

Report No.:

Test Time: 2025-11-19 14:24

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -61

Luminous Height (mm):

Current: 0.082 A

Power Factor: 0.919

Luminaire Description: 87669-4000K

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -61

Voltage: 120.2 V

Power: 9.11 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 783.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H95.2

Vertical Diffuse Angle(50%): V95.3

Luminaire Efficacy Rating (LER): 86.05

Max. Intensity: 333.43 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 783.4 lm

Efficiency: 100%

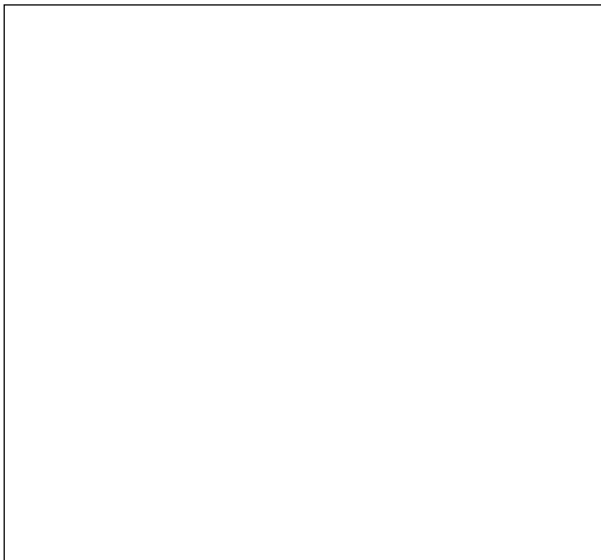
Upward Ratio: 1%

C0r0 Intensity: 333.32 cd

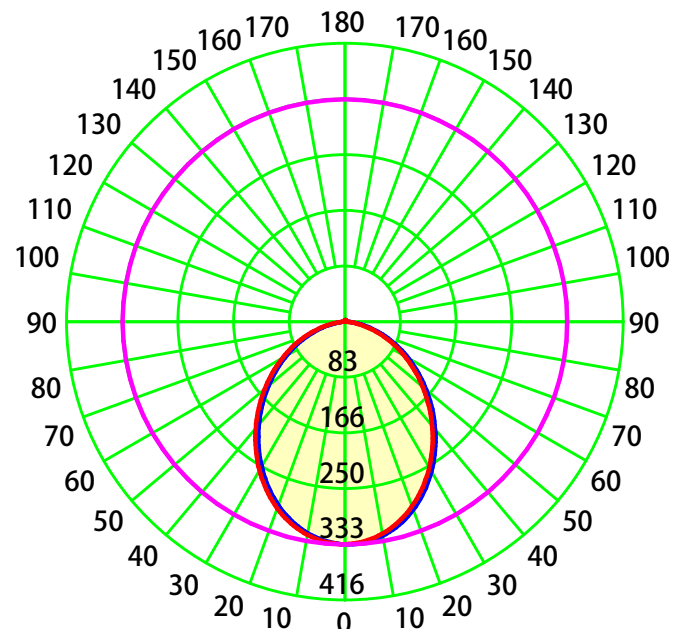
Pos of Max. Intensity: H0 V1

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 — G1

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

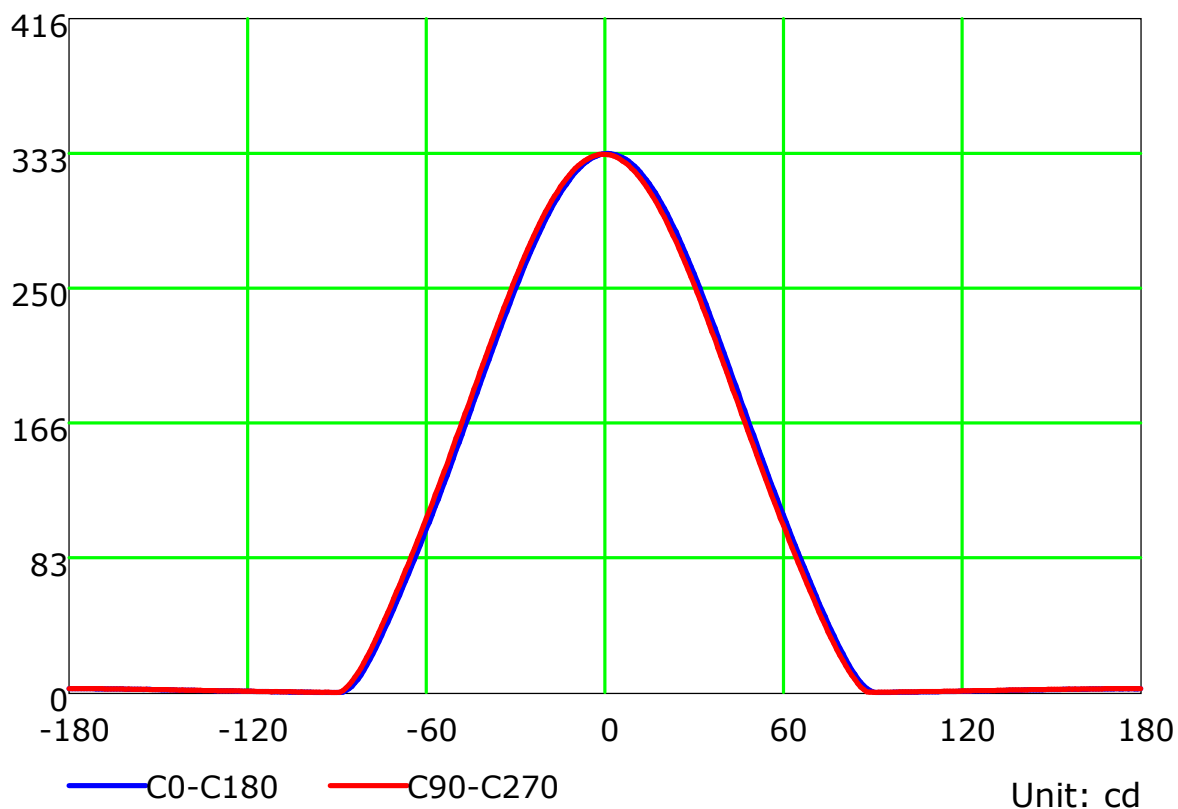
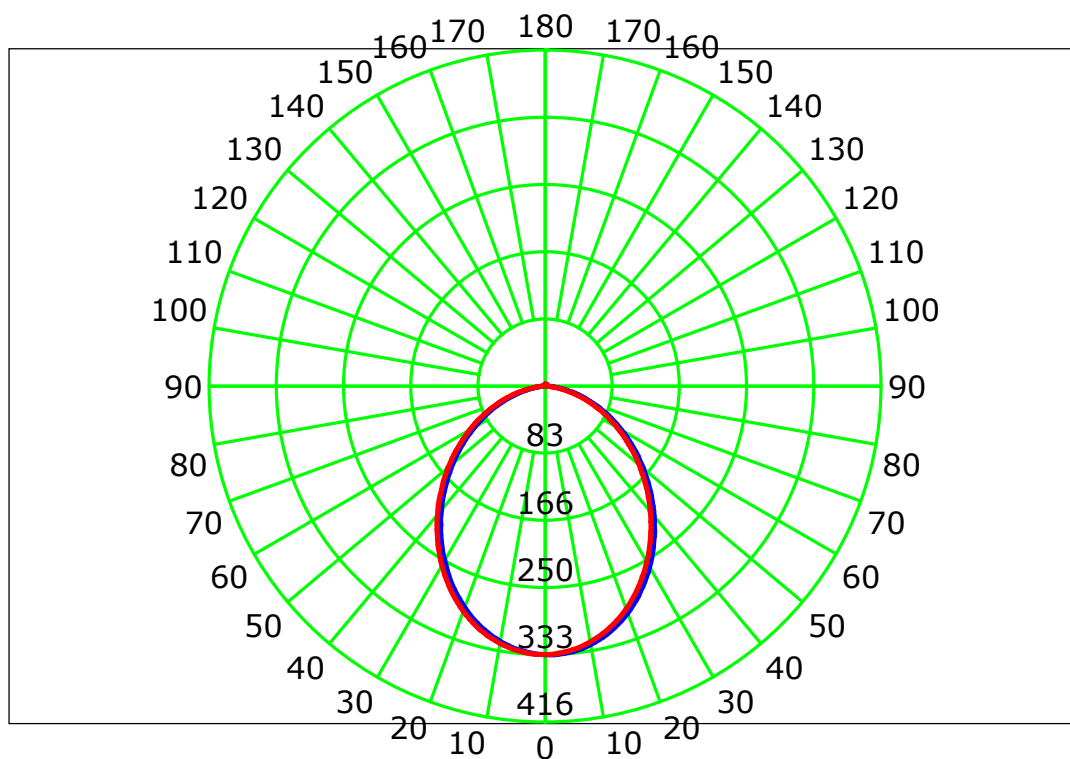
Test Device: GPM-1600L

