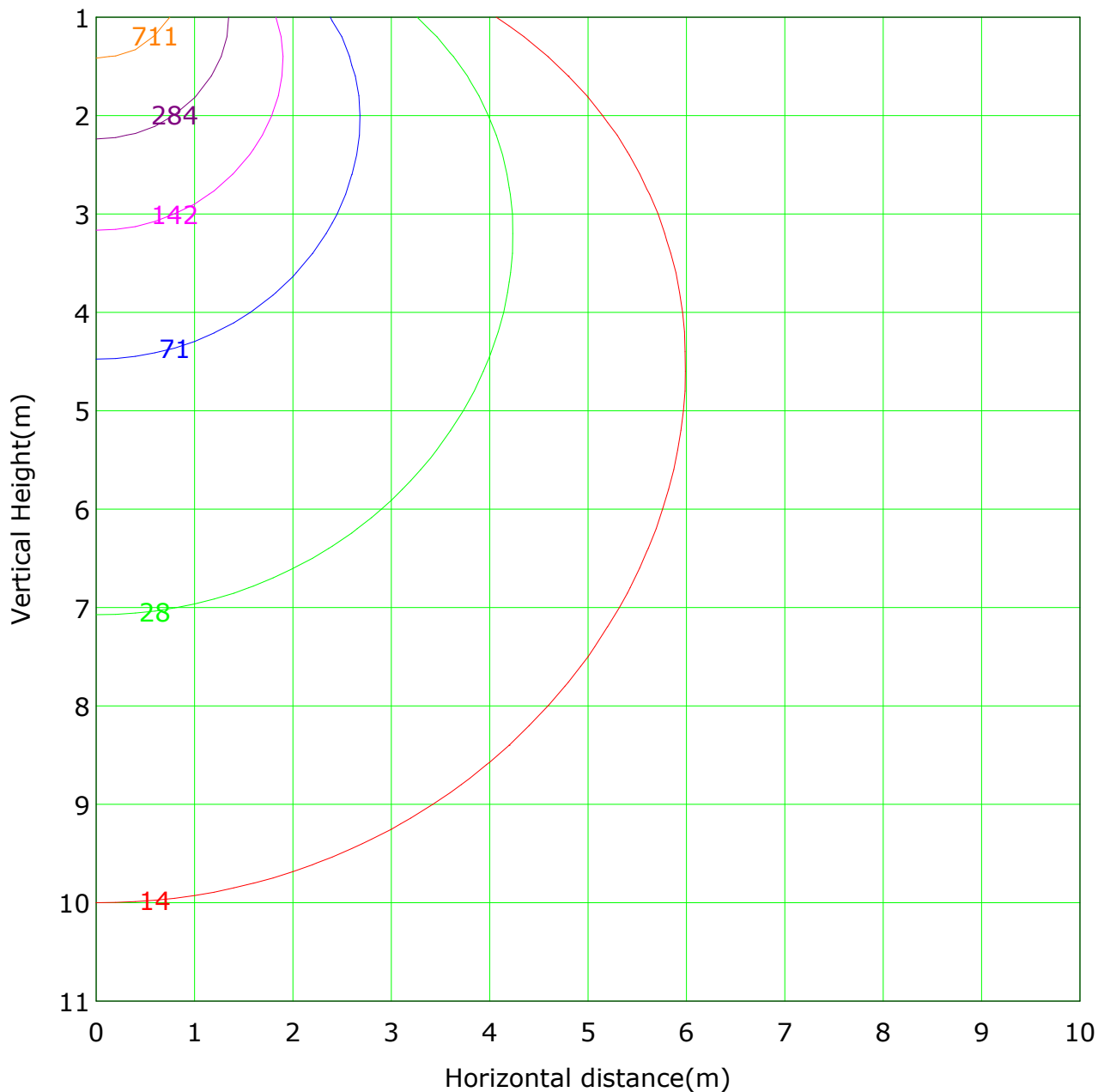
C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

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: 1422.2 lx

(1%): 14.2 lx	(2%): 28.4 lx
(5%): 71.1 lx	(10%): 142.2 lx
(20%): 284.4 lx	(50%): 711.1 lx
(100%):1422.2 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

