

Report No.: MSTLAB241101023

Test Time: 2024/11/1 22:12

Luminaire Property

Luminaire Manufacturer: MESTER

Luminaire Category:

Luminaire Description: MALL014F40W27V35K(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: 120.2 V

Current: 0.334 A

Power: 39.93 W

Power Factor: 0.995

Photometric Results

CIE Class: General Diffuse

Measurement Flux: 5473.4 lm

Downward Ratio: 57%

Total Rated Lamp Lumens: 5473.4 lm

Efficiency: 100%

Upward Ratio: 43%

Horizontal Diffuse Angle(10%,50%,75%,100%): H160.4,H112.8,H76.7,H0

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

Luminaire Efficacy Rating (LER): 137.12

C0r0 Intensity: 1091.7 cd

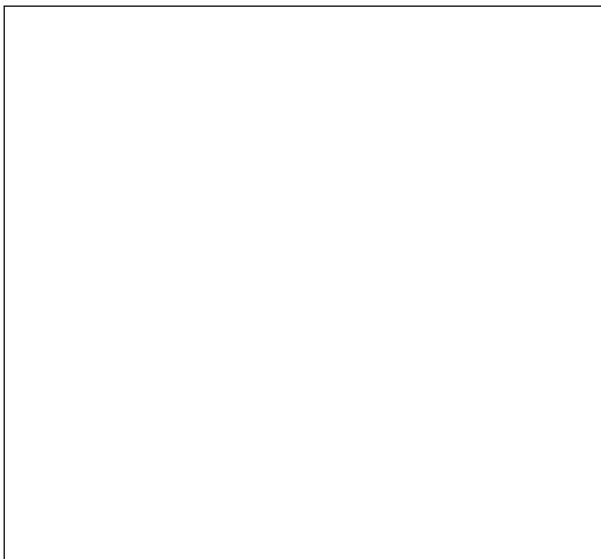
Max. Intensity: 1094.21 cd

Pos of Max. Intensity: H120 V1

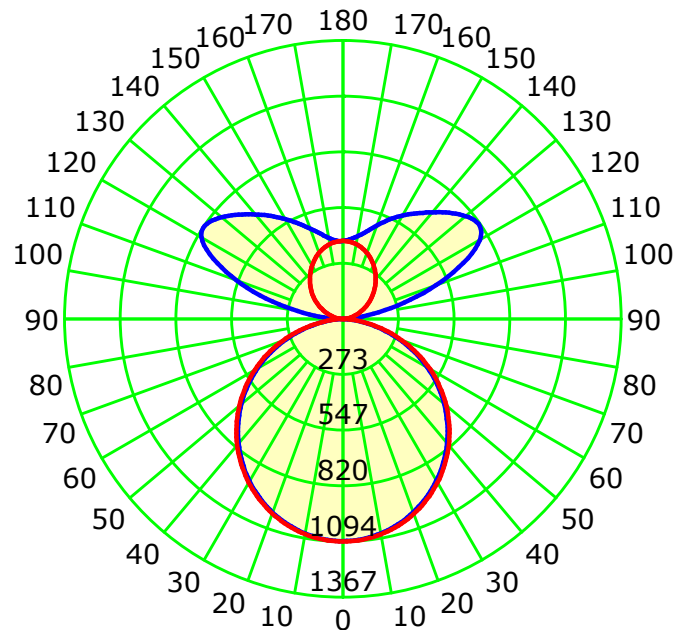
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 210.4°

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

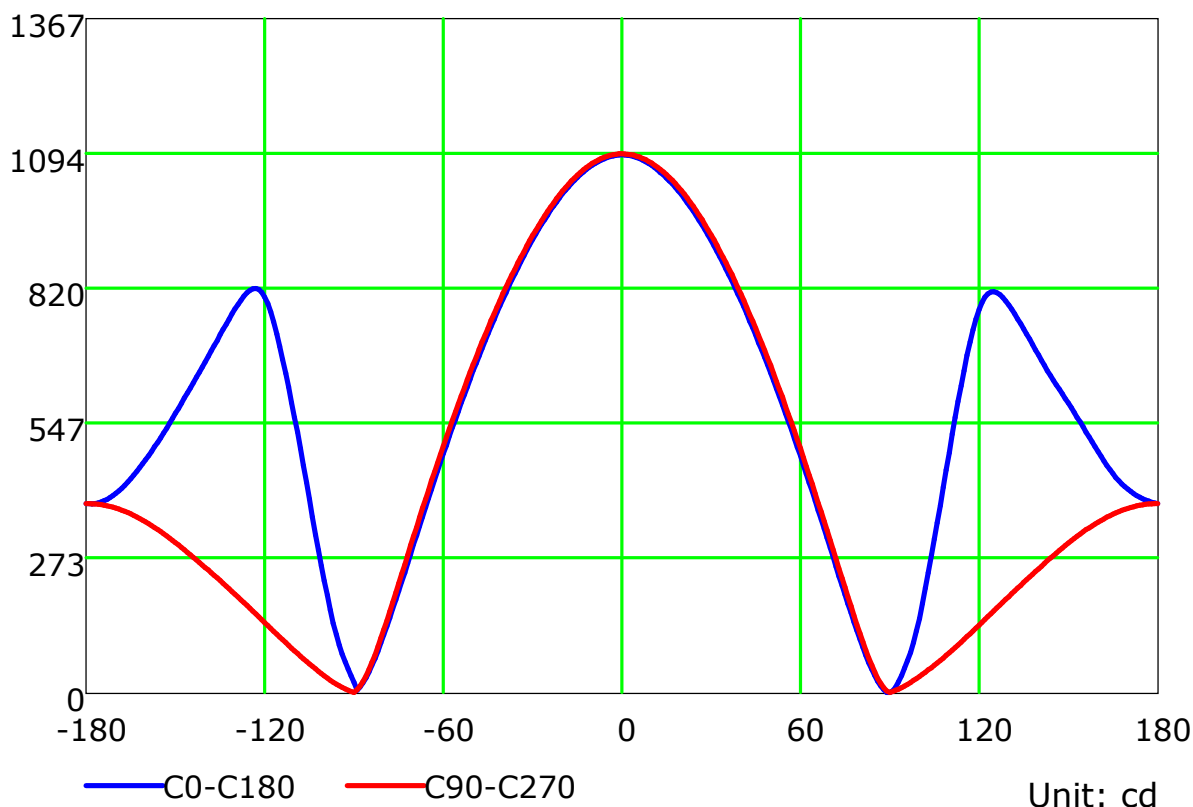
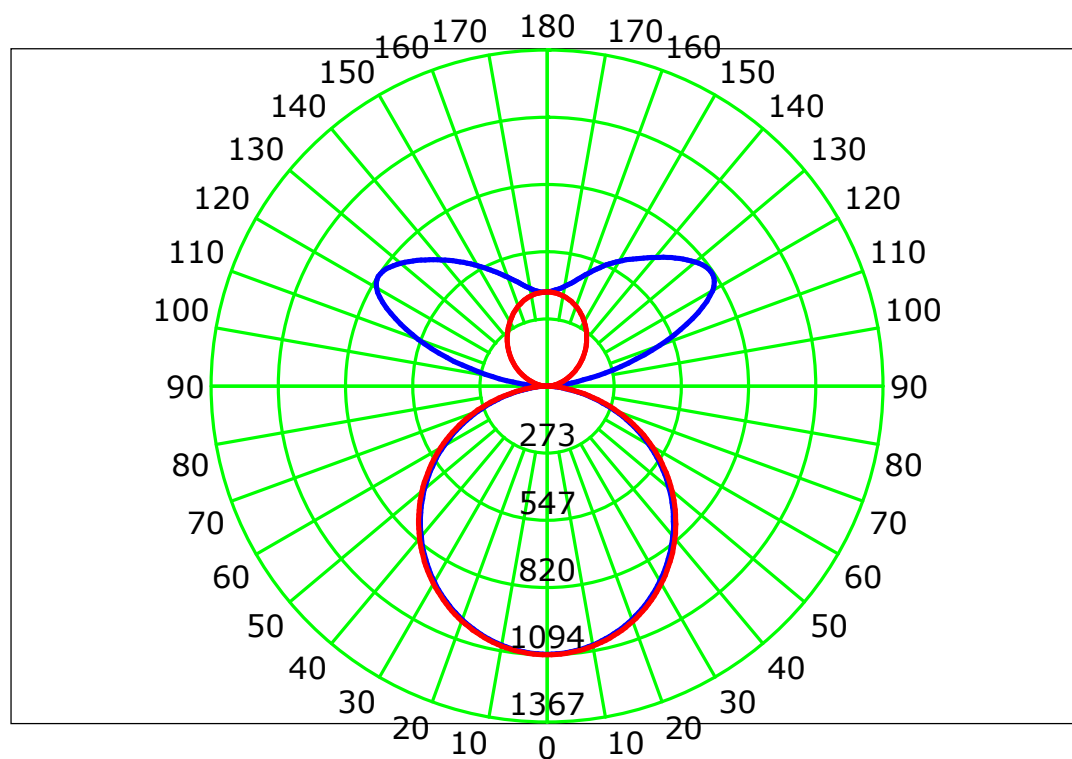
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0900]

Humidity: 45% R.H

Inspector:

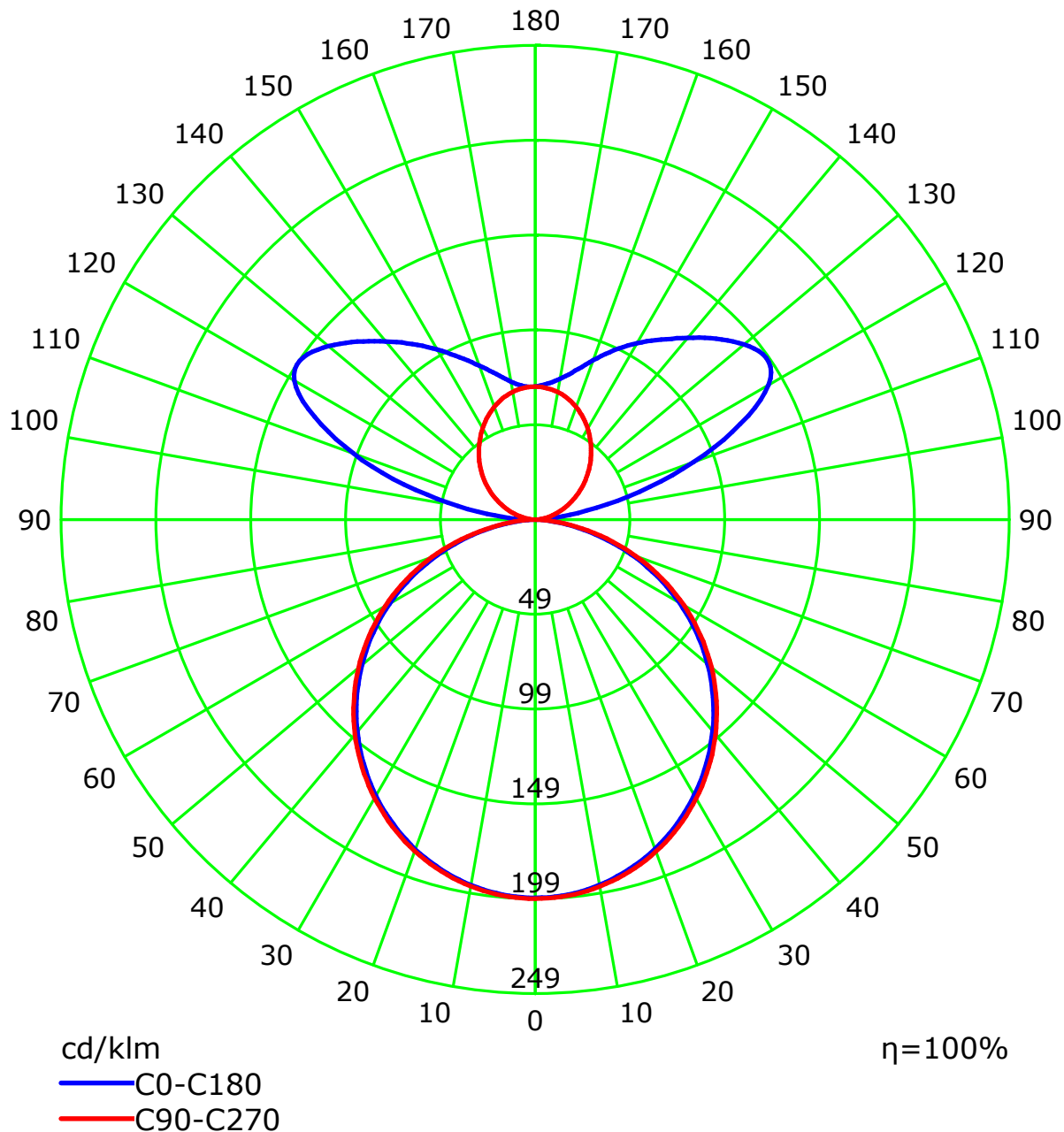
Luminous Intensity Distribution Curve



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:

