

Report No.: TH-4226A

Test Time: 2023/5/11 14:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: 5369-880RPP-WH-80W-3000K

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -980

Luminous Height (mm):

Current: 0.677 A

Power Factor: 0.996

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -980

Voltage: 119.9 V

Power: 80.83 W

Photometric Results

CIE Class: Direct

Measurement Flux: 5438.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H111.9

Vertical Diffuse Angle(50%): V113.2

Luminaire Efficacy Rating (LER): 67.34

Max. Intensity: 1868.85 cd

S/MH(C0/C180): 1.23

Total Rated Lamp Lumens: 5438.9 lm

Efficiency: 100%

Upward Ratio: 1%

C0r0 Intensity: 1868.85 cd

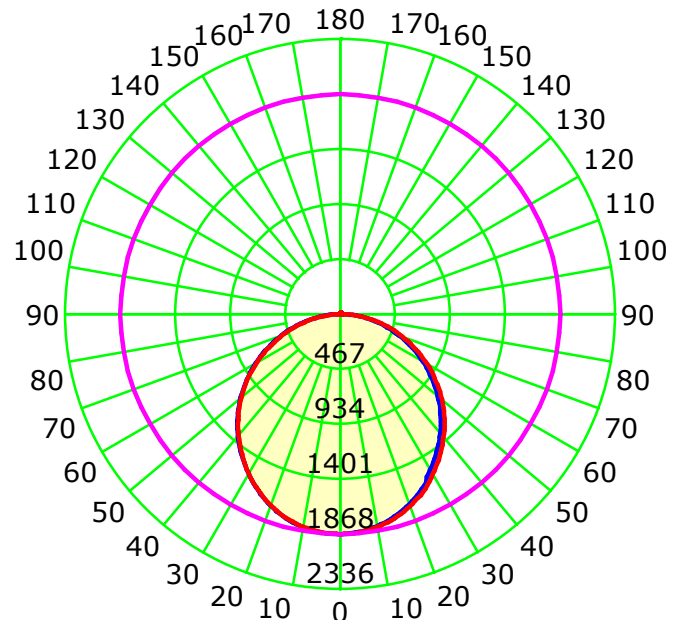
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 112.5°

