

Report No.:

Test Time: 2025-11-19 15:11

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -61

Luminous Height (mm):

Current: 0.083 A

Power Factor: 0.921

Luminaire Description: 87668

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -61

Voltage: 120.2 V

Power: 9.18 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 749.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H95.3

Vertical Diffuse Angle(50%): V95.2

Luminaire Efficacy Rating (LER): 81.70

Max. Intensity: 319.96 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 749.5 lm

Efficiency: 100%

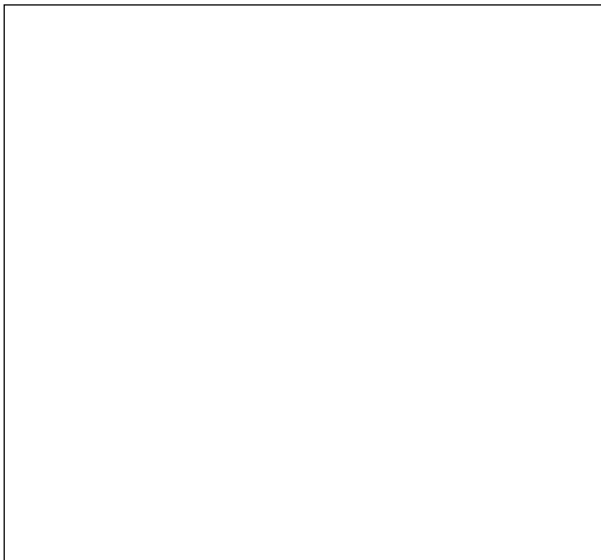
Upward Ratio: 1%

C0r0 Intensity: 317.9 cd

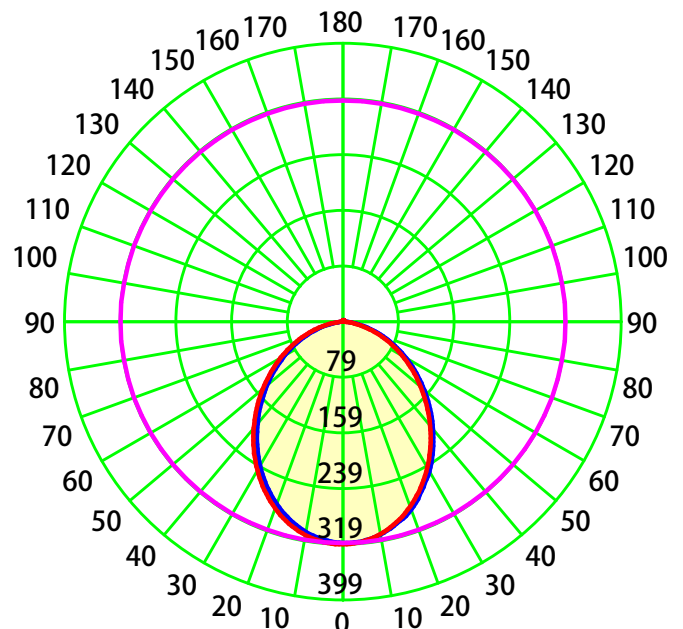
Pos of Max. Intensity: H90 V0

S/MH(C90/C270): 1.15

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 95.2°

— C0-C180 — C90-C270 — G0

C Plane (°): 0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 张宇哲

Gamma Plane (°): 0.0-180.0: 1.0

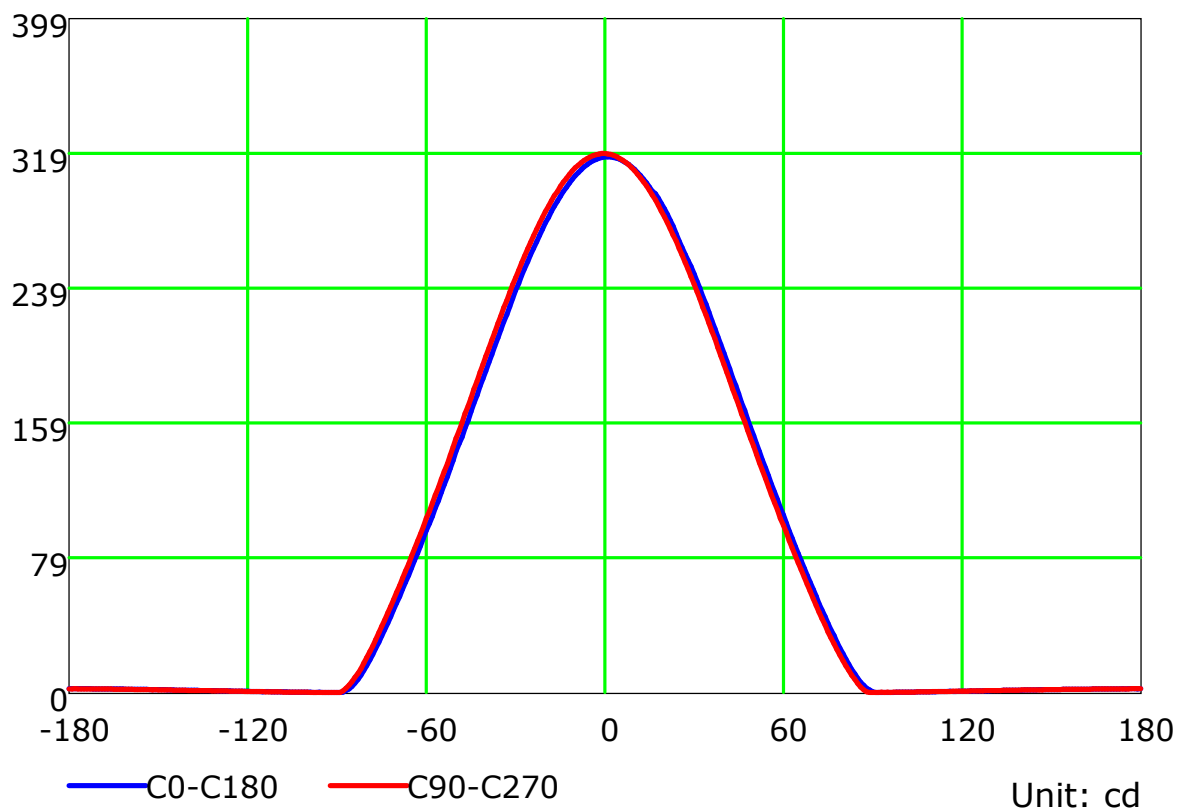
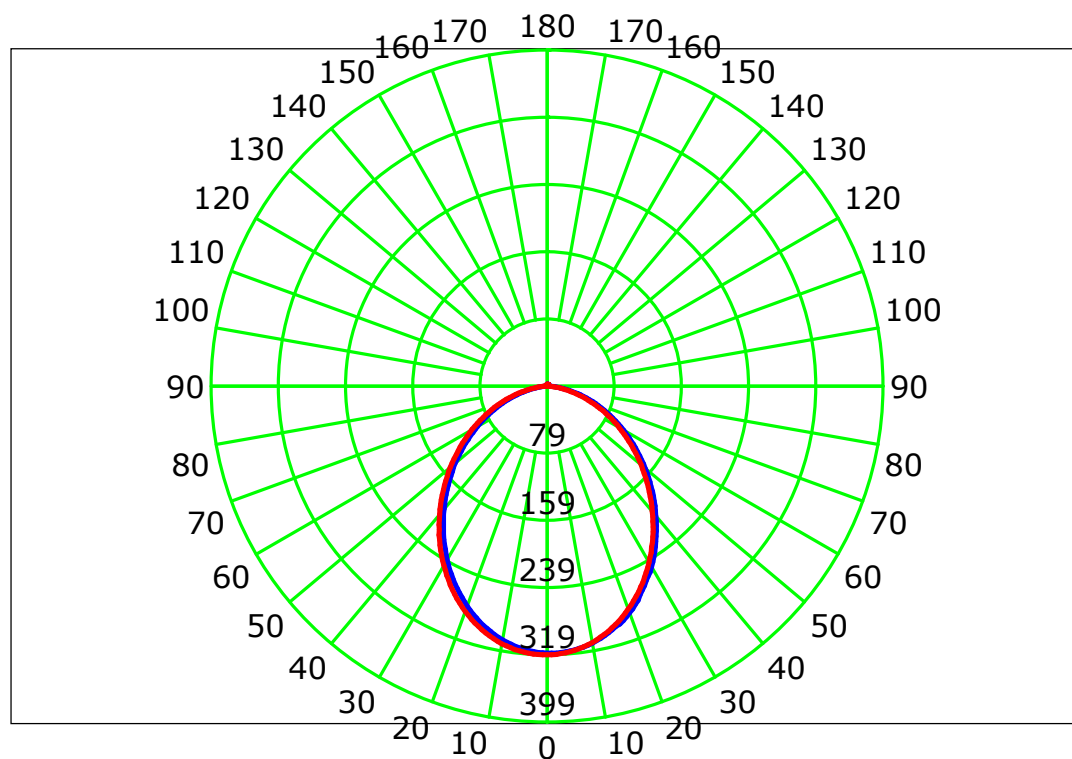
Test Device: GPM-1600L