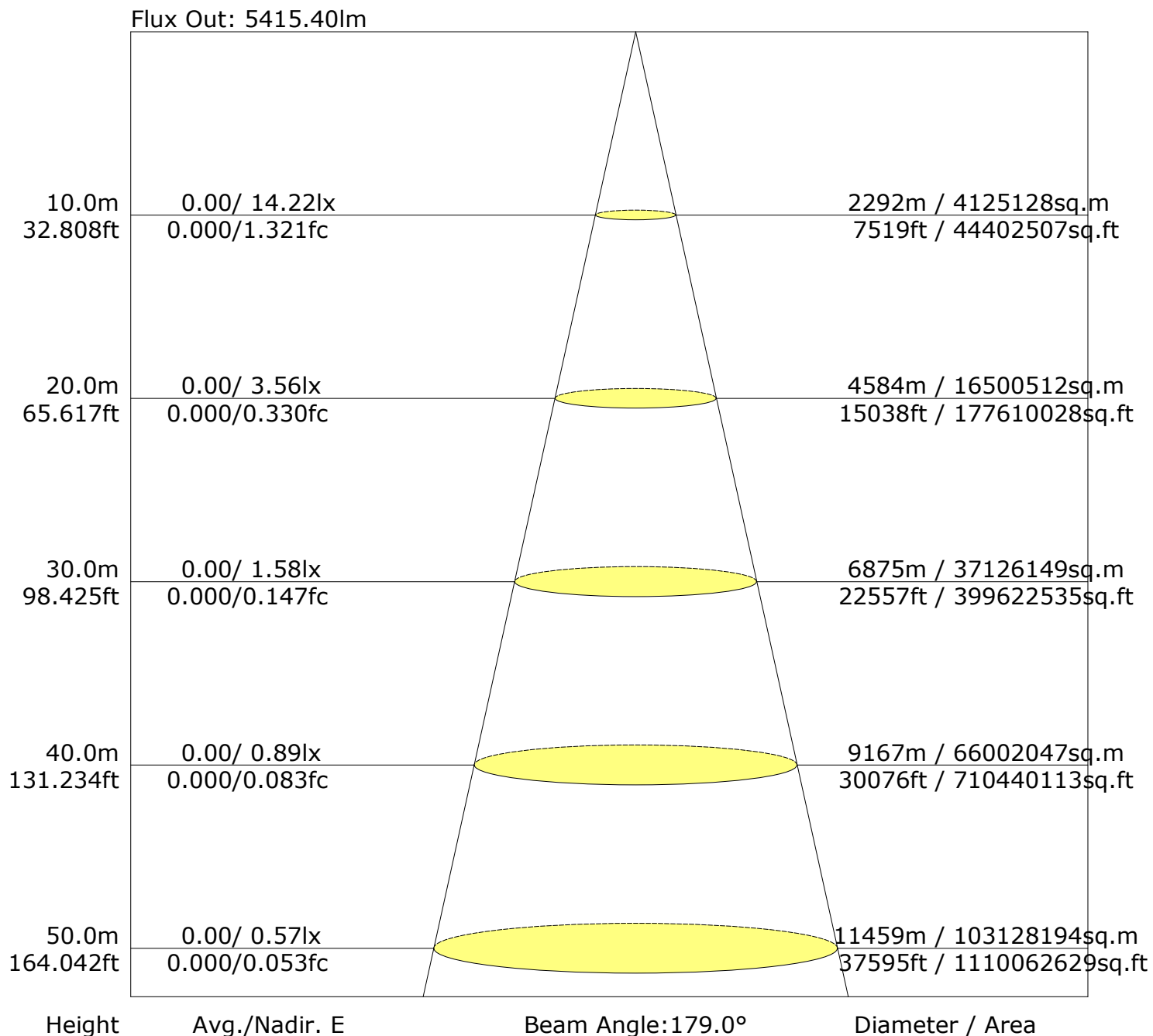
Unit: lm

		Orbit: 1111																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		0.0	0.1	0.2	0.5	0.8	1.1	1.5	1.7	1.9	1.9	1.8	1.5	1.2	0.8	0.5	0.3	0.1	0.0	15.9	1.0	
		-80	0.0	0.2	0.9	2.0	3.5	5.0	6.5	7.7	8.5	8.5	7.8	6.6	5.2	3.7	2.3	1.1	0.3	0.0	69.9	61.6
		-70	0.0	0.5	1.9	4.2	7.0	9.9	12.5	14.7	15.9	15.9	14.7	12.7	10.1	7.2	4.5	2.2	0.7	0.1	134.7	132.4
		-60	0.1	0.9	3.1	6.4	10.4	14.6	18.3	21.1	22.8	22.8	21.2	18.4	14.8	10.7	6.7	3.3	1.1	0.1	196.6	195.4
		-50	0.1	1.2	4.1	8.4	13.5	18.7	23.3	26.8	28.9	28.9	26.9	23.4	18.9	13.8	8.8	4.4	1.4	0.2	251.8	251.0
		-40	0.1	1.5	5.0	10.1	16.1	22.2	27.6	31.7	34.0	34.1	31.8	27.7	22.4	16.4	10.5	5.3	1.8	0.2	298.5	297.9
		-30	0.2	1.8	5.7	11.3	18.0	24.9	31.0	35.6	38.1	38.2	35.6	31.2	25.2	18.5	11.8	6.1	2.0	0.2	335.3	334.8
		-20	0.2	1.9	6.1	12.2	19.3	26.7	33.3	38.3	41.0	41.0	38.4	33.6	27.1	19.9	12.7	6.6	2.2	0.2	360.8	360.3
		-10	0.2	2.0	6.3	12.6	19.9	27.5	34.4	39.6	42.5	42.6	39.9	34.8	28.1	20.6	13.2	6.8	2.3	0.2	373.6	373.2
		0	0.2	2.0	6.3	12.6	19.9	27.4	34.3	39.6	42.5	42.6	39.9	34.8	28.1	20.6	13.2	6.8	2.3	0.2	373.2	372.8
		10	0.2	1.9	6.1	12.1	19.2	26.5	33.2	38.3	41.1	41.1	38.4	33.5	27.0	19.8	12.7	6.5	2.2	0.2	360.1	359.6
		20	0.2	1.7	5.6	11.2	17.9	24.7	30.9	35.7	38.2	38.2	35.8	31.2	25.1	18.3	11.7	6.0	2.0	0.2	334.6	334.1
		30	0.1	1.5	4.9	9.9	15.9	22.1	27.7	31.9	34.0	34.0	31.9	27.9	22.4	16.2	10.3	5.2	1.7	0.2	297.8	297.2
		40	0.1	1.2	4.0	8.2	13.3	18.7	23.5	27.0	28.8	28.8	27.0	23.6	18.9	13.6	8.6	4.3	1.4	0.1	251.0	250.2
		50	0.1	0.8	2.9	6.2	10.3	14.6	18.4	21.2	22.6	22.6	21.2	18.5	14.8	10.6	6.5	3.2	1.0	0.1	195.7	194.3
		60	0.0	0.5	1.8	4.0	6.8	9.9	12.7	14.6	15.6	15.7	14.7	12.8	10.1	7.1	4.3	2.1	0.7	0.1	133.5	130.8
		70	0.0	0.2	0.8	1.9	3.4	5.0	6.6	7.6	8.2	8.2	7.7	6.7	5.2	3.6	2.1	1.0	0.3	0.0	68.6	60.3
		80	0.0	0.1	0.2	0.4	0.7	1.1	1.4	1.7	1.8	1.8	1.7	1.5	1.1	0.8	0.5	0.2	0.1	0.0	14.9	0.0
		90	1.8	20.2	65.8	134.1	215.9	300.5	377.0	434.9	466.5	466.5	436.5	380.3	305.6	222.3	140.7	71.4	23.6	2.5	4067	
Flux(E)		0.0	15.7	62.2	130.6	212.5	297.2	373.7	431.5	463.2	463.2	433.1	377.0	302.4	218.9	137.3	67.9	19.8	0.2		4007	
		-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																				

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



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	20.4	21.6	21.1	22.3	23.2	20.4	21.6	21.1	22.3	23.2
3H	22.2	23.3	22.9	24.0	24.9	22.2	23.3	22.9	24.0	24.9
4H	22.9	23.9	23.6	24.6	25.5	22.8	23.8	23.6	24.6	25.5
6H	23.3	24.2	24.1	25.0	25.9	23.2	24.2	24.0	24.9	25.8
8H	23.4	24.3	24.2	25.1	26.0	23.3	24.2	24.1	25.0	25.9
12H	23.5	24.3	24.3	25.1	26.0	23.4	24.2	24.2	25.0	25.9
X=4H Y=2H	21.0	22.0	21.7	22.7	23.6	21.0	22.0	21.7	22.7	23.6
3H	23.0	23.8	23.8	24.6	25.5	23.0	23.8	23.8	24.6	25.5
4H	23.8	24.5	24.6	25.3	26.3	23.8	24.5	24.5	25.3	26.2
6H	24.3	25.0	25.1	25.8	26.8	24.3	24.9	25.1	25.7	26.7
8H	24.5	25.1	25.3	25.9	26.9	24.4	25.0	25.2	25.8	26.8
12H	24.6	25.1	25.4	26.0	26.9	24.5	25.0	25.3	25.9	26.8
X=8H Y=4H	24.0	24.7	24.8	25.5	26.4	24.0	24.6	24.8	25.4	26.4
6H	24.7	25.2	25.5	26.1	27.0	24.6	25.1	25.5	26.0	27.0
8H	24.9	25.4	25.8	26.2	27.2	24.8	25.3	25.7	26.1	27.1
12H	25.1	25.5	25.9	26.3	27.3	24.9	25.3	25.8	26.2	27.2
X=12H Y=4H	24.0	24.6	24.9	25.4	26.4	24.0	24.5	24.8	25.4	26.3
6H	24.7	25.2	25.6	26.0	27.0	24.7	25.1	25.5	25.9	27.0
8H	25.0	25.4	25.8	26.2	27.3	24.9	25.3	25.7	26.1	27.2

Calculate in accordance with CIE 190:2010 The table is revised with 5415lm ($8\log(F/F_0) = 5.9$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