Distance: 7.100 m [K=1.0000]

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0  
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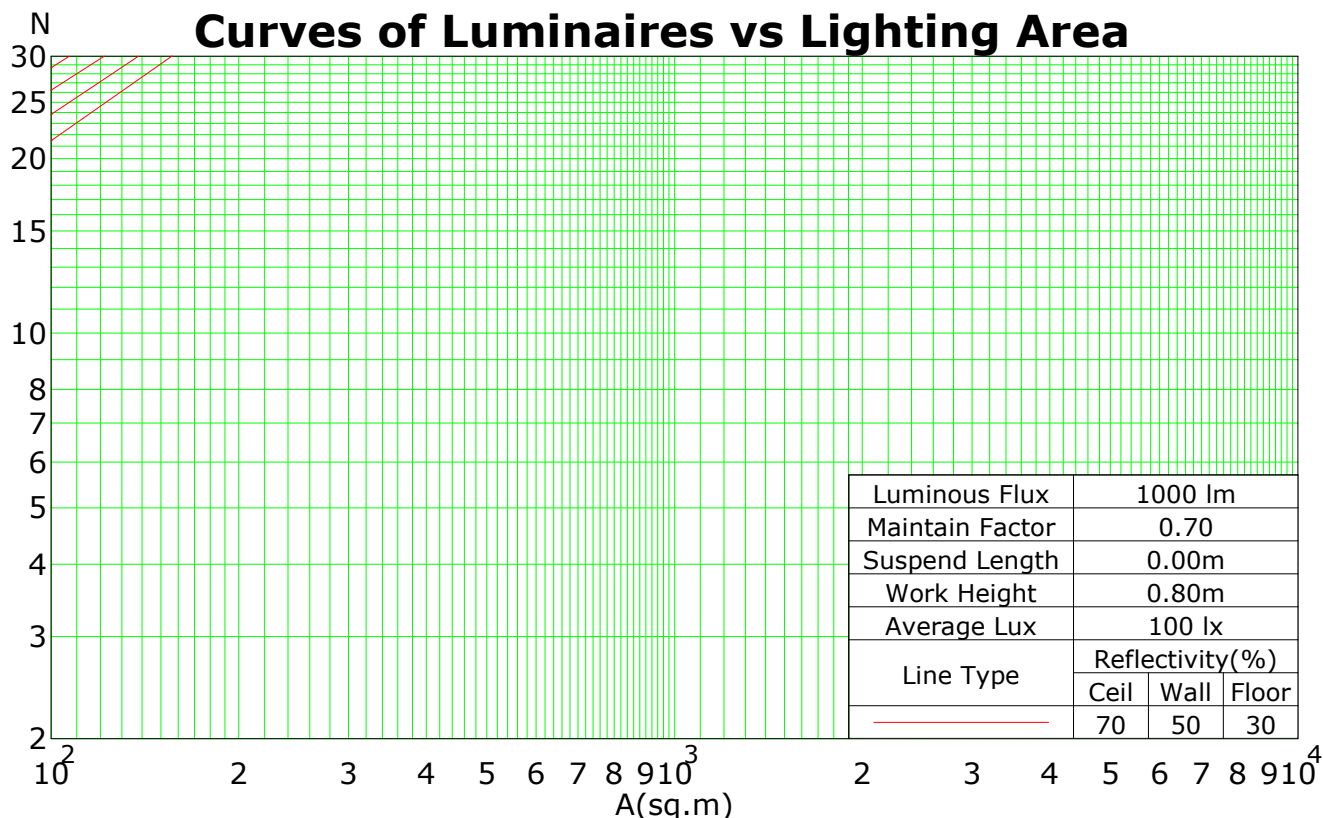
## Coefficients Of Utilization - Zonal Cavity Method

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	0.63	0.61
4	0.84	0.73	0.64	0.58	0.82	0.71	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	0.39	0.65	0.53	0.45	0.39	0.51	0.44	0.39	0.50	0.43	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	0.41	0.34	0.29	0.40	0.34	0.29	0.39	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