Distance: 7.100 m [K=1.0000]

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

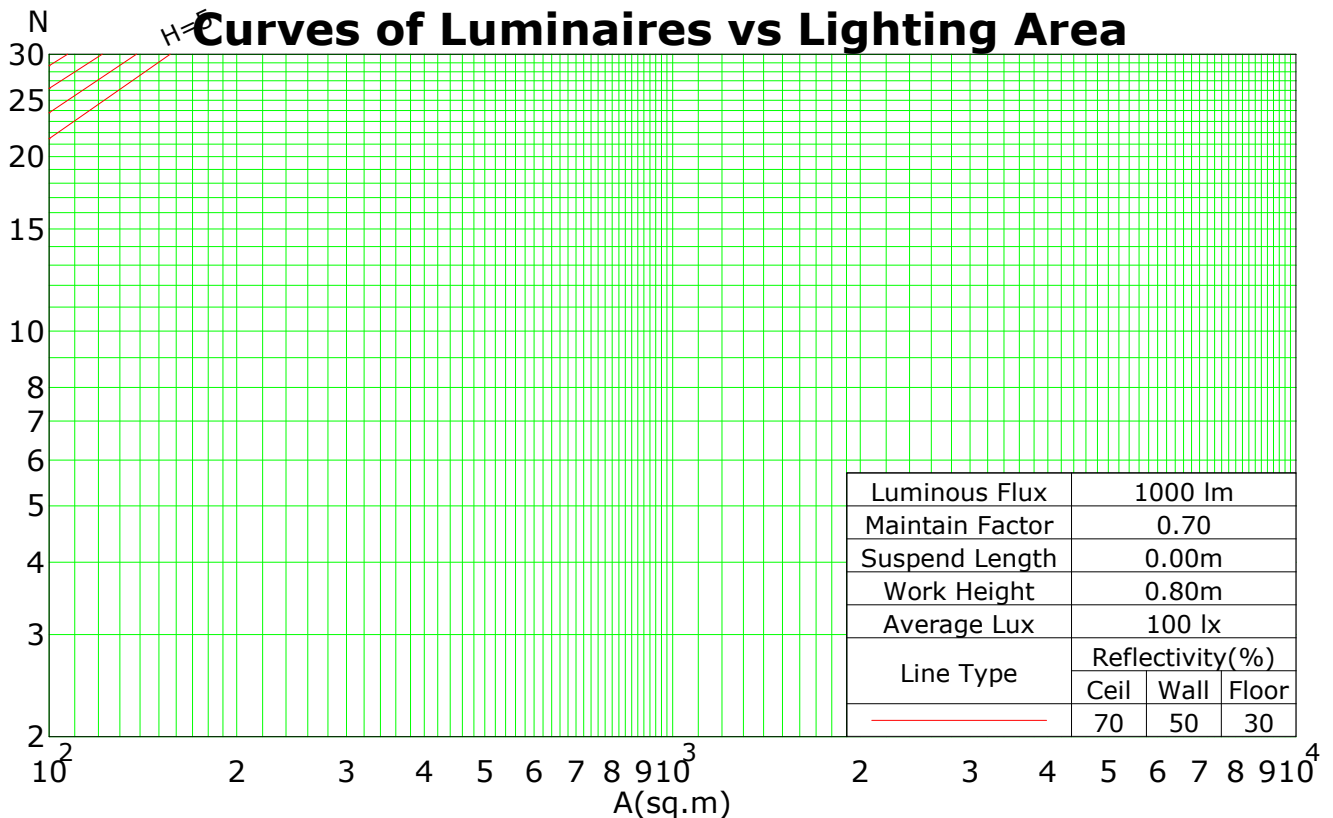
## Coefficients Of Utilization - Zonal Cavity Method

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.09	1.05	1.01	0.97	1.07	1.03	0.99	0.96	0.98	0.95	0.93	0.94	0.92	0.90	0.91	0.89	0.87	0.85
2	1.00	0.92	0.86	0.81	0.97	0.90	0.85	0.80	0.87	0.82	0.78	0.83	0.79	0.76	0.80	0.77	0.74	0.72
3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.74	0.69	0.65	0.72	0.67	0.64	0.61
4	0.84	0.73	0.65	0.58	0.82	0.72	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.64	0.59	0.55	0.53
5	0.78	0.65	0.57	0.50	0.76	0.64	0.56	0.50	0.62	0.55	0.50	0.60	0.54	0.49	0.58	0.53	0.48	0.46
6	0.72	0.59	0.51	0.44	0.70	0.58	0.50	0.44	0.56	0.49	0.44	0.55	0.48	0.43	0.53	0.47	0.43	0.41
7	0.67	0.54	0.45	0.40	0.65	0.53	0.45	0.39	0.51	0.44	0.39	0.50	0.44	0.39	0.49	0.43	0.38	0.36
8	0.62	0.49	0.41	0.35	0.61	0.49	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33
9	0.58	0.45	0.37	0.32	0.57	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.41	0.36	0.31	0.30
10	0.55	0.42	0.34	0.29	0.54	0.42	0.34	0.29	0.40	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27

