

Report No.: TH-4226A

Test Time: 2023/5/11 14:30

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: 5361-860RP-WH-60W-3000K

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -600

Luminous Height (mm):

Current: 0.541 A

Power Factor: 0.996

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -600

Voltage: 120.0 V

Power: 64.70 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 5187.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H114.9

Vertical Diffuse Angle(50%): V114.1

Luminaire Efficacy Rating (LER): 80.23

Max. Intensity: 1762.13 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 5187.4 lm

Efficiency: 100%

Upward Ratio: 1%

C0r0 Intensity: 1756.27 cd

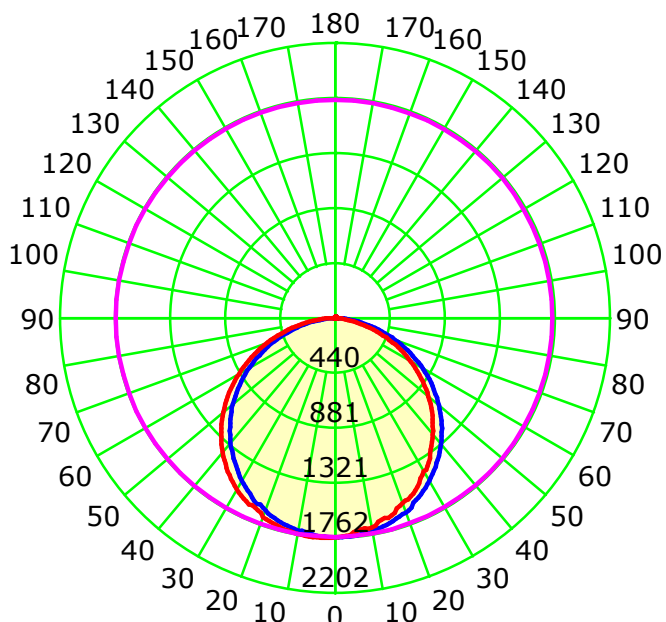
Pos of Max. Intensity: H270 V4

S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 114.4°

— C0-C180 — C90-C270 — G4 —

C Plane (°):0.0-360.0: 90.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0

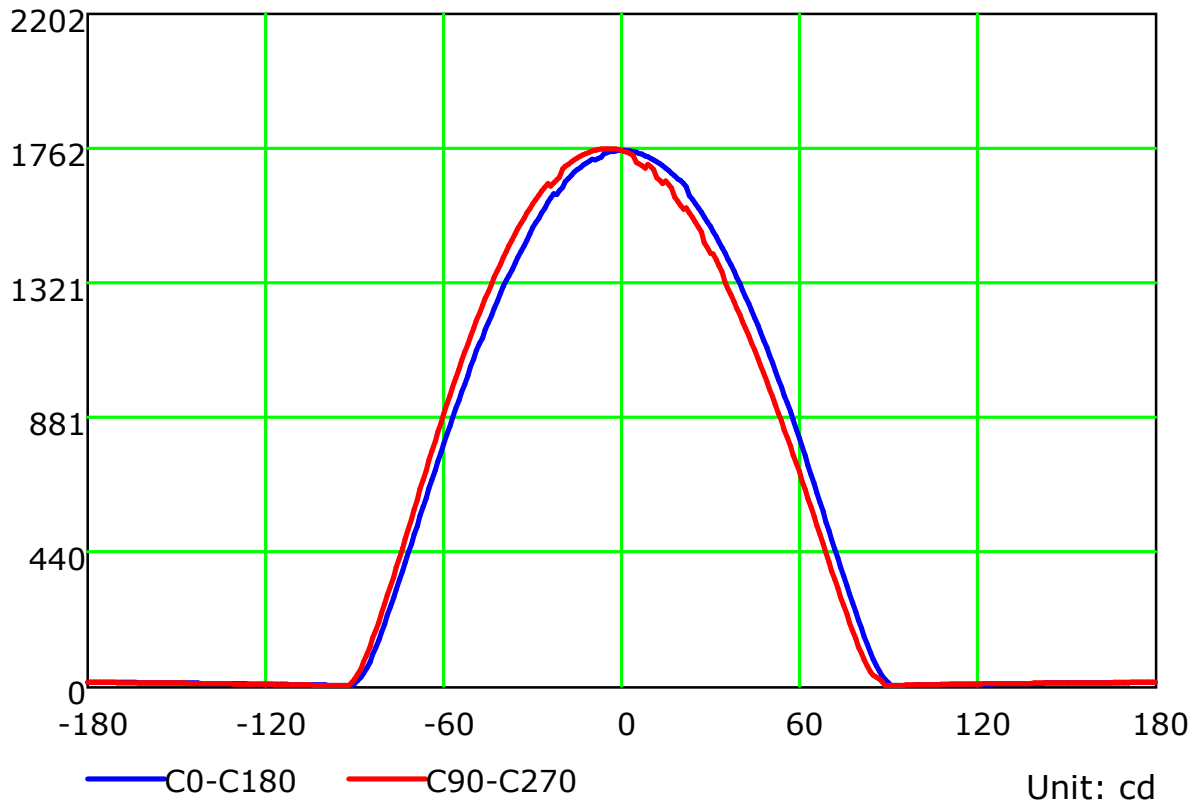
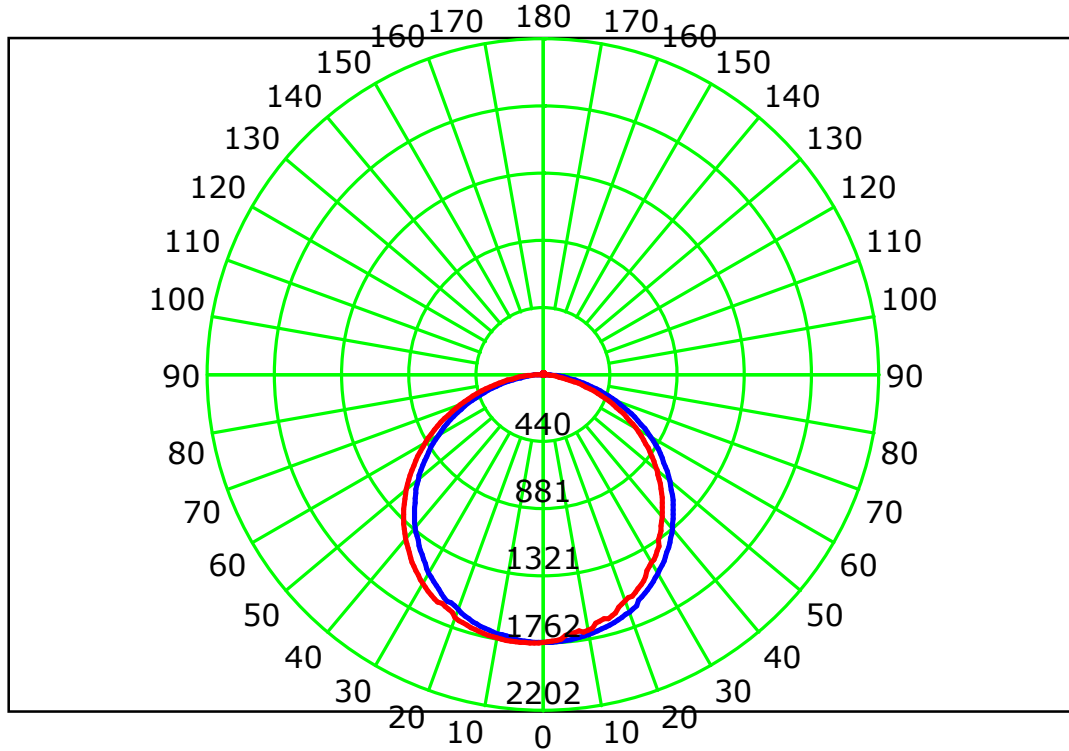
Test Device: GPM-1800B

Distance: 8.684 m [K=1.0000]

Humidity: 65

Inspector:

## Luminous Intensity Distribution Curve



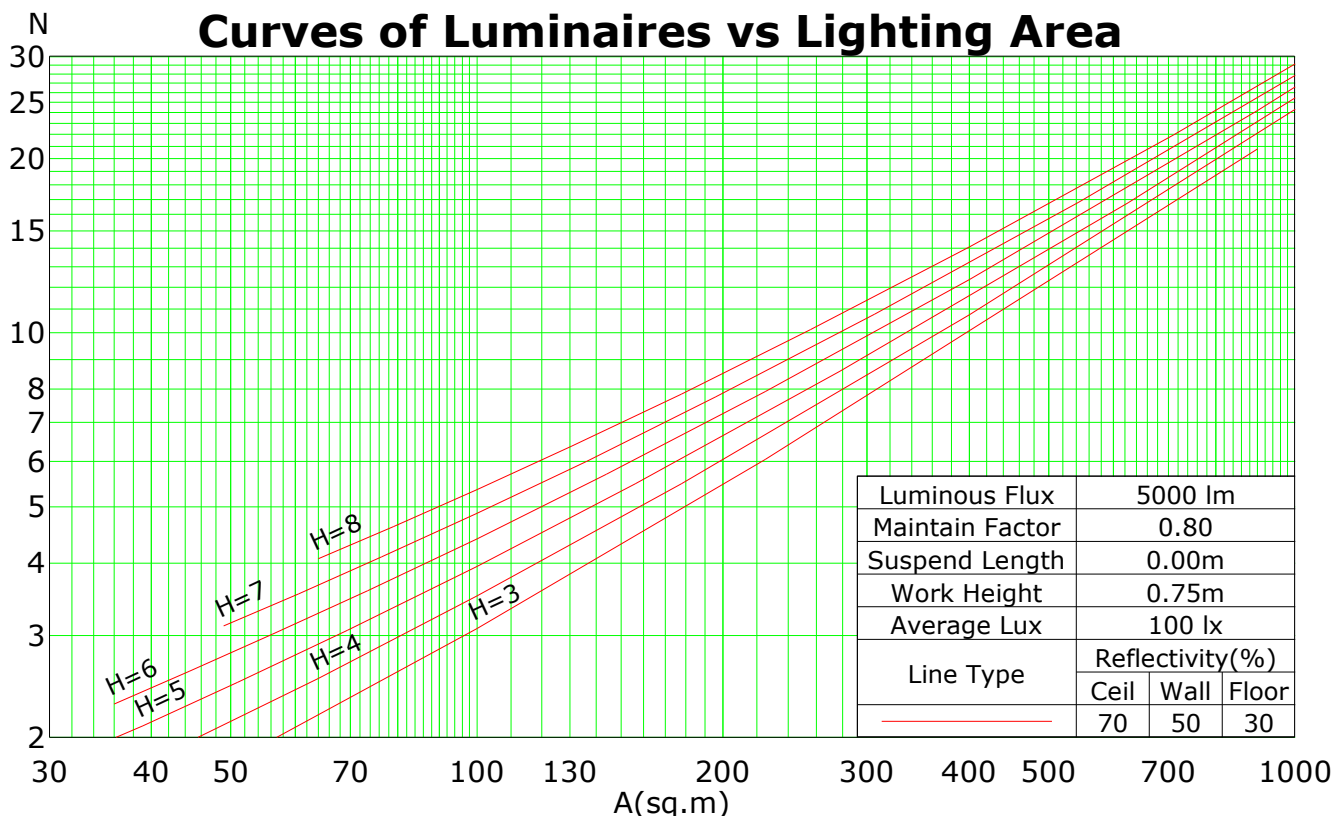
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Test Lab: Inventfine instrument  
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Temperature: 26  
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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
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	1.08	1.04	0.99	0.95	1.06	1.01	0.97	0.94	0.97	0.93	0.90	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.98	0.90	0.83	0.77	0.96	0.88	0.82	0.76	0.84	0.79	0.74	0.81	0.76	0.73	0.78	0.74	0.71	0.69
3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.63	0.74	0.68	0.62	0.71	0.66	0.61	0.69	0.64	0.60	0.58
4	0.82	0.70	0.61	0.54	0.80	0.68	0.60	0.54	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
5	0.75	0.62	0.53	0.46	0.73	0.61	0.53	0.46	0.59	0.51	0.46	0.57	0.50	0.45	0.55	0.49	0.44	0.42
6	0.69	0.56	0.47	0.40	0.67	0.55	0.46	0.40	0.53	0.45	0.40	0.51	0.45	0.39	0.50	0.44	0.39	0.37
7	0.64	0.51	0.42	0.36	0.63	0.50	0.41	0.35	0.48	0.41	0.35	0.47	0.40	0.35	0.45	0.39	0.35	0.32
8	0.60	0.46	0.38	0.32	0.58	0.46	0.37	0.32	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.29
9	0.56	0.42	0.34	0.29	0.54	0.42	0.34	0.28	0.41	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26
10	0.52	0.39	0.31	0.26	0.51	0.39	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.25	0.36	0.30	0.25	0.23

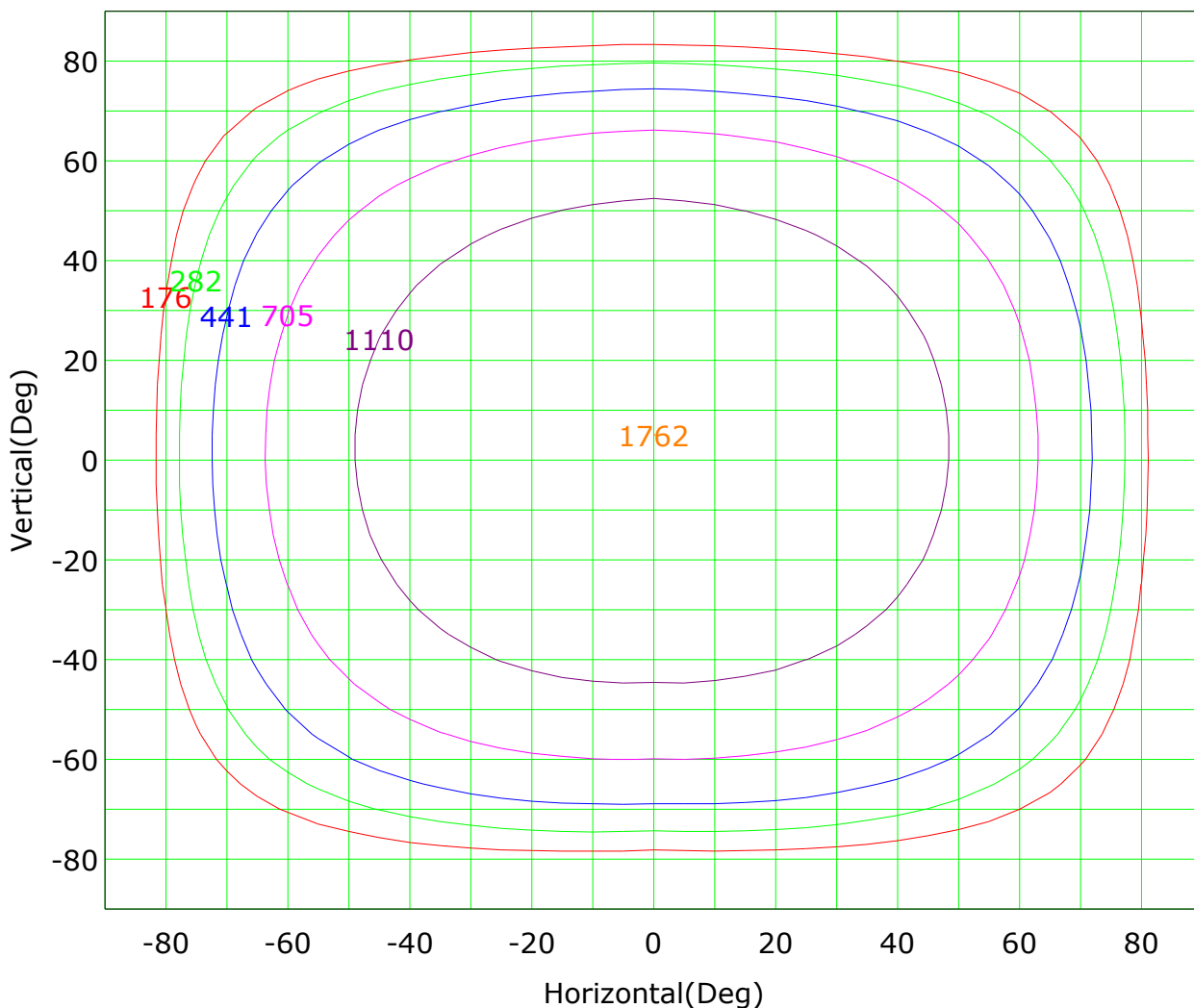
Spacing Criteria (0-180): 1.27  
 Spacing Criteria (90-270): 1.28  
 Spacing Criteria (Diagonal): 1.39