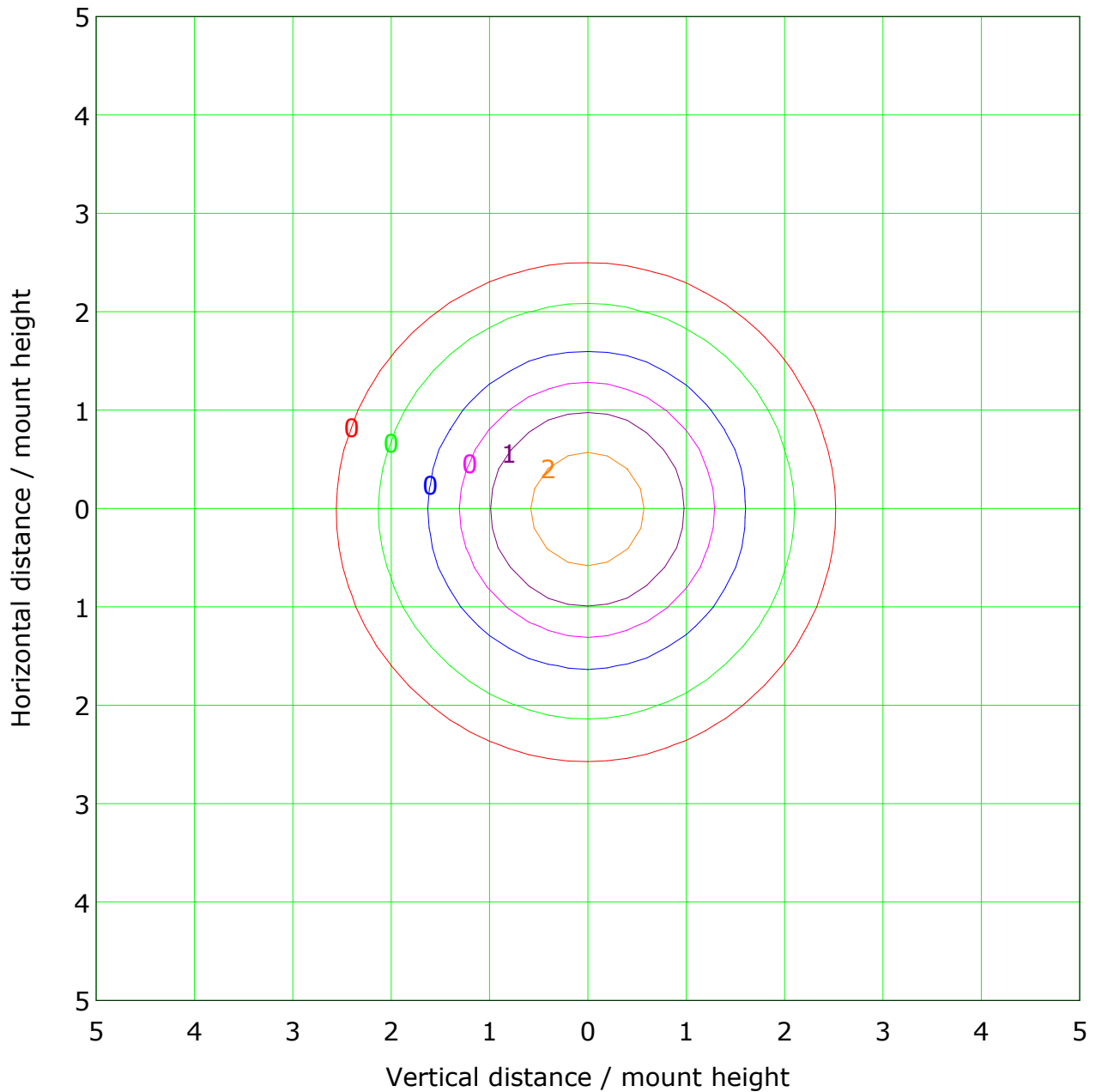
Test Device: GPM-1600L

Distance: 7.100 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 3.3 lx

( 1%): 0.0 lx	( 2%): 0.1 lx
( 5%): 0.2 lx	( 10%): 0.3 lx
( 20%): 0.7 lx	( 50%): 1.7 lx
(100%): 3.3 lx	

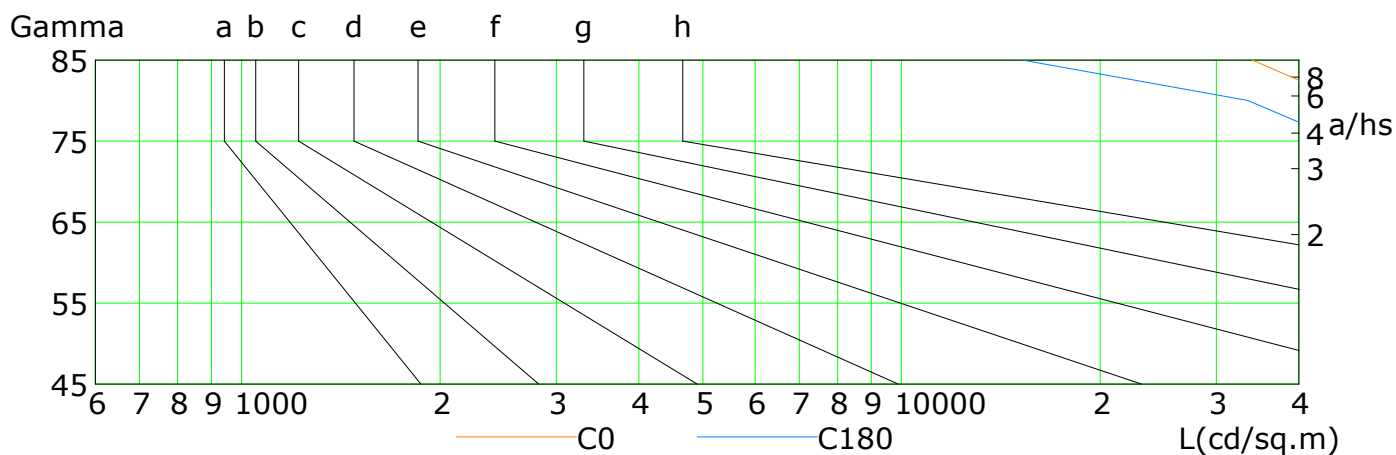
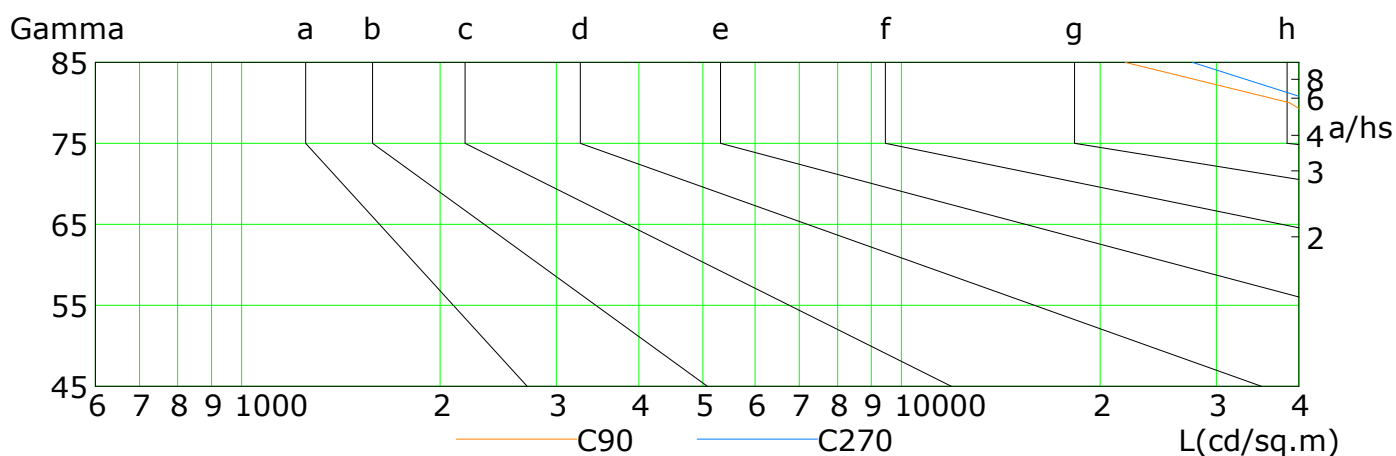
C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