Spacing Criteria (0-180): 1.15

Spacing Criteria (90-270): 1.15

Spacing Criteria (Diagonal): 1.25



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0

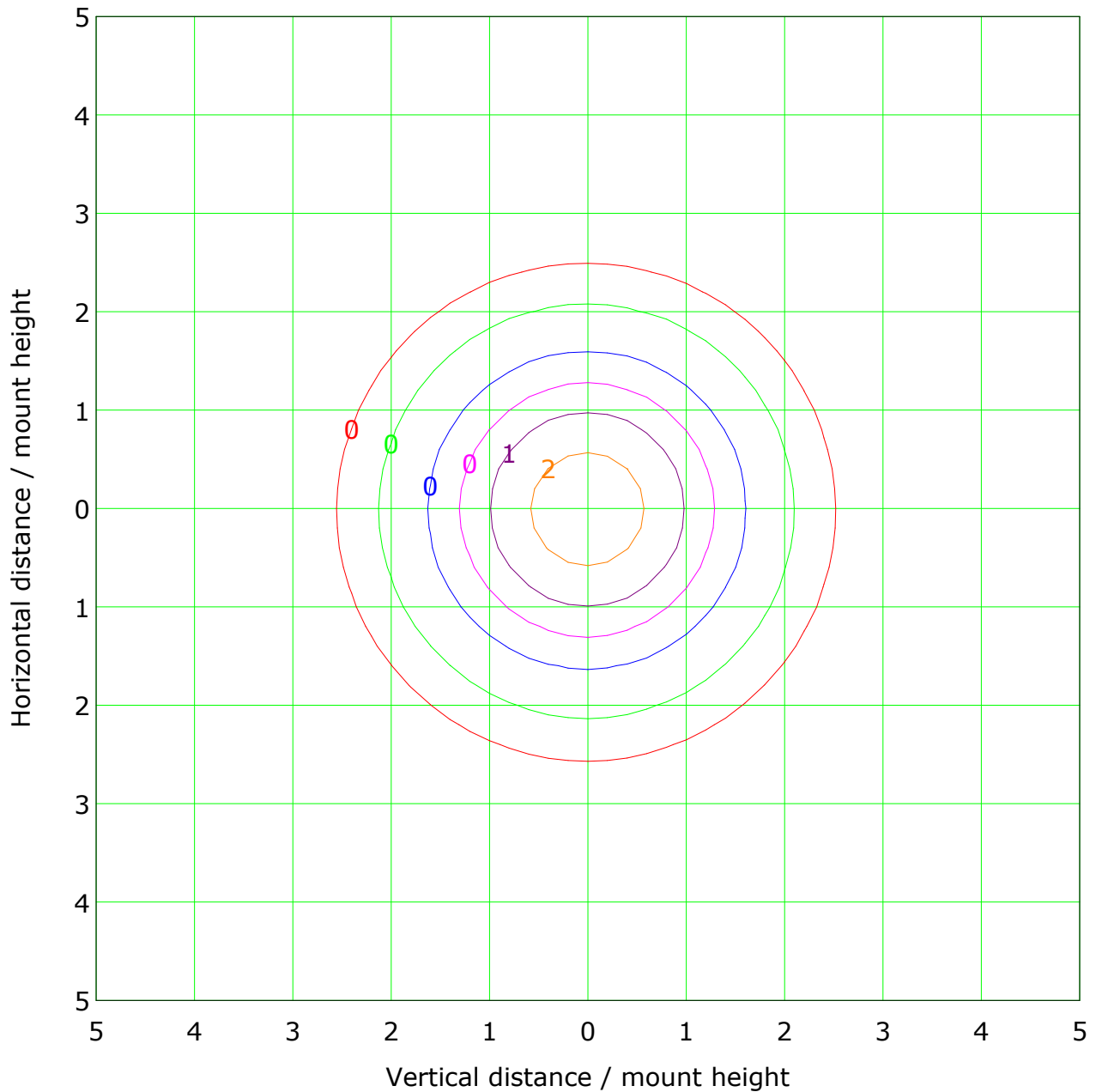
Test Device: GPM-1600L

Distance: 7.100 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 3.2 lx

( 1%): 0.0 lx	( 2%): 0.1 lx
( 5%): 0.2 lx	( 10%): 0.3 lx
( 20%): 0.6 lx	( 50%): 1.6 lx
(100%): 3.2 lx	

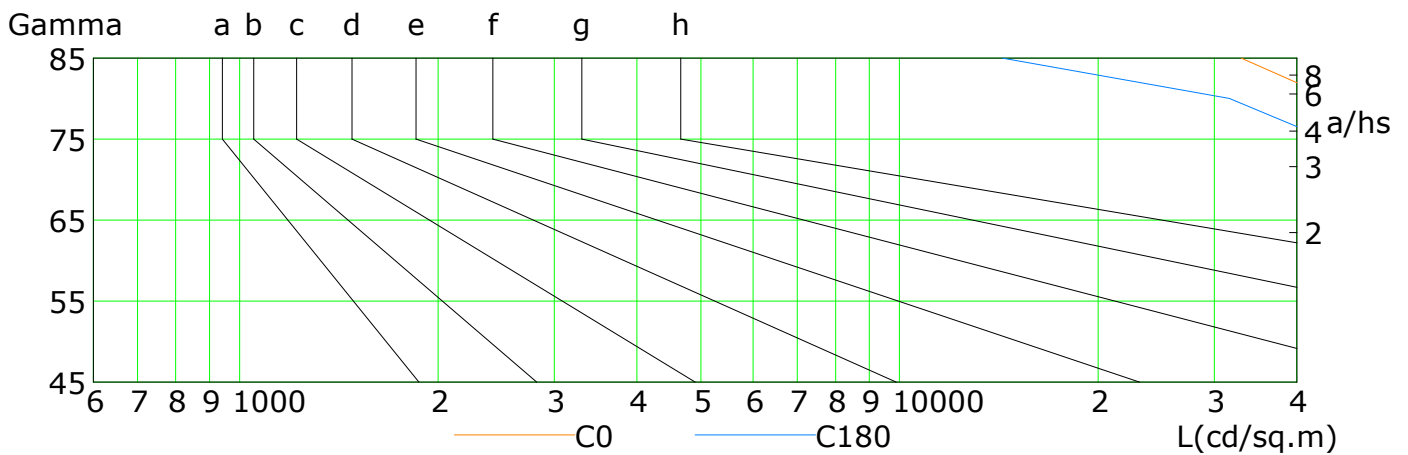
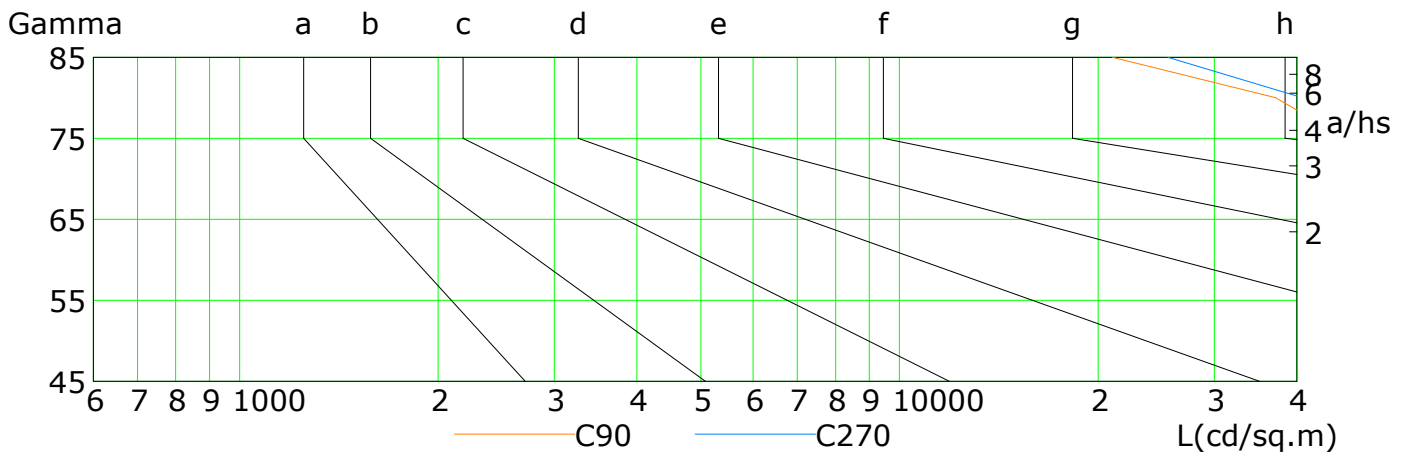
C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
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