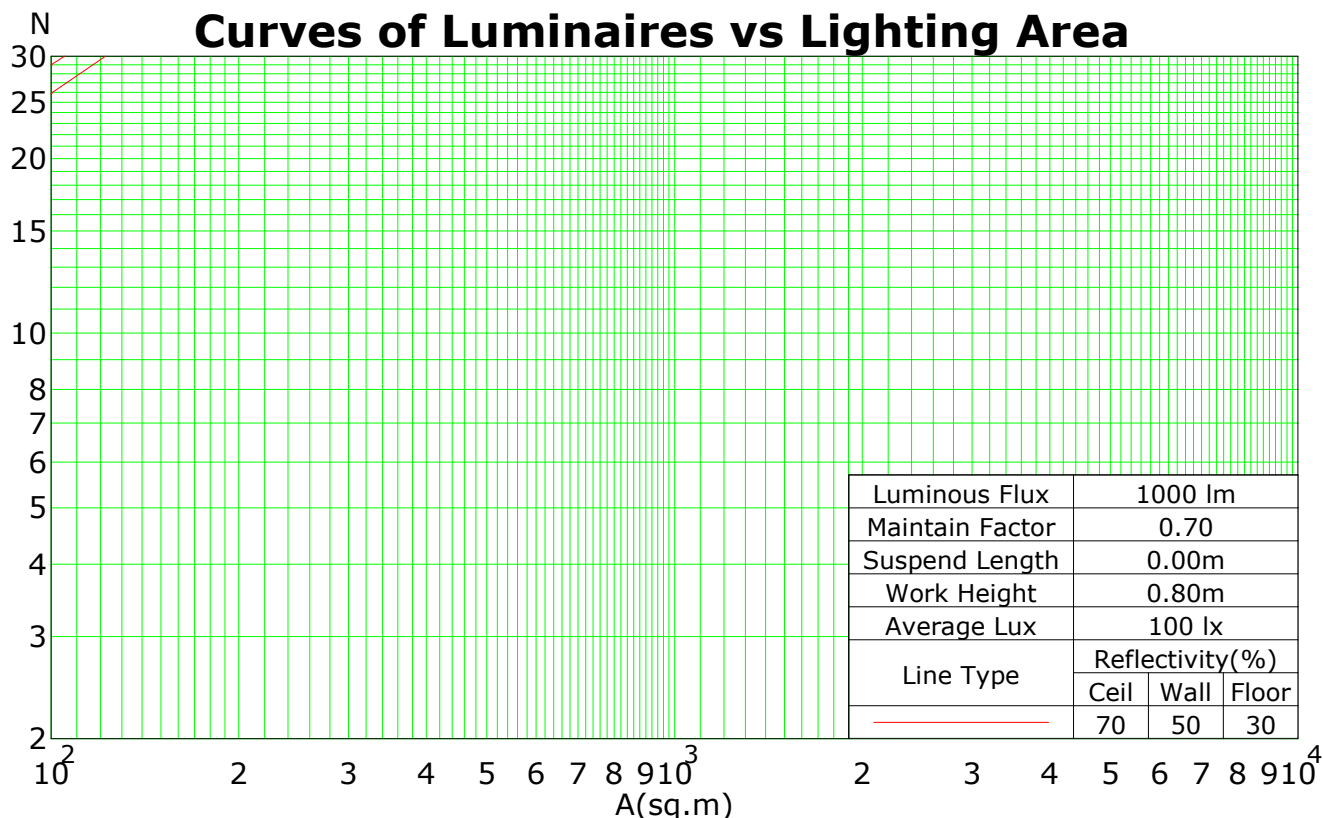
Coefficients Of Utilization - Zonal Cavity Method

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	1.09	1.09	1.09	1.09	1.01	1.01	1.01	1.01	0.87	0.87	0.87	0.75	0.75	0.75	0.63	0.63	0.63	0.57
1	0.99	0.95	0.91	0.87	0.92	0.88	0.85	0.82	0.77	0.74	0.72	0.66	0.64	0.62	0.55	0.54	0.53	0.48
2	0.90	0.83	0.76	0.71	0.84	0.77	0.72	0.67	0.67	0.63	0.59	0.57	0.54	0.51	0.48	0.46	0.44	0.40
3	0.82	0.72	0.65	0.59	0.76	0.68	0.61	0.56	0.59	0.54	0.49	0.50	0.47	0.43	0.43	0.40	0.37	0.34
4	0.75	0.64	0.56	0.50	0.70	0.60	0.53	0.47	0.52	0.46	0.42	0.45	0.40	0.37	0.38	0.35	0.32	0.29
5	0.69	0.57	0.49	0.42	0.64	0.53	0.46	0.40	0.46	0.41	0.36	0.40	0.35	0.32	0.34	0.31	0.28	0.25
6	0.63	0.51	0.43	0.37	0.59	0.48	0.40	0.35	0.42	0.36	0.31	0.36	0.31	0.28	0.31	0.27	0.24	0.22
7	0.59	0.46	0.38	0.32	0.54	0.43	0.36	0.30	0.38	0.32	0.27	0.33	0.28	0.24	0.28	0.24	0.22	0.19
8	0.54	0.42	0.34	0.28	0.50	0.39	0.32	0.27	0.34	0.29	0.24	0.30	0.25	0.22	0.26	0.22	0.19	0.17
9	0.51	0.38	0.30	0.25	0.47	0.36	0.29	0.24	0.32	0.26	0.22	0.28	0.23	0.20	0.24	0.20	0.17	0.15
10	0.47	0.35	0.27	0.23	0.44	0.33	0.26	0.22	0.29	0.23	0.20	0.25	0.21	0.18	0.22	0.18	0.16	0.14

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.26

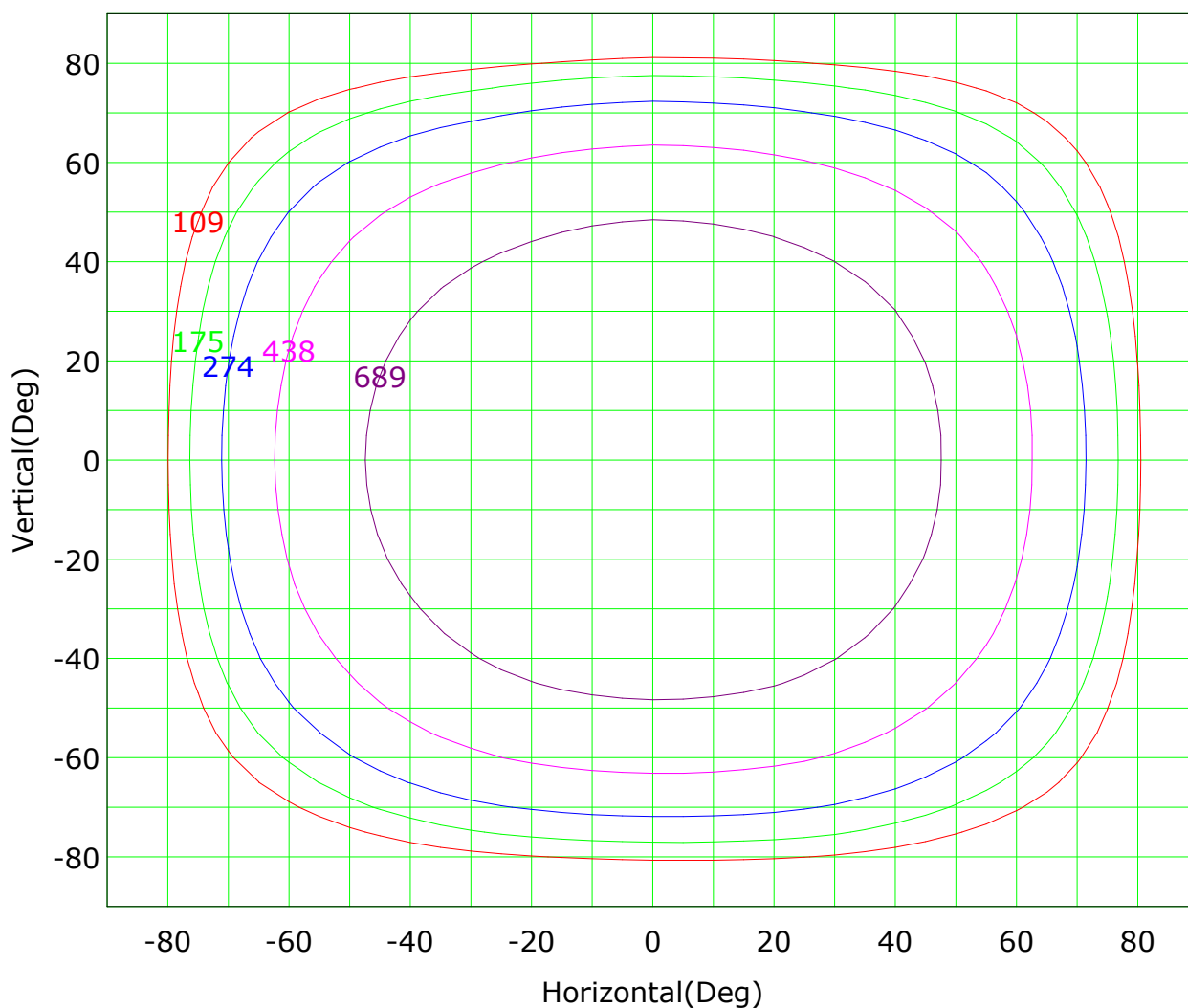
Spacing Criteria (Diagonal): 1.38



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:

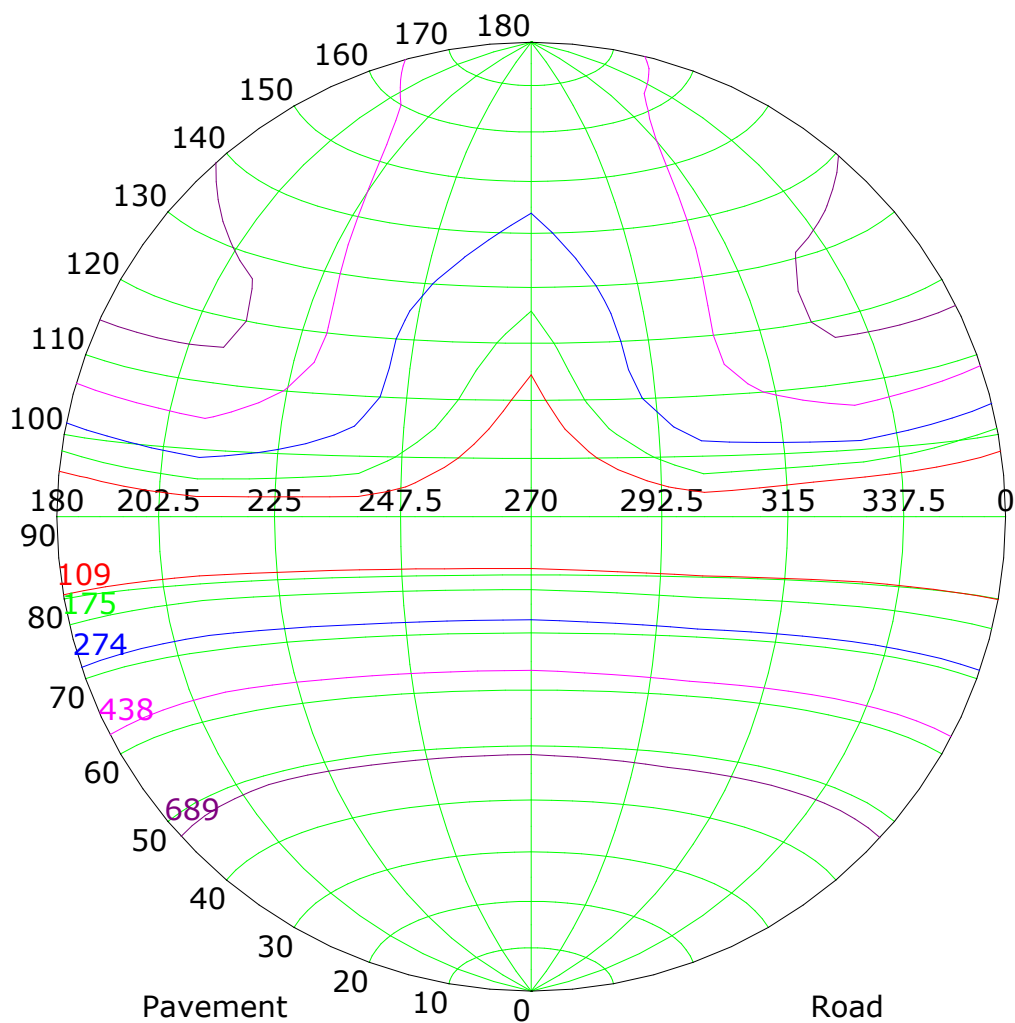
Isocandela (rectangle)