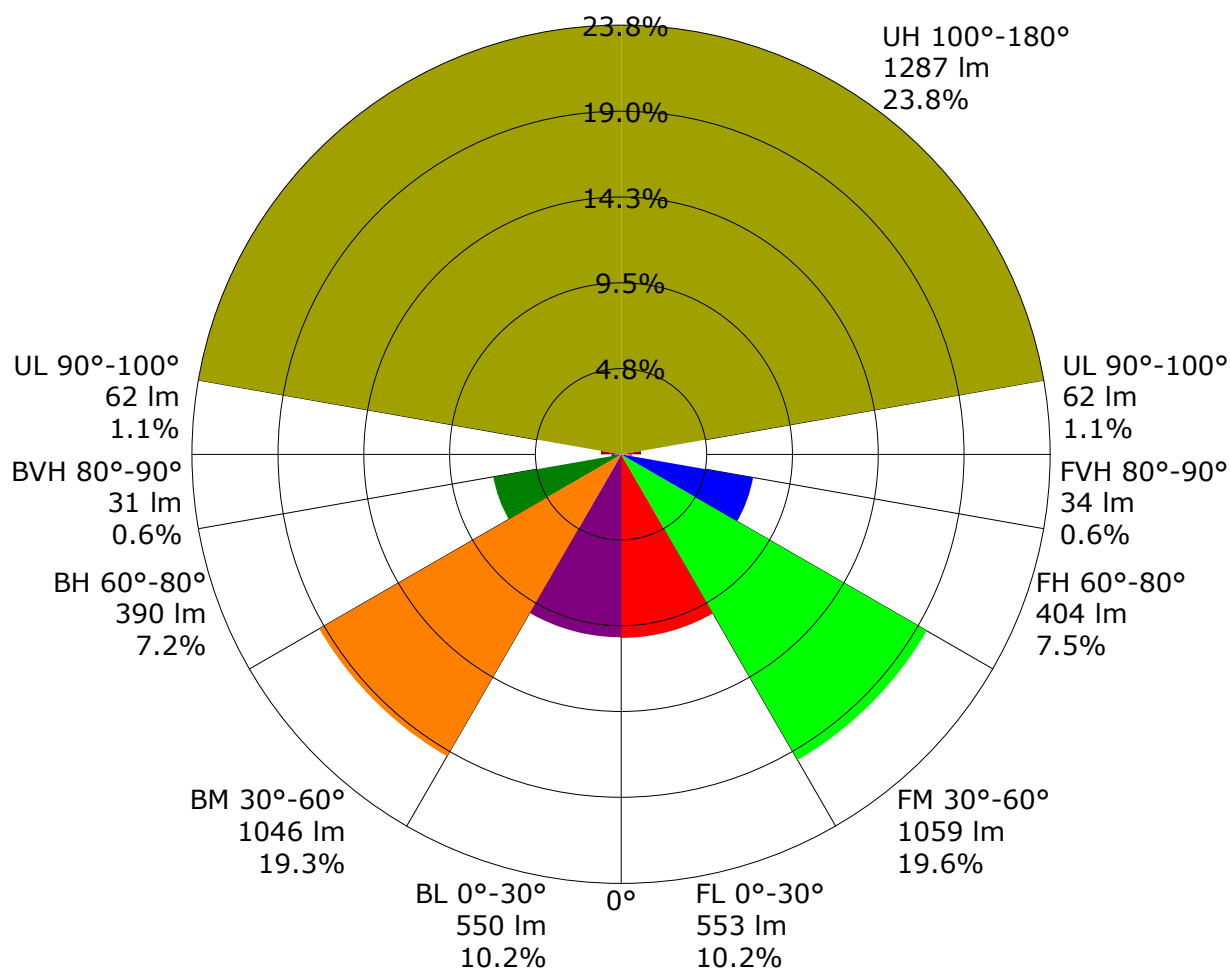
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2050	37.9
	FL (0°-30°)	553	10.2
	FM (30°-60°)	1059	19.6
	FH (60°-80°)	404	7.5
	FVH (80°-90°)	34	0.6
	BACK LIGHT	2017	37.2
	BL (0°-30°)	550	10.2
	BM (30°-60°)	1046	19.3
	BH (60°-80°)	390	7.2
	BVH (80°-90°)	31	0.6
	UP LIGHT	1349	24.9
	UL (90°-100°)	62	1.1
	UH (100°-180°)	1287	23.8
	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:

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	0.51	0.61	0.68	0.73	0.80	0.85	0.88	0.92	0.95	
	0.30		0.43	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.92	
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.79	0.85	0.89	
0.50	0.50	0.20	0.47	0.56	0.62	0.67	0.73	0.77	0.80	0.84	0.87	
	0.30		0.41	0.50	0.56	0.61	0.68	0.73	0.76	0.81	0.84	
	0.20		0.36	0.46	0.52	0.57	0.64	0.69	0.73	0.78	0.82	
0.30	0.50	0.20	0.43	0.51	0.57	0.61	0.67	0.70	0.73	0.76	0.79	
	0.30		0.38	0.46	0.52	0.57	0.63	0.67	0.70	0.74	0.77	
	0.20		0.34	0.42	0.48	0.53	0.60	0.64	0.67	0.72	0.75	
0.00	0.00	0.00	0.30	0.37	0.42	0.46	0.52	0.56	0.59	0.62	0.65	
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	0.95	0.78	0.67	0.58	0.46	0.39	0.33	0.25	0.21	
	0.30		0.79	0.67	0.58	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.68	0.59	0.52	0.46	0.38	0.33	0.28	0.23	0.19	
0.50	0.50	0.20	0.86	0.71	0.60	0.53	0.42	0.37	0.30	0.23	0.19	
	0.30		0.73	0.62	0.53	0.47	0.38	0.32	0.28	0.22	0.18	
	0.20		0.63	0.54	0.48	0.43	0.35	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.78	0.64	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.30		0.67	0.56	0.49	0.43	0.35	0.29	0.25	0.19	0.16	
	0.20		0.59	0.50	0.44	0.39	0.32	0.27	0.24	0.19	0.15	
0.00	0.00	0.00	0.45	0.38	0.33	0.29	0.23	0.19	0.17	0.13	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	0.40	0.42	0.42	0.43	0.44	0.44	0.44	0.45	0.45	
	0.30		0.34	0.35	0.37	0.37	0.39	0.40	0.41	0.42	0.43	
	0.20		0.29	0.31	0.32	0.33	0.35	0.37	0.38	0.39	0.40	
0.50	0.50	0.20	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43	
	0.30		0.33	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.41	
	0.20		0.29	0.30	0.32	0.33	0.34	0.36	0.37	0.38	0.39	
0.30	0.50	0.20	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.42	
	0.30		0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.40	
	0.20		0.29	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.38	
0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
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	1421.4	1.4	1.4	0.03	0.03
1.0-2.0	1420.9	4.1	5.4	0.08	0.10
2.0-3.0	1419.8	6.8	12.2	0.13	0.23
3.0-4.0	1418.3	9.5	21.7	0.18	0.40
4.0-5.0	1416.1	12.2	33.9	0.22	0.63
5.0-6.0	1413.5	14.9	48.8	0.27	0.90
6.0-7.0	1410.5	17.5	66.3	0.32	1.22
7.0-8.0	1406.9	20.1	86.4	0.37	1.60
8.0-9.0	1402.7	22.7	109.1	0.42	2.02
9.0-10.0	1398.0	25.3	134.5	0.47	2.48
10.0-11.0	1393.0	27.8	162.3	0.51	3.00
11.0-12.0	1387.3	30.3	192.6	0.56	3.56
12.0-13.0	1381.2	32.8	225.4	0.61	4.16
13.0-14.0	1374.6	35.2	260.6	0.65	4.81
14.0-15.0	1367.5	37.5	298.1	0.69	5.51
15.0-16.0	1359.9	39.9	338.0	0.74	6.24
16.0-17.0	1351.9	42.1	380.1	0.78	7.02
17.0-18.0	1343.5	44.3	424.4	0.82	7.84
18.0-19.0	1334.6	46.4	470.8	0.86	8.69
19.0-20.0	1325.1	48.5	519.3	0.90	9.59
20.0-21.0	1315.3	50.5	569.9	0.93	10.52
21.0-22.0	1305.1	52.5	622.3	0.97	11.49
22.0-23.0	1294.5	54.3	676.6	1.00	12.49
23.0-24.0	1283.2	56.1	732.7	1.04	13.53
24.0-25.0	1271.4	57.8	790.6	1.07	14.60
25.0-26.0	1259.4	59.5	850.0	1.10	15.70
26.0-27.0	1247.2	61.0	911.0	1.13	16.82
27.0-28.0	1234.4	62.5	973.5	1.15	17.98
28.0-29.0	1221.1	63.9	1037.4	1.18	19.16
29.0-30.0	1207.6	65.2	1102.6	1.20	20.36
30.0-31.0	1193.6	66.4	1169.1	1.23	21.59
31.0-32.0	1179.2	67.6	1236.6	1.25	22.84
32.0-33.0	1164.6	68.6	1305.3	1.27	24.10
33.0-34.0	1149.5	69.6	1374.8	1.28	25.39
34.0-35.0	1133.9	70.4	1445.3	1.30	26.69
35.0-36.0	1118.3	71.2	1516.5	1.31	28.00