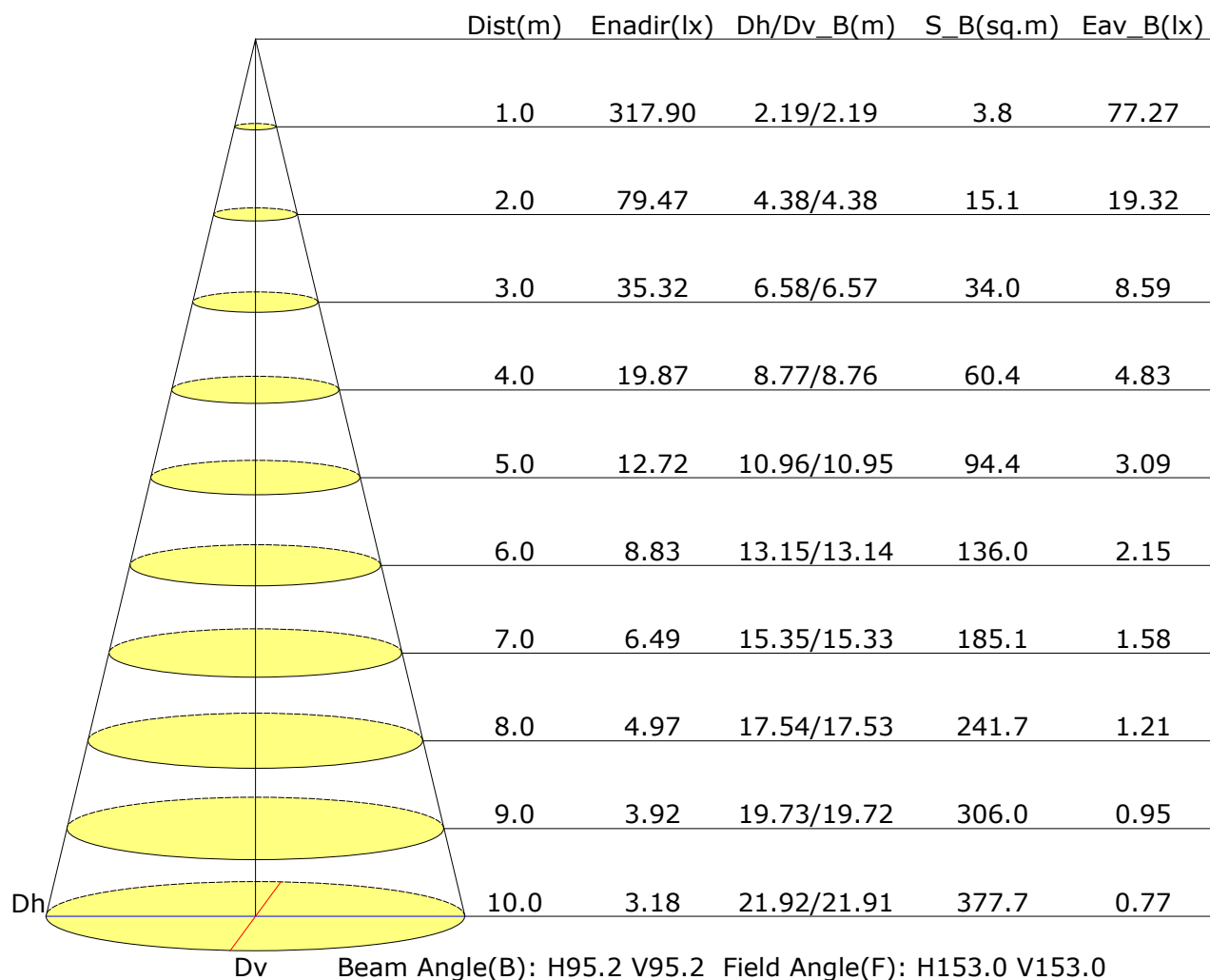


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	85793	81197	76778	72056	66781	61258	54337	45342	32939
C90	82608	77864	72984	67922	62417	55806	47608	37144	21044
C180	80731	76273	70890	65842	59988	53164	44474	31607	14330
C270	84631	80350	75531	70837	65566	59437	52116	40809	25519

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

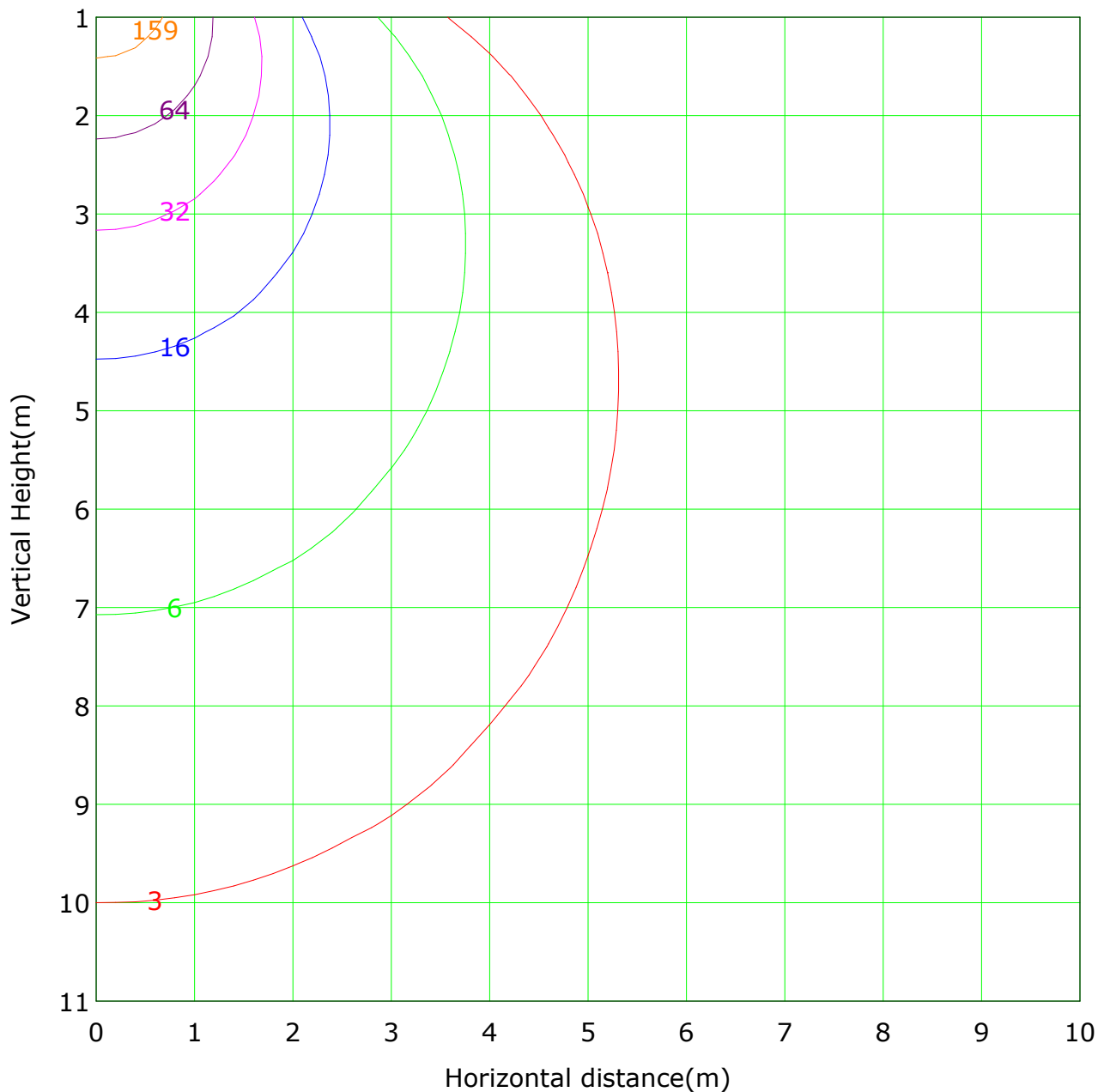
## Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