Imax (100%): 1094 cd

(10%): 109 cd	(16%): 175 cd
(25%): 274 cd	(40%): 438 cd
(63%): 689 cd	(100%): 1094 cd

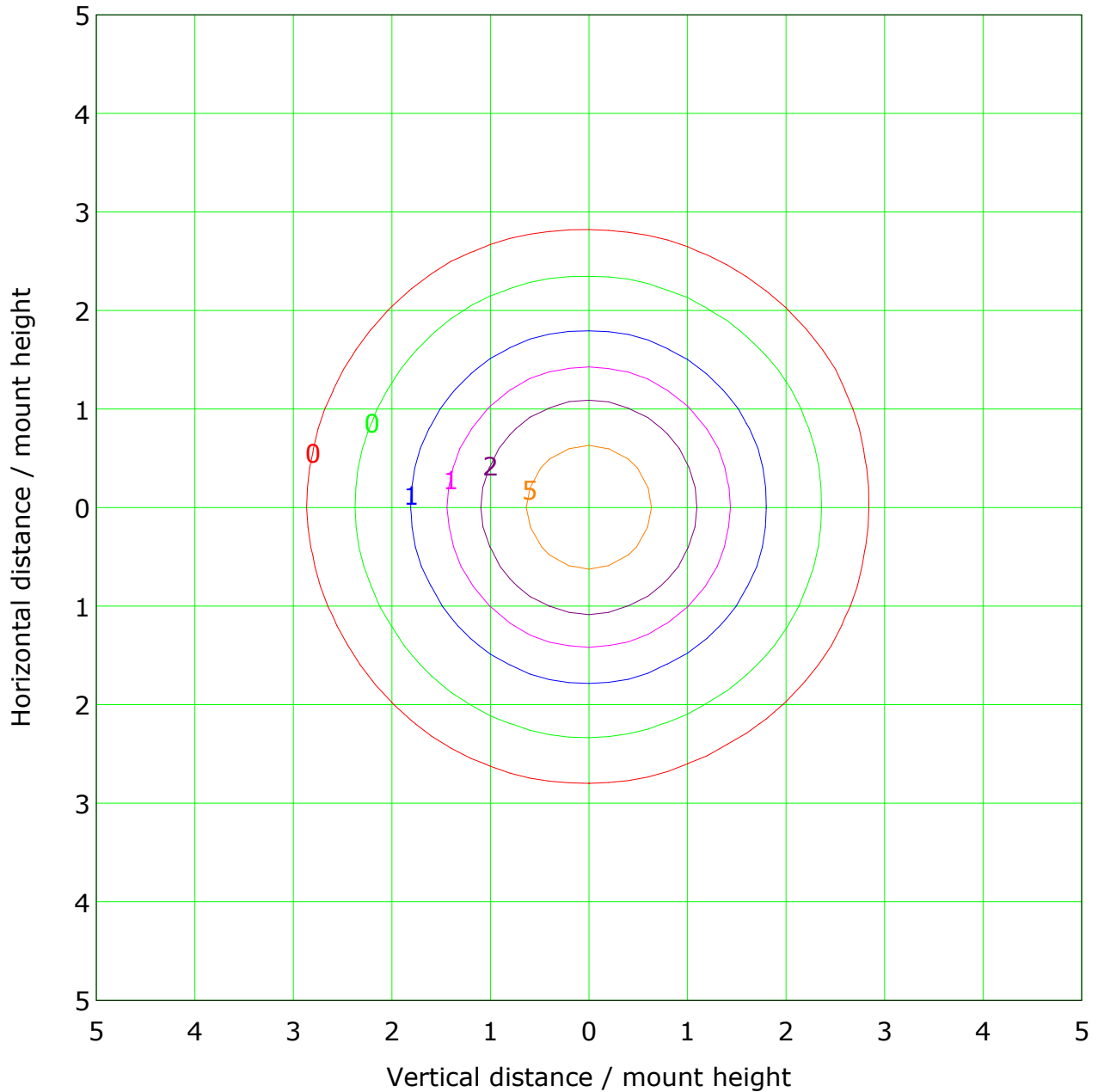
Isocandela (sphere)



Imax (100%): 1094 cd

(10%): 109 cd	(16%): 175 cd
(25%): 274 cd	(40%): 438 cd
(63%): 689 cd	(100%): 1094 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 10.9 lx

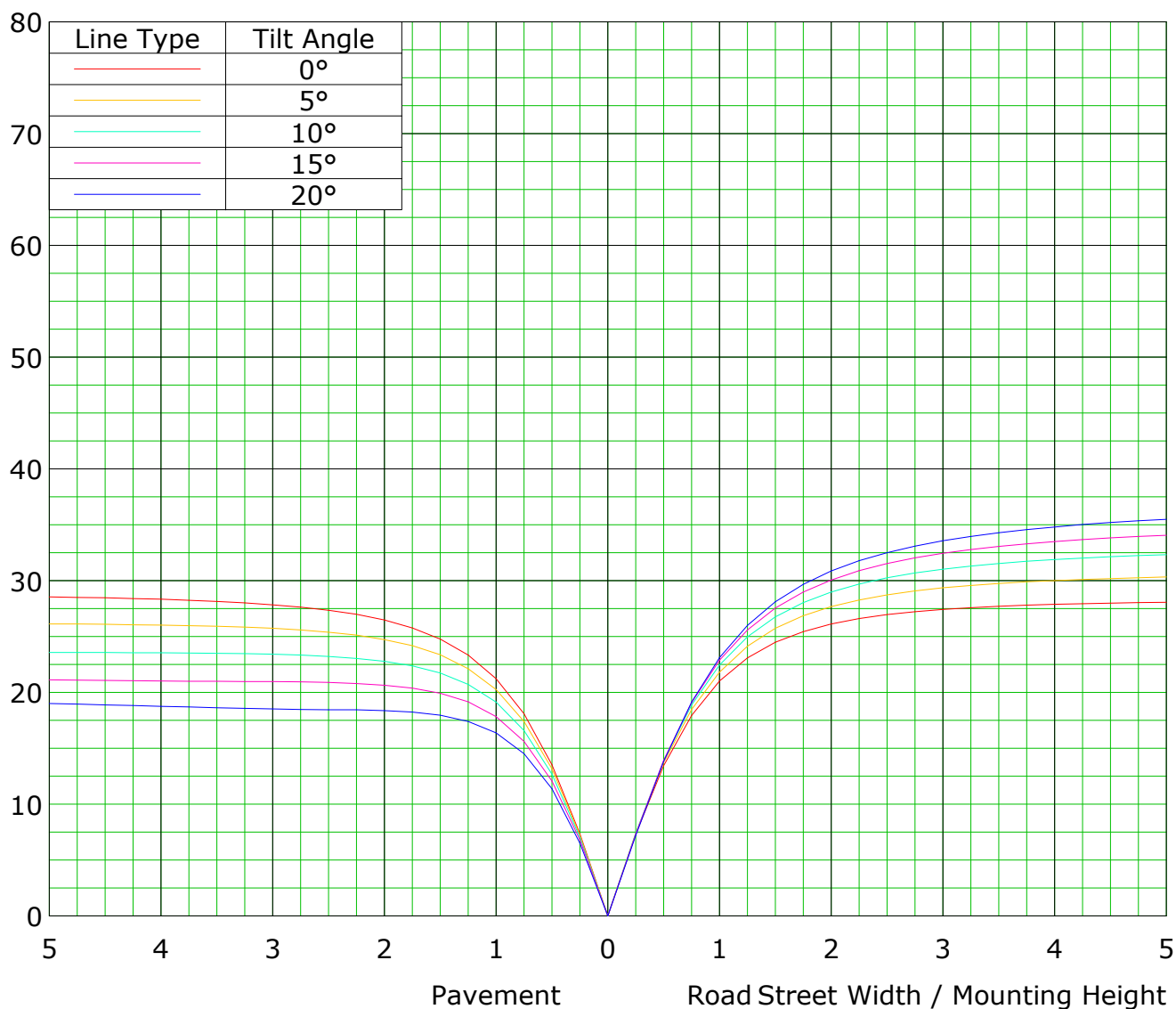
(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.5 lx	(10%): 1.1 lx
(20%): 2.2 lx	(50%): 5.5 lx
(100%): 10.9 lx	

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(%)



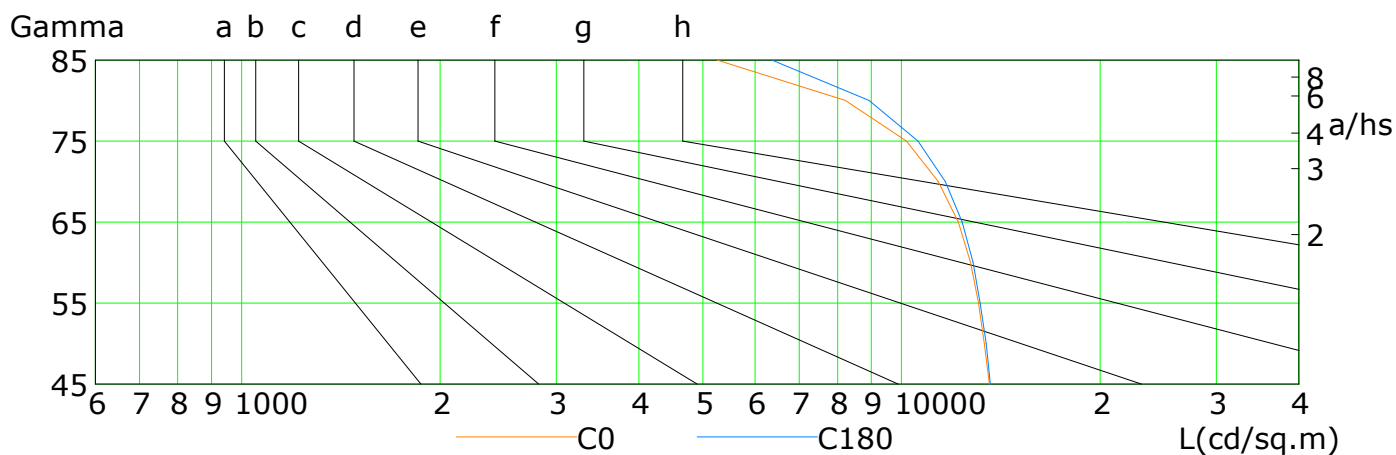
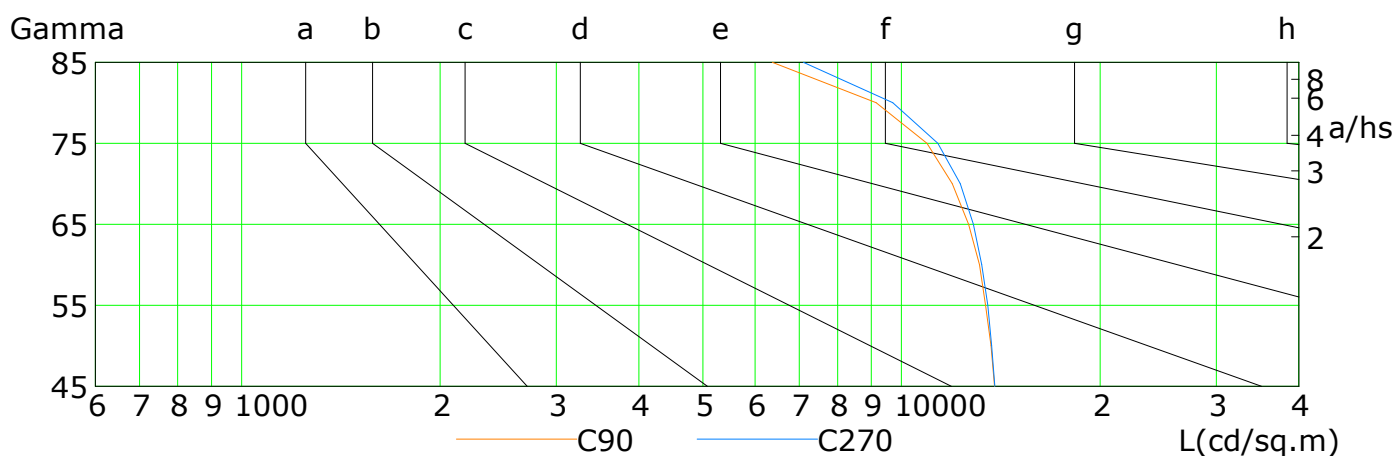
C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: Yanzhao Sun