C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instrument  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Isocandela (rectangle)



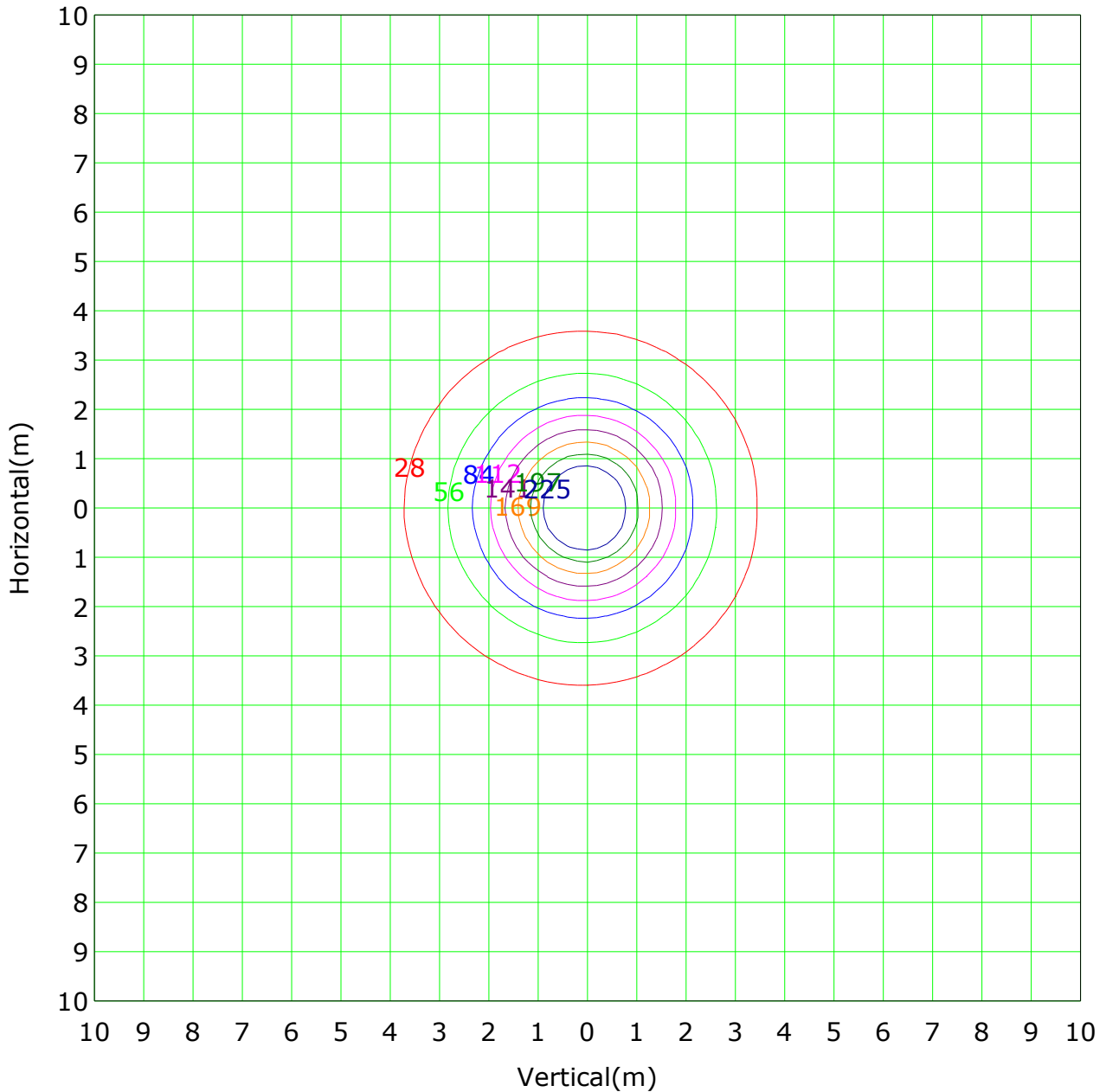
Imax (100%): 1762 cd

- |                   |                   |
|-------------------|-------------------|
| — ( 10%): 176 cd  | — ( 16%): 282 cd  |
| — ( 25%): 441 cd  | — ( 40%): 705 cd  |
| — ( 63%): 1110 cd | — (100%): 1762 cd |

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Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
Inspector:

## IsoLux Plot



Mounting Height: 2.5m		Max Lux(100%): 281.2 lx	
— ( 10%): 28.1 lx	— ( 20%): 56.2 lx	— ( 30%): 84.4 lx	— ( 40%): 112.5 lx
— ( 50%): 140.6 lx	— ( 60%): 168.7 lx	— ( 70%): 196.8 lx	— ( 80%): 225.0 lx

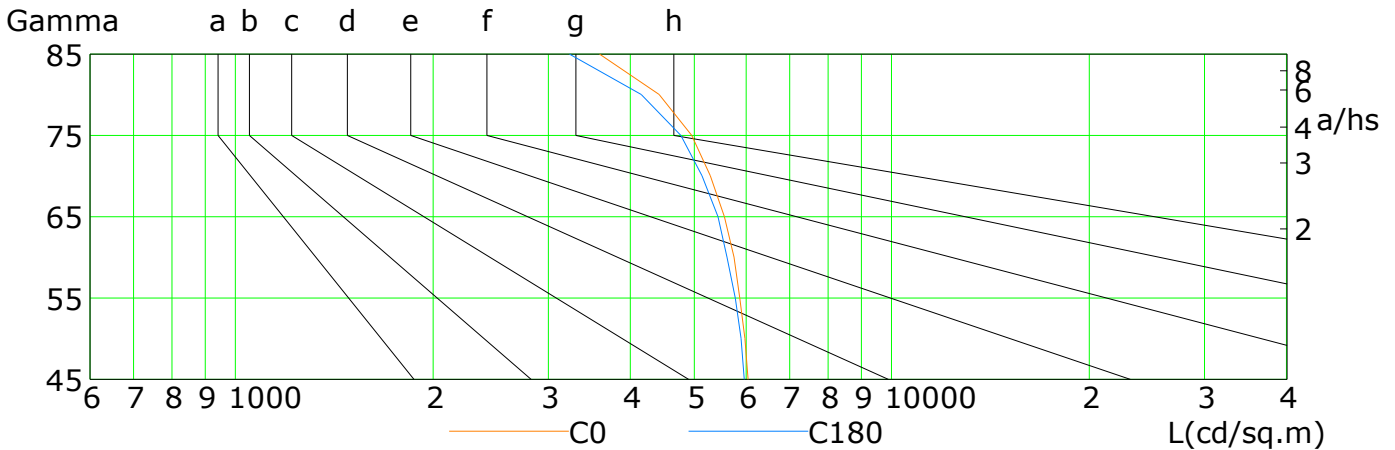
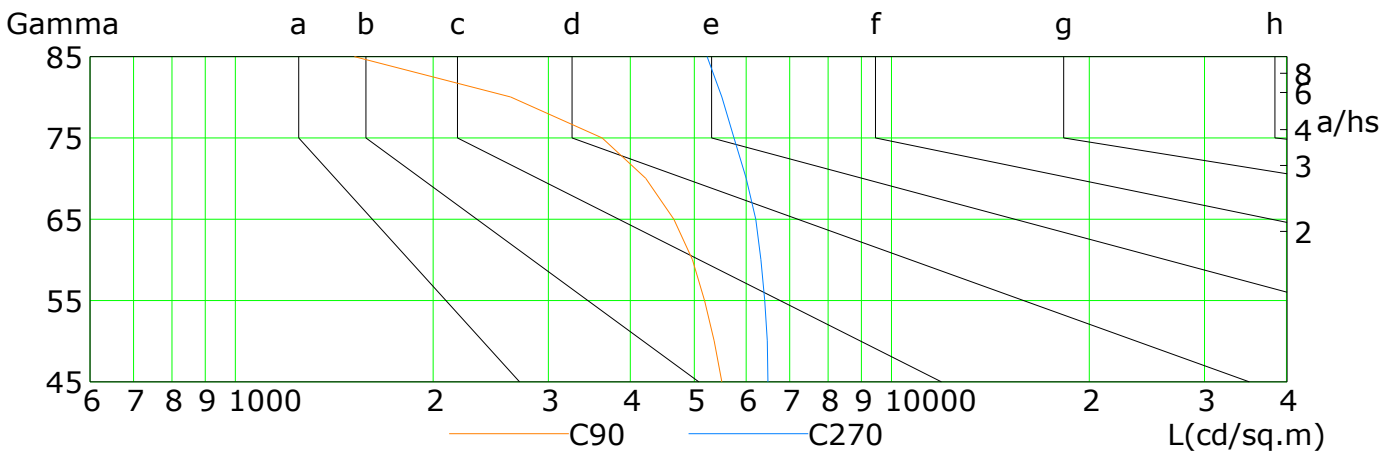
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Test Type: TYPE C  
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Inspector:

## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

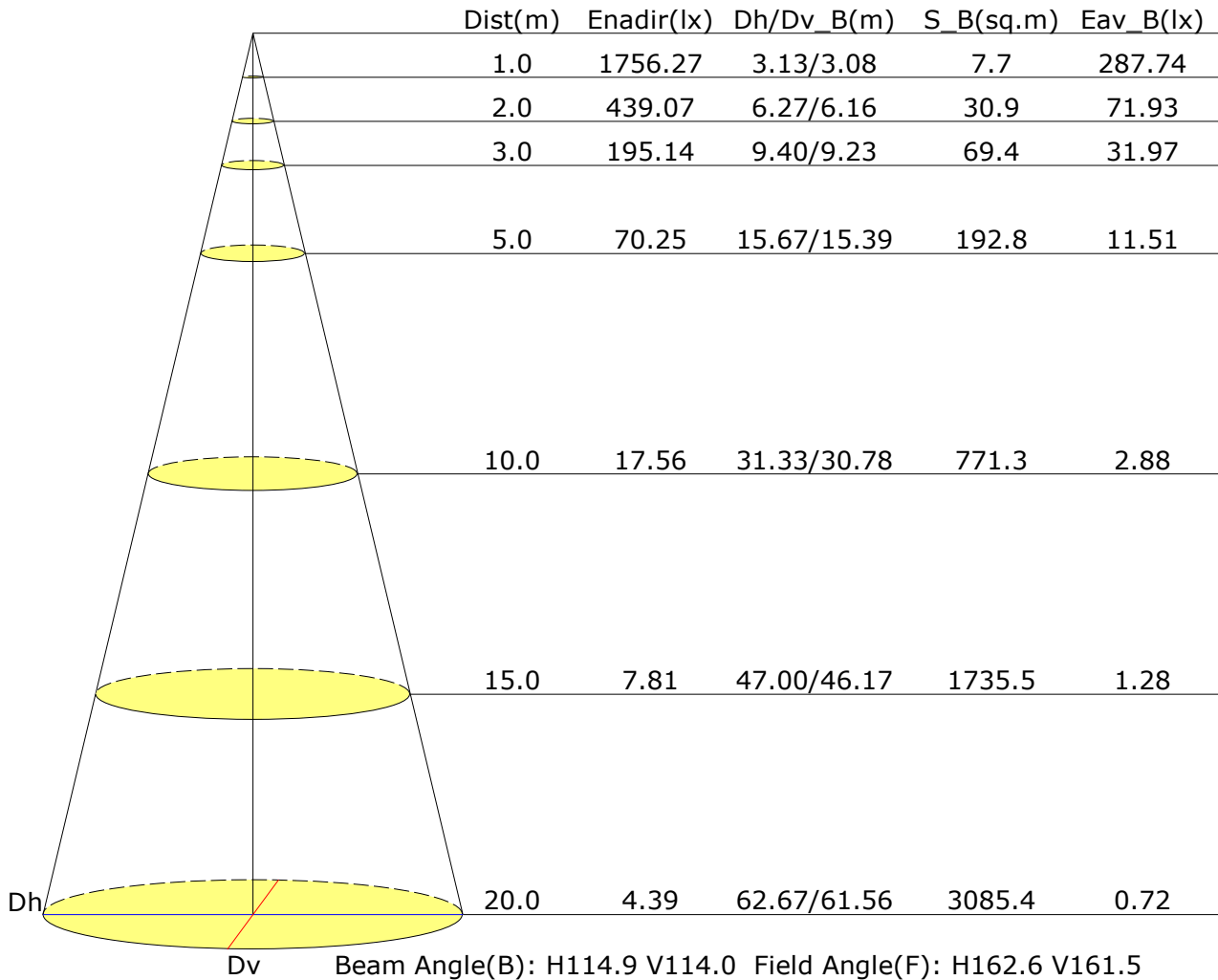


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6037	5970	5876	5755	5565	5291	4954	4418	3591
C90	5512	5365	5182	4972	4661	4219	3621	2625	1517
C180	5962	5901	5775	5616	5435	5143	4779	4155	3231
C270	6474	6459	6408	6316	6212	6003	5756	5514	5229

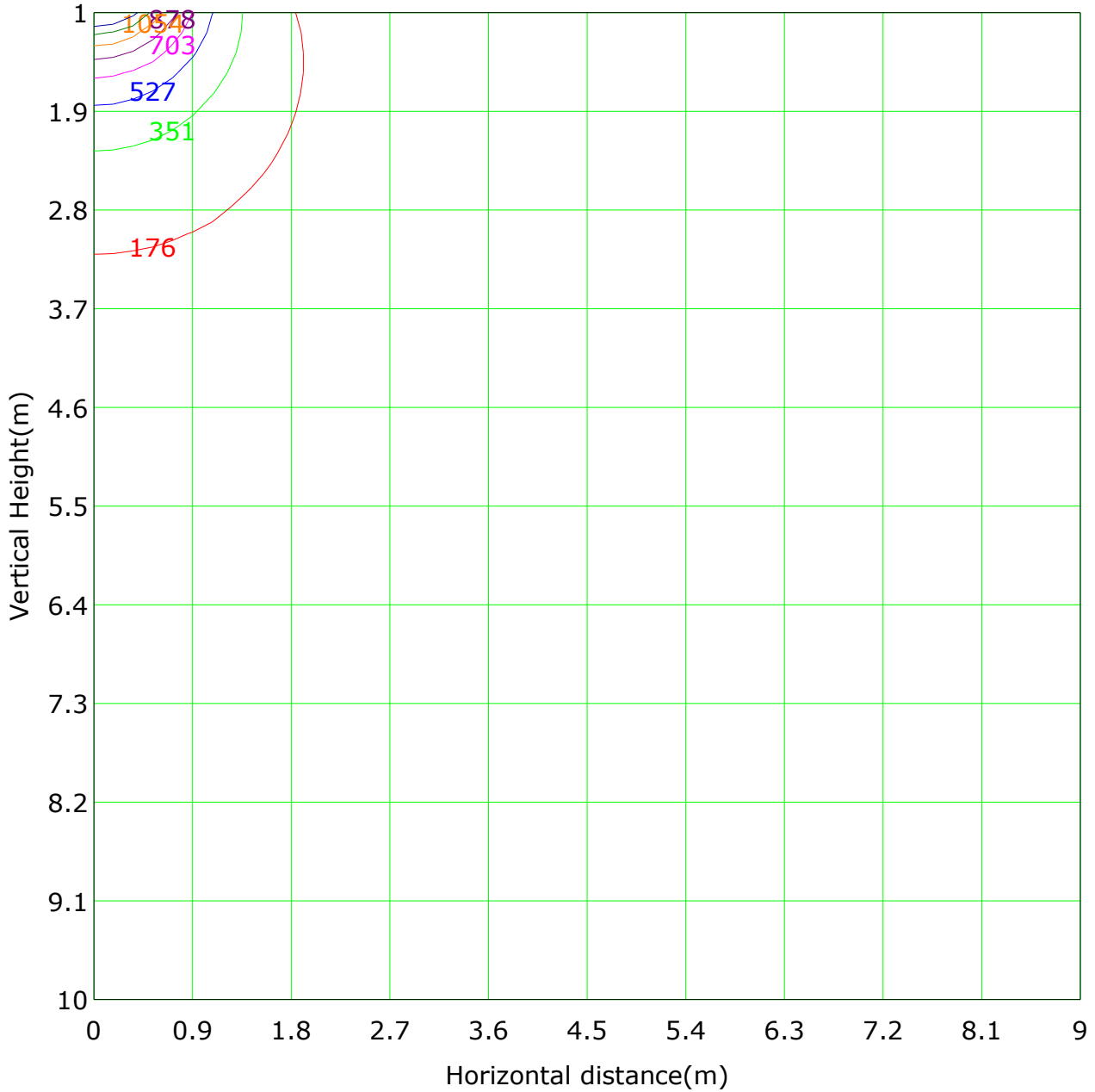
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Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