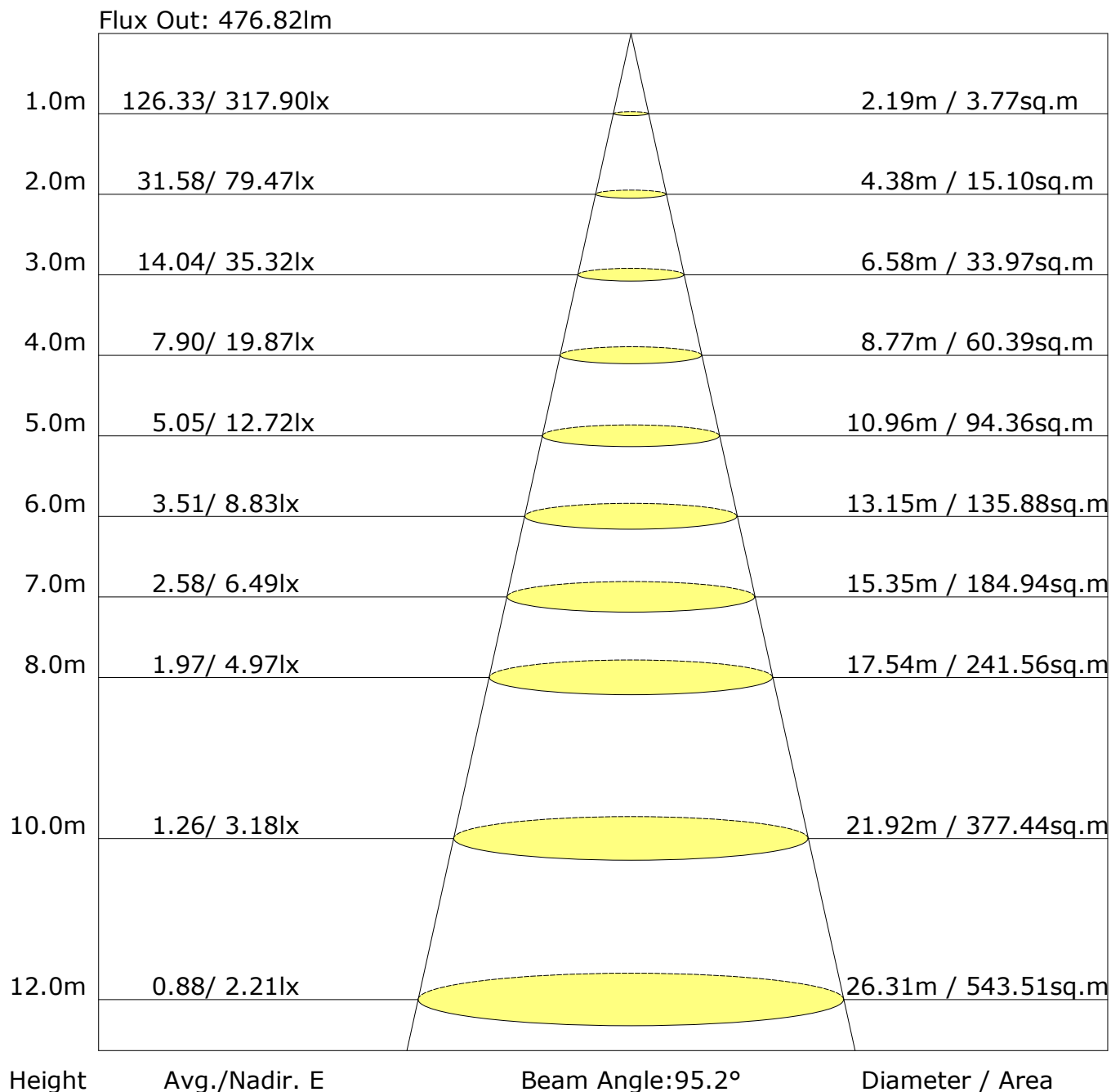
## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 317.9 lx

— ( 1%): 3.2 lx	— ( 2%): 6.4 lx
— ( 5%): 15.9 lx	— ( 10%): 31.8 lx
— ( 20%): 63.6 lx	— ( 50%): 158.9 lx
— (100%): 317.9 lx	

## 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	27.5	28.8	27.8	29.1	29.3	27.4	28.7	27.7	28.9	29.2
3H	28.8	30.0	29.2	30.3	30.6	28.6	29.8	29.0	30.1	30.4
4H	29.3	30.4	29.7	30.7	31.1	29.1	30.2	29.5	30.5	30.8
6H	29.7	30.7	30.0	31.0	31.4	29.4	30.4	29.8	30.7	31.1
8H	29.8	30.8	30.1	31.1	31.4	29.4	30.4	29.8	30.8	31.1
12H	29.8	30.8	30.2	31.1	31.5	29.5	30.4	29.8	30.8	31.1
X=4H Y=2H	28.1	29.2	28.4	29.5	29.8	28.0	29.1	28.3	29.4	29.7
3H	29.6	30.5	30.0	30.9	31.2	29.4	30.4	29.8	30.7	31.1
4H	30.2	31.1	30.6	31.4	31.8	30.0	30.9	30.4	31.2	31.6
6H	30.6	31.4	31.1	31.8	32.2	30.4	31.1	30.8	31.5	31.9
8H	30.8	31.5	31.2	31.9	32.3	30.5	31.2	30.9	31.6	32.0
12H	30.8	31.5	31.3	31.9	32.4	30.5	31.1	31.0	31.6	32.0
X=8H Y=4H	30.4	31.1	30.9	31.5	32.0	30.2	30.9	30.7	31.3	31.8
6H	31.0	31.5	31.4	32.0	32.5	30.7	31.3	31.2	31.7	32.2
8H	31.2	31.6	31.7	32.1	32.6	30.9	31.4	31.4	31.8	32.3
12H	31.3	31.7	31.8	32.2	32.7	31.0	31.4	31.5	31.9	32.4
X=12H Y=4H	30.4	31.0	30.9	31.5	31.9	30.2	30.9	30.7	31.3	31.8
6H	31.0	31.5	31.5	32.0	32.5	30.8	31.3	31.3	31.7	32.2
8H	31.2	31.6	31.7	32.1	32.6	30.9	31.4	31.4	31.8	32.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.3/-0.6				
S=2.0H	+0.6/-1.0					+0.6/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with  $750\text{lm}$  ( $8\log(F/F_0) = -1.0$ ).

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	378	50.5
	FL ( 0°-30°)	119	15.8
	FM (30°-60°)	194	25.9
	FH (60°-80°)	61	8.1
	FVH (80°-90°)	5	0.6
	BACK LIGHT	366	48.8
	BL ( 0°-30°)	117	15.6
	BM (30°-60°)	188	25.1
	BH (60°-80°)	57	7.6
	BVH (80°-90°)	3	0.5
	UP LIGHT	6	0.8
	UL (90°-100°)	0	0.0
	UH (100°-180°)	6	0.7
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	318.9	0.3	0.3	0.04	0.04
1.0-2.0	318.7	0.9	1.2	0.12	0.16
2.0-3.0	318.3	1.5	2.7	0.20	0.37
3.0-4.0	317.7	2.1	4.9	0.28	0.65
4.0-5.0	317.0	2.7	7.6	0.36	1.01
5.0-6.0	316.0	3.3	10.9	0.44	1.46
6.0-7.0	314.9	3.9	14.8	0.52	1.98
7.0-8.0	313.6	4.5	19.3	0.60	2.58
8.0-9.0	312.2	5.1	24.4	0.68	3.25
9.0-10.0	310.5	5.6	30.0	0.75	4.00
10.0-11.0	308.7	6.2	36.2	0.82	4.83
11.0-12.0	306.6	6.7	42.9	0.89	5.72
12.0-13.0	304.5	7.2	50.1	0.96	6.68
13.0-14.0	302.1	7.7	57.8	1.03	7.72
14.0-15.0	299.6	8.2	66.1	1.10	8.81
15.0-16.0	296.9	8.7	74.8	1.16	9.97
16.0-17.0	294.3	9.2	83.9	1.22	11.20
17.0-18.0	291.6	9.6	93.5	1.28	12.48
18.0-19.0	288.4	10.0	103.6	1.34	13.82
19.0-20.0	285.1	10.4	114.0	1.39	15.21
20.0-21.0	281.8	10.8	124.8	1.44	16.65
21.0-22.0	278.2	11.2	136.0	1.49	18.15
22.0-23.0	274.6	11.5	147.5	1.54	19.68
23.0-24.0	270.7	11.8	159.4	1.58	21.26
24.0-25.0	266.7	12.1	171.5	1.62	22.88
25.0-26.0	262.8	12.4	183.9	1.66	24.54
26.0-27.0	258.6	12.7	196.6	1.69	26.23
27.0-28.0	254.5	12.9	209.5	1.72	27.95
28.0-29.0	250.5	13.1	222.6	1.75	29.69
29.0-30.0	246.2	13.3	235.9	1.77	31.47
30.0-31.0	241.8	13.5	249.3	1.80	33.26
31.0-32.0	237.3	13.6	262.9	1.81	35.08
32.0-33.0	232.7	13.7	276.6	1.83	36.91
33.0-34.0	228.1	13.8	290.4	1.84	38.75
34.0-35.0	223.4	13.9	304.3	1.85	40.60
35.0-36.0	218.6	13.9	318.2	1.86	42.46