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

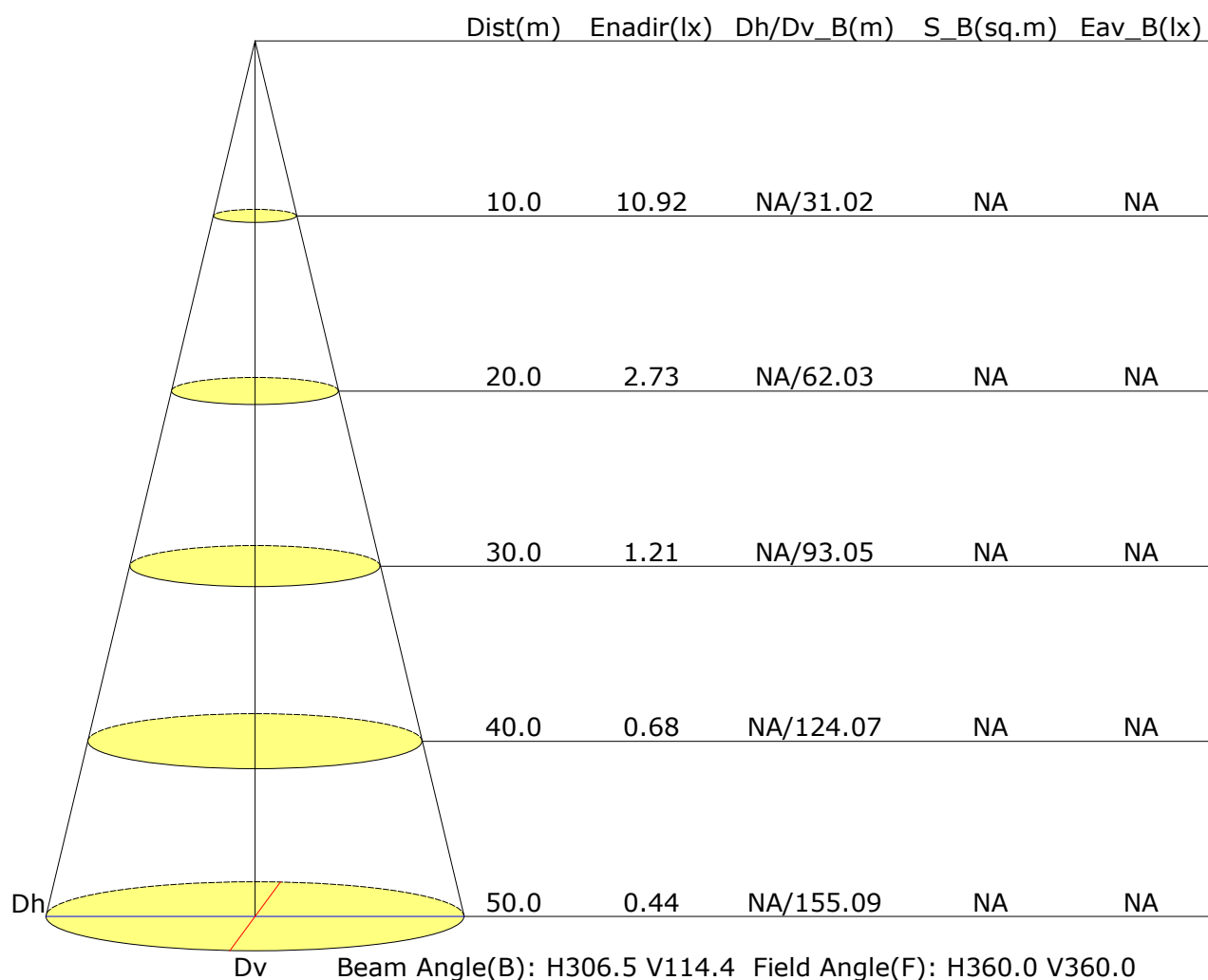


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13586	13349	13081	12723	12194	11367	10174	8218	5257
C90	13838	13670	13409	13130	12633	11940	10934	9150	6372
C180	13634	13445	13164	12833	12354	11645	10588	8932	6364
C270	13844	13704	13515	13228	12848	12275	11357	9704	7102

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:

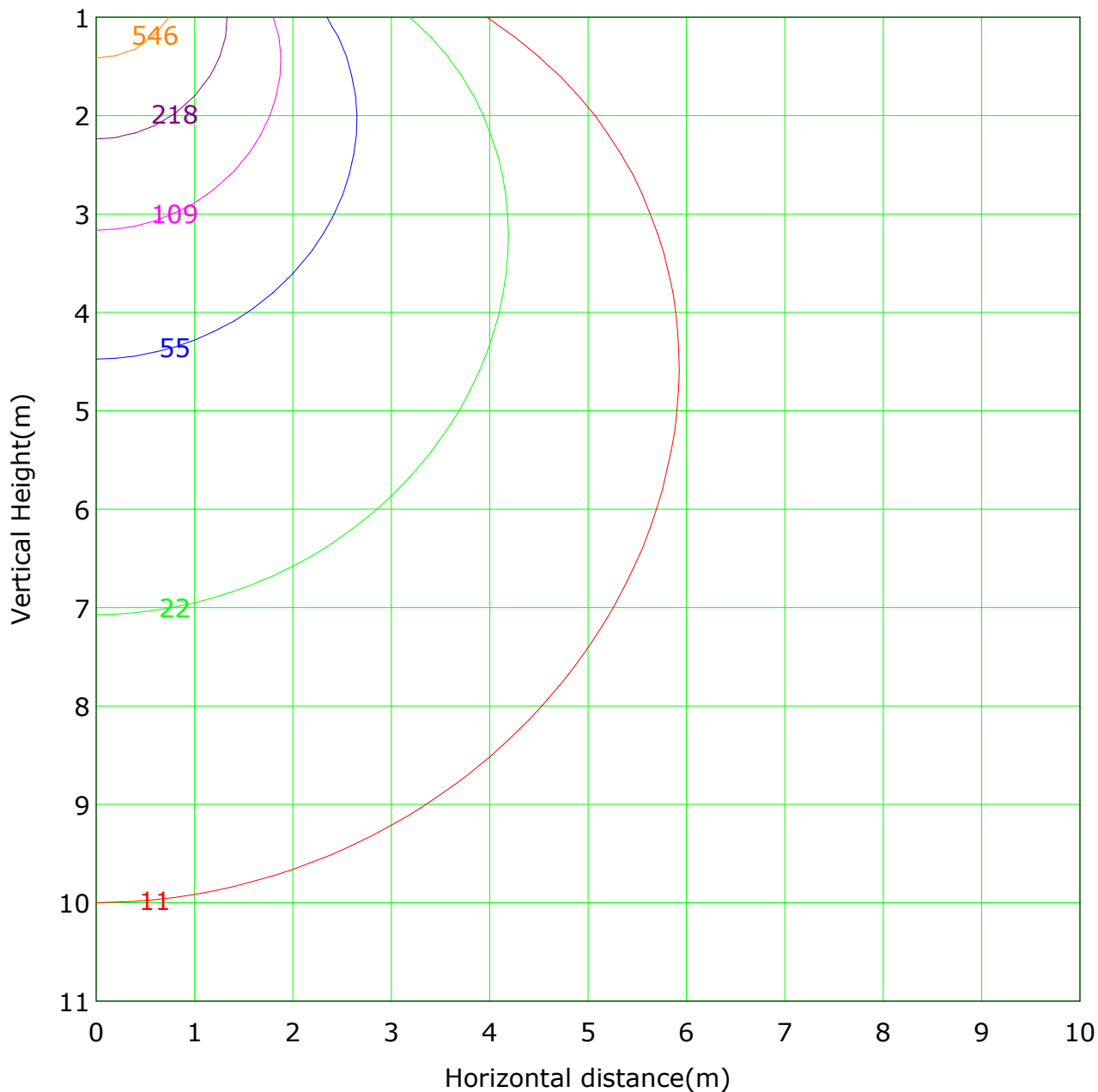
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1091.7 lx
— (1%): 10.9 lx — (2%): 21.8 lx
— (5%): 54.6 lx — (10%): 109.2 lx
— (20%): 218.3 lx — (50%): 545.8 lx
— (100%):1091.7 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:

Area Flux Table

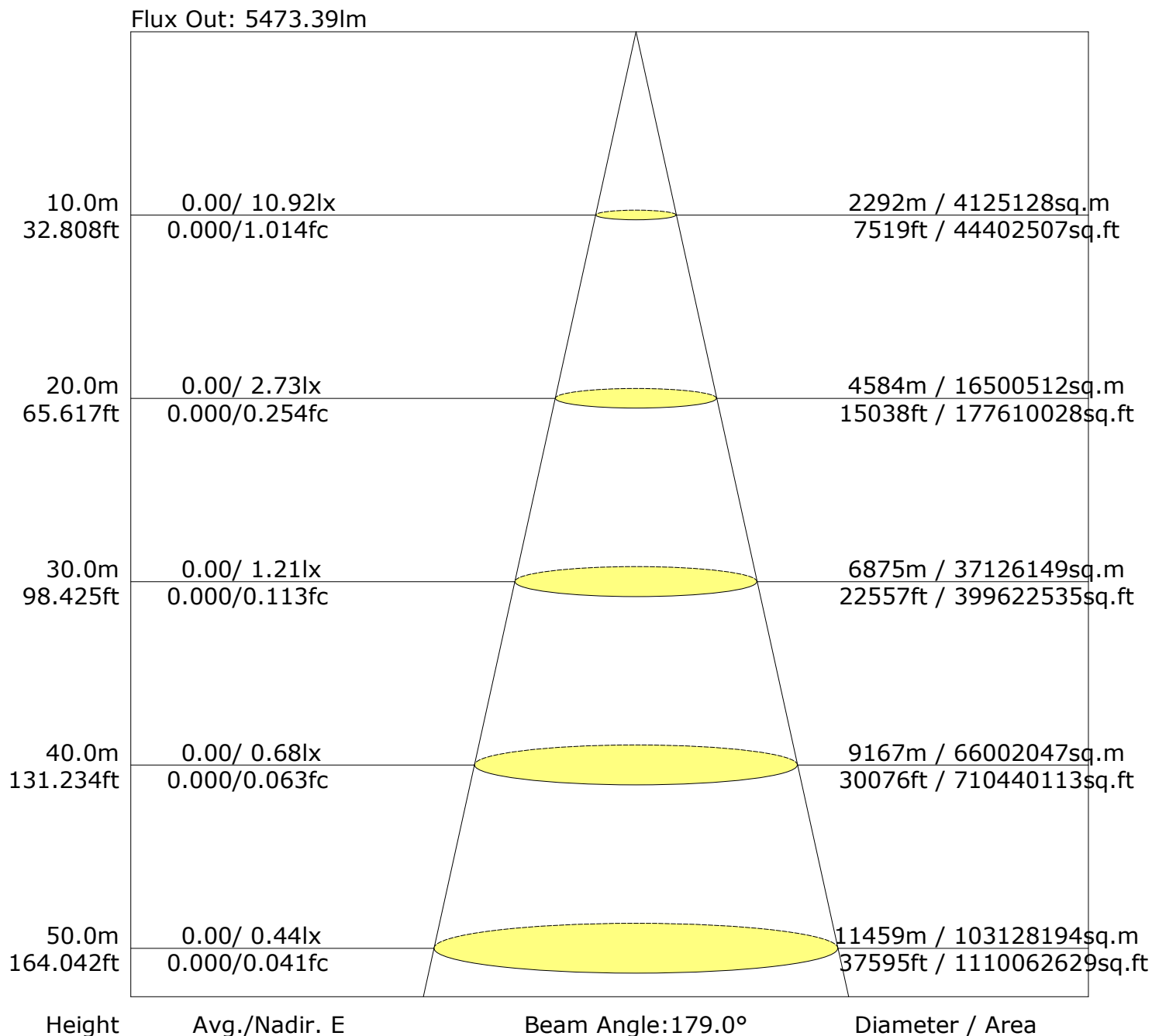
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.0	0.1	0.3	0.5	0.8	1.1	1.3	1.5	1.6	1.5	1.3	1.1	0.8	0.5	0.3	0.1	0.0	0.0	0.0
0.0	1.9	14.7	51.9	105.8	169.4	234.5	292.6	335.9	358.5	357.0	331.7	287.1	228.9	164.5	102.0	49.4	13.3	0.0	1.5	3143
1.9	17.8	14.7	51.9	105.8	169.4	234.5	292.6	335.9	358.5	357.0	331.7	287.1	228.9	164.5	102.0	49.4	13.3	0.0	1.5	3143
17.8	147.8	147.8	519.4	1058.1	1694.2	2345.1	2926.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143
147.8	1478.1	1478.1	5194.2	10581.1	16942.3	23451.2	29263.4	33593.3	35855.5	35703.3	33177.7	28711.1	22891.1	16451.1	10200.0	49.4	13.3	0.0	1.5	3143
51.9	519.4	519.4	1058.1	1694.2	2345.1	2926.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097
105.8	1058.1	1058.1	1694.2	2345.1	2926.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097
169.4	1694.2	1694.2	2345.1	2926.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097
234.5	2345.1	2345.1	2926.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097
292.6	2926.3	2926.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097
335.9	3359.3	3359.3	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097
358.5	3585.5	3585.5	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097
357.0	3570.3	3570.3	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097
331.7	3317.7	3317.7	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097
287.1	2871.1	2871.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097
228.9	2289.1	2289.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097
164.5	1645.1	1645.1	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097
102.0	1020.0	1020.0	49.4	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097
49.4	494.0	494.0	13.3	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097
13.3	133.0	133.0	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097
0.0	0.0	0.0	1.5	3143	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097	3097