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 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1102.2	71.9	1588.4	1.33	29.33
37.0-38.0	1085.6	72.5	1660.8	1.34	30.67
38.0-39.0	1068.8	73.0	1733.8	1.35	32.02
39.0-40.0	1051.6	73.4	1807.2	1.35	33.37
40.0-41.0	1034.1	73.6	1880.8	1.36	34.73
41.0-42.0	1016.2	73.8	1954.6	1.36	36.09
42.0-43.0	998.3	74.0	2028.6	1.37	37.46
43.0-44.0	980.0	74.0	2102.6	1.37	38.83
44.0-45.0	961.3	73.9	2176.5	1.36	40.19
45.0-46.0	942.2	73.7	2250.2	1.36	41.55
46.0-47.0	922.6	73.4	2323.6	1.36	42.91
47.0-48.0	903.0	73.0	2396.6	1.35	44.25
48.0-49.0	883.4	72.6	2469.1	1.34	45.59
49.0-50.0	863.0	72.0	2541.1	1.33	46.92
50.0-51.0	842.3	71.3	2612.4	1.32	48.24
51.0-52.0	821.6	70.5	2682.9	1.30	49.54
52.0-53.0	800.6	69.6	2752.5	1.29	50.83
53.0-54.0	779.0	68.7	2821.2	1.27	52.10
54.0-55.0	757.4	67.6	2888.8	1.25	53.34
55.0-56.0	735.7	66.5	2955.3	1.23	54.57
56.0-57.0	713.7	65.3	3020.6	1.21	55.78
57.0-58.0	691.3	63.9	3084.5	1.18	56.96
58.0-59.0	668.5	62.5	3147.0	1.15	58.11
59.0-60.0	645.5	61.0	3208.0	1.13	59.24
60.0-61.0	622.6	59.4	3267.4	1.10	60.34
61.0-62.0	599.3	57.8	3325.2	1.07	61.40
62.0-63.0	575.6	56.0	3381.2	1.03	62.44
63.0-64.0	551.6	54.1	3435.3	1.00	63.44
64.0-65.0	527.8	52.2	3487.5	0.96	64.40
65.0-66.0	503.8	50.3	3537.8	0.93	65.33
66.0-67.0	479.2	48.2	3586.0	0.89	66.22
67.0-68.0	454.7	46.1	3632.1	0.85	67.07
68.0-69.0	430.2	43.9	3676.0	0.81	67.88
69.0-70.0	405.4	41.6	3717.6	0.77	68.65
70.0-71.0	380.3	39.3	3756.9	0.73	69.37
71.0-72.0	355.7	37.0	3793.9	0.68	70.06

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	330.9	34.6	3828.5	0.64	70.70
73.0-74.0	305.8	32.2	3860.7	0.59	71.29
74.0-75.0	280.8	29.7	3890.3	0.55	71.84
75.0-76.0	256.2	27.2	3917.5	0.50	72.34
76.0-77.0	231.9	24.7	3942.3	0.46	72.80
77.0-78.0	208.3	22.3	3964.6	0.41	73.21
78.0-79.0	184.7	19.9	3984.4	0.37	73.58
79.0-80.0	161.5	17.4	4001.8	0.32	73.90
80.0-81.0	139.2	15.1	4016.9	0.28	74.18
81.0-82.0	117.6	12.8	4029.6	0.24	74.41
82.0-83.0	96.9	10.5	4040.2	0.19	74.61
83.0-84.0	77.6	8.5	4048.6	0.16	74.76
84.0-85.0	59.8	6.5	4055.2	0.12	74.88
85.0-86.0	43.7	4.8	4059.9	0.09	74.97
86.0-87.0	29.6	3.2	4063.2	0.06	75.03
87.0-88.0	18.0	2.0	4065.1	0.04	75.07
88.0-89.0	8.9	1.0	4066.1	0.02	75.08
89.0-90.0	6.7	0.7	4066.8	0.01	75.10
90.0-91.0	11.8	1.3	4068.1	0.02	75.12
91.0-92.0	20.0	2.2	4070.3	0.04	75.16
92.0-93.0	29.9	3.3	4073.6	0.06	75.22
93.0-94.0	40.1	4.4	4078.0	0.08	75.30
94.0-95.0	50.5	5.5	4083.5	0.10	75.41
95.0-96.0	61.2	6.7	4090.2	0.12	75.53
96.0-97.0	71.9	7.8	4098.0	0.14	75.67
97.0-98.0	83.0	9.0	4107.1	0.17	75.84
98.0-99.0	94.7	10.3	4117.3	0.19	76.03
99.0-100.0	106.7	11.5	4128.9	0.21	76.24
100.0-101.0	118.8	12.8	4141.7	0.24	76.48
101.0-102.0	130.8	14.1	4155.7	0.26	76.74
102.0-103.0	142.8	15.3	4171.0	0.28	77.02
103.0-104.0	154.5	16.5	4187.5	0.30	77.33
104.0-105.0	166.1	17.6	4205.1	0.33	77.65
105.0-106.0	177.5	18.8	4223.9	0.35	78.00
106.0-107.0	188.5	19.8	4243.7	0.37	78.36
107.0-108.0	199.1	20.8	4264.5	0.38	78.75

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	209.3	21.8	4286.3	0.40	79.15
109.0-110.0	219.0	22.6	4308.9	0.42	79.57
110.0-111.0	228.5	23.5	4332.4	0.43	80.00
111.0-112.0	237.7	24.3	4356.7	0.45	80.45
112.0-113.0	246.7	25.0	4381.6	0.46	80.91
113.0-114.0	255.3	25.7	4407.3	0.47	81.38
114.0-115.0	263.2	26.3	4433.6	0.49	81.87
115.0-116.0	270.5	26.8	4460.4	0.49	82.36
116.0-117.0	276.9	27.2	4487.5	0.50	82.87
117.0-118.0	282.4	27.5	4515.0	0.51	83.37
118.0-119.0	287.0	27.7	4542.7	0.51	83.88
119.0-120.0	290.6	27.7	4570.4	0.51	84.40
120.0-121.0	293.2	27.7	4598.1	0.51	84.91
121.0-122.0	294.9	27.6	4625.7	0.51	85.42
122.0-123.0	295.8	27.4	4653.0	0.51	85.92
123.0-124.0	296.1	27.1	4680.1	0.50	86.42
124.0-125.0	295.6	26.7	4706.8	0.49	86.92
125.0-126.0	294.8	26.3	4733.1	0.49	87.40
126.0-127.0	293.7	25.9	4759.0	0.48	87.88
127.0-128.0	292.2	25.4	4784.4	0.47	88.35
128.0-129.0	290.5	24.9	4809.4	0.46	88.81
129.0-130.0	288.7	24.4	4833.8	0.45	89.26
130.0-131.0	286.9	23.9	4857.7	0.44	89.70
131.0-132.0	285.0	23.4	4881.1	0.43	90.13
132.0-133.0	283.1	22.9	4904.0	0.42	90.56
133.0-134.0	281.1	22.4	4926.4	0.41	90.97
134.0-135.0	279.2	21.8	4948.2	0.40	91.37
135.0-136.0	277.4	21.3	4969.5	0.39	91.77
136.0-137.0	275.5	20.8	4990.3	0.38	92.15
137.0-138.0	273.7	20.3	5010.6	0.37	92.53
138.0-139.0	272.0	19.8	5030.4	0.36	92.89
139.0-140.0	270.3	19.2	5049.6	0.36	93.25
140.0-141.0	268.6	18.7	5068.4	0.35	93.59
141.0-142.0	266.9	18.2	5086.6	0.34	93.93
142.0-143.0	265.3	17.7	5104.3	0.33	94.26
143.0-144.0	263.8	17.2	5121.5	0.32	94.57