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

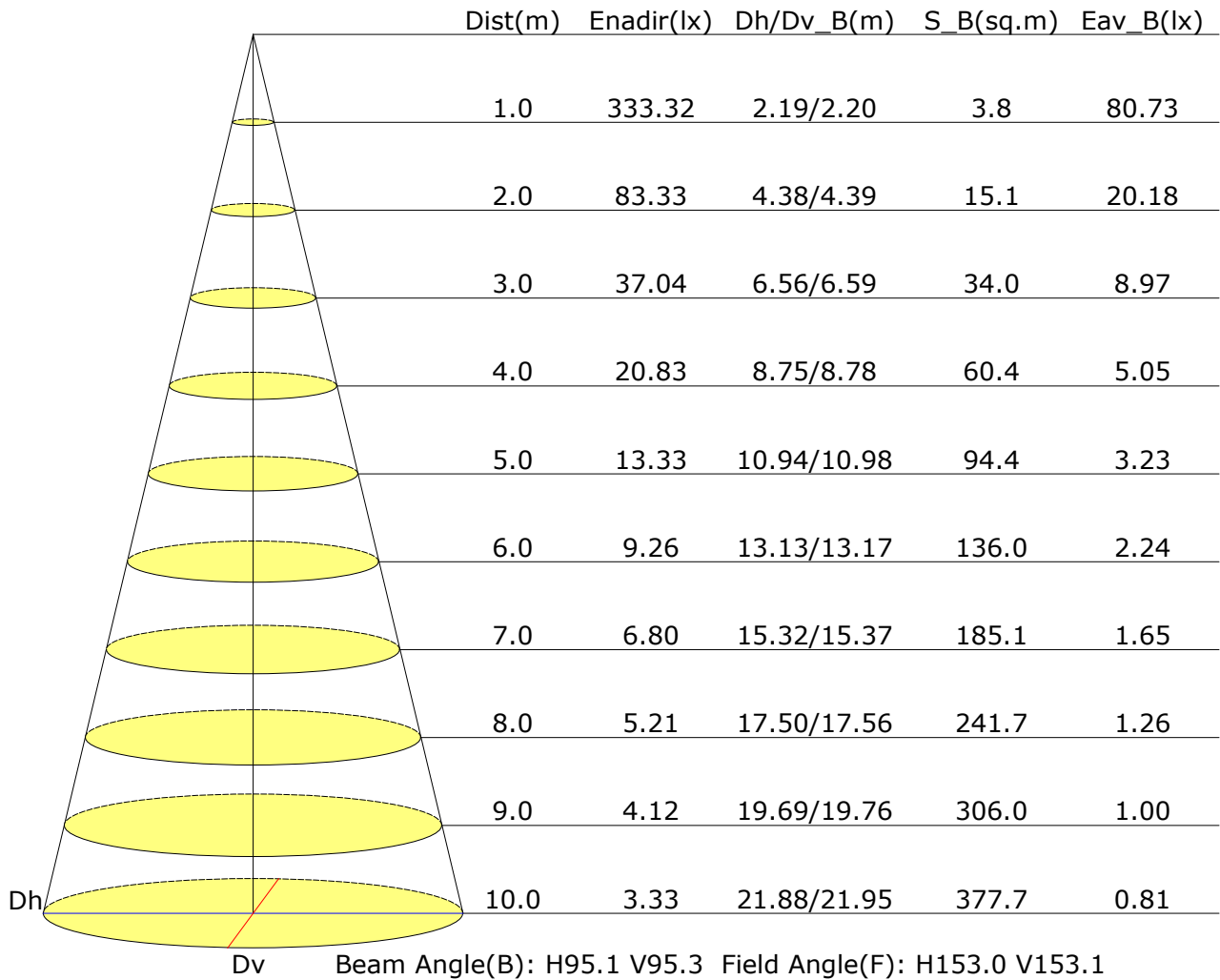


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	89509	84795	79964	75121	69938	64119	56756	47214	34039
C90	86044	81127	75985	70824	65008	58437	49551	38721	21829
C180	84636	79887	74523	69263	63178	56026	46854	33479	15272
C270	88285	83858	78860	73760	68643	62409	54522	43075	27600

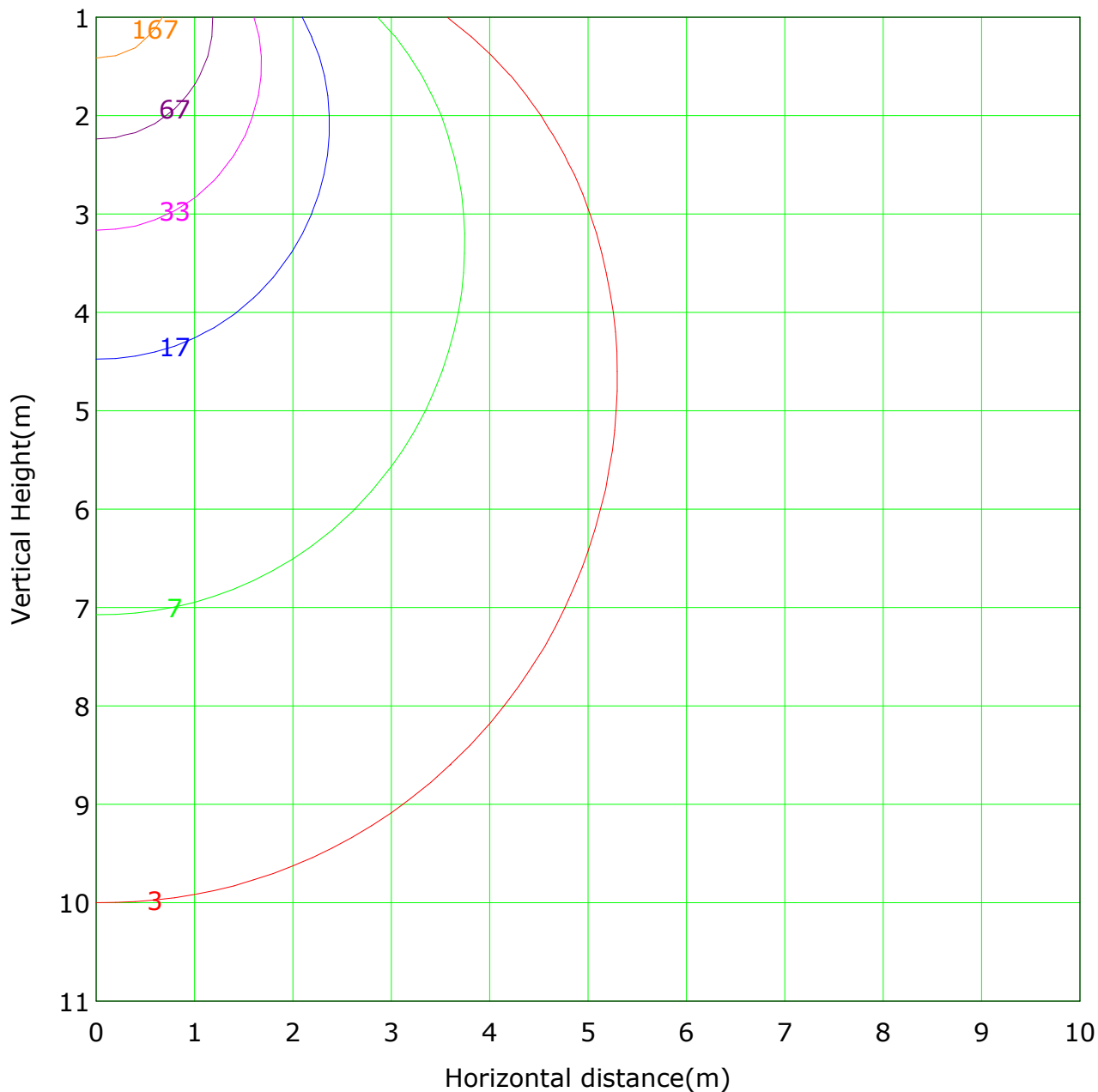
C Plane (°):0.0-360.0: 90.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator: 张宇哲