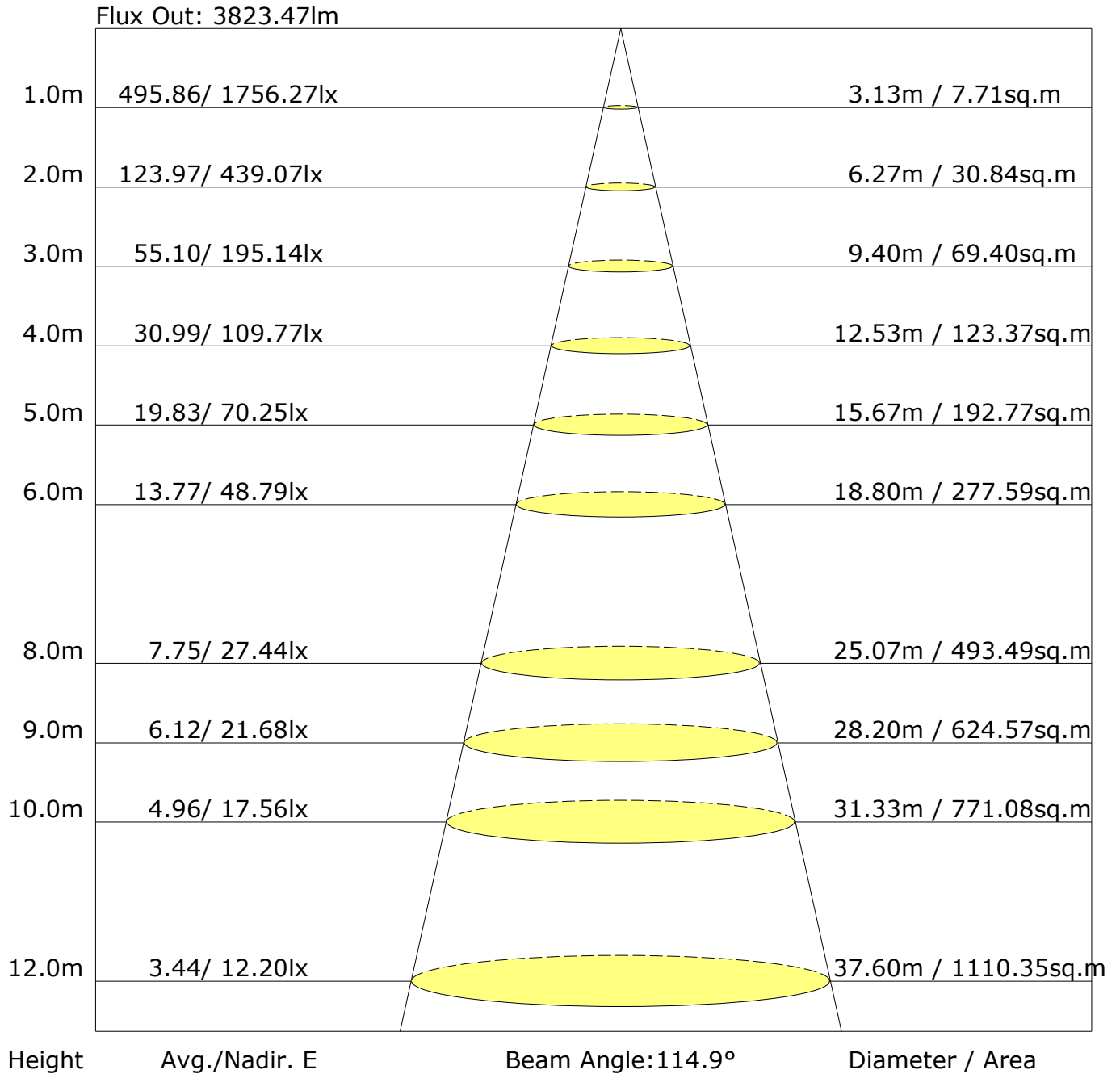
Lowest(m): 1.0m		Highest(m): 10.0m		Max Lux: 1756.3 lx
— ( 10%): 175.6 lx	— ( 20%): 351.3 lx	— ( 30%): 526.9 lx	— ( 40%): 702.5 lx	— ( 60%): 1053.8 lx
— ( 50%): 878.1 lx	— ( 70%): 1229.4 lx	— ( 80%): 1405.0 lx		

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Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
Inspector:



## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0  
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Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
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	18.8	20.2	19.1	20.4	20.7	18.8	20.1	19.1	20.4	20.7
3H	20.4	21.7	20.7	21.9	22.2	20.3	21.6	20.7	21.9	22.2
4H	21.0	22.2	21.4	22.5	22.9	21.0	22.2	21.3	22.5	22.8
6H	21.5	22.6	21.9	22.9	23.3	21.4	22.5	21.8	22.9	23.2
8H	21.6	22.7	22.0	23.1	23.4	21.6	22.6	22.0	23.0	23.3
12H	21.7	22.8	22.1	23.1	23.5	21.7	22.7	22.1	23.0	23.4
X=4H Y=2H	19.5	20.7	19.8	21.0	21.3	19.4	20.6	19.8	20.9	21.3
3H	21.3	22.3	21.7	22.6	23.0	21.2	22.2	21.6	22.6	22.9
4H	22.0	22.9	22.4	23.3	23.7	22.0	22.9	22.4	23.3	23.7
6H	22.6	23.4	23.1	23.8	24.3	22.5	23.4	23.0	23.8	24.2
8H	22.8	23.6	23.3	24.0	24.4	22.7	23.5	23.2	23.9	24.4
12H	22.9	23.6	23.4	24.1	24.5	22.9	23.6	23.4	24.0	24.5
X=8H Y=4H	22.3	23.1	22.8	23.5	23.9	22.3	23.0	22.7	23.4	23.9
6H	23.1	23.7	23.5	24.1	24.6	23.0	23.6	23.5	24.0	24.5
8H	23.3	23.9	23.8	24.3	24.8	23.3	23.8	23.8	24.3	24.8
12H	23.5	24.0	24.0	24.5	25.0	23.5	24.0	24.0	24.4	25.0
X=12H Y=4H	22.3	23.0	22.8	23.5	23.9	22.3	23.0	22.8	23.4	23.9
6H	23.1	23.7	23.6	24.1	24.6	23.1	23.6	23.6	24.1	24.6
8H	23.4	23.9	23.9	24.4	24.9	23.4	23.8	23.9	24.3	24.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.1					+0.1/-0.1				
S=1.5H	+0.3/-0.4					+0.3/-0.4				
S=2.0H	+0.5/-0.8					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 5187lm ( $8\log(F/F_0) = 5.7$ ).