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	262.2	16.7	5138.2	0.31	94.88
145.0-146.0	260.6	16.2	5154.4	0.30	95.18
146.0-147.0	259.1	15.7	5170.1	0.29	95.47
147.0-148.0	257.6	15.2	5185.2	0.28	95.75
148.0-149.0	256.2	14.7	5199.9	0.27	96.02
149.0-150.0	254.6	14.2	5214.1	0.26	96.28
150.0-151.0	253.1	13.7	5227.8	0.25	96.53
151.0-152.0	251.5	13.2	5240.9	0.24	96.78
152.0-153.0	250.0	12.7	5253.6	0.23	97.01
153.0-154.0	248.4	12.2	5265.7	0.22	97.24
154.0-155.0	246.9	11.7	5277.4	0.22	97.45
155.0-156.0	245.3	11.2	5288.5	0.21	97.66
156.0-157.0	243.6	10.7	5299.2	0.20	97.85
157.0-158.0	242.1	10.2	5309.3	0.19	98.04
158.0-159.0	240.5	9.7	5319.0	0.18	98.22
159.0-160.0	239.0	9.2	5328.2	0.17	98.39
160.0-161.0	237.5	8.7	5336.9	0.16	98.55
161.0-162.0	236.0	8.2	5345.1	0.15	98.70
162.0-163.0	234.6	7.7	5352.8	0.14	98.84
163.0-164.0	233.2	7.3	5360.1	0.13	98.98
164.0-165.0	231.9	6.8	5366.9	0.13	99.10
165.0-166.0	230.7	6.3	5373.2	0.12	99.22
166.0-167.0	229.5	5.9	5379.1	0.11	99.33
167.0-168.0	228.4	5.4	5384.5	0.10	99.43
168.0-169.0	227.4	5.0	5389.5	0.09	99.52
169.0-170.0	226.5	4.5	5394.0	0.08	99.61
170.0-171.0	225.7	4.1	5398.1	0.08	99.68
171.0-172.0	224.9	3.6	5401.8	0.07	99.75
172.0-173.0	224.2	3.2	5405.0	0.06	99.81
173.0-174.0	223.6	2.8	5407.7	0.05	99.86
174.0-175.0	223.1	2.3	5410.1	0.04	99.90
175.0-176.0	222.7	1.9	5412.0	0.04	99.94
176.0-177.0	222.3	1.5	5413.5	0.03	99.96
177.0-178.0	222.1	1.1	5414.6	0.02	99.98
178.0-179.0	222.0	0.6	5415.2	0.01	100.00
179.0-180.0	221.9	0.2	5415.4	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°): 2176.47 lm

%lum = 40.2%

%lamp = 40.2%

cone flux(120°): 3208.00 lm

%lum = 59.2%

%lamp = 59.2%

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	1422.2	1421.0	1421.3	1421.5	1422.0	1420.9	1422.2	1421.0	1421.3	1421.5
G1.0	1422.8	1420.8	1421.3	1421.5	1421.8	1420.5	1421.6	1420.8	1420.9	1421.7
G2.0	1422.3	1420.2	1420.7	1420.8	1421.3	1419.5	1420.1	1419.7	1419.8	1420.6
G3.0	1421.3	1419.0	1419.4	1419.3	1419.8	1418.0	1418.3	1418.4	1418.5	1419.5
G4.0	1419.8	1417.5	1417.9	1417.5	1418.5	1415.9	1415.9	1416.3	1416.4	1417.8
G5.0	1417.9	1415.2	1415.6	1415.4	1415.9	1413.0	1412.7	1414.0	1414.0	1415.3
G6.0	1415.0	1412.2	1413.0	1412.6	1413.3	1410.3	1409.6	1411.2	1411.2	1412.7
G7.0	1412.1	1409.2	1409.7	1410.0	1410.4	1406.7	1405.4	1407.7	1407.3	1409.6
G8.0	1408.2	1405.3	1406.4	1405.8	1406.6	1402.5	1400.7	1403.5	1403.3	1405.8
G9.0	1404.4	1400.9	1402.0	1401.3	1402.3	1397.4	1395.3	1399.6	1398.8	1401.5
G10.0	1399.9	1396.3	1397.6	1396.6	1397.9	1392.5	1389.8	1394.6	1393.6	1396.7
G11.0	1395.0	1391.1	1392.5	1391.3	1392.6	1387.1	1383.7	1388.9	1388.9	1391.5
G12.0	1388.8	1384.7	1386.9	1385.7	1386.6	1381.1	1377.3	1383.2	1382.2	1385.4
G13.0	1382.8	1378.7	1380.7	1378.9	1380.7	1374.3	1370.2	1376.4	1375.9	1379.6
G14.0	1376.5	1371.9	1375.0	1372.4	1374.4	1366.8	1362.3	1369.7	1369.1	1373.3
G15.0	1368.9	1364.6	1367.4	1365.3	1366.2	1359.1	1354.5	1362.6	1361.2	1365.6
G16.0	1361.6	1356.6	1360.0	1358.2	1359.0	1351.3	1346.1	1354.6	1353.6	1358.1
G17.0	1353.6	1348.4	1352.0	1349.3	1350.9	1342.9	1337.6	1345.4	1345.6	1350.1
G18.0	1345.6	1339.8	1343.3	1340.7	1342.6	1333.2	1328.4	1336.9	1337.0	1341.9
G19.0	1336.9	1330.8	1334.1	1331.8	1333.8	1323.9	1318.2	1327.6	1327.3	1333.3
G20.0	1326.6	1320.6	1325.0	1322.9	1323.9	1314.0	1307.9	1318.1	1318.2	1323.0
G21.0	1317.2	1310.5	1315.6	1313.0	1314.1	1303.9	1297.3	1307.1	1307.6	1313.4
G22.0	1307.0	1300.2	1304.8	1301.8	1304.1	1293.1	1286.6	1297.0	1297.3	1303.6
G23.0	1296.5	1289.5	1293.8	1291.3	1293.6	1280.9	1275.3	1285.8	1286.6	1293.1
G24.0	1284.3	1278.3	1283.1	1280.2	1281.5	1269.3	1262.4	1274.4	1275.3	1281.1
G25.0	1273.1	1265.7	1271.9	1269.1	1270.2	1257.4	1250.5	1261.5	1262.5	1270.0
G26.0	1261.0	1253.8	1258.8	1256.0	1258.4	1244.8	1238.0	1249.5	1250.5	1258.2
G27.0	1249.1	1241.6	1246.8	1243.6	1246.3	1232.5	1225.0	1236.8	1237.8	1246.2
G28.0	1235.0	1228.7	1234.2	1231.4	1232.2	1218.3	1210.9	1224.0	1225.2	1233.8
G29.0	1222.2	1215.3	1221.5	1218.3	1219.4	1204.4	1197.3	1210.6	1211.4	1220.9
G30.0	1208.7	1200.8	1208.3	1205.1	1206.0	1190.6	1183.1	1195.9	1197.5	1206.2
G31.0	1195.1	1186.7	1193.3	1189.7	1192.3	1175.9	1169.0	1181.5	1184.1	1192.7
G32.0	1180.2	1172.6	1179.3	1175.9	1177.2	1160.1	1153.0	1167.4	1169.9	1179.0
G33.0	1165.6	1157.7	1164.8	1161.0	1162.7	1145.1	1137.6	1152.8	1155.2	1164.8
G34.0	1151.0	1142.6	1148.9	1145.9	1148.2	1129.7	1122.2	1136.2	1138.6	1148.6
G35.0	1134.3	1125.9	1133.9	1130.6	1131.2	1114.2	1106.3	1120.9	1123.1	1133.5
G36.0	1118.6	1110.2	1118.4	1115.1	1115.7	1098.1	1090.4	1105.5	1107.7	1118.5