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



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:

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	17.9	18.9	18.8	19.8	20.9	18.2	19.1	19.0	20.0	21.2
3H	19.7	20.5	20.6	21.4	22.6	19.9	20.8	20.8	21.7	22.9
4H	20.3	21.1	21.2	22.0	23.2	20.6	21.4	21.5	22.3	23.5
6H	20.6	21.4	21.6	22.3	23.5	21.0	21.7	21.9	22.7	23.9
8H	20.7	21.4	21.6	22.4	23.6	21.1	21.8	22.0	22.8	24.0
12H	20.7	21.4	21.7	22.3	23.6	21.1	21.8	22.1	22.7	24.0
X=4H Y=2H	18.5	19.3	19.4	20.2	21.4	18.7	19.5	19.6	20.4	21.6
3H	20.4	21.1	21.4	22.1	23.3	20.7	21.4	21.6	22.3	23.6
4H	21.1	21.8	22.1	22.7	23.9	21.5	22.1	22.4	23.0	24.3
6H	21.6	22.1	22.6	23.1	24.3	22.0	22.5	23.0	23.5	24.7
8H	21.7	22.2	22.7	23.2	24.4	22.1	22.6	23.1	23.6	24.9
12H	21.8	22.2	22.7	23.2	24.4	22.2	22.6	23.2	23.6	24.9
X=8H Y=4H	21.4	21.9	22.3	22.8	24.1	21.7	22.2	22.7	23.2	24.4
6H	21.9	22.4	22.9	23.4	24.6	22.3	22.8	23.3	23.8	25.0
8H	22.1	22.5	23.1	23.5	24.8	22.6	22.9	23.5	23.9	25.2
12H	22.2	22.5	23.2	23.5	24.8	22.7	23.0	23.7	24.0	25.3
X=12H Y=4H	21.4	21.8	22.4	22.8	24.1	21.7	22.1	22.7	23.1	24.4
6H	22.0	22.3	23.0	23.3	24.6	22.4	22.7	23.4	23.7	25.0
8H	22.2	22.5	23.2	23.5	24.8	22.6	22.9	23.6	23.9	25.2

Calculate in accordance with CIE 190:2010 The table is revised with 5473lm ($8\log(F/F_0) = 5.9$).

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

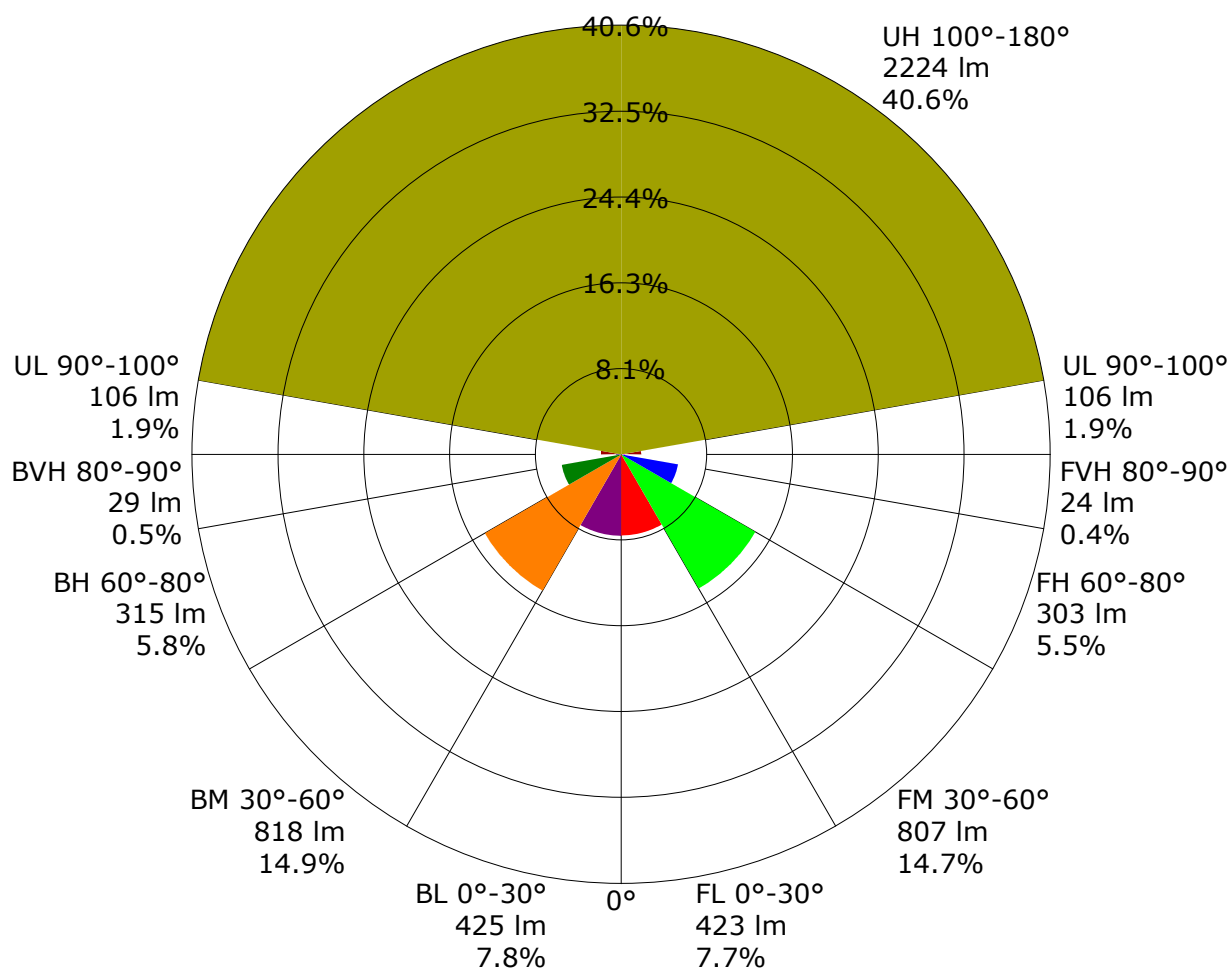
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1556	28.4
	FL (0°-30°)	423	7.7
	FM (30°-60°)	807	14.7
	FH (60°-80°)	303	5.5
	FVH (80°-90°)	24	0.4
	BACK LIGHT	1587	29.0
	BL (0°-30°)	425	7.8
	BM (30°-60°)	818	14.9
	BH (60°-80°)	315	5.8
	BVH (80°-90°)	29	0.5
	UP LIGHT	2330	42.6
	UL (90°-100°)	106	1.9
	UH (100°-180°)	2224	40.6
	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	0.63	0.68	0.75	0.79	0.82	0.87	0.90	
	0.30		0.40	0.49	0.56	0.61	0.69	0.74	0.78	0.83	0.86	
	0.20		0.35	0.44	0.51	0.56	0.64	0.70	0.74	0.80	0.83	
0.50	0.50	0.20	0.42	0.50	0.55	0.59	0.65	0.69	0.72	0.75	0.78	
	0.30		0.36	0.44	0.50	0.54	0.61	0.65	0.68	0.72	0.75	
	0.20		0.32	0.41	0.46	0.50	0.57	0.62	0.65	0.70	0.73	
0.30	0.50	0.20	0.36	0.43	0.48	0.51	0.56	0.59	0.62	0.65	0.67	
	0.30		0.32	0.39	0.44	0.48	0.53	0.57	0.59	0.63	0.65	
	0.20		0.28	0.35	0.41	0.45	0.50	0.54	0.57	0.61	0.63	
0.00	0.00	0.00	0.23	0.28	0.32	0.35	0.40	0.43	0.45	0.48	0.49	
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	0.91	0.75	0.64	0.56	0.45	0.37	0.32	0.25	0.20	
	0.30		0.76	0.64	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.65	0.56	0.50	0.45	0.37	0.31	0.27	0.22	0.18	
0.50	0.50	0.20	0.78	0.65	0.55	0.48	0.38	0.34	0.27	0.21	0.17	
	0.30		0.66	0.56	0.49	0.43	0.35	0.29	0.25	0.20	0.16	
	0.20		0.58	0.50	0.44	0.39	0.32	0.27	0.24	0.19	0.16	
0.30	0.50	0.20	0.67	0.55	0.47	0.41	0.32	0.27	0.23	0.18	0.14	
	0.30		0.58	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
	0.20		0.50	0.43	0.38	0.34	0.28	0.23	0.20	0.16	0.13	
0.00	0.00	0.00	0.35	0.29	0.25	0.22	0.18	0.15	0.13	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	0.57	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.62	
	0.30		0.51	0.52	0.54	0.55	0.56	0.57	0.58	0.59	0.59	
	0.20		0.47	0.48	0.49	0.50	0.52	0.54	0.55	0.56	0.57	
0.50	0.50	0.20	0.55	0.56	0.57	0.57	0.58	0.58	0.59	0.59	0.59	
	0.30		0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.57	
	0.20		0.46	0.47	0.49	0.50	0.51	0.52	0.53	0.55	0.55	
0.30	0.50	0.20	0.54	0.54	0.55	0.55	0.56	0.56	0.56	0.57	0.57	
	0.30		0.49	0.50	0.51	0.52	0.53	0.53	0.54	0.55	0.55	
	0.20		0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	
0.00	0.00	0.00	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	
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	1093.1	1.0	1.0	0.02	0.02
1.0-2.0	1092.6	3.1	4.2	0.06	0.08
2.0-3.0	1091.8	5.2	9.4	0.10	0.17
3.0-4.0	1090.7	7.3	16.7	0.13	0.31
4.0-5.0	1089.0	9.4	26.1	0.17	0.48
5.0-6.0	1087.0	11.4	37.5	0.21	0.69
6.0-7.0	1084.6	13.5	51.0	0.25	0.93
7.0-8.0	1081.8	15.5	66.5	0.28	1.21
8.0-9.0	1078.7	17.5	83.9	0.32	1.53
9.0-10.0	1075.2	19.5	103.4	0.36	1.89
10.0-11.0	1071.2	21.4	124.8	0.39	2.28
11.0-12.0	1066.9	23.3	148.1	0.43	2.71
12.0-13.0	1062.2	25.2	173.3	0.46	3.17
13.0-14.0	1057.2	27.1	200.4	0.49	3.66
14.0-15.0	1051.9	28.9	229.3	0.53	4.19
15.0-16.0	1046.2	30.7	259.9	0.56	4.75
16.0-17.0	1040.0	32.4	292.3	0.59	5.34
17.0-18.0	1033.5	34.1	326.4	0.62	5.96
18.0-19.0	1026.7	35.7	362.1	0.65	6.62
19.0-20.0	1019.6	37.3	399.5	0.68	7.30
20.0-21.0	1012.0	38.9	438.3	0.71	8.01
21.0-22.0	1004.2	40.4	478.7	0.74	8.75
22.0-23.0	996.0	41.8	520.5	0.76	9.51
23.0-24.0	987.5	43.2	563.7	0.79	10.30
24.0-25.0	978.7	44.5	608.2	0.81	11.11
25.0-26.0	969.6	45.8	654.0	0.84	11.95
26.0-27.0	960.1	47.0	700.9	0.86	12.81
27.0-28.0	950.2	48.1	749.0	0.88	13.69
28.0-29.0	940.2	49.2	798.2	0.90	14.58
29.0-30.0	929.8	50.2	848.5	0.92	15.50
30.0-31.0	919.1	51.2	899.6	0.93	16.44
31.0-32.0	908.2	52.0	951.6	0.95	17.39
32.0-33.0	897.0	52.9	1004.5	0.97	18.35
33.0-34.0	885.4	53.6	1058.1	0.98	19.33
34.0-35.0	873.5	54.3	1112.3	0.99	20.32
35.0-36.0	861.6	54.9	1167.2	1.00	21.33