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

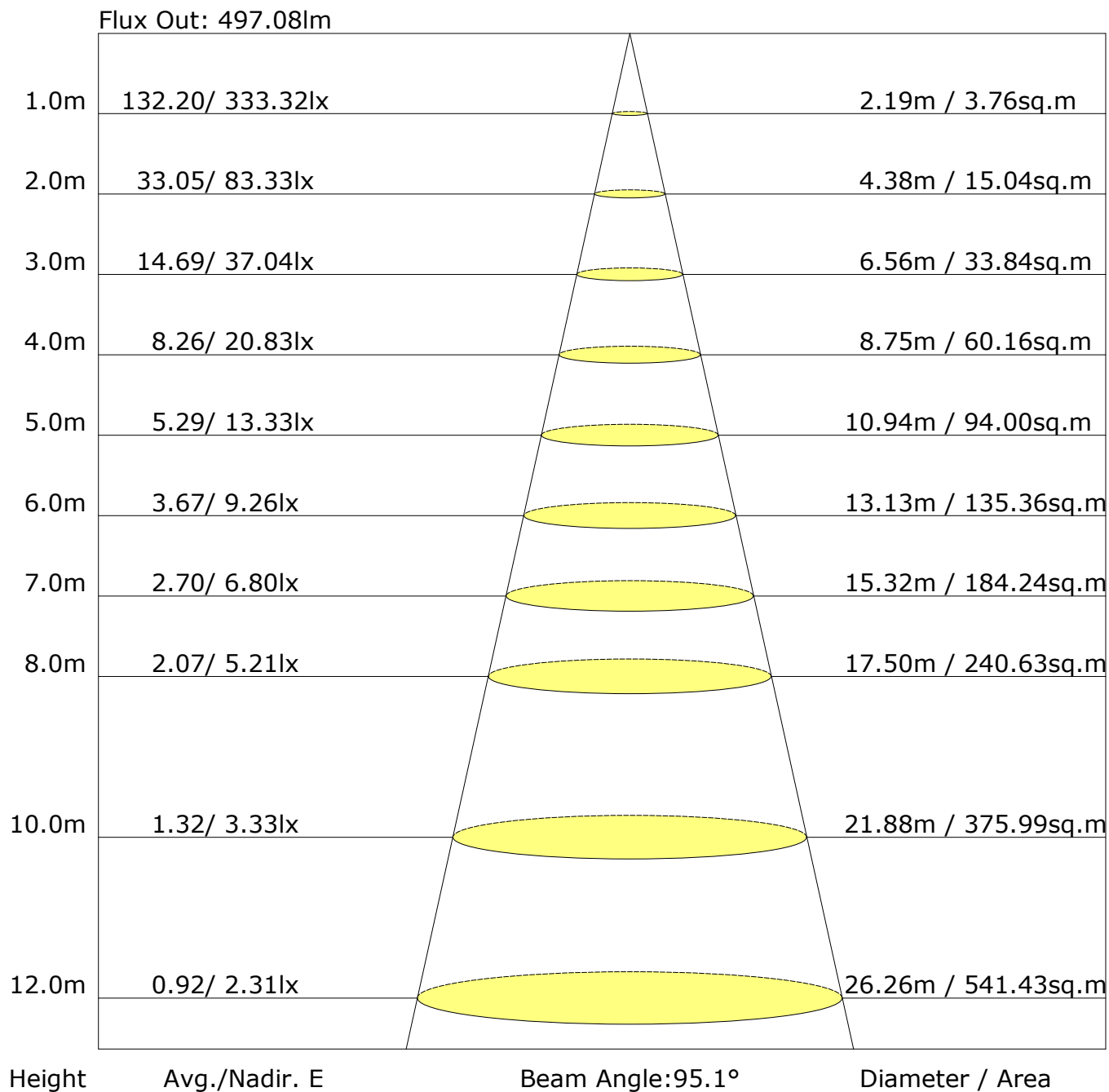


## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 333.3 lx  
— ( 1%): 3.3 lx                      — ( 2%): 6.7 lx  
— ( 5%): 16.7 lx                     — ( 10%): 33.3 lx  
— ( 20%): 66.7 lx                   — ( 50%): 166.7 lx  
— (100%): 333.3 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	27.6	29.0	27.9	29.2	29.5	27.5	28.8	27.8	29.1	29.3
3H	29.0	30.2	29.3	30.4	30.7	28.8	30.0	29.1	30.3	30.5
4H	29.5	30.6	29.8	30.9	31.2	29.3	30.4	29.6	30.7	31.0
6H	29.8	30.9	30.2	31.2	31.5	29.5	30.6	29.9	30.9	31.2
8H	29.9	30.9	30.3	31.2	31.6	29.6	30.6	30.0	30.9	31.3
12H	29.9	30.9	30.3	31.2	31.6	29.6	30.6	30.0	30.9	31.3
X=4H Y=2H	28.2	29.3	28.6	29.6	29.9	28.1	29.2	28.5	29.5	29.8
3H	29.7	30.7	30.1	31.0	31.4	29.6	30.5	30.0	30.9	31.2
4H	30.4	31.2	30.8	31.6	32.0	30.2	31.0	30.6	31.4	31.8
6H	30.8	31.5	31.2	31.9	32.4	30.5	31.3	31.0	31.7	32.1
8H	30.9	31.6	31.4	32.0	32.5	30.6	31.3	31.1	31.7	32.2
12H	31.0	31.6	31.5	32.0	32.5	30.7	31.3	31.1	31.7	32.2
X=8H Y=4H	30.6	31.3	31.0	31.7	32.1	30.4	31.1	30.8	31.5	31.9
6H	31.1	31.7	31.6	32.1	32.6	30.9	31.4	31.4	31.9	32.4
8H	31.3	31.8	31.8	32.3	32.8	31.0	31.5	31.5	32.0	32.5
12H	31.4	31.8	31.9	32.3	32.9	31.1	31.5	31.6	32.0	32.5
X=12H Y=4H	30.6	31.2	31.0	31.6	32.1	30.4	31.0	30.9	31.5	31.9
6H	31.1	31.6	31.6	32.1	32.6	30.9	31.4	31.4	31.9	32.4
8H	31.4	31.8	31.9	32.3	32.8	31.1	31.5	31.6	32.0	32.5
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  $783\text{lm}$  ( $8\log(F/F_0) = -0.8$ ).

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

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	395	50.4
	FL ( 0°-30°)	124	15.8
	FM (30°-60°)	202	25.8
	FH (60°-80°)	64	8.1
	FVH (80°-90°)	5	0.6
	BACK LIGHT	382	48.8
	BL ( 0°-30°)	122	15.6
	BM (30°-60°)	197	25.1
	BH (60°-80°)	60	7.6
	BVH (80°-90°)	4	0.5
	UP LIGHT	6	0.8
	UL (90°-100°)	0	0.0
	UH (100°-180°)	6	0.8
	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	333.1	0.3	0.3	0.04	0.04
1.0-2.0	332.9	1.0	1.3	0.12	0.16
2.0-3.0	332.5	1.6	2.9	0.20	0.37
3.0-4.0	331.9	2.2	5.1	0.28	0.65
4.0-5.0	331.1	2.8	7.9	0.36	1.01
5.0-6.0	330.1	3.5	11.4	0.44	1.46
6.0-7.0	329.0	4.1	15.5	0.52	1.98
7.0-8.0	327.6	4.7	20.2	0.60	2.58
8.0-9.0	326.1	5.3	25.5	0.67	3.25
9.0-10.0	324.3	5.9	31.3	0.75	4.00
10.0-11.0	322.4	6.4	37.8	0.82	4.82
11.0-12.0	320.3	7.0	44.8	0.89	5.72
12.0-13.0	318.0	7.5	52.3	0.96	6.68
13.0-14.0	315.6	8.1	60.4	1.03	7.71
14.0-15.0	313.0	8.6	69.0	1.10	8.81
15.0-16.0	310.2	9.1	78.1	1.16	9.97
16.0-17.0	307.3	9.6	87.7	1.22	11.19
17.0-18.0	304.3	10.0	97.7	1.28	12.47
18.0-19.0	301.0	10.5	108.2	1.34	13.81
19.0-20.0	297.5	10.9	119.1	1.39	15.20
20.0-21.0	294.0	11.3	130.4	1.44	16.64
21.0-22.0	290.3	11.7	142.0	1.49	18.13
22.0-23.0	286.5	12.0	154.0	1.53	19.66
23.0-24.0	282.7	12.4	166.4	1.58	21.24
24.0-25.0	278.6	12.7	179.1	1.62	22.86
25.0-26.0	274.5	13.0	192.0	1.65	24.51
26.0-27.0	270.2	13.2	205.2	1.69	26.20
27.0-28.0	265.8	13.5	218.7	1.72	27.92
28.0-29.0	261.4	13.7	232.4	1.75	29.66
29.0-30.0	256.8	13.9	246.2	1.77	31.43
30.0-31.0	252.2	14.0	260.3	1.79	33.22
31.0-32.0	247.6	14.2	274.5	1.81	35.03
32.0-33.0	242.8	14.3	288.8	1.83	36.86
33.0-34.0	238.0	14.4	303.2	1.84	38.70
34.0-35.0	233.2	14.5	317.7	1.85	40.55
35.0-36.0	228.2	14.5	332.2	1.85	42.40