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 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	1103.5	1094.0	1102.8	1097.9	1099.9	1080.4	1072.2	1089.3	1091.8	1102.6
G38.0	1086.9	1077.7	1084.9	1081.7	1083.8	1063.5	1055.9	1072.8	1073.7	1085.2
G39.0	1070.5	1059.6	1068.2	1065.2	1066.9	1047.2	1038.9	1054.1	1057.2	1068.7
G40.0	1052.1	1042.7	1051.5	1046.7	1048.4	1029.8	1021.6	1037.1	1040.4	1052.0
G41.0	1035.0	1025.0	1034.5	1029.0	1031.2	1011.8	1002.1	1019.8	1023.4	1035.0
G42.0	1017.3	1007.5	1016.9	1011.6	1013.1	992.3	984.4	1002.3	1004.0	1015.9
G43.0	999.8	989.5	999.0	993.8	995.7	974.1	966.3	982.7	986.5	998.4
G44.0	980.0	971.2	979.4	975.6	975.9	955.7	947.8	964.5	968.2	980.6
G45.0	961.9	950.4	961.6	957.0	957.6	936.7	928.7	946.1	949.5	962.3
G46.0	943.2	931.5	942.7	936.2	939.0	917.9	907.5	927.3	930.8	942.1
G47.0	924.2	912.5	922.1	917.1	918.4	896.2	888.0	906.4	909.9	923.5
G48.0	903.0	893.2	902.5	897.7	899.1	876.6	868.8	887.1	890.8	904.5
G49.0	883.8	873.2	883.3	878.3	879.6	856.8	848.5	867.3	870.9	884.9
G50.0	863.4	851.2	863.3	858.3	859.5	836.2	826.8	845.5	849.5	863.4
G51.0	843.4	831.1	841.2	836.4	839.3	814.1	806.0	825.2	829.5	843.5
G52.0	822.5	810.6	820.5	816.0	818.5	793.2	785.0	804.5	808.8	823.1
G53.0	799.5	789.7	799.8	795.3	795.9	772.5	762.7	783.7	789.0	802.6
G54.0	778.9	766.8	779.3	772.3	775.2	749.3	740.7	762.7	767.4	779.8
G55.0	758.0	745.1	756.3	750.6	753.9	727.3	719.8	741.0	744.7	758.6
G56.0	736.2	723.7	734.5	729.2	732.4	705.7	697.5	717.8	723.1	737.7
G57.0	712.9	699.9	713.4	707.7	708.9	683.9	675.6	695.9	701.2	716.2
G58.0	690.6	677.4	691.0	685.1	686.8	660.8	651.3	674.0	679.5	694.4
G59.0	668.8	655.0	667.3	660.7	665.0	638.4	628.4	649.9	654.8	670.7
G60.0	643.9	632.3	644.7	638.0	640.2	613.0	606.2	627.5	632.8	648.5
G61.0	621.3	609.5	622.0	615.2	617.6	589.9	583.0	604.8	610.0	625.9
G62.0	598.1	586.4	598.8	592.3	594.3	566.9	557.7	582.0	587.2	601.0
G63.0	575.1	560.8	573.6	569.2	571.3	543.5	534.2	556.7	561.8	577.9
G64.0	549.4	537.4	550.3	543.2	545.7	517.4	510.8	533.2	538.6	554.8
G65.0	526.0	513.6	526.5	519.9	521.8	493.8	487.4	509.8	515.5	531.4
G66.0	502.2	489.5	503.1	495.6	498.1	469.5	461.3	486.1	491.8	505.7
G67.0	478.6	462.9	476.9	471.6	474.5	445.5	437.5	459.7	466.1	481.8
G68.0	452.4	439.0	452.9	445.1	448.2	421.4	413.3	436.0	441.9	457.8
G69.0	428.1	414.4	428.7	420.7	423.9	397.1	389.4	412.1	417.7	434.0
G70.0	404.3	390.5	402.3	396.7	399.8	370.4	362.8	387.8	391.3	407.4
G71.0	377.5	365.7	377.9	372.1	372.8	345.7	339.0	361.6	367.2	383.2
G72.0	354.0	339.7	354.4	345.9	349.1	321.9	315.5	338.1	343.2	357.2
G73.0	329.0	314.3	328.9	322.6	323.9	296.7	290.6	313.0	317.8	332.0

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 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	304.1	289.7	301.3	295.6	298.6	272.1	266.3	288.5	292.9	306.8
G75.0	278.4	266.0	277.6	271.8	272.7	246.3	241.1	262.8	269.1	283.0
G76.0	253.6	241.1	252.4	248.4	247.9	223.5	217.3	238.1	243.9	257.7
G77.0	229.6	217.4	228.3	222.3	223.7	200.1	194.7	214.6	220.3	233.4
G78.0	207.3	195.0	203.7	199.3	201.0	176.4	172.9	190.5	195.7	208.5
G79.0	183.0	172.0	180.2	175.5	176.0	153.8	149.5	168.0	172.6	185.1
G80.0	160.3	149.1	156.7	152.1	152.6	131.6	129.3	145.5	149.2	161.4
G81.0	138.9	128.0	133.1	129.8	130.8	111.2	107.7	123.3	127.9	137.9
G82.0	116.9	107.3	112.3	108.2	108.5	91.5	88.7	102.0	105.9	115.4
G83.0	95.9	86.4	90.7	87.8	87.2	72.7	70.7	83.3	86.0	95.2
G84.0	77.7	68.3	71.2	67.9	68.1	55.7	54.3	65.1	67.8	75.2
G85.0	59.2	51.9	53.9	50.8	51.1	39.8	39.0	48.7	50.8	56.5
G86.0	43.4	36.3	37.6	35.6	35.8	26.7	25.7	33.5	35.8	40.2
G87.0	29.4	23.5	24.2	22.4	22.8	15.6	14.8	21.0	23.4	25.9
G88.0	17.9	13.5	13.6	11.7	12.2	6.9	6.0	10.8	13.4	14.4
G89.0	8.0	5.3	5.5	4.3	4.7	1.1	1.1	2.9	5.8	5.7
G90.0	0.9	0.9	0.7	0.8	19.2	16.4	12.9	23.6	20.7	1.1
G91.0	2.4	4.1	6.0	2.4	32.7	26.7	20.2	34.9	36.2	2.4
G92.0	6.7	12.9	19.6	3.8	46.2	37.5	28.1	47.8	50.6	3.7
G93.0	13.1	25.1	33.1	5.2	59.1	48.2	36.5	61.4	64.0	5.2
G94.0	20.6	38.0	47.0	6.9	69.6	60.3	45.5	76.1	74.7	6.9
G95.0	29.0	52.0	59.5	8.7	80.3	73.8	56.4	91.8	82.5	8.9
G96.0	37.7	66.5	69.0	10.7	90.2	89.6	68.2	109.6	90.2	11.0
G97.0	47.5	83.1	76.7	12.9	99.0	105.4	82.1	127.5	97.7	13.2
G98.0	58.9	100.3	84.1	15.2	108.2	123.3	97.9	146.0	104.8	15.6
G99.0	72.3	119.8	91.2	17.5	117.9	141.9	114.1	164.8	112.2	18.0
G100.0	88.5	137.7	98.1	20.0	127.4	158.8	132.0	180.6	119.4	20.7
G101.0	104.7	157.5	105.1	22.6	136.9	176.2	149.7	197.1	126.0	23.5
G102.0	123.0	174.3	111.9	25.0	146.3	194.8	166.6	213.1	132.1	26.2
G103.0	142.1	191.2	118.0	27.7	155.2	211.4	185.7	229.4	138.1	29.0
G104.0	161.2	207.0	124.0	30.4	163.8	229.1	205.1	244.1	143.3	31.8
G105.0	180.2	223.4	129.9	33.2	171.9	244.1	225.8	259.0	148.1	34.8
G106.0	199.4	238.1	135.0	36.1	178.8	260.0	247.3	272.6	152.1	37.7
G107.0	219.5	253.0	140.1	38.9	185.6	275.0	267.1	286.5	155.7	40.7
G108.0	241.1	267.7	144.1	41.8	191.3	289.8	286.7	300.8	158.7	43.8
G109.0	261.2	282.3	147.9	44.6	195.8	301.6	304.4	315.5	161.2	46.7
G110.0	283.2	296.0	151.0	47.5	200.2	314.2	323.4	329.6	162.9	49.8