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	849.3	55.4	1222.6	1.01	22.34
37.0-38.0	836.7	55.9	1278.5	1.02	23.36
38.0-39.0	823.9	56.2	1334.7	1.03	24.39
39.0-40.0	810.8	56.6	1391.3	1.03	25.42
40.0-41.0	797.4	56.8	1448.1	1.04	26.46
41.0-42.0	783.8	57.0	1505.0	1.04	27.50
42.0-43.0	769.9	57.0	1562.0	1.04	28.54
43.0-44.0	755.8	57.1	1619.1	1.04	29.58
44.0-45.0	741.5	57.0	1676.1	1.04	30.62
45.0-46.0	726.9	56.9	1732.9	1.04	31.66
46.0-47.0	712.0	56.6	1789.6	1.03	32.70
47.0-48.0	697.1	56.4	1845.9	1.03	33.73
48.0-49.0	682.0	56.0	1902.0	1.02	34.75
49.0-50.0	666.4	55.6	1957.5	1.02	35.76
50.0-51.0	650.6	55.1	2012.6	1.01	36.77
51.0-52.0	634.7	54.5	2067.0	1.00	37.77
52.0-53.0	618.7	53.8	2120.9	0.98	38.75
53.0-54.0	602.2	53.1	2174.0	0.97	39.72
54.0-55.0	585.5	52.3	2226.2	0.96	40.67
55.0-56.0	568.9	51.4	2277.6	0.94	41.61
56.0-57.0	552.0	50.5	2328.1	0.92	42.54
57.0-58.0	534.7	49.5	2377.6	0.90	43.44
58.0-59.0	517.5	48.4	2426.0	0.88	44.32
59.0-60.0	499.9	47.2	2473.2	0.86	45.19
60.0-61.0	482.1	46.0	2519.2	0.84	46.03
61.0-62.0	464.2	44.7	2563.9	0.82	46.84
62.0-63.0	446.2	43.4	2607.3	0.79	47.64
63.0-64.0	427.9	42.0	2649.3	0.77	48.40
64.0-65.0	409.5	40.5	2689.9	0.74	49.14
65.0-66.0	390.8	39.0	2728.9	0.71	49.86
66.0-67.0	372.1	37.4	2766.3	0.68	50.54
67.0-68.0	353.4	35.8	2802.1	0.65	51.19
68.0-69.0	334.4	34.1	2836.2	0.62	51.82
69.0-70.0	315.2	32.4	2868.6	0.59	52.41
70.0-71.0	296.2	30.6	2899.2	0.56	52.97
71.0-72.0	277.0	28.8	2928.0	0.53	53.50

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	257.6	26.9	2955.0	0.49	53.99
73.0-74.0	238.6	25.1	2980.0	0.46	54.45
74.0-75.0	219.7	23.2	3003.3	0.42	54.87
75.0-76.0	200.8	21.3	3024.6	0.39	55.26
76.0-77.0	181.9	19.4	3044.0	0.35	55.61
77.0-78.0	163.4	17.5	3061.5	0.32	55.93
78.0-79.0	145.2	15.6	3077.1	0.29	56.22
79.0-80.0	127.2	13.7	3090.8	0.25	56.47
80.0-81.0	109.8	11.9	3102.7	0.22	56.69
81.0-82.0	93.1	10.1	3112.8	0.18	56.87
82.0-83.0	77.0	8.4	3121.1	0.15	57.02
83.0-84.0	62.0	6.8	3127.9	0.12	57.15
84.0-85.0	48.1	5.2	3133.1	0.10	57.24
85.0-86.0	35.3	3.9	3137.0	0.07	57.31
86.0-87.0	24.1	2.6	3139.6	0.05	57.36
87.0-88.0	14.8	1.6	3141.3	0.03	57.39
88.0-89.0	7.3	0.8	3142.1	0.01	57.41
89.0-90.0	8.6	0.9	3143.0	0.02	57.42
90.0-91.0	19.2	2.1	3145.1	0.04	57.46
91.0-92.0	33.4	3.7	3148.8	0.07	57.53
92.0-93.0	50.4	5.5	3154.3	0.10	57.63
93.0-94.0	68.4	7.5	3161.8	0.14	57.77
94.0-95.0	86.6	9.5	3171.3	0.17	57.94
95.0-96.0	104.9	11.4	3182.7	0.21	58.15
96.0-97.0	123.4	13.4	3196.1	0.25	58.39
97.0-98.0	142.8	15.5	3211.7	0.28	58.68
98.0-99.0	163.2	17.7	3229.4	0.32	59.00
99.0-100.0	184.0	19.9	3249.3	0.36	59.36
100.0-101.0	204.9	22.1	3271.4	0.40	59.77
101.0-102.0	225.9	24.3	3295.6	0.44	60.21
102.0-103.0	246.5	26.4	3322.0	0.48	60.69
103.0-104.0	266.8	28.4	3350.5	0.52	61.21
104.0-105.0	287.0	30.5	3380.9	0.56	61.77
105.0-106.0	306.4	32.4	3413.3	0.59	62.36
106.0-107.0	325.0	34.2	3447.5	0.62	62.99
107.0-108.0	343.5	35.9	3483.4	0.66	63.64

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	361.1	37.6	3521.0	0.69	64.33
109.0-110.0	377.8	39.1	3560.0	0.71	65.04
110.0-111.0	394.3	40.5	3600.5	0.74	65.78
111.0-112.0	410.4	41.9	3642.4	0.77	66.55
112.0-113.0	425.8	43.1	3685.5	0.79	67.34
113.0-114.0	440.6	44.3	3729.9	0.81	68.15
114.0-115.0	454.5	45.4	3775.2	0.83	68.97
115.0-116.0	467.0	46.2	3821.4	0.84	69.82
116.0-117.0	478.2	46.9	3868.4	0.86	70.68
117.0-118.0	487.9	47.5	3915.8	0.87	71.54
118.0-119.0	495.9	47.8	3963.6	0.87	72.42
119.0-120.0	502.2	47.9	4011.6	0.88	73.29
120.0-121.0	506.7	47.9	4059.4	0.87	74.17
121.0-122.0	509.8	47.7	4107.1	0.87	75.04
122.0-123.0	511.4	47.3	4154.4	0.86	75.90
123.0-124.0	511.8	46.8	4201.2	0.86	76.76
124.0-125.0	511.2	46.2	4247.4	0.84	77.60
125.0-126.0	509.8	45.5	4292.9	0.83	78.43
126.0-127.0	507.7	44.8	4337.7	0.82	79.25
127.0-128.0	505.1	43.9	4381.6	0.80	80.05
128.0-129.0	502.3	43.1	4424.7	0.79	80.84
129.0-130.0	499.3	42.2	4467.0	0.77	81.61
130.0-131.0	496.0	41.4	4508.3	0.76	82.37
131.0-132.0	492.8	40.5	4548.8	0.74	83.11
132.0-133.0	489.5	39.6	4588.4	0.72	83.83
133.0-134.0	486.1	38.7	4627.0	0.71	84.54
134.0-135.0	482.8	37.8	4664.8	0.69	85.23
135.0-136.0	479.7	36.9	4701.7	0.67	85.90
136.0-137.0	476.6	36.0	4737.6	0.66	86.56
137.0-138.0	473.5	35.1	4772.7	0.64	87.20
138.0-139.0	470.4	34.2	4806.9	0.62	87.82
139.0-140.0	467.5	33.3	4840.2	0.61	88.43
140.0-141.0	464.7	32.4	4872.6	0.59	89.02
141.0-142.0	462.0	31.5	4904.2	0.58	89.60
142.0-143.0	459.2	30.7	4934.8	0.56	90.16
143.0-144.0	456.5	29.8	4964.6	0.54	90.70

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	453.8	28.9	4993.5	0.53	91.23
145.0-146.0	451.3	28.0	5021.5	0.51	91.74
146.0-147.0	448.6	27.2	5048.7	0.50	92.24
147.0-148.0	446.0	26.3	5074.9	0.48	92.72
148.0-149.0	443.4	25.4	5100.4	0.46	93.18
149.0-150.0	440.8	24.5	5124.9	0.45	93.63
150.0-151.0	438.2	23.7	5148.5	0.43	94.06
151.0-152.0	435.5	22.8	5171.3	0.42	94.48
152.0-153.0	432.8	21.9	5193.2	0.40	94.88
153.0-154.0	430.1	21.0	5214.3	0.38	95.27
154.0-155.0	427.5	20.2	5234.5	0.37	95.63
155.0-156.0	424.7	19.3	5253.8	0.35	95.99
156.0-157.0	421.8	18.4	5272.2	0.34	96.32
157.0-158.0	419.1	17.6	5289.8	0.32	96.65
158.0-159.0	416.4	16.7	5306.6	0.31	96.95
159.0-160.0	413.7	15.9	5322.4	0.29	97.24
160.0-161.0	411.1	15.0	5337.5	0.27	97.52
161.0-162.0	408.6	14.2	5351.7	0.26	97.78
162.0-163.0	406.1	13.4	5365.1	0.24	98.02
163.0-164.0	403.7	12.6	5377.7	0.23	98.25
164.0-165.0	401.5	11.8	5389.4	0.21	98.47
165.0-166.0	399.3	11.0	5400.4	0.20	98.67
166.0-167.0	397.2	10.2	5410.6	0.19	98.85
167.0-168.0	395.3	9.4	5420.0	0.17	99.02
168.0-169.0	393.6	8.6	5428.6	0.16	99.18
169.0-170.0	392.0	7.8	5436.4	0.14	99.32
170.0-171.0	390.6	7.1	5443.5	0.13	99.45
171.0-172.0	389.2	6.3	5449.8	0.12	99.57
172.0-173.0	388.0	5.6	5455.3	0.10	99.67
173.0-174.0	387.0	4.8	5460.1	0.09	99.76
174.0-175.0	386.1	4.1	5464.2	0.07	99.83
175.0-176.0	385.3	3.3	5467.5	0.06	99.89
176.0-177.0	384.7	2.6	5470.1	0.05	99.94
177.0-178.0	384.3	1.8	5471.9	0.03	99.97
178.0-179.0	383.9	1.1	5473.0	0.02	99.99
179.0-180.0	383.8	0.4	5473.4	0.01	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab: MESTER LAB
Test Type: TYPE C
Temperature: 25.5℃
Operator: 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°): 1676.09 lm

%lum = 30.6%

%lamp = 30.6%

cone flux(120°): 2473.20 lm

%lum = 45.2%

%lamp = 45.2%

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	1091.7	1092.8	1093.0	1093.9	1094.0	1093.6	1091.7	1092.8	1093.0	1093.9
G1.0	1091.0	1092.4	1092.7	1093.4	1094.2	1093.7	1091.5	1093.0	1092.8	1093.8
G2.0	1090.8	1091.4	1092.0	1092.8	1093.8	1093.2	1090.7	1092.7	1092.4	1092.7
G3.0	1089.9	1090.1	1091.2	1092.2	1093.3	1092.6	1089.6	1092.0	1091.4	1092.0
G4.0	1088.1	1088.4	1089.8	1091.0	1092.0	1091.3	1088.3	1090.8	1089.9	1090.7
G5.0	1086.3	1086.3	1088.2	1089.0	1090.5	1089.6	1086.3	1089.1	1088.3	1088.8
G6.0	1084.0	1083.6	1086.2	1087.1	1088.7	1088.0	1083.8	1087.2	1086.2	1086.8
G7.0	1081.1	1081.1	1083.2	1084.4	1086.5	1085.4	1081.1	1084.9	1083.8	1084.1
G8.0	1077.8	1077.9	1080.5	1081.9	1083.8	1082.6	1077.9	1082.2	1080.8	1081.2
G9.0	1074.1	1073.9	1077.2	1078.3	1080.9	1079.5	1074.7	1079.4	1077.6	1077.7
G10.0	1070.3	1069.8	1073.7	1074.8	1077.7	1076.1	1070.7	1075.6	1073.9	1074.1
G11.0	1066.0	1065.6	1069.2	1070.6	1074.2	1072.2	1066.7	1071.7	1069.6	1070.1
G12.0	1061.2	1061.0	1065.0	1066.6	1069.5	1067.8	1061.8	1067.9	1065.2	1066.0
G13.0	1055.8	1056.0	1060.2	1062.0	1064.9	1062.7	1056.8	1063.3	1060.6	1061.1
G14.0	1050.8	1049.9	1055.3	1057.0	1060.5	1058.1	1051.5	1058.0	1055.3	1055.4
G15.0	1044.8	1044.4	1049.9	1051.6	1055.4	1052.7	1045.9	1052.6	1050.0	1050.1
G16.0	1038.9	1038.4	1043.6	1045.7	1049.9	1046.4	1039.7	1047.0	1044.3	1044.4
G17.0	1032.7	1031.8	1037.3	1039.7	1044.2	1040.4	1033.2	1041.1	1037.3	1038.4
G18.0	1025.3	1024.6	1031.0	1033.6	1037.5	1033.9	1026.6	1034.6	1031.1	1031.3
G19.0	1018.5	1017.3	1024.3	1026.0	1030.9	1026.9	1020.1	1027.3	1024.3	1024.7
G20.0	1011.1	1010.0	1016.4	1019.0	1024.3	1019.8	1012.4	1020.5	1017.1	1017.6
G21.0	1002.7	1002.1	1008.9	1011.8	1016.3	1011.5	1004.1	1012.8	1009.8	1010.2
G22.0	994.6	993.9	1001.3	1004.0	1008.9	1003.5	996.0	1005.1	1002.0	1002.8
G23.0	986.4	984.6	992.9	995.8	1001.0	995.5	987.9	996.5	993.0	993.7
G24.0	977.8	976.0	983.7	987.4	992.9	986.9	979.2	988.0	984.4	985.4
G25.0	968.3	967.0	975.4	978.1	983.7	978.3	969.4	979.4	976.0	976.7
G26.0	958.9	957.5	966.0	969.2	974.6	968.0	960.2	970.3	967.0	967.9
G27.0	948.9	947.8	956.8	959.8	965.5	958.7	951.0	961.0	957.5	957.5
G28.0	939.1	936.8	946.0	949.0	956.2	948.8	941.2	950.5	947.0	947.8
G29.0	928.7	926.7	936.0	939.3	946.3	938.7	930.9	940.4	937.4	938.1
G30.0	917.5	916.0	925.9	929.1	935.3	928.6	919.6	930.3	927.1	927.9
G31.0	906.9	905.1	915.5	918.9	925.1	916.8	909.0	919.8	915.5	917.5
G32.0	896.0	892.9	903.6	907.9	914.4	905.8	898.1	909.1	904.8	906.6
G33.0	884.9	881.5	892.4	895.8	903.7	894.7	886.8	896.9	893.8	894.7
G34.0	872.4	869.6	881.4	884.3	891.7	883.1	873.9	885.6	882.5	883.6
G35.0	860.3	857.9	869.6	872.7	879.9	870.1	862.2	874.2	870.9	872.2
G36.0	848.2	845.8	856.2	860.7	868.2	858.2	850.2	862.3	859.2	859.4