C Plane (°):0.0-360.0: 90.0  
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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	223.3	14.6	346.8	1.86	44.26
37.0-38.0	218.2	14.6	361.3	1.86	46.12
38.0-39.0	213.2	14.6	375.9	1.86	47.98
39.0-40.0	208.0	14.5	390.4	1.85	49.83
40.0-41.0	202.9	14.5	404.8	1.84	51.68
41.0-42.0	198.0	14.4	419.2	1.84	53.51
42.0-43.0	192.9	14.3	433.5	1.82	55.34
43.0-44.0	187.7	14.2	447.7	1.81	57.15
44.0-45.0	182.7	14.0	461.7	1.79	58.94
45.0-46.0	177.4	13.9	475.6	1.77	60.71
46.0-47.0	172.3	13.7	489.3	1.75	62.46
47.0-48.0	167.2	13.5	502.8	1.73	64.18
48.0-49.0	162.1	13.3	516.2	1.70	65.88
49.0-50.0	157.2	13.1	529.3	1.67	67.56
50.0-51.0	152.2	12.9	542.1	1.64	69.20
51.0-52.0	147.0	12.6	554.8	1.61	70.81
52.0-53.0	142.0	12.4	567.1	1.58	72.39
53.0-54.0	136.9	12.1	579.2	1.54	73.93
54.0-55.0	132.0	11.8	591.0	1.50	75.43
55.0-56.0	127.1	11.5	602.5	1.47	76.90
56.0-57.0	122.2	11.2	613.6	1.43	78.33
57.0-58.0	117.4	10.9	624.5	1.39	79.71
58.0-59.0	112.6	10.5	635.0	1.34	81.06
59.0-60.0	107.9	10.2	645.2	1.30	82.36
60.0-61.0	103.2	9.9	655.1	1.26	83.61
61.0-62.0	98.5	9.5	664.6	1.21	84.83
62.0-63.0	93.9	9.1	673.7	1.17	85.99
63.0-64.0	89.2	8.8	682.4	1.12	87.11
64.0-65.0	84.6	8.4	690.8	1.07	88.18
65.0-66.0	80.1	8.0	698.8	1.02	89.20
66.0-67.0	75.7	7.6	706.4	0.97	90.17
67.0-68.0	71.2	7.2	713.6	0.92	91.09
68.0-69.0	66.9	6.8	720.5	0.87	91.96
69.0-70.0	62.5	6.4	726.9	0.82	92.78
70.0-71.0	58.1	6.0	732.9	0.77	93.55
71.0-72.0	53.8	5.6	738.5	0.71	94.26

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	49.6	5.2	743.7	0.66	94.92
73.0-74.0	45.5	4.8	748.4	0.61	95.53
74.0-75.0	41.4	4.4	752.8	0.56	96.09
75.0-76.0	37.4	4.0	756.8	0.51	96.60
76.0-77.0	33.5	3.6	760.4	0.46	97.05
77.0-78.0	29.6	3.2	763.5	0.40	97.46
78.0-79.0	25.9	2.8	766.3	0.36	97.81
79.0-80.0	22.4	2.4	768.7	0.31	98.12
80.0-81.0	19.0	2.1	770.8	0.26	98.38
81.0-82.0	15.8	1.7	772.5	0.22	98.60
82.0-83.0	12.8	1.4	773.9	0.18	98.78
83.0-84.0	10.1	1.1	775.0	0.14	98.92
84.0-85.0	7.6	0.8	775.8	0.11	99.03
85.0-86.0	5.3	0.6	776.4	0.07	99.10
86.0-87.0	3.4	0.4	776.8	0.05	99.15
87.0-88.0	1.9	0.2	777.0	0.03	99.18
88.0-89.0	0.8	0.1	777.1	0.01	99.19
89.0-90.0	0.4	0.0	777.1	0.01	99.19
90.0-91.0	0.2	0.0	777.1	0.00	99.19
91.0-92.0	0.1	0.0	777.1	0.00	99.20
92.0-93.0	0.2	0.0	777.2	0.00	99.20
93.0-94.0	0.2	0.0	777.2	0.00	99.20
94.0-95.0	0.2	0.0	777.2	0.00	99.20
95.0-96.0	0.2	0.0	777.2	0.00	99.21
96.0-97.0	0.2	0.0	777.2	0.00	99.21
97.0-98.0	0.3	0.0	777.3	0.00	99.21
98.0-99.0	0.3	0.0	777.3	0.00	99.22
99.0-100.0	0.3	0.0	777.3	0.00	99.22
100.0-101.0	0.3	0.0	777.4	0.00	99.23
101.0-102.0	0.4	0.0	777.4	0.00	99.23
102.0-103.0	0.4	0.0	777.4	0.01	99.24
103.0-104.0	0.4	0.0	777.5	0.01	99.24
104.0-105.0	0.4	0.0	777.5	0.01	99.25
105.0-106.0	0.5	0.0	777.6	0.01	99.25
106.0-107.0	0.5	0.1	777.6	0.01	99.26
107.0-108.0	0.5	0.1	777.7	0.01	99.27

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	0.1	777.7	0.01	99.27
109.0-110.0	0.6	0.1	777.8	0.01	99.28
110.0-111.0	0.6	0.1	777.8	0.01	99.29
111.0-112.0	0.6	0.1	777.9	0.01	99.30
112.0-113.0	0.6	0.1	778.0	0.01	99.30
113.0-114.0	0.7	0.1	778.0	0.01	99.31
114.0-115.0	0.7	0.1	778.1	0.01	99.32
115.0-116.0	0.7	0.1	778.2	0.01	99.33
116.0-117.0	0.8	0.1	778.3	0.01	99.34
117.0-118.0	0.8	0.1	778.3	0.01	99.35
118.0-119.0	0.8	0.1	778.4	0.01	99.36
119.0-120.0	0.9	0.1	778.5	0.01	99.37
120.0-121.0	0.9	0.1	778.6	0.01	99.38
121.0-122.0	0.9	0.1	778.7	0.01	99.39
122.0-123.0	1.0	0.1	778.8	0.01	99.41
123.0-124.0	1.0	0.1	778.9	0.01	99.42
124.0-125.0	1.0	0.1	779.0	0.01	99.43
125.0-126.0	1.1	0.1	779.1	0.01	99.44
126.0-127.0	1.1	0.1	779.2	0.01	99.45
127.0-128.0	1.1	0.1	779.3	0.01	99.47
128.0-129.0	1.2	0.1	779.4	0.01	99.48
129.0-130.0	1.2	0.1	779.5	0.01	99.49
130.0-131.0	1.2	0.1	779.6	0.01	99.51
131.0-132.0	1.3	0.1	779.7	0.01	99.52
132.0-133.0	1.3	0.1	779.8	0.01	99.53
133.0-134.0	1.3	0.1	779.9	0.01	99.55
134.0-135.0	1.4	0.1	780.0	0.01	99.56
135.0-136.0	1.4	0.1	780.1	0.01	99.57
136.0-137.0	1.5	0.1	780.2	0.01	99.59
137.0-138.0	1.5	0.1	780.3	0.01	99.60
138.0-139.0	1.5	0.1	780.4	0.01	99.62
139.0-140.0	1.5	0.1	780.5	0.01	99.63
140.0-141.0	1.6	0.1	780.6	0.01	99.65
141.0-142.0	1.6	0.1	780.8	0.01	99.66
142.0-143.0	1.6	0.1	780.9	0.01	99.67
143.0-144.0	1.7	0.1	781.0	0.01	99.69