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 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	303.2	311.1	153.6	50.8	203.1	327.1	340.4	343.5	164.3	53.2
G112.0	322.5	324.6	155.8	53.7	205.2	343.7	357.2	357.3	165.2	56.3
G113.0	340.9	338.2	157.8	56.8	206.5	361.5	375.0	372.0	165.7	59.5
G114.0	359.3	351.1	159.3	60.2	207.0	375.9	391.1	384.0	165.9	62.7
G115.0	378.4	364.3	160.5	63.3	207.0	389.2	406.4	394.8	166.0	66.3
G116.0	394.9	375.3	161.5	66.5	206.6	400.8	420.5	404.5	165.9	69.5
G117.0	410.4	384.8	162.4	69.7	205.9	410.9	433.7	411.4	165.8	72.8
G118.0	424.1	392.6	163.2	73.3	204.7	417.8	446.3	416.3	165.6	76.4
G119.0	436.5	399.2	164.0	76.6	203.7	422.7	455.9	419.2	165.6	79.7
G120.0	447.8	403.3	164.8	79.9	202.7	426.0	463.4	420.2	165.7	83.0
G121.0	455.9	405.7	165.6	83.4	201.8	427.1	468.7	419.3	165.9	86.3
G122.0	462.0	406.6	166.5	86.5	201.1	426.6	472.4	417.1	166.4	90.0
G123.0	466.0	405.8	167.5	90.0	201.0	425.2	473.8	413.8	167.0	93.3
G124.0	468.2	404.1	168.5	93.3	200.6	422.0	473.6	409.5	167.6	96.6
G125.0	468.5	401.4	169.5	96.9	200.2	418.0	471.8	404.7	168.4	99.9
G126.0	467.4	397.9	170.8	100.2	200.0	415.0	468.8	399.1	169.5	103.1
G127.0	465.1	393.6	172.2	103.4	199.9	411.1	465.1	393.7	170.6	106.7
G128.0	461.8	389.1	173.6	106.7	200.0	405.6	460.6	388.2	171.7	109.8
G129.0	457.4	384.4	175.0	110.0	200.2	400.3	455.1	382.1	173.0	113.0
G130.0	452.9	379.5	176.5	113.5	200.5	395.1	449.7	376.5	174.3	116.2
G131.0	448.0	374.1	178.1	116.8	200.8	389.7	444.0	371.0	175.9	119.7
G132.0	442.8	369.1	179.6	120.0	201.3	384.4	438.2	365.6	177.3	122.8
G133.0	437.0	364.2	181.3	123.2	201.9	378.5	432.3	360.4	178.9	125.9
G134.0	431.2	359.4	182.8	126.7	202.5	373.4	425.4	354.6	180.4	129.1
G135.0	425.4	354.1	184.4	129.9	203.3	368.1	419.1	349.6	182.1	132.4
G136.0	419.4	349.6	186.1	133.1	203.9	363.1	412.9	344.6	183.7	135.5
G137.0	412.8	344.9	187.7	136.5	204.8	357.6	406.1	339.9	185.3	138.5
G138.0	406.8	340.5	189.2	139.6	205.6	352.8	399.9	334.8	187.1	141.5
G139.0	400.6	336.4	190.8	142.7	206.5	348.0	393.7	330.2	188.7	144.7
G140.0	394.5	332.4	192.5	145.8	207.3	342.6	387.6	326.0	190.3	147.7
G141.0	388.5	328.6	194.1	149.1	208.1	337.9	380.8	321.5	191.9	150.6
G142.0	381.9	324.8	195.5	152.3	209.0	333.3	374.9	316.7	193.4	153.5
G143.0	376.1	320.5	197.0	155.3	209.9	328.6	368.8	312.5	195.0	156.8
G144.0	370.5	317.0	198.5	158.3	210.7	324.1	362.9	308.2	196.5	159.6
G145.0	365.0	313.4	200.0	161.2	211.6	319.1	356.4	304.2	197.9	162.5
G146.0	359.0	309.7	201.5	164.6	212.3	314.6	350.4	300.2	199.2	165.4
G147.0	353.7	305.8	202.8	167.4	213.0	310.1	344.6	295.9	200.7	168.2

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 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	348.5	302.3	204.1	170.2	213.8	305.8	338.8	292.1	202.0	171.3
G149.0	343.3	298.6	205.5	173.0	214.4	301.1	333.0	288.2	203.2	174.1
G150.0	338.1	294.5	206.8	176.1	215.0	296.9	326.5	284.7	204.5	176.7
G151.0	332.8	290.7	208.1	178.7	215.6	292.8	320.8	281.1	205.7	179.3
G152.0	326.9	286.8	209.3	181.4	216.2	288.6	315.0	277.5	206.8	181.9
G153.0	321.5	283.1	210.4	184.0	216.7	284.2	309.5	273.9	207.8	184.6
G154.0	316.2	279.3	211.7	186.7	217.1	280.4	303.8	270.4	208.8	187.1
G155.0	310.6	275.6	212.7	189.2	217.6	276.5	297.9	267.1	209.7	189.5
G156.0	304.5	271.4	213.7	191.5	218.0	272.8	292.6	264.0	210.7	191.9
G157.0	298.9	267.6	214.6	193.7	218.2	268.8	287.4	261.0	211.6	194.3
G158.0	293.2	264.1	215.5	196.2	218.5	265.2	282.4	257.9	212.3	196.5
G159.0	287.5	260.2	216.5	198.3	218.7	261.8	277.1	255.0	213.0	198.6
G160.0	281.8	257.0	217.2	200.4	218.9	258.1	272.4	252.1	213.7	200.7
G161.0	276.4	253.8	218.0	202.3	219.0	254.8	267.8	249.4	214.3	202.6
G162.0	270.7	250.6	218.6	204.4	219.2	251.7	263.3	246.4	214.9	204.6
G163.0	265.6	247.5	219.2	206.2	219.4	248.6	258.6	243.8	215.5	206.4
G164.0	260.9	244.7	219.9	208.0	219.4	245.5	254.4	241.2	215.9	208.2
G165.0	256.3	242.1	220.3	209.6	219.5	242.3	250.5	238.6	216.5	209.8
G166.0	251.6	239.7	220.8	211.3	219.6	239.6	246.6	236.3	217.0	211.5
G167.0	247.8	237.4	221.2	212.7	219.7	237.0	243.0	234.0	217.4	212.9
G168.0	244.3	235.4	221.6	214.0	219.8	234.6	239.6	231.9	217.9	214.2
G169.0	240.7	233.5	221.8	215.2	219.9	232.2	236.2	229.9	218.2	215.4
G170.0	237.7	231.8	222.1	216.4	219.9	230.1	233.3	228.2	218.7	216.7
G171.0	235.0	230.3	222.2	217.3	220.1	228.3	230.8	226.6	219.1	217.7
G172.0	232.6	228.8	222.4	218.3	220.2	226.7	228.5	225.2	219.4	218.6
G173.0	230.6	227.4	222.5	219.1	220.4	225.2	226.3	224.1	219.8	219.4
G174.0	228.6	226.4	222.5	219.8	220.4	224.0	224.6	223.1	220.1	220.0
G175.0	226.8	225.2	222.5	220.4	220.7	223.1	223.3	222.2	220.5	220.6
G176.0	225.3	224.2	222.4	221.0	220.9	222.3	222.3	221.7	220.9	221.1
G177.0	224.1	223.4	222.3	221.4	221.3	221.8	221.5	221.3	221.3	221.5
G178.0	222.9	222.6	222.3	221.8	221.6	221.7	221.2	221.3	221.6	221.8
G179.0	222.0	222.0	222.1	221.9	221.9	222.0	221.5	221.6	221.8	221.9
G180.0	221.6	221.7	221.9	222.0	222.0	222.1	221.6	221.7	221.9	222.0