C Plane (°):0.0-360.0: 90.0  
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 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 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	1756.1	1.7	1.7	0.03	0.03
1.0-2.0	1755.6	5.0	6.7	0.10	0.13
2.0-3.0	1754.5	8.4	15.1	0.16	0.29
3.0-4.0	1752.8	11.7	26.8	0.23	0.52
4.0-5.0	1748.2	15.0	41.9	0.29	0.81
5.0-6.0	1743.1	18.3	60.2	0.35	1.16
6.0-7.0	1738.8	21.6	81.8	0.42	1.58
7.0-8.0	1734.0	24.8	106.6	0.48	2.06
8.0-9.0	1731.9	28.1	134.7	0.54	2.60
9.0-10.0	1730.3	31.3	166.0	0.60	3.20
10.0-11.0	1725.7	34.5	200.5	0.66	3.86
11.0-12.0	1717.5	37.5	238.0	0.72	4.59
12.0-13.0	1708.7	40.6	278.6	0.78	5.37
13.0-14.0	1701.7	43.6	322.2	0.84	6.21
14.0-15.0	1696.4	46.6	368.7	0.90	7.11
15.0-16.0	1690.6	49.5	418.3	0.96	8.06
16.0-17.0	1681.7	52.4	470.7	1.01	9.07
17.0-18.0	1670.0	55.1	525.7	1.06	10.13
18.0-19.0	1657.9	57.7	583.4	1.11	11.25
19.0-20.0	1647.3	60.3	643.7	1.16	12.41
20.0-21.0	1634.2	62.8	706.5	1.21	13.62
21.0-22.0	1622.7	65.2	771.7	1.26	14.88
22.0-23.0	1612.5	67.7	839.4	1.30	16.18
23.0-24.0	1599.5	69.9	909.3	1.35	17.53
24.0-25.0	1588.7	72.2	981.5	1.39	18.92
25.0-26.0	1576.7	74.4	1056.0	1.43	20.36
26.0-27.0	1561.3	76.4	1132.4	1.47	21.83
27.0-28.0	1544.1	78.2	1210.6	1.51	23.34
28.0-29.0	1526.6	79.9	1290.4	1.54	24.88
29.0-30.0	1510.6	81.6	1372.0	1.57	26.45
30.0-31.0	1496.2	83.3	1455.3	1.61	28.05
31.0-32.0	1480.3	84.8	1540.1	1.64	29.69
32.0-33.0	1462.1	86.2	1626.3	1.66	31.35
33.0-34.0	1444.2	87.4	1713.7	1.69	33.04
34.0-35.0	1423.7	88.4	1802.1	1.70	34.74
35.0-36.0	1402.9	89.3	1891.4	1.72	36.46

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 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 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	1383.4	90.2	1981.7	1.74	38.20
37.0-38.0	1363.0	91.0	2072.7	1.75	39.96
38.0-39.0	1343.4	91.7	2164.4	1.77	41.72
39.0-40.0	1323.4	92.3	2256.7	1.78	43.50
40.0-41.0	1301.8	92.7	2349.4	1.79	45.29
41.0-42.0	1279.2	93.0	2442.4	1.79	47.08
42.0-43.0	1256.5	93.1	2535.5	1.79	48.88
43.0-44.0	1234.3	93.2	2628.6	1.80	50.67
44.0-45.0	1210.9	93.1	2721.7	1.79	52.47
45.0-46.0	1187.0	92.8	2814.5	1.79	54.26
46.0-47.0	1163.1	92.5	2907.1	1.78	56.04
47.0-48.0	1138.9	92.1	2999.1	1.78	57.82
48.0-49.0	1114.5	91.5	3090.7	1.76	59.58
49.0-50.0	1089.3	90.8	3181.5	1.75	61.33
50.0-51.0	1063.8	90.0	3271.5	1.74	63.07
51.0-52.0	1037.7	89.1	3360.6	1.72	64.78
52.0-53.0	1010.5	87.9	3448.5	1.69	66.48
53.0-54.0	983.2	86.7	3535.2	1.67	68.15
54.0-55.0	956.0	85.3	3620.5	1.65	69.79
55.0-56.0	928.9	83.9	3704.4	1.62	71.41
56.0-57.0	901.4	82.4	3786.9	1.59	73.00
57.0-58.0	873.3	80.8	3867.6	1.56	74.56
58.0-59.0	844.8	79.0	3946.6	1.52	76.08
59.0-60.0	815.6	77.1	4023.7	1.49	77.57
60.0-61.0	786.3	75.0	4098.7	1.45	79.01
61.0-62.0	757.6	73.0	4171.8	1.41	80.42
62.0-63.0	728.0	70.8	4242.6	1.37	81.79
63.0-64.0	697.9	68.5	4311.1	1.32	83.11
64.0-65.0	668.3	66.2	4377.2	1.28	84.38
65.0-66.0	637.8	63.6	4440.8	1.23	85.61
66.0-67.0	607.0	61.0	4501.9	1.18	86.79
67.0-68.0	576.8	58.4	4560.3	1.13	87.91
68.0-69.0	545.7	55.7	4616.0	1.07	88.99
69.0-70.0	514.5	52.8	4668.9	1.02	90.00
70.0-71.0	484.5	50.1	4718.9	0.97	90.97
71.0-72.0	454.5	47.3	4766.2	0.91	91.88

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Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
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	423.9	44.3	4810.5	0.85	92.74
73.0-74.0	393.5	41.4	4851.9	0.80	93.53
74.0-75.0	364.1	38.5	4890.4	0.74	94.27
75.0-76.0	334.5	35.5	4925.9	0.68	94.96
76.0-77.0	304.6	32.5	4958.4	0.63	95.59
77.0-78.0	275.6	29.5	4987.9	0.57	96.15
78.0-79.0	247.3	26.6	5014.5	0.51	96.67
79.0-80.0	219.2	23.6	5038.1	0.46	97.12
80.0-81.0	191.8	20.7	5058.9	0.40	97.52
81.0-82.0	165.7	18.0	5076.8	0.35	97.87
82.0-83.0	140.7	15.3	5092.1	0.29	98.16
83.0-84.0	116.6	12.7	5104.8	0.24	98.41
84.0-85.0	94.2	10.3	5115.1	0.20	98.61
85.0-86.0	74.6	8.2	5123.3	0.16	98.76
86.0-87.0	57.4	6.3	5129.5	0.12	98.89
87.0-88.0	42.0	4.6	5134.1	0.09	98.97
88.0-89.0	27.9	3.1	5137.2	0.06	99.03
89.0-90.0	16.4	1.8	5139.0	0.03	99.07
90.0-91.0	8.6	0.9	5139.9	0.02	99.09
91.0-92.0	4.4	0.5	5140.4	0.01	99.10
92.0-93.0	3.2	0.4	5140.8	0.01	99.10
93.0-94.0	3.3	0.4	5141.2	0.01	99.11
94.0-95.0	3.5	0.4	5141.5	0.01	99.12
95.0-96.0	3.6	0.4	5141.9	0.01	99.12
96.0-97.0	3.8	0.4	5142.3	0.01	99.13
97.0-98.0	3.9	0.4	5142.8	0.01	99.14
98.0-99.0	4.1	0.4	5143.2	0.01	99.15
99.0-100.0	4.3	0.5	5143.7	0.01	99.16
100.0-101.0	4.4	0.5	5144.2	0.01	99.17
101.0-102.0	4.6	0.5	5144.7	0.01	99.18
102.0-103.0	4.8	0.5	5145.2	0.01	99.19
103.0-104.0	4.9	0.5	5145.7	0.01	99.20
104.0-105.0	5.1	0.5	5146.2	0.01	99.21
105.0-106.0	5.2	0.6	5146.8	0.01	99.22
106.0-107.0	5.4	0.6	5147.3	0.01	99.23
107.0-108.0	5.6	0.6	5147.9	0.01	99.24

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
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	5.7	0.6	5148.5	0.01	99.25
109.0-110.0	5.9	0.6	5149.1	0.01	99.26
110.0-111.0	6.0	0.6	5149.8	0.01	99.27
111.0-112.0	6.2	0.6	5150.4	0.01	99.29
112.0-113.0	6.4	0.6	5151.0	0.01	99.30
113.0-114.0	6.5	0.7	5151.7	0.01	99.31
114.0-115.0	6.7	0.7	5152.4	0.01	99.32
115.0-116.0	6.8	0.7	5153.0	0.01	99.34
116.0-117.0	6.9	0.7	5153.7	0.01	99.35
117.0-118.0	7.1	0.7	5154.4	0.01	99.36
118.0-119.0	7.3	0.7	5155.1	0.01	99.38
119.0-120.0	7.4	0.7	5155.8	0.01	99.39
120.0-121.0	7.5	0.7	5156.5	0.01	99.41
121.0-122.0	7.7	0.7	5157.2	0.01	99.42
122.0-123.0	7.8	0.7	5158.0	0.01	99.43
123.0-124.0	8.0	0.7	5158.7	0.01	99.45
124.0-125.0	8.1	0.7	5159.4	0.01	99.46
125.0-126.0	8.3	0.7	5160.2	0.01	99.48
126.0-127.0	8.4	0.7	5160.9	0.01	99.49
127.0-128.0	8.6	0.7	5161.6	0.01	99.50
128.0-129.0	8.7	0.7	5162.4	0.01	99.52
129.0-130.0	8.8	0.7	5163.1	0.01	99.53
130.0-131.0	9.0	0.7	5163.9	0.01	99.55
131.0-132.0	9.1	0.7	5164.6	0.01	99.56
132.0-133.0	9.2	0.7	5165.4	0.01	99.58
133.0-134.0	9.3	0.7	5166.1	0.01	99.59
134.0-135.0	9.5	0.7	5166.9	0.01	99.60
135.0-136.0	9.6	0.7	5167.6	0.01	99.62
136.0-137.0	9.7	0.7	5168.3	0.01	99.63
137.0-138.0	9.8	0.7	5169.1	0.01	99.65
138.0-139.0	10.0	0.7	5169.8	0.01	99.66
139.0-140.0	10.1	0.7	5170.5	0.01	99.67
140.0-141.0	10.2	0.7	5171.2	0.01	99.69
141.0-142.0	10.3	0.7	5171.9	0.01	99.70
142.0-143.0	10.4	0.7	5172.6	0.01	99.72
143.0-144.0	10.6	0.7	5173.3	0.01	99.73