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.7	0.1	781.1	0.01	99.70
145.0-146.0	1.7	0.1	781.2	0.01	99.71
146.0-147.0	1.8	0.1	781.3	0.01	99.73
147.0-148.0	1.8	0.1	781.4	0.01	99.74
148.0-149.0	1.8	0.1	781.5	0.01	99.76
149.0-150.0	1.9	0.1	781.6	0.01	99.77
150.0-151.0	1.9	0.1	781.7	0.01	99.78
151.0-152.0	1.9	0.1	781.8	0.01	99.80
152.0-153.0	2.0	0.1	781.9	0.01	99.81
153.0-154.0	2.0	0.1	782.0	0.01	99.82
154.0-155.0	2.0	0.1	782.1	0.01	99.83
155.0-156.0	2.0	0.1	782.2	0.01	99.84
156.0-157.0	2.1	0.1	782.3	0.01	99.86
157.0-158.0	2.1	0.1	782.4	0.01	99.87
158.0-159.0	2.1	0.1	782.5	0.01	99.88
159.0-160.0	2.1	0.1	782.6	0.01	99.89
160.0-161.0	2.2	0.1	782.6	0.01	99.90
161.0-162.0	2.2	0.1	782.7	0.01	99.91
162.0-163.0	2.2	0.1	782.8	0.01	99.92
163.0-164.0	2.2	0.1	782.9	0.01	99.93
164.0-165.0	2.3	0.1	782.9	0.01	99.94
165.0-166.0	2.3	0.1	783.0	0.01	99.94
166.0-167.0	2.3	0.1	783.0	0.01	99.95
167.0-168.0	2.3	0.1	783.1	0.01	99.96
168.0-169.0	2.3	0.1	783.2	0.01	99.96
169.0-170.0	2.4	0.0	783.2	0.01	99.97
170.0-171.0	2.4	0.0	783.2	0.01	99.98
171.0-172.0	2.4	0.0	783.3	0.00	99.98
172.0-173.0	2.4	0.0	783.3	0.00	99.99
173.0-174.0	2.4	0.0	783.3	0.00	99.99
174.0-175.0	2.4	0.0	783.4	0.00	99.99
175.0-176.0	2.4	0.0	783.4	0.00	100.00
176.0-177.0	2.4	0.0	783.4	0.00	100.00
177.0-178.0	2.4	0.0	783.4	0.00	100.00
178.0-179.0	2.4	0.0	783.4	0.00	100.00
179.0-180.0	2.4	0.0	783.4	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°): 461.74 lm

%lum = 58.9%  
%lamp = 58.9%

cone flux(120°): 645.21 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	333.3	333.0	333.3	333.0	333.3					
G1.0	333.4	332.8	333.0	333.0	333.4					
G2.0	333.3	332.5	332.5	332.8	333.3					
G3.0	333.0	331.9	331.8	332.3	333.0					
G4.0	332.5	331.1	330.9	331.8	332.5					
G5.0	331.8	330.2	329.9	331.0	331.8					
G6.0	330.9	328.9	328.6	330.0	330.9					
G7.0	329.9	327.6	327.2	328.8	329.9					
G8.0	328.7	326.2	325.4	327.5	328.7					
G9.0	327.2	324.3	323.6	325.9	327.2					
G10.0	325.5	322.5	321.7	324.1	325.5					
G11.0	323.7	320.2	319.4	322.2	323.7					
G12.0	321.8	318.1	316.9	320.1	321.8					
G13.0	319.6	315.6	314.4	317.8	319.6					
G14.0	317.1	313.0	311.7	315.3	317.1					
G15.0	314.7	310.2	309.0	312.9	314.7					
G16.0	312.0	307.5	305.8	309.8	312.0					
G17.0	309.1	304.2	302.8	307.1	309.1					
G18.0	306.1	301.1	299.5	304.0	306.1					
G19.0	302.9	297.5	296.0	300.7	302.9					
G20.0	299.5	294.1	292.3	297.4	299.5					
G21.0	296.1	290.4	288.5	293.6	296.1					
G22.0	292.4	286.5	284.6	290.1	292.4					
G23.0	288.7	282.7	280.9	286.4	288.7					
G24.0	285.0	278.9	276.5	282.2	285.0					
G25.0	280.6	274.5	272.5	278.4	280.6					
G26.0	276.7	270.4	268.3	274.3	276.7					
G27.0	272.2	265.7	263.8	269.8	272.2					
G28.0	268.0	261.5	259.3	265.6	268.0					
G29.0	263.7	257.0	254.5	261.0	263.7					
G30.0	259.0	252.3	250.0	256.5	259.0					
G31.0	254.5	247.7	245.5	252.2	254.5					
G32.0	250.2	243.2	240.6	247.2	250.2					
G33.0	245.0	238.1	235.8	242.7	245.0					
G34.0	240.4	233.4	231.0	238.0	240.4					
G35.0	235.3	228.3	225.9	233.0	235.3					
G36.0	230.5	223.3	221.2	228.1	230.5					

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 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	225.7	218.7	215.7	223.0	225.7					
G38.0	220.4	213.2	211.0	218.1	220.4					
G39.0	215.5	208.2	205.8	213.3	215.5					
G40.0	210.1	202.9	200.6	207.8	210.1					
G41.0	205.2	198.0	195.6	203.1	205.2					
G42.0	200.4	193.0	190.8	198.2	200.4					
G43.0	194.9	187.6	185.3	192.7	194.9					
G44.0	190.0	182.9	180.5	187.9	190.0					
G45.0	185.0	177.8	174.9	182.4	185.0					
G46.0	179.3	172.4	169.9	177.4	179.3					
G47.0	174.5	167.4	165.1	172.6	174.5					
G48.0	169.2	162.2	159.6	167.3	169.2					
G49.0	164.1	157.2	154.8	162.2	164.1					
G50.0	159.3	152.4	150.1	157.5	159.3					
G51.0	154.1	147.1	144.6	152.1	154.1					
G52.0	149.0	142.2	139.8	147.2	149.0					
G53.0	144.2	137.4	134.5	141.7	144.2					
G54.0	138.9	132.2	129.6	136.9	138.9					
G55.0	134.0	127.4	124.9	132.2	134.0					
G56.0	129.0	122.4	119.8	127.2	129.0					
G57.0	124.3	117.6	115.1	122.4	124.3					
G58.0	119.5	113.0	110.2	117.2	119.5					
G59.0	114.6	107.9	105.4	112.7	114.6					
G60.0	109.8	103.5	101.2	107.8	109.8					
G61.0	105.2	99.1	96.1	103.2	105.2					
G62.0	100.4	93.9	91.6	98.5	100.4					
G63.0	95.8	89.5	87.2	94.1	95.8					
G64.0	91.0	84.8	82.3	89.1	91.0					
G65.0	86.4	80.3	78.0	84.8	86.4					
G66.0	82.1	76.1	73.5	79.9	82.1					
G67.0	77.5	71.4	69.1	75.7	77.5					
G68.0	73.1	67.0	64.8	71.3	73.1					
G69.0	68.9	62.9	60.3	66.7	68.9					
G70.0	64.1	58.4	56.0	62.4	64.1					
G71.0	59.9	54.2	51.7	58.1	59.9					
G72.0	55.4	49.9	47.6	53.6	55.4					
G73.0	51.4	45.8	43.5	49.6	51.4					