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	213.8	13.9	332.2	1.86	44.32
37.0-38.0	208.9	13.9	346.1	1.86	46.18
38.0-39.0	204.2	13.9	360.1	1.86	48.04
39.0-40.0	199.3	13.9	374.0	1.85	49.89
40.0-41.0	194.3	13.8	387.8	1.85	51.74
41.0-42.0	189.6	13.8	401.6	1.84	53.58
42.0-43.0	184.8	13.7	415.3	1.83	55.40
43.0-44.0	179.8	13.6	428.8	1.81	57.21
44.0-45.0	174.9	13.4	442.3	1.79	59.01
45.0-46.0	169.9	13.3	455.6	1.77	60.78
46.0-47.0	165.0	13.1	468.7	1.75	62.53
47.0-48.0	160.1	12.9	481.6	1.73	64.26
48.0-49.0	155.2	12.7	494.4	1.70	65.96
49.0-50.0	150.6	12.6	506.9	1.68	67.63
50.0-51.0	145.7	12.3	519.3	1.64	69.28
51.0-52.0	140.7	12.1	531.3	1.61	70.89
52.0-53.0	135.9	11.8	543.2	1.58	72.47
53.0-54.0	131.1	11.6	554.7	1.54	74.01
54.0-55.0	126.4	11.3	566.0	1.51	75.51
55.0-56.0	121.7	11.0	577.0	1.47	76.98
56.0-57.0	116.9	10.7	587.7	1.43	78.41
57.0-58.0	112.3	10.4	598.1	1.39	79.79
58.0-59.0	107.7	10.1	608.1	1.34	81.14
59.0-60.0	103.2	9.7	617.9	1.30	82.44
60.0-61.0	98.7	9.4	627.3	1.26	83.69
61.0-62.0	94.1	9.1	636.4	1.21	84.90
62.0-63.0	89.7	8.7	645.1	1.16	86.07
63.0-64.0	85.2	8.4	653.5	1.12	87.18
64.0-65.0	80.8	8.0	661.5	1.07	88.25
65.0-66.0	76.5	7.6	669.1	1.02	89.27
66.0-67.0	72.2	7.3	676.4	0.97	90.24
67.0-68.0	67.9	6.9	683.2	0.92	91.15
68.0-69.0	63.8	6.5	689.7	0.87	92.02
69.0-70.0	59.5	6.1	695.9	0.82	92.84
70.0-71.0	55.4	5.7	701.6	0.76	93.60
71.0-72.0	51.3	5.3	706.9	0.71	94.31

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
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	47.3	4.9	711.9	0.66	94.97
73.0-74.0	43.4	4.6	716.4	0.61	95.58
74.0-75.0	39.5	4.2	720.6	0.56	96.14
75.0-76.0	35.7	3.8	724.4	0.51	96.65
76.0-77.0	32.0	3.4	727.8	0.46	97.10
77.0-78.0	28.3	3.0	730.8	0.40	97.51
78.0-79.0	24.8	2.7	733.5	0.36	97.86
79.0-80.0	21.4	2.3	735.8	0.31	98.17
80.0-81.0	18.1	2.0	737.8	0.26	98.43
81.0-82.0	15.1	1.6	739.4	0.22	98.65
82.0-83.0	12.2	1.3	740.7	0.18	98.83
83.0-84.0	9.6	1.0	741.8	0.14	98.97
84.0-85.0	7.2	0.8	742.6	0.10	99.07
85.0-86.0	5.0	0.5	743.1	0.07	99.14
86.0-87.0	3.2	0.4	743.5	0.05	99.19
87.0-88.0	1.8	0.2	743.7	0.03	99.22
88.0-89.0	0.8	0.1	743.8	0.01	99.23
89.0-90.0	0.3	0.0	743.8	0.00	99.23
90.0-91.0	0.1	0.0	743.8	0.00	99.23
91.0-92.0	0.1	0.0	743.8	0.00	99.24
92.0-93.0	0.1	0.0	743.8	0.00	99.24
93.0-94.0	0.1	0.0	743.8	0.00	99.24
94.0-95.0	0.1	0.0	743.8	0.00	99.24
95.0-96.0	0.2	0.0	743.9	0.00	99.24
96.0-97.0	0.2	0.0	743.9	0.00	99.25
97.0-98.0	0.2	0.0	743.9	0.00	99.25
98.0-99.0	0.2	0.0	743.9	0.00	99.25
99.0-100.0	0.2	0.0	744.0	0.00	99.26
100.0-101.0	0.3	0.0	744.0	0.00	99.26
101.0-102.0	0.3	0.0	744.0	0.00	99.26
102.0-103.0	0.3	0.0	744.0	0.00	99.27
103.0-104.0	0.3	0.0	744.1	0.00	99.27
104.0-105.0	0.3	0.0	744.1	0.00	99.28
105.0-106.0	0.4	0.0	744.2	0.01	99.28
106.0-107.0	0.4	0.0	744.2	0.01	99.29
107.0-108.0	0.4	0.0	744.2	0.01	99.29

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.5	0.0	744.3	0.01	99.30
109.0-110.0	0.5	0.0	744.3	0.01	99.31
110.0-111.0	0.5	0.1	744.4	0.01	99.31
111.0-112.0	0.5	0.1	744.4	0.01	99.32
112.0-113.0	0.6	0.1	744.5	0.01	99.33
113.0-114.0	0.6	0.1	744.6	0.01	99.34
114.0-115.0	0.6	0.1	744.6	0.01	99.35
115.0-116.0	0.6	0.1	744.7	0.01	99.35
116.0-117.0	0.7	0.1	744.8	0.01	99.36
117.0-118.0	0.7	0.1	744.8	0.01	99.37
118.0-119.0	0.7	0.1	744.9	0.01	99.38
119.0-120.0	0.8	0.1	745.0	0.01	99.39
120.0-121.0	0.8	0.1	745.1	0.01	99.40
121.0-122.0	0.9	0.1	745.1	0.01	99.41
122.0-123.0	0.9	0.1	745.2	0.01	99.42
123.0-124.0	0.9	0.1	745.3	0.01	99.44
124.0-125.0	0.9	0.1	745.4	0.01	99.45
125.0-126.0	1.0	0.1	745.5	0.01	99.46
126.0-127.0	1.0	0.1	745.6	0.01	99.47
127.0-128.0	1.1	0.1	745.7	0.01	99.48
128.0-129.0	1.1	0.1	745.8	0.01	99.50
129.0-130.0	1.1	0.1	745.9	0.01	99.51
130.0-131.0	1.1	0.1	745.9	0.01	99.52
131.0-132.0	1.2	0.1	746.0	0.01	99.53
132.0-133.0	1.2	0.1	746.1	0.01	99.55
133.0-134.0	1.2	0.1	746.2	0.01	99.56
134.0-135.0	1.3	0.1	746.3	0.01	99.57
135.0-136.0	1.3	0.1	746.4	0.01	99.59
136.0-137.0	1.3	0.1	746.5	0.01	99.60
137.0-138.0	1.4	0.1	746.6	0.01	99.61
138.0-139.0	1.4	0.1	746.7	0.01	99.63
139.0-140.0	1.4	0.1	746.8	0.01	99.64
140.0-141.0	1.5	0.1	746.9	0.01	99.65
141.0-142.0	1.5	0.1	747.0	0.01	99.67
142.0-143.0	1.5	0.1	747.2	0.01	99.68
143.0-144.0	1.5	0.1	747.3	0.01	99.70