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1422.0	1420.9	1422.2							
G1.0	1421.5	1420.9	1422.8							
G2.0	1420.6	1420.5	1422.3							
G3.0	1419.2	1419.3	1421.3							
G4.0	1417.1	1417.8	1419.8							
G5.0	1414.7	1415.4	1417.9							
G6.0	1411.6	1413.0	1415.0							
G7.0	1408.2	1409.7	1412.1							
G8.0	1404.5	1405.9	1408.2							
G9.0	1399.6	1401.9	1404.4							
G10.0	1394.7	1397.2	1399.9							
G11.0	1389.0	1392.0	1395.0							
G12.0	1383.5	1386.6	1388.8							
G13.0	1377.1	1380.6	1382.8							
G14.0	1369.8	1373.3	1376.5							
G15.0	1362.8	1366.2	1368.9							
G16.0	1354.9	1358.7	1361.6							
G17.0	1347.4	1350.7	1353.6							
G18.0	1338.6	1342.5	1345.6							
G19.0	1328.7	1332.6	1336.9							
G20.0	1319.4	1323.7	1326.6							
G21.0	1309.5	1313.9	1317.2							
G22.0	1299.6	1303.8	1307.0							
G23.0	1288.4	1293.3	1296.5							
G24.0	1276.3	1281.2	1284.3							
G25.0	1264.6	1269.8	1273.1							
G26.0	1253.0	1258.2	1261.0							
G27.0	1240.5	1245.9	1249.1							
G28.0	1226.7	1232.0	1235.0							
G29.0	1213.9	1219.1	1222.2							
G30.0	1200.3	1205.7	1208.7							
G31.0	1185.3	1192.0	1195.1							
G32.0	1171.2	1178.0	1180.2							
G33.0	1156.4	1162.2	1165.6							
G34.0	1141.8	1147.5	1151.0							
G35.0	1126.2	1132.3	1134.3							
G36.0	1110.8	1116.9	1118.6							

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	1093.6	1099.5	1103.5							
G38.0	1077.2	1083.4	1086.9							
G39.0	1060.5	1066.8	1070.5							
G40.0	1043.3	1049.8	1052.1							
G41.0	1025.1	1031.2	1035.0							
G42.0	1007.7	1013.8	1017.3							
G43.0	990.0	996.0	999.8							
G44.0	971.6	977.9	980.0							
G45.0	951.3	959.9	961.9							
G46.0	932.6	939.3	943.2							
G47.0	913.5	920.5	924.2							
G48.0	894.4	901.5	903.0							
G49.0	874.8	880.3	883.8							
G50.0	853.2	860.4	863.4							
G51.0	833.2	840.5	843.4							
G52.0	812.4	820.1	822.5							
G53.0	790.5	797.2	799.5							
G54.0	769.3	776.3	778.9							
G55.0	748.6	755.2	758.0							
G56.0	726.9	734.0	736.2							
G57.0	703.0	712.5	712.9							
G58.0	681.1	688.4	690.6							
G59.0	658.8	666.6	668.8							
G60.0	636.8	644.5	643.9							
G61.0	614.2	619.8	621.3							
G62.0	589.0	596.9	598.1							
G63.0	566.1	574.1	575.1							
G64.0	542.7	550.7	549.4							
G65.0	519.6	527.2	526.0							
G66.0	493.8	501.7	502.2							
G67.0	470.5	477.9	478.6							
G68.0	446.6	454.0	452.4							
G69.0	422.2	427.8	428.1							
G70.0	395.9	404.0	404.3							
G71.0	371.8	380.0	377.5							
G72.0	348.0	354.4	354.0							
G73.0	322.3	329.5	329.0							

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	297.4	304.9	304.1							
G75.0	271.5	281.0	278.4							
G76.0	246.6	256.1	253.6							
G77.0	223.2	232.2	229.6							
G78.0	200.4	208.0	207.3							
G79.0	175.4	183.3	183.0							
G80.0	153.7	160.7	160.3							
G81.0	130.8	139.3	138.9							
G82.0	109.9	117.2	116.9							
G83.0	89.8	96.4	95.9							
G84.0	71.5	77.9	77.7							
G85.0	54.0	59.6	59.2							
G86.0	38.4	43.7	43.4							
G87.0	25.7	29.6	29.4							
G88.0	15.0	17.8	17.9							
G89.0	7.0	8.5	8.0							
G90.0	1.4	1.5	0.9							
G91.0	10.5	5.1	2.4							
G92.0	27.1	13.1	6.7							
G93.0	45.0	23.8	13.1							
G94.0	61.8	35.2	20.6							
G95.0	79.2	47.9	29.0							
G96.0	93.7	61.7	37.7							
G97.0	105.9	76.7	47.5							
G98.0	116.4	93.8	58.9							
G99.0	126.1	112.2	72.3							
G100.0	136.6	132.7	88.5							
G101.0	146.9	151.4	104.7							
G102.0	156.9	172.3	123.0							
G103.0	167.2	189.8	142.1							
G104.0	176.8	207.5	161.2							
G105.0	186.1	225.9	180.2							
G106.0	194.9	244.7	199.4							
G107.0	202.5	262.0	219.5							
G108.0	209.2	277.4	241.1							
G109.0	214.4	294.2	261.2							
G110.0	219.2	309.3	283.2							

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	222.5	325.3	303.2							
G112.0	225.1	339.9	322.5							
G113.0	226.6	354.1	340.9							
G114.0	227.3	367.7	359.3							
G115.0	227.4	382.0	378.4							
G116.0	226.9	393.7	394.9							
G117.0	225.9	404.6	410.4							
G118.0	224.7	413.7	424.1							
G119.0	223.3	421.7	436.5							
G120.0	221.9	427.1	447.8							
G121.0	220.3	430.5	455.9							
G122.0	218.9	432.4	462.0							
G123.0	217.7	432.6	466.0							
G124.0	216.7	431.1	468.2							
G125.0	215.7	428.5	468.5							
G126.0	215.0	425.0	467.4							
G127.0	214.4	420.9	465.1							
G128.0	214.0	415.9	461.8							
G129.0	213.6	410.8	457.4							
G130.0	213.5	405.4	452.9							
G131.0	213.4	399.5	448.0							
G132.0	213.4	393.8	442.8							
G133.0	213.6	388.3	437.0							
G134.0	213.8	382.7	431.2							
G135.0	214.0	377.1	425.4							
G136.0	214.3	371.7	419.4							
G137.0	214.7	365.9	412.8							
G138.0	215.0	360.8	406.8							
G139.0	215.3	355.9	400.6							
G140.0	215.7	350.6	394.5							
G141.0	216.1	346.0	388.5							
G142.0	216.5	341.5	381.9							
G143.0	216.8	337.0	376.1							
G144.0	217.2	332.3	370.5							
G145.0	217.6	328.0	365.0							
G146.0	217.9	323.9	359.0							
G147.0	218.3	319.6	353.7							

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	218.7	315.4	348.5							
G149.0	219.2	311.2	343.3							
G150.0	219.6	306.6	338.1							
G151.0	220.1	302.2	332.8							
G152.0	220.4	298.0	326.9							
G153.0	220.8	293.4	321.5							
G154.0	221.2	289.0	316.2							
G155.0	221.6	284.8	310.6							
G156.0	222.0	280.3	304.5							
G157.0	222.3	275.6	298.9							
G158.0	222.5	271.5	293.2							
G159.0	222.8	267.4	287.5							
G160.0	223.1	263.4	281.8							
G161.0	223.2	259.5	276.4							
G162.0	223.4	255.9	270.7							
G163.0	223.6	252.1	265.6							
G164.0	223.8	248.8	260.9							
G165.0	223.9	245.8	256.3							
G166.0	224.0	243.0	251.6							
G167.0	224.1	240.2	247.8							
G168.0	224.1	237.9	244.3							
G169.0	224.1	235.6	240.7							
G170.0	224.0	233.7	237.7							
G171.0	223.9	231.9	235.0							
G172.0	223.8	230.1	232.6							
G173.0	223.5	228.6	230.6							
G174.0	223.3	227.2	228.6							
G175.0	223.1	226.0	226.8							
G176.0	222.8	225.0	225.3							
G177.0	222.6	223.9	224.1							
G178.0	222.3	223.0	222.9							
G179.0	222.2	222.4	222.0							
G180.0	222.0	222.1	221.6							

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	15858.06
L 0-180(75) av	13273.25
L 0-180(85) av	7455.03
L 90-270(65) av	16452.53
L 90-270(75) av	14176.55
L 90-270(85) av	8143.15
L 45(65) av	16149.59
L 45(75) av	13714.94
L 45(85) av	7774.28

Standard: GB/T 29293-2012