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 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	835.9	833.4	844.4	848.7	856.3	846.0	837.9	849.3	846.0	847.6
G38.0	822.3	819.4	831.7	835.0	843.0	833.6	825.4	837.2	833.6	835.4
G39.0	809.4	806.6	819.2	822.5	830.3	820.9	811.5	824.5	821.2	822.7
G40.0	796.2	793.4	806.0	809.6	817.4	806.8	798.4	811.5	808.1	810.0
G41.0	783.0	778.5	791.8	796.4	804.5	793.3	785.5	797.1	794.0	795.6
G42.0	769.4	764.9	778.1	781.7	789.7	779.9	772.1	783.9	780.9	782.5
G43.0	754.3	750.9	764.8	767.9	776.3	766.1	757.0	770.3	767.4	768.9
G44.0	740.1	736.9	749.5	753.8	762.7	752.3	743.2	756.7	752.2	755.3
G45.0	726.2	722.6	735.4	739.7	747.4	736.5	728.8	742.7	738.2	740.0
G46.0	710.1	707.5	721.0	725.1	733.3	721.6	714.2	727.0	724.0	726.0
G47.0	695.7	691.2	706.5	709.3	718.9	707.1	698.3	712.8	709.2	711.5
G48.0	680.7	676.0	690.3	694.6	704.4	692.0	683.5	698.4	694.8	697.1
G49.0	665.7	660.9	675.3	679.5	689.3	676.9	668.4	682.1	679.8	680.8
G50.0	648.7	645.3	660.0	664.3	672.5	660.2	653.4	666.9	663.5	665.9
G51.0	633.2	628.3	644.5	647.4	657.1	644.5	636.2	651.5	647.9	650.7
G52.0	617.2	612.4	628.9	631.5	641.4	628.9	620.5	636.1	632.5	635.2
G53.0	601.2	596.3	611.3	615.5	625.5	612.8	604.8	618.6	615.5	618.1
G54.0	583.5	578.4	595.2	599.8	608.0	595.2	588.6	602.8	599.5	602.1
G55.0	567.2	561.8	578.9	581.5	591.6	578.5	570.8	586.3	583.8	586.0
G56.0	550.6	545.1	562.5	565.2	575.5	562.0	554.2	570.2	567.4	569.8
G57.0	533.8	528.4	544.0	548.3	557.3	543.4	537.7	553.7	548.9	551.8
G58.0	515.5	510.8	527.4	531.0	540.6	526.0	520.9	535.5	532.7	535.3
G59.0	498.1	493.5	510.2	513.8	523.5	509.2	502.1	518.7	515.4	518.6
G60.0	480.9	474.0	491.4	496.3	506.3	491.4	485.1	501.5	498.6	500.0
G61.0	461.6	456.5	473.8	477.1	487.1	473.9	467.6	482.6	481.2	482.9
G62.0	443.8	438.7	456.0	459.2	469.5	455.9	449.9	465.2	462.0	465.6
G63.0	426.1	420.8	438.2	441.7	451.7	436.3	432.2	447.3	444.5	447.9
G64.0	408.2	400.5	418.5	423.6	433.9	418.1	412.3	429.6	426.7	430.3
G65.0	389.6	382.2	400.0	403.6	415.4	399.8	394.7	411.9	409.3	410.5
G66.0	369.8	363.6	382.0	385.2	395.5	381.5	376.3	392.1	389.4	392.7
G67.0	351.3	345.2	363.6	366.6	376.8	361.3	356.5	373.7	371.4	374.3
G68.0	333.1	326.5	343.5	348.1	358.8	342.6	337.9	355.6	352.8	356.1
G69.0	314.4	305.7	324.7	329.6	338.2	323.7	319.4	335.3	334.2	335.9
G70.0	293.9	287.0	306.0	308.7	319.5	304.9	301.1	316.9	314.2	317.4
G71.0	275.5	268.3	285.4	290.1	300.7	286.2	280.9	298.6	295.7	299.1
G72.0	255.4	249.7	267.2	271.4	280.5	265.6	263.0	278.7	275.8	279.1
G73.0	236.1	230.3	247.7	251.7	261.0	245.9	243.6	259.4	258.2	259.8

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 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	217.2	211.7	228.4	232.6	241.6	227.1	224.9	240.1	239.1	240.7
G75.0	199.1	191.5	208.4	213.9	223.1	208.6	207.2	222.1	219.1	222.2
G76.0	180.1	174.1	190.4	194.7	203.4	189.3	188.4	202.8	200.1	202.8
G77.0	162.0	154.4	170.4	175.7	184.8	170.8	170.4	184.4	181.9	182.7
G78.0	143.5	137.2	152.8	156.5	165.4	153.4	151.9	165.3	164.1	165.0
G79.0	126.3	119.8	133.5	138.3	147.2	135.5	134.6	146.4	145.0	145.7
G80.0	107.9	102.7	115.7	120.1	127.9	117.7	117.3	128.6	128.3	127.4
G81.0	91.9	86.9	97.8	103.3	110.8	100.1	100.9	112.0	110.4	110.6
G82.0	75.6	71.4	81.8	86.4	92.8	85.2	84.3	94.5	93.9	93.1
G83.0	61.1	56.9	65.4	70.3	77.2	68.8	69.1	78.2	77.8	76.3
G84.0	46.9	43.5	51.3	55.4	61.2	54.4	55.3	63.9	63.1	61.7
G85.0	34.6	31.3	37.6	42.0	47.4	41.7	41.9	49.1	48.8	46.8
G86.0	23.0	20.8	25.8	29.2	34.1	29.5	30.3	36.4	35.9	34.0
G87.0	13.5	11.8	15.8	18.5	23.0	19.4	20.0	25.0	24.8	22.6
G88.0	6.0	5.2	7.8	10.1	13.6	11.0	11.6	15.1	15.4	13.0
G89.0	0.0	0.0	2.6	3.8	6.3	4.5	4.6	7.7	7.8	6.0
G90.0	0.0	0.0	0.0	0.0	30.6	27.8	21.4	39.0	35.6	0.0
G91.0	3.3	5.7	9.1	2.6	54.4	45.9	34.2	58.5	62.8	2.6
G92.0	10.5	20.2	32.7	4.9	77.9	64.4	47.6	79.7	88.5	4.9
G93.0	21.8	40.8	57.4	7.1	99.5	83.0	62.1	103.6	112.2	7.6
G94.0	35.0	62.7	82.0	10.0	118.1	105.3	78.3	128.7	131.9	10.6
G95.0	49.6	86.7	104.9	13.3	135.1	129.1	96.2	155.7	146.4	13.7
G96.0	64.4	111.2	122.0	16.9	151.5	154.9	117.8	186.1	160.3	17.4
G97.0	81.8	139.3	136.4	20.6	167.0	184.1	140.7	217.6	173.1	21.2
G98.0	101.5	170.8	149.1	24.8	183.3	215.9	168.0	249.5	186.9	25.2
G99.0	124.9	202.3	162.1	28.5	199.9	246.5	198.0	282.3	199.5	29.9
G100.0	150.7	235.7	174.7	32.8	215.8	277.8	227.0	310.0	212.5	34.2
G101.0	180.7	267.6	187.6	37.1	231.7	307.7	257.7	338.9	224.6	38.8
G102.0	212.4	297.7	200.0	41.4	247.2	337.6	289.5	366.9	236.6	43.5
G103.0	243.0	326.9	212.4	46.1	261.0	367.6	319.9	395.6	246.6	48.5
G104.0	278.1	354.7	223.3	50.7	274.9	395.0	356.3	421.5	256.1	53.3
G105.0	311.4	383.7	234.2	55.6	288.1	422.8	392.5	447.4	264.8	58.4
G106.0	344.6	409.7	243.6	60.2	299.6	447.7	426.5	471.2	272.7	63.4
G107.0	379.7	435.8	252.4	65.0	310.1	473.2	461.1	495.4	279.0	68.5
G108.0	417.1	461.8	260.5	70.1	319.8	498.8	495.3	520.4	284.3	73.9
G109.0	451.6	487.5	266.9	75.5	327.7	519.1	528.6	543.4	288.3	79.5
G110.0	487.3	511.6	272.6	80.6	333.7	540.8	558.7	570.6	291.7	84.9

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 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	524.8	538.2	277.6	86.3	338.7	565.8	588.1	595.0	293.6	90.1
G112.0	558.3	561.9	281.6	91.5	341.9	594.2	620.2	619.0	295.3	95.7
G113.0	590.8	585.6	284.7	96.7	343.5	622.3	648.3	642.5	295.8	101.6
G114.0	622.6	610.7	287.4	102.3	344.6	647.6	676.0	665.9	295.9	107.2
G115.0	653.2	632.3	289.6	108.2	344.4	672.4	702.6	685.0	295.7	112.7
G116.0	684.8	651.9	291.0	113.7	343.4	691.3	727.9	700.4	295.3	118.4
G117.0	711.9	669.2	292.3	119.2	342.6	706.6	752.9	713.0	294.5	124.5
G118.0	736.2	684.8	293.3	124.8	341.0	718.4	772.8	722.6	294.0	130.3
G119.0	757.8	695.8	294.1	131.2	339.7	727.3	789.5	727.8	293.8	136.1
G120.0	777.7	703.4	295.2	136.7	338.0	731.9	802.5	729.6	293.5	141.8
G121.0	791.9	708.0	296.1	142.6	336.7	733.4	812.6	728.6	293.7	148.0
G122.0	802.6	710.0	297.4	148.3	336.5	732.4	818.3	724.7	294.1	153.8
G123.0	809.6	709.2	298.5	154.6	336.7	728.9	820.6	718.8	294.9	159.5
G124.0	813.3	706.6	300.2	160.2	336.3	724.0	819.8	711.8	295.8	165.4
G125.0	814.1	702.0	301.8	166.0	336.1	717.8	816.7	703.4	297.2	171.1
G126.0	812.0	696.3	303.7	171.7	336.2	712.1	811.6	693.8	298.5	177.1
G127.0	807.8	688.8	305.6	177.7	336.4	704.0	804.9	684.5	299.9	182.8
G128.0	801.9	681.0	307.6	183.5	336.8	695.3	796.5	675.3	301.7	188.1
G129.0	795.1	673.0	309.9	189.1	337.6	686.2	788.1	665.6	303.8	194.3
G130.0	786.4	663.6	312.3	194.8	338.5	676.4	778.8	655.0	306.0	199.9
G131.0	777.8	654.9	314.7	201.1	339.6	667.3	769.1	645.6	308.0	205.3
G132.0	768.8	646.4	317.0	206.5	340.6	658.3	758.1	636.2	310.1	210.9
G133.0	758.5	637.6	319.6	212.2	341.8	649.0	747.8	627.3	312.7	216.1
G134.0	748.7	628.4	322.2	217.6	343.2	639.5	737.1	617.2	315.5	222.1
G135.0	738.4	619.9	324.7	223.9	344.6	630.6	726.5	608.6	318.1	227.4
G136.0	728.0	611.9	327.0	229.3	346.4	622.3	714.6	600.3	320.6	232.9
G137.0	717.6	604.2	329.8	234.8	348.1	614.0	704.1	591.7	323.5	238.2
G138.0	706.9	595.8	332.4	240.1	349.7	605.0	693.3	583.0	326.2	243.7
G139.0	695.6	588.1	334.8	245.9	351.5	596.7	682.5	575.1	328.7	248.9
G140.0	684.9	581.3	337.3	251.2	353.3	588.8	670.9	567.5	331.5	253.7
G141.0	674.4	574.5	339.8	256.6	355.0	580.7	660.5	559.9	334.4	258.9
G142.0	664.4	567.7	342.1	262.0	356.8	572.7	650.0	551.6	336.9	264.3
G143.0	653.3	560.7	344.9	267.8	358.5	564.3	640.1	544.2	339.4	269.5
G144.0	643.6	554.4	347.1	273.1	360.0	556.5	628.5	536.8	341.7	274.4
G145.0	634.2	548.0	349.3	278.1	361.8	548.8	618.4	529.6	344.2	279.5
G146.0	624.8	541.7	351.5	283.2	363.5	541.4	608.2	522.5	346.6	284.6
G147.0	615.5	534.4	354.0	288.7	364.9	532.9	598.0	515.0	348.8	290.1