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.6	0.1	747.4	0.01	99.71
145.0-146.0	1.6	0.1	747.5	0.01	99.72
146.0-147.0	1.6	0.1	747.6	0.01	99.74
147.0-148.0	1.7	0.1	747.7	0.01	99.75
148.0-149.0	1.7	0.1	747.7	0.01	99.76
149.0-150.0	1.7	0.1	747.8	0.01	99.77
150.0-151.0	1.8	0.1	747.9	0.01	99.79
151.0-152.0	1.8	0.1	748.0	0.01	99.80
152.0-153.0	1.8	0.1	748.1	0.01	99.81
153.0-154.0	1.9	0.1	748.2	0.01	99.82
154.0-155.0	1.9	0.1	748.3	0.01	99.84
155.0-156.0	1.9	0.1	748.4	0.01	99.85
156.0-157.0	1.9	0.1	748.5	0.01	99.86
157.0-158.0	2.0	0.1	748.6	0.01	99.87
158.0-159.0	2.0	0.1	748.6	0.01	99.88
159.0-160.0	2.0	0.1	748.7	0.01	99.89
160.0-161.0	2.0	0.1	748.8	0.01	99.90
161.0-162.0	2.0	0.1	748.9	0.01	99.91
162.0-163.0	2.1	0.1	748.9	0.01	99.92
163.0-164.0	2.1	0.1	749.0	0.01	99.93
164.0-165.0	2.1	0.1	749.1	0.01	99.94
165.0-166.0	2.1	0.1	749.1	0.01	99.94
166.0-167.0	2.2	0.1	749.2	0.01	99.95
167.0-168.0	2.2	0.1	749.2	0.01	99.96
168.0-169.0	2.2	0.0	749.3	0.01	99.97
169.0-170.0	2.2	0.0	749.3	0.01	99.97
170.0-171.0	2.2	0.0	749.4	0.01	99.98
171.0-172.0	2.2	0.0	749.4	0.00	99.98
172.0-173.0	2.2	0.0	749.4	0.00	99.99
173.0-174.0	2.3	0.0	749.5	0.00	99.99
174.0-175.0	2.3	0.0	749.5	0.00	99.99
175.0-176.0	2.3	0.0	749.5	0.00	100.00
176.0-177.0	2.3	0.0	749.5	0.00	100.00
177.0-178.0	2.3	0.0	749.5	0.00	100.00
178.0-179.0	2.3	0.0	749.5	0.00	100.00
179.0-180.0	2.3	0.0	749.5	0.00	100.00

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Zonal Lumen (Continue 5)

cone flux(90°): 442.28 lm

%lum = 59.0%  
%lamp = 59.0%

cone flux(120°): 617.89 lm

%lum = 82.4%  
%lamp = 82.4%



## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	317.9	320.0	317.9	320.0	317.9					
G1.0	318.0	319.7	317.6	320.0	318.0					
G2.0	318.0	319.4	317.2	319.7	318.0					
G3.0	317.6	318.8	316.5	319.4	317.6					
G4.0	317.2	318.1	315.6	318.7	317.2					
G5.0	316.6	317.1	314.7	318.0	316.6					
G6.0	315.7	316.0	313.4	317.0	315.7					
G7.0	314.6	314.7	312.1	315.9	314.6					
G8.0	313.6	313.4	310.3	314.5	313.6					
G9.0	312.1	311.6	308.7	313.0	312.1					
G10.0	310.6	309.9	306.8	311.5	310.6					
G11.0	308.7	307.8	304.6	309.5	308.7					
G12.0	306.9	305.6	302.5	307.5	306.9					
G13.0	304.9	303.3	299.8	305.2	304.9					
G14.0	302.5	300.8	297.4	302.9	302.5					
G15.0	300.1	298.1	294.7	300.5	300.1					
G16.0	297.5	295.4	291.7	297.5	297.5					
G17.0	296.1	292.6	288.7	295.0	296.1					
G18.0	293.4	289.2	285.6	292.0	293.4					
G19.0	290.4	285.9	282.1	288.8	290.4					
G20.0	287.3	282.5	278.8	285.5	287.3					
G21.0	284.0	279.1	275.0	282.0	284.0					
G22.0	280.4	275.4	271.5	278.6	280.4					
G23.0	276.9	271.6	267.6	275.0	276.9					
G24.0	272.1	267.9	263.6	271.0	272.1					
G25.0	268.0	263.6	260.0	267.3	268.0					
G26.0	264.3	259.8	255.8	263.4	264.3					
G27.0	260.0	255.3	251.6	259.0	260.0					
G28.0	256.3	251.3	247.6	255.1	256.3					
G29.0	253.0	247.0	243.0	250.6	253.0					
G30.0	248.5	242.4	238.7	246.2	248.5					
G31.0	244.1	237.9	234.1	242.1	244.1					
G32.0	239.9	233.6	229.1	237.5	239.9					
G33.0	235.0	228.7	224.6	232.9	235.0					
G34.0	230.5	224.2	220.1	228.6	230.5					
G35.0	225.7	219.3	215.3	223.6	225.7					
G36.0	220.9	214.6	210.5	219.1	220.9					

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	216.0	210.0	205.6	213.9	216.0					
G38.0	211.2	204.7	200.8	209.3	211.2					
G39.0	206.6	200.0	196.2	204.6	206.6					
G40.0	201.4	194.9	190.8	199.6	201.4					
G41.0	196.7	190.0	186.3	194.7	196.7					
G42.0	192.1	185.4	181.8	190.1	192.1					
G43.0	186.9	180.2	176.7	184.9	186.9					
G44.0	182.3	175.3	171.8	180.3	182.3					
G45.0	177.3	170.7	166.8	174.9	177.3					
G46.0	172.1	165.3	161.7	170.1	172.1					
G47.0	167.4	160.8	157.0	165.5	167.4					
G48.0	162.1	155.6	151.8	160.3	162.1					
G49.0	157.5	150.9	147.9	155.5	157.5					
G50.0	152.5	146.3	143.3	150.9	152.5					
G51.0	147.6	141.3	137.8	145.7	147.6					
G52.0	142.9	136.4	133.1	140.9	142.9					
G53.0	138.1	131.9	128.2	135.8	138.1					
G54.0	133.2	127.0	123.4	131.2	133.2					
G55.0	128.7	122.3	118.8	126.6	128.7					
G56.0	123.7	117.4	113.9	121.8	123.7					
G57.0	119.0	112.7	109.6	117.1	119.0					
G58.0	114.6	108.6	104.5	112.3	114.6					
G59.0	109.7	103.5	100.4	107.7	109.7					
G60.0	105.3	99.3	96.2	103.5	105.3					
G61.0	100.6	95.0	91.6	98.5	100.6					
G62.0	95.8	90.2	87.2	94.2	95.8					
G63.0	91.6	85.9	82.8	89.9	91.6					
G64.0	86.8	81.2	78.3	85.2	86.8					
G65.0	82.5	77.1	74.1	81.0	82.5					
G66.0	78.3	73.0	69.6	76.2	78.3					
G67.0	73.9	68.6	65.5	72.2	73.9					
G68.0	69.6	64.3	61.5	68.0	69.6					
G69.0	65.7	60.4	57.1	63.6	65.7					
G70.0	61.2	55.8	53.1	59.4	61.2					
G71.0	57.3	51.8	49.3	55.3	57.3					
G72.0	52.8	47.8	45.0	51.3	52.8					
G73.0	49.1	44.0	41.3	47.3	49.1					