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	47.3	41.9	39.4	45.3	47.3					
G75.0	42.9	37.5	35.4	41.2	42.9					
G76.0	39.1	33.9	31.7	37.4	39.1					
G77.0	35.2	30.1	27.5	33.0	35.2					
G78.0	31.1	26.5	23.9	29.2	31.1					
G79.0	27.6	23.1	20.5	25.5	27.6					
G80.0	24.0	19.6	17.0	21.9	24.0					
G81.0	20.5	16.5	13.9	18.5	20.5					
G82.0	17.4	13.6	10.9	15.2	17.4					
G83.0	14.2	10.8	8.3	12.4	14.2					
G84.0	11.4	8.2	6.0	9.7	11.4					
G85.0	8.7	5.6	3.9	7.0	8.7					
G86.0	6.4	3.5	2.4	4.8	6.4					
G87.0	4.3	1.8	1.3	2.9	4.3					
G88.0	2.6	0.6	0.2	1.4	2.6					
G89.0	1.5	0.2	0.0	0.2	1.5					
G90.0	0.5	0.2	0.1	0.2	0.5					
G91.0	0.1	0.2	0.1	0.2	0.1					
G92.0	0.1	0.3	0.1	0.2	0.1					
G93.0	0.1	0.3	0.1	0.3	0.1					
G94.0	0.1	0.2	0.1	0.2	0.1					
G95.0	0.2	0.3	0.1	0.2	0.2					
G96.0	0.2	0.3	0.0	0.2	0.2					
G97.0	0.2	0.4	0.2	0.3	0.2					
G98.0	0.3	0.3	0.2	0.3	0.3					
G99.0	0.2	0.4	0.2	0.3	0.2					
G100.0	0.2	0.4	0.2	0.3	0.2					
G101.0	0.3	0.5	0.3	0.3	0.3					
G102.0	0.3	0.5	0.3	0.4	0.3					
G103.0	0.3	0.5	0.3	0.4	0.3					
G104.0	0.3	0.5	0.3	0.4	0.3					
G105.0	0.4	0.6	0.4	0.4	0.4					
G106.0	0.4	0.6	0.4	0.6	0.4					
G107.0	0.4	0.6	0.4	0.4	0.4					
G108.0	0.5	0.6	0.4	0.5	0.5					
G109.0	0.5	0.7	0.4	0.6	0.5					
G110.0	0.6	0.7	0.4	0.6	0.6					

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	0.5	0.7	0.5	0.7	0.5					
G112.0	0.6	0.8	0.6	0.5	0.6					
G113.0	0.6	0.8	0.6	0.6	0.6					
G114.0	0.6	0.8	0.6	0.7	0.6					
G115.0	0.7	0.9	0.6	0.7	0.7					
G116.0	0.7	0.9	0.6	0.7	0.7					
G117.0	0.8	1.0	0.7	0.7	0.8					
G118.0	0.8	0.9	0.8	0.8	0.8					
G119.0	0.8	0.9	0.8	0.8	0.8					
G120.0	0.9	1.0	0.8	0.9	0.9					
G121.0	0.9	1.0	0.8	0.9	0.9					
G122.0	1.0	1.1	0.9	0.9	1.0					
G123.0	1.0	1.1	0.9	1.0	1.0					
G124.0	1.0	1.2	0.9	1.0	1.0					
G125.0	1.0	1.2	1.0	1.0	1.0					
G126.0	1.0	1.3	1.0	1.1	1.0					
G127.0	1.1	1.2	1.0	1.1	1.1					
G128.0	1.2	1.3	1.1	1.1	1.2					
G129.0	1.2	1.3	1.1	1.2	1.2					
G130.0	1.3	1.4	1.2	1.2	1.3					
G131.0	1.3	1.4	1.2	1.2	1.3					
G132.0	1.3	1.4	1.2	1.3	1.3					
G133.0	1.3	1.5	1.2	1.3	1.3					
G134.0	1.4	1.5	1.3	1.3	1.4					
G135.0	1.5	1.5	1.3	1.4	1.5					
G136.0	1.4	1.6	1.4	1.4	1.4					
G137.0	1.5	1.6	1.4	1.4	1.5					
G138.0	1.5	1.7	1.4	1.5	1.5					
G139.0	1.5	1.6	1.4	1.5	1.5					
G140.0	1.5	1.7	1.5	1.5	1.5					
G141.0	1.6	1.8	1.5	1.6	1.6					
G142.0	1.6	1.8	1.5	1.6	1.6					
G143.0	1.7	1.8	1.5	1.6	1.7					
G144.0	1.7	1.8	1.6	1.6	1.7					
G145.0	1.8	1.9	1.6	1.7	1.8					
G146.0	1.7	1.9	1.7	1.7	1.7					
G147.0	1.8	1.9	1.8	1.8	1.8					

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	1.9	1.8	1.8	1.8					
G149.0	1.9	2.0	1.8	1.8	1.9					
G150.0	1.9	2.0	1.9	1.8	1.9					
G151.0	1.9	2.0	1.8	1.9	1.9					
G152.0	1.9	2.1	1.9	1.9	1.9					
G153.0	2.0	2.0	2.0	2.0	2.0					
G154.0	2.0	2.1	2.0	2.0	2.0					
G155.0	2.0	2.1	1.9	2.1	2.0					
G156.0	2.0	2.2	2.0	2.0	2.0					
G157.0	2.0	2.2	2.1	2.1	2.0					
G158.0	2.1	2.2	2.1	2.1	2.1					
G159.0	2.1	2.2	2.1	2.1	2.1					
G160.0	2.1	2.2	2.1	2.2	2.1					
G161.0	2.1	2.3	2.1	2.2	2.1					
G162.0	2.2	2.2	2.2	2.2	2.2					
G163.0	2.2	2.3	2.2	2.2	2.2					
G164.0	2.2	2.3	2.2	2.3	2.2					
G165.0	2.3	2.3	2.3	2.3	2.3					
G166.0	2.3	2.3	2.3	2.3	2.3					
G167.0	2.3	2.4	2.3	2.3	2.3					
G168.0	2.2	2.4	2.3	2.3	2.2					
G169.0	2.3	2.4	2.4	2.4	2.3					
G170.0	2.3	2.4	2.4	2.4	2.3					
G171.0	2.3	2.4	2.4	2.5	2.3					
G172.0	2.4	2.4	2.4	2.4	2.4					
G173.0	2.4	2.4	2.4	2.4	2.4					
G174.0	2.4	2.5	2.4	2.4	2.4					
G175.0	2.4	2.5	2.4	2.4	2.4					
G176.0	2.4	2.4	2.4	2.5	2.4					
G177.0	2.4	2.5	2.5	2.5	2.4					
G178.0	2.4	2.5	2.4	2.5	2.4					
G179.0	2.3	2.4	2.4	2.5	2.3					
G180.0	2.4	2.5	2.4	2.5	2.4					

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	66558.02
L 0-180(75) av	51805.28
L 0-180(85) av	24655.52
L 90-270(65) av	66825.20
L 90-270(75) av	52036.65
L 90-270(85) av	24714.41
L 45(65) av	66691.61
L 45(75) av	51920.97
L 45(85) av	24684.97

Standard: GB/T 29293-2012