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	606.8	528.3	356.2	293.5	366.2	525.7	586.8	508.3	351.0	294.7
G149.0	596.6	521.6	358.3	298.4	367.7	518.4	577.0	501.5	353.1	299.6
G150.0	587.6	514.3	360.5	303.6	369.0	510.7	566.9	495.2	355.1	304.6
G151.0	578.4	507.8	362.5	308.3	370.1	503.6	556.8	489.0	357.3	308.9
G152.0	569.1	501.0	364.5	312.9	371.1	496.8	546.8	482.8	358.9	313.4
G153.0	558.7	494.3	366.5	317.3	372.1	490.0	536.1	476.4	360.4	318.0
G154.0	549.4	487.5	368.2	322.0	373.0	483.4	526.5	470.6	362.1	322.6
G155.0	539.8	480.8	369.8	326.2	374.1	476.9	517.1	464.8	363.9	326.9
G156.0	528.9	473.5	371.7	330.7	374.7	470.1	508.0	458.6	365.4	331.0
G157.0	519.1	467.0	372.9	334.3	375.4	463.7	499.1	453.2	366.6	334.9
G158.0	509.3	460.5	374.4	338.4	375.8	457.8	489.7	447.6	368.0	338.9
G159.0	499.3	453.6	375.9	342.4	376.4	451.6	481.0	442.5	369.1	342.6
G160.0	489.2	447.7	376.9	345.9	376.8	445.7	472.9	437.2	370.1	346.7
G161.0	479.8	441.7	378.3	349.1	377.4	440.0	464.9	432.3	371.3	350.1
G162.0	469.9	436.2	379.3	352.7	377.7	434.6	457.0	427.6	372.3	353.3
G163.0	461.0	430.3	380.5	356.2	378.0	428.7	449.1	422.9	373.4	356.6
G164.0	452.6	425.2	381.7	359.3	378.4	423.5	441.8	418.3	374.2	359.5
G165.0	444.7	420.7	382.2	362.1	378.7	418.5	434.6	413.4	375.0	362.9
G166.0	436.6	416.3	383.2	364.8	378.7	413.7	428.0	409.4	375.8	365.3
G167.0	429.9	412.2	383.7	367.6	379.1	409.2	420.9	405.4	376.5	367.9
G168.0	423.6	408.5	384.2	369.9	379.4	405.0	415.0	401.7	377.3	370.3
G169.0	418.1	405.2	384.7	372.1	379.6	401.2	409.4	398.2	377.9	372.5
G170.0	412.8	402.2	384.8	374.0	379.8	397.5	404.6	395.0	378.6	374.5
G171.0	408.1	399.5	385.1	375.7	380.0	394.6	400.0	392.2	379.2	376.3
G172.0	403.6	396.6	385.2	377.5	380.4	391.5	395.7	389.8	379.8	377.9
G173.0	399.8	394.4	385.2	378.8	380.8	389.1	392.3	387.5	380.3	379.4
G174.0	396.4	392.4	385.3	380.1	381.0	387.1	389.3	385.8	380.8	380.4
G175.0	393.7	390.5	385.3	381.2	381.4	385.4	386.8	384.4	381.5	381.5
G176.0	390.8	388.6	385.1	382.1	381.9	384.0	385.0	383.7	381.9	382.4
G177.0	388.6	386.9	384.8	382.8	382.4	383.3	383.8	383.0	382.8	382.9
G178.0	386.5	385.6	384.5	383.3	382.7	383.1	383.3	382.8	383.3	383.3
G179.0	384.8	384.2	384.1	383.7	383.3	383.3	383.5	383.0	383.6	383.7
G180.0	384.0	383.6	383.9	383.9	383.7	383.6	384.0	383.6	383.9	383.9

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	1094.0	1093.6	1091.7							
G1.0	1093.4	1093.3	1091.0							
G2.0	1092.4	1092.4	1090.8							
G3.0	1091.1	1091.3	1089.9							
G4.0	1089.6	1089.7	1088.1							
G5.0	1087.2	1087.7	1086.3							
G6.0	1084.5	1085.3	1084.0							
G7.0	1081.4	1082.7	1081.1							
G8.0	1078.4	1079.2	1077.8							
G9.0	1074.7	1075.9	1074.1							
G10.0	1070.9	1072.2	1070.3							
G11.0	1066.6	1067.6	1066.0							
G12.0	1061.5	1062.6	1061.2							
G13.0	1056.4	1057.8	1055.8							
G14.0	1051.1	1052.6	1050.8							
G15.0	1045.5	1047.0	1044.8							
G16.0	1038.9	1040.4	1038.9							
G17.0	1032.5	1033.7	1032.7							
G18.0	1025.6	1026.9	1025.3							
G19.0	1018.6	1019.9	1018.5							
G20.0	1011.0	1012.8	1011.1							
G21.0	1002.5	1004.3	1002.7							
G22.0	994.9	996.2	994.6							
G23.0	986.3	988.1	986.4							
G24.0	977.7	979.5	977.8							
G25.0	968.7	969.5	968.3							
G26.0	959.5	960.0	958.9							
G27.0	948.8	950.5	948.9							
G28.0	939.1	940.5	939.1							
G29.0	929.0	930.4	928.7							
G30.0	917.7	918.9	917.5							
G31.0	906.9	908.1	906.9							
G32.0	895.8	897.1	896.0							
G33.0	884.4	885.8	884.9							
G34.0	871.8	873.3	872.4							
G35.0	859.7	861.7	860.3							
G36.0	848.1	849.5	848.2							

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 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	835.5	837.1	835.9							
G38.0	823.0	823.2	822.3							
G39.0	810.3	810.5	809.4							
G40.0	796.0	797.3	796.2							
G41.0	782.8	784.4	783.0							
G42.0	769.5	770.7	769.4							
G43.0	754.5	755.6	754.3							
G44.0	740.7	741.6	740.1							
G45.0	726.2	727.6	726.2							
G46.0	711.9	713.1	710.1							
G47.0	695.7	697.4	695.7							
G48.0	681.2	682.6	680.7							
G49.0	665.9	667.6	665.7							
G50.0	650.9	650.6	648.7							
G51.0	635.3	635.2	633.2							
G52.0	618.0	619.5	617.2							
G53.0	602.7	603.4	601.2							
G54.0	586.4	587.5	583.5							
G55.0	569.1	569.5	567.2							
G56.0	552.3	553.3	550.6							
G57.0	535.5	536.5	533.8							
G58.0	518.9	519.7	515.5							
G59.0	501.7	501.1	498.1							
G60.0	483.1	484.0	480.9							
G61.0	465.7	466.6	461.6							
G62.0	448.1	449.0	443.8							
G63.0	430.2	429.6	426.1							
G64.0	410.6	411.5	408.2							
G65.0	393.1	393.6	389.6							
G66.0	374.7	373.9	369.8							
G67.0	356.7	355.3	351.3							
G68.0	336.2	337.1	333.1							
G69.0	317.4	319.1	314.4							
G70.0	299.2	298.7	293.9							
G71.0	280.7	280.2	275.5							
G72.0	260.5	260.4	255.4							
G73.0	241.1	241.3	236.1							

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	222.1	224.2	217.2							
G75.0	203.7	204.2	199.1							
G76.0	184.6	185.1	180.1							
G77.0	166.4	166.9	162.0							
G78.0	147.4	148.3	143.5							
G79.0	129.9	131.1	126.3							
G80.0	112.1	113.7	107.9							
G81.0	95.7	96.5	91.9							
G82.0	78.8	79.9	75.6							
G83.0	63.7	65.3	61.1							
G84.0	50.1	50.8	46.9							
G85.0	37.0	38.2	34.6							
G86.0	26.3	26.0	23.0							
G87.0	17.0	16.4	13.5							
G88.0	9.1	8.3	6.0							
G89.0	3.3	2.1	0.0							
G90.0	1.4	1.6	0.0							
G91.0	16.8	7.8	3.3							
G92.0	44.7	21.8	10.5							
G93.0	76.5	41.1	21.8							
G94.0	105.4	61.5	35.0							
G95.0	134.9	82.6	49.6							
G96.0	159.2	106.5	64.4							
G97.0	179.5	132.7	81.8							
G98.0	196.0	162.2	101.5							
G99.0	213.5	196.6	124.9							
G100.0	231.3	229.8	150.7							
G101.0	248.7	264.5	180.7							
G102.0	265.4	297.6	212.4							
G103.0	282.6	330.0	243.0							
G104.0	298.5	360.2	278.1							
G105.0	313.7	391.9	311.4							
G106.0	328.3	421.2	344.6							
G107.0	340.5	450.8	379.7							
G108.0	350.5	479.9	417.1							
G109.0	360.0	505.5	451.6							
G110.0	366.9	533.9	487.3							

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 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	372.8	558.9	524.8							
G112.0	376.6	584.1	558.3							
G113.0	378.9	608.7	590.8							
G114.0	380.3	634.6	622.6							
G115.0	380.3	657.3	653.2							
G116.0	379.4	677.9	684.8							
G117.0	378.2	696.7	711.9							
G118.0	376.2	713.9	736.2							
G119.0	374.2	726.5	757.8							
G120.0	372.1	735.9	777.7							
G121.0	369.8	742.0	791.9							
G122.0	367.7	745.0	802.6							
G123.0	366.0	745.1	809.6							
G124.0	364.6	742.6	813.3							
G125.0	363.5	737.9	814.1							
G126.0	362.5	731.5	812.0							
G127.0	361.8	723.9	807.8							
G128.0	361.4	716.1	801.9							
G129.0	361.1	707.4	795.1							
G130.0	361.5	698.1	786.4							
G131.0	361.7	688.0	777.8							
G132.0	362.2	678.1	768.8							
G133.0	362.5	668.8	758.5							
G134.0	362.9	658.3	748.7							
G135.0	363.7	648.6	738.4							
G136.0	364.5	639.4	728.0							
G137.0	365.2	630.3	717.6							
G138.0	366.1	620.8	706.9							
G139.0	367.1	612.5	695.6							
G140.0	368.1	604.3	684.9							
G141.0	368.9	596.6	674.4							
G142.0	370.0	588.3	664.4							
G143.0	370.7	580.7	653.3							
G144.0	371.5	573.3	643.6							
G145.0	372.3	566.1	634.2							
G146.0	373.2	558.9	624.8							
G147.0	374.3	550.8	615.5							

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	375.1	543.9	606.8							
G149.0	376.2	536.3	596.6							
G150.0	376.9	529.2	587.6							
G151.0	378.0	521.8	578.4							
G152.0	378.9	514.6	569.1							
G153.0	380.0	506.6	558.7							
G154.0	380.8	499.3	549.4							
G155.0	381.6	491.9	539.8							
G156.0	382.3	483.6	528.9							
G157.0	383.0	476.2	519.1							
G158.0	383.7	469.1	509.3							
G159.0	384.2	462.0	499.3							
G160.0	384.7	455.2	489.2							
G161.0	385.2	447.9	479.8							
G162.0	385.9	441.6	469.9							
G163.0	386.2	435.9	461.0							
G164.0	386.4	430.1	452.6							
G165.0	386.8	424.5	444.7							
G166.0	387.1	419.6	436.6							
G167.0	387.3	415.2	429.9							
G168.0	387.4	411.2	423.6							
G169.0	387.4	407.4	418.1							
G170.0	387.5	403.9	412.8							
G171.0	387.3	400.7	408.1							
G172.0	387.0	398.0	403.6							
G173.0	386.7	395.4	399.8							
G174.0	386.3	393.0	396.4							
G175.0	385.9	390.8	393.7							
G176.0	385.5	388.8	390.8							
G177.0	385.0	387.0	388.6							
G178.0	384.8	385.6	386.5							
G179.0	384.2	384.4	384.8							
G180.0	383.7	383.6	384.0							

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:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	12273.70
L 0-180(75) av	10380.97
L 0-180(85) av	5810.62
L 90-270(65) av	12740.74
L 90-270(75) av	11145.25
L 90-270(85) av	6737.09
L 45(65) av	12540.27
L 45(75) av	10737.06
L 45(85) av	6282.54

Standard: GB/T 29293-2012