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	45.1	40.1	37.4	43.1	45.1					
G75.0	41.1	36.0	33.6	39.4	41.1					
G76.0	37.3	32.5	30.0	35.6	37.3					
G77.0	33.9	28.9	26.3	31.5	33.9					
G78.0	29.9	25.5	22.7	27.6	29.9					
G79.0	26.5	22.2	19.4	24.5	26.5					
G80.0	23.0	18.9	16.0	20.7	23.0					
G81.0	19.9	15.9	13.3	17.6	19.9					
G82.0	16.8	13.1	10.3	14.2	16.8					
G83.0	13.7	10.4	7.8	11.5	13.7					
G84.0	11.1	7.9	5.6	9.1	11.1					
G85.0	8.4	5.4	3.7	6.5	8.4					
G86.0	6.3	3.2	2.2	4.5	6.3					
G87.0	4.3	1.6	1.2	2.5	4.3					
G88.0	2.6	0.5	0.2	1.1	2.6					
G89.0	1.5	0.0	0.1	0.1	1.5					
G90.0	0.5	0.1	0.1	0.0	0.5					
G91.0	0.1	0.1	0.1	0.1	0.1					
G92.0	0.1	0.1	0.1	0.0	0.1					
G93.0	0.1	0.2	0.1	0.1	0.1					
G94.0	0.2	0.2	0.1	0.1	0.2					
G95.0	0.2	0.2	0.1	0.1	0.2					
G96.0	0.2	0.2	0.2	0.1	0.2					
G97.0	0.2	0.2	0.2	0.1	0.2					
G98.0	0.2	0.3	0.2	0.2	0.2					
G99.0	0.2	0.3	0.2	0.2	0.2					
G100.0	0.3	0.3	0.2	0.2	0.3					
G101.0	0.3	0.3	0.2	0.2	0.3					
G102.0	0.3	0.3	0.3	0.2	0.3					
G103.0	0.4	0.3	0.3	0.3	0.4					
G104.0	0.4	0.4	0.3	0.3	0.4					
G105.0	0.4	0.4	0.3	0.3	0.4					
G106.0	0.4	0.5	0.4	0.3	0.4					
G107.0	0.4	0.5	0.4	0.3	0.4					
G108.0	0.5	0.5	0.4	0.4	0.5					
G109.0	0.5	0.5	0.4	0.4	0.5					
G110.0	0.5	0.6	0.5	0.4	0.5					

C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 7.100 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	0.6	0.6	0.5	0.5	0.6					
G112.0	0.6	0.6	0.5	0.5	0.6					
G113.0	0.6	0.7	0.6	0.5	0.6					
G114.0	0.7	0.6	0.6	0.6	0.7					
G115.0	0.7	0.7	0.4	0.6	0.7					
G116.0	0.8	0.7	0.7	0.6	0.8					
G117.0	0.7	0.8	0.7	0.6	0.7					
G118.0	0.7	0.8	0.7	0.6	0.7					
G119.0	0.8	0.8	0.7	0.7	0.8					
G120.0	0.8	0.9	0.8	0.8	0.8					
G121.0	0.9	0.9	0.8	0.7	0.9					
G122.0	0.9	0.9	0.9	0.8	0.9					
G123.0	1.0	1.0	0.9	0.8	1.0					
G124.0	0.9	1.0	0.9	0.9	0.9					
G125.0	1.0	1.0	0.9	0.9	1.0					
G126.0	1.1	1.1	1.0	0.9	1.1					
G127.0	1.0	1.1	1.0	0.9	1.0					
G128.0	1.1	1.1	1.1	1.0	1.1					
G129.0	1.1	1.2	1.1	1.0	1.1					
G130.0	1.2	1.2	1.1	1.0	1.2					
G131.0	1.2	1.2	1.2	1.0	1.2					
G132.0	1.3	1.3	1.2	1.1	1.3					
G133.0	1.3	1.3	1.2	1.1	1.3					
G134.0	1.3	1.3	1.2	1.2	1.3					
G135.0	1.4	1.3	1.3	1.2	1.4					
G136.0	1.4	1.4	1.3	1.2	1.4					
G137.0	1.4	1.4	1.3	1.3	1.4					
G138.0	1.5	1.4	1.4	1.2	1.5					
G139.0	1.5	1.5	1.4	1.3	1.5					
G140.0	1.5	1.5	1.4	1.3	1.5					
G141.0	1.6	1.5	1.4	1.4	1.6					
G142.0	1.5	1.5	1.5	1.4	1.5					
G143.0	1.6	1.6	1.5	1.4	1.6					
G144.0	1.6	1.7	1.5	1.4	1.6					
G145.0	1.6	1.7	1.6	1.5	1.6					
G146.0	1.7	1.7	1.6	1.5	1.7					
G147.0	1.7	1.7	1.6	1.5	1.7					

C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 7.100 m [K=1.0000]  
Humidity:  
Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	1.8	1.8	1.7	1.6	1.8					
G149.0	1.8	1.8	1.7	1.6	1.8					
G150.0	1.8	1.8	1.8	1.7	1.8					
G151.0	1.8	1.8	1.8	1.7	1.8					
G152.0	1.9	1.9	1.8	1.7	1.9					
G153.0	1.9	1.9	1.9	1.8	1.9					
G154.0	1.9	1.9	1.9	1.8	1.9					
G155.0	1.9	2.0	1.9	1.8	1.9					
G156.0	2.0	1.9	1.9	1.9	2.0					
G157.0	2.0	2.0	1.9	1.8	2.0					
G158.0	2.0	2.0	2.0	1.9	2.0					
G159.0	2.0	2.0	2.0	1.9	2.0					
G160.0	2.0	2.1	2.1	1.9	2.0					
G161.0	2.0	2.1	2.1	2.0	2.0					
G162.0	2.0	2.0	2.1	2.0	2.0					
G163.0	2.1	2.0	2.1	2.1	2.1					
G164.0	2.2	2.1	2.1	2.0	2.2					
G165.0	2.1	2.1	2.2	2.1	2.1					
G166.0	2.2	2.1	2.2	2.1	2.2					
G167.0	2.2	2.2	2.2	2.1	2.2					
G168.0	2.2	2.2	2.2	2.2	2.2					
G169.0	2.2	2.2	2.2	2.1	2.2					
G170.0	2.2	2.2	2.3	2.2	2.2					
G171.0	2.3	2.3	2.3	2.2	2.3					
G172.0	2.2	2.2	2.2	2.2	2.2					
G173.0	2.3	2.3	2.3	2.2	2.3					
G174.0	2.3	2.3	2.3	2.2	2.3					
G175.0	2.3	2.3	2.3	2.3	2.3					
G176.0	2.3	2.3	2.3	2.3	2.3					
G177.0	2.3	2.3	2.3	2.3	2.3					
G178.0	2.3	2.3	2.4	2.3	2.3					
G179.0	2.3	2.3	2.4	2.3	2.3					
G180.0	2.3	2.3	2.3	2.3	2.3					

C Plane (°):0.0-360.0: 90.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator: 张宇哲

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 7.100 m [K=1.0000]  
 Humidity:  
 Inspector:

## LED Average Luminance Report

Avg.L	cd/m <sup>2</sup>
L 0-180(65) av	63384.15
L 0-180(75) av	49405.73
L 0-180(85) av	23634.75
L 90-270(65) av	63991.40
L 90-270(75) av	49861.84
L 90-270(85) av	23281.41
L 45(65) av	63687.78
L 45(75) av	49633.78
L 45(85) av	23458.08

Standard: GB/T 29293-2012