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
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	10.7	0.7	5174.0	0.01	99.74
145.0-146.0	10.8	0.7	5174.7	0.01	99.75
146.0-147.0	10.9	0.7	5175.3	0.01	99.77
147.0-148.0	11.0	0.7	5176.0	0.01	99.78
148.0-149.0	11.1	0.6	5176.6	0.01	99.79
149.0-150.0	11.2	0.6	5177.2	0.01	99.80
150.0-151.0	11.3	0.6	5177.8	0.01	99.82
151.0-152.0	11.4	0.6	5178.4	0.01	99.83
152.0-153.0	11.5	0.6	5179.0	0.01	99.84
153.0-154.0	11.6	0.6	5179.6	0.01	99.85
154.0-155.0	11.7	0.6	5180.1	0.01	99.86
155.0-156.0	11.8	0.5	5180.7	0.01	99.87
156.0-157.0	11.8	0.5	5181.2	0.01	99.88
157.0-158.0	11.9	0.5	5181.7	0.01	99.89
158.0-159.0	12.0	0.5	5182.2	0.01	99.90
159.0-160.0	12.1	0.5	5182.6	0.01	99.91
160.0-161.0	12.2	0.4	5183.1	0.01	99.92
161.0-162.0	12.2	0.4	5183.5	0.01	99.93
162.0-163.0	12.3	0.4	5183.9	0.01	99.93
163.0-164.0	12.3	0.4	5184.3	0.01	99.94
164.0-165.0	12.4	0.4	5184.7	0.01	99.95
165.0-166.0	12.4	0.3	5185.0	0.01	99.95
166.0-167.0	12.5	0.3	5185.3	0.01	99.96
167.0-168.0	12.5	0.3	5185.6	0.01	99.97
168.0-169.0	12.6	0.3	5185.9	0.01	99.97
169.0-170.0	12.6	0.3	5186.2	0.00	99.98
170.0-171.0	12.6	0.2	5186.4	0.00	99.98
171.0-172.0	12.7	0.2	5186.6	0.00	99.98
172.0-173.0	12.7	0.2	5186.8	0.00	99.99
173.0-174.0	12.8	0.2	5186.9	0.00	99.99
174.0-175.0	12.8	0.1	5187.1	0.00	99.99
175.0-176.0	12.8	0.1	5187.2	0.00	100.00
176.0-177.0	12.8	0.1	5187.3	0.00	100.00
177.0-178.0	12.9	0.1	5187.3	0.00	100.00
178.0-179.0	12.9	0.0	5187.4	0.00	100.00
179.0-180.0	12.9	0.0	5187.4	0.00	100.00

C Plane (°):0.0-360.0: 90.0  
Test Lab: Inventfine instrument  
Test Type: TYPE C  
Temperature: 26  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 8.684 m [K=1.0000]  
Humidity: 65  
Inspector:

## Zonal Lumen (Continue 5)

cone flux(90°): 2721.70 lm

%lum = 52.5%

%lamp = 52.5%

cone flux(120°): 4023.69 lm

%lum = 77.6%

%lamp = 77.6%



## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	1756.3	1756.3	1756.3	1756.3	1756.3					
G1.0	1756.3	1753.5	1755.9	1758.3	1756.3					
G2.0	1755.4	1749.9	1755.3	1760.5	1755.4					
G3.0	1753.9	1746.1	1753.6	1761.7	1753.9					
G4.0	1752.1	1741.1	1751.7	1762.1	1752.1					
G5.0	1750.0	1717.7	1749.2	1762.1	1750.0					
G6.0	1746.7	1711.8	1745.6	1761.6	1746.7					
G7.0	1743.4	1705.6	1734.8	1760.6	1743.4					
G8.0	1738.9	1698.8	1730.1	1759.5	1738.9					
G9.0	1734.9	1710.4	1725.2	1757.2	1734.9					
G10.0	1730.1	1702.8	1727.3	1754.2	1730.1					
G11.0	1725.4	1694.1	1721.2	1750.9	1725.4					
G12.0	1719.0	1667.2	1715.1	1746.8	1719.0					
G13.0	1712.8	1658.1	1708.3	1742.1	1712.8					
G14.0	1705.9	1648.5	1700.9	1737.4	1705.9					
G15.0	1699.0	1655.2	1693.4	1731.0	1699.0					
G16.0	1690.4	1644.6	1685.0	1725.9	1690.4					
G17.0	1681.6	1632.8	1675.2	1718.4	1681.6					
G18.0	1672.3	1603.2	1665.6	1711.3	1672.3					
G19.0	1662.5	1589.6	1654.4	1704.2	1662.5					
G20.0	1658.8	1576.8	1636.2	1695.9	1658.8					
G21.0	1647.8	1564.2	1625.2	1668.3	1647.8					
G22.0	1636.3	1567.2	1612.9	1659.4	1636.3					
G23.0	1608.0	1551.8	1614.1	1650.0	1608.0					
G24.0	1595.6	1536.7	1599.9	1639.9	1595.6					
G25.0	1582.9	1521.3	1586.7	1646.9	1582.9					
G26.0	1569.0	1505.6	1565.8	1635.5	1569.0					
G27.0	1553.3	1487.7	1551.2	1622.6	1553.3					
G28.0	1538.5	1454.5	1534.8	1610.1	1538.5					
G29.0	1522.6	1437.1	1519.2	1595.5	1522.6					
G30.0	1506.8	1419.5	1502.9	1581.5	1506.8					
G31.0	1490.5	1416.8	1484.4	1566.9	1490.5					
G32.0	1472.7	1397.5	1462.1	1551.6	1472.7					
G33.0	1456.2	1378.5	1444.3	1534.3	1456.2					
G34.0	1438.7	1359.3	1424.9	1517.8	1438.7					
G35.0	1418.9	1323.1	1406.0	1500.8	1418.9					
G36.0	1400.3	1303.4	1387.2	1483.5	1400.3					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instrument  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	1381.4	1283.2	1365.6	1463.1	1381.4					
G38.0	1360.1	1260.0	1346.3	1444.7	1360.1					
G39.0	1340.3	1238.9	1331.9	1425.5	1340.3					
G40.0	1320.0	1217.6	1309.2	1403.7	1320.0					
G41.0	1296.7	1195.6	1288.2	1383.6	1296.7					
G42.0	1275.0	1170.7	1261.3	1362.8	1275.0					
G43.0	1253.4	1148.1	1239.5	1341.3	1253.4					
G44.0	1231.8	1125.4	1215.4	1319.3	1231.8					
G45.0	1207.0	1102.0	1192.0	1294.3	1207.0					
G46.0	1184.1	1076.1	1168.7	1271.9	1184.1					
G47.0	1160.5	1051.7	1142.9	1248.6	1160.5					
G48.0	1134.1	1027.3	1123.5	1222.5	1134.1					
G49.0	1109.9	1000.3	1099.7	1198.5	1109.9					
G50.0	1085.1	975.0	1072.4	1174.0	1085.1					
G51.0	1060.1	949.5	1047.7	1146.4	1060.1					
G52.0	1034.7	924.0	1017.9	1120.9	1034.7					
G53.0	1006.4	895.5	989.4	1095.2	1006.4					
G54.0	980.0	869.7	962.9	1065.9	980.0					
G55.0	953.0	840.4	936.5	1039.1	953.0					
G56.0	928.1	814.1	910.5	1009.1	928.1					
G57.0	900.5	787.2	880.7	981.2	900.5					
G58.0	872.8	757.4	853.2	953.2	872.8					
G59.0	841.9	730.1	825.0	924.7	841.9					
G60.0	813.5	702.9	794.0	892.8	813.5					
G61.0	784.8	672.5	766.0	864.0	784.8					
G62.0	755.8	644.6	738.3	834.9	755.8					
G63.0	723.8	616.6	707.2	802.4	723.8					
G64.0	694.3	588.5	678.1	772.2	694.3					
G65.0	664.9	556.9	649.5	742.3	664.9					
G66.0	635.3	528.0	617.3	708.3	635.3					
G67.0	603.1	499.2	587.7	677.6	603.1					
G68.0	573.7	467.8	558.7	646.7	573.7					
G69.0	541.0	439.1	526.4	612.1	541.0					
G70.0	511.7	408.0	497.3	580.5	511.7					
G71.0	482.2	379.5	467.8	548.8	482.2					
G72.0	450.2	351.2	438.7	517.6	450.2					
G73.0	420.6	322.9	406.9	483.4	420.6					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instrument  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	391.5	292.3	378.2	452.2	391.5					
G75.0	362.6	265.0	349.7	421.2	362.6					
G76.0	330.7	237.8	318.4	390.7	330.7					
G77.0	302.6	208.7	290.2	357.9	302.6					
G78.0	274.5	182.0	261.5	327.9	274.5					
G79.0	244.2	156.1	233.6	299.1	244.2					
G80.0	216.9	128.9	204.0	270.7	216.9					
G81.0	190.0	107.4	177.5	239.2	190.0					
G82.0	162.1	86.4	151.7	211.3	162.1					
G83.0	136.9	66.2	126.6	183.9	136.9					
G84.0	110.7	47.9	103.6	157.3	110.7					
G85.0	88.5	37.4	79.6	128.9	88.5					
G86.0	67.2	31.0	60.1	103.8	67.2					
G87.0	48.9	23.9	44.0	80.3	48.9					
G88.0	34.5	15.7	30.0	58.6	34.5					
G89.0	21.1	4.2	19.4	39.9	21.1					
G90.0	10.5	3.3	8.9	23.7	10.5					
G91.0	3.1	3.5	2.9	13.1	3.1					
G92.0	3.3	3.6	3.1	2.7	3.3					
G93.0	3.4	3.7	3.4	2.6	3.4					
G94.0	3.5	4.0	3.4	2.7	3.5					
G95.0	3.7	4.1	3.6	2.8	3.7					
G96.0	3.9	4.2	3.7	3.0	3.9					
G97.0	4.0	4.4	3.9	3.1	4.0					
G98.0	4.2	4.6	4.0	3.3	4.2					
G99.0	4.4	4.8	4.2	3.5	4.4					
G100.0	4.6	4.9	4.3	3.6	4.6					
G101.0	4.7	5.1	4.5	3.7	4.7					
G102.0	4.8	5.2	4.7	3.9	4.8					
G103.0	5.1	5.5	4.8	4.1	5.1					
G104.0	5.2	5.6	5.0	4.2	5.2					
G105.0	5.4	5.8	5.1	4.3	5.4					
G106.0	5.5	6.0	5.3	4.5	5.5					
G107.0	5.7	6.1	5.4	4.7	5.7					
G108.0	5.9	6.3	5.6	4.8	5.9					
G109.0	6.0	6.5	5.8	5.1	6.0					
G110.0	6.2	6.7	5.9	5.1	6.2					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instrument  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	6.3	6.8	6.1	5.3	6.3					
G112.0	6.5	7.0	6.2	5.5	6.5					
G113.0	6.7	7.1	6.4	5.6	6.7					
G114.0	6.8	7.2	6.5	5.7	6.8					
G115.0	7.0	7.5	6.7	5.9	7.0					
G116.0	7.1	7.6	6.8	6.1	7.1					
G117.0	7.2	7.7	7.0	6.2	7.2					
G118.0	7.3	7.9	7.1	6.4	7.3					
G119.0	7.5	8.0	7.2	6.5	7.5					
G120.0	7.6	8.1	7.4	6.7	7.6					
G121.0	7.7	8.3	7.5	6.8	7.7					
G122.0	7.9	8.5	7.7	6.9	7.9					
G123.0	8.1	8.6	7.9	7.1	8.1					
G124.0	8.2	8.7	8.0	7.2	8.2					
G125.0	8.4	8.9	8.1	7.4	8.4					
G126.0	8.5	9.0	8.3	7.5	8.5					
G127.0	8.7	9.2	8.4	7.7	8.7					
G128.0	8.8	9.3	8.6	7.9	8.8					
G129.0	8.9	9.4	8.7	8.0	8.9					
G130.0	9.1	9.6	8.8	8.1	9.1					
G131.0	9.2	9.6	8.9	8.3	9.2					
G132.0	9.3	9.8	9.0	8.4	9.3					
G133.0	9.5	9.9	9.2	8.6	9.5					
G134.0	9.6	10.0	9.3	8.7	9.6					
G135.0	9.7	10.1	9.5	8.9	9.7					
G136.0	9.8	10.3	9.6	9.0	9.8					
G137.0	9.9	10.4	9.7	9.2	9.9					
G138.0	10.0	10.5	9.8	9.3	10.0					
G139.0	10.1	10.6	10.0	9.5	10.1					
G140.0	10.3	10.7	10.1	9.6	10.3					
G141.0	10.4	10.8	10.3	9.7	10.4					
G142.0	10.5	10.9	10.3	9.8	10.5					
G143.0	10.5	11.0	10.5	10.0	10.5					
G144.0	10.7	11.1	10.6	10.1	10.7					
G145.0	10.8	11.2	10.7	10.3	10.8					
G146.0	10.9	11.3	10.8	10.4	10.9					
G147.0	11.0	11.4	10.9	10.6	11.0					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instrument  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	11.0	11.5	11.2	10.6	11.0					
G149.0	11.2	11.5	11.2	10.8	11.2					
G150.0	11.2	11.6	11.3	10.9	11.2					
G151.0	11.3	11.7	11.4	11.0	11.3					
G152.0	11.4	11.8	11.6	11.1	11.4					
G153.0	11.5	11.9	11.7	11.3	11.5					
G154.0	11.5	11.9	11.8	11.5	11.5					
G155.0	11.6	12.0	12.0	11.5	11.6					
G156.0	11.6	12.0	12.0	11.6	11.6					
G157.0	11.6	12.1	12.1	11.6	11.6					
G158.0	11.7	12.1	12.2	11.9	11.7					
G159.0	11.8	12.2	12.2	11.9	11.8					
G160.0	11.9	12.3	12.4	12.0	11.9					
G161.0	12.0	12.4	12.4	12.0	12.0					
G162.0	11.9	12.4	12.5	12.1	11.9					
G163.0	12.1	12.5	12.5	12.2	12.1					
G164.0	12.1	12.5	12.6	12.3	12.1					
G165.0	12.2	12.5	12.6	12.3	12.2					
G166.0	12.1	12.6	12.6	12.4	12.1					
G167.0	12.2	12.6	12.7	12.4	12.2					
G168.0	12.3	12.6	12.7	12.5	12.3					
G169.0	12.4	12.7	12.8	12.5	12.4					
G170.0	12.5	12.7	12.8	12.5	12.5					
G171.0	12.5	12.8	12.8	12.6	12.5					
G172.0	12.6	12.8	12.8	12.6	12.6					
G173.0	12.6	12.8	12.9	12.7	12.6					
G174.0	12.7	12.9	12.9	12.7	12.7					
G175.0	12.7	12.8	12.9	12.8	12.7					
G176.0	12.8	12.8	12.9	12.8	12.8					
G177.0	12.8	12.9	12.9	12.8	12.8					
G178.0	12.9	13.0	12.9	12.9	12.9					
G179.0	12.9	12.9	12.9	13.0	12.9					
G180.0	12.9	13.0	12.9	12.9	12.9					

C Plane (°):0.0-360.0: 90.0  
 Test Lab: Inventfine instrument  
 Test Type: TYPE C  
 Temperature: 26  
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 8.684 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## LED Average Luminance Report

Avg.L	cd/m <sup>2</sup>
L 0-180(65) av	5500.05
L 0-180(75) av	4866.89
L 0-180(85) av	3411.25
L 90-270(65) av	5436.15
L 90-270(75) av	4688.54
L 90-270(85) av	3373.16
L 45(65) av	5468.10
L 45(75) av	4777.71
L 45(85) av	3392.21

Standard: GB/T 29293-2012