— C0-C180 — C90-C270 — G0

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

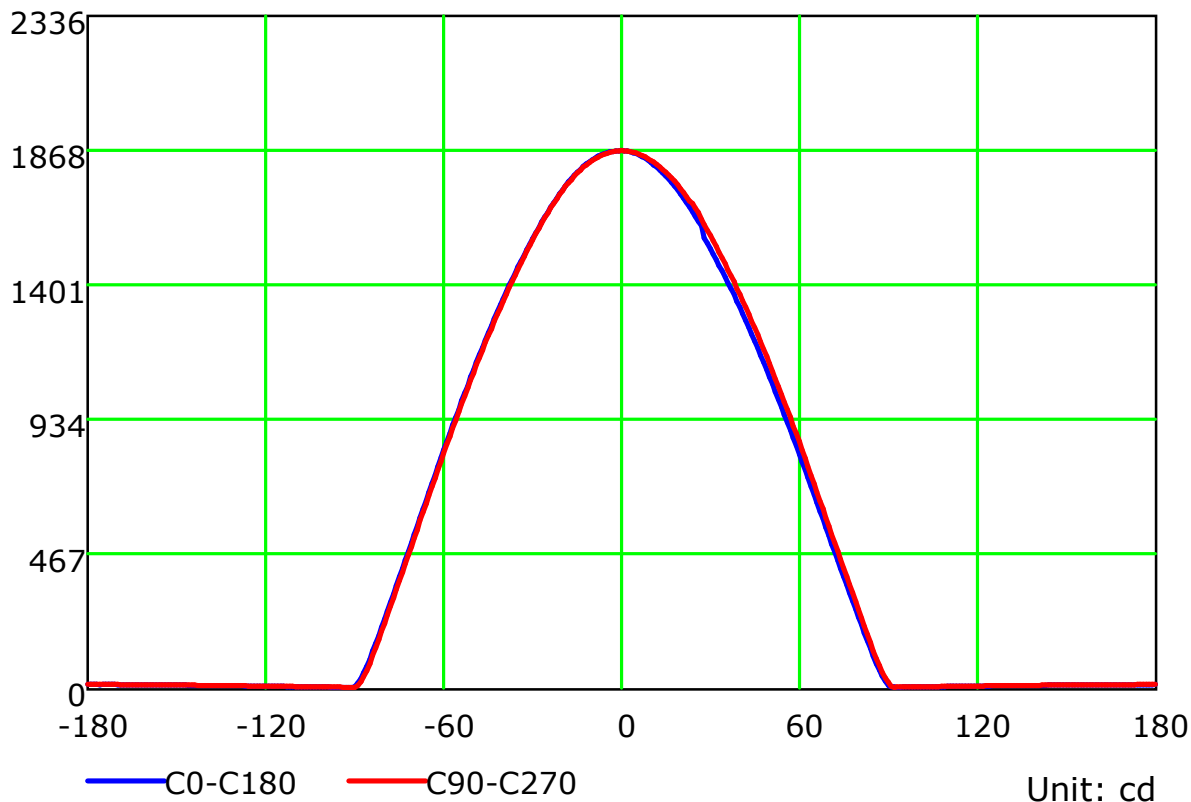
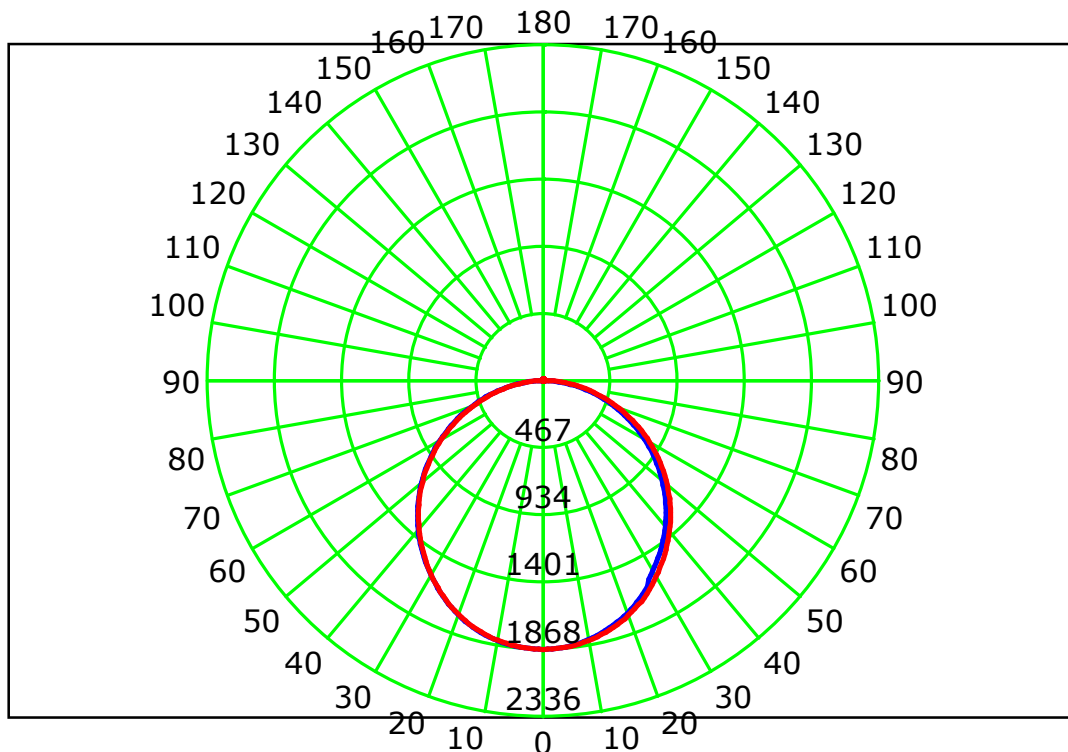
Test Device: GPM-1800B

Distance: 8.684 m [K=1.0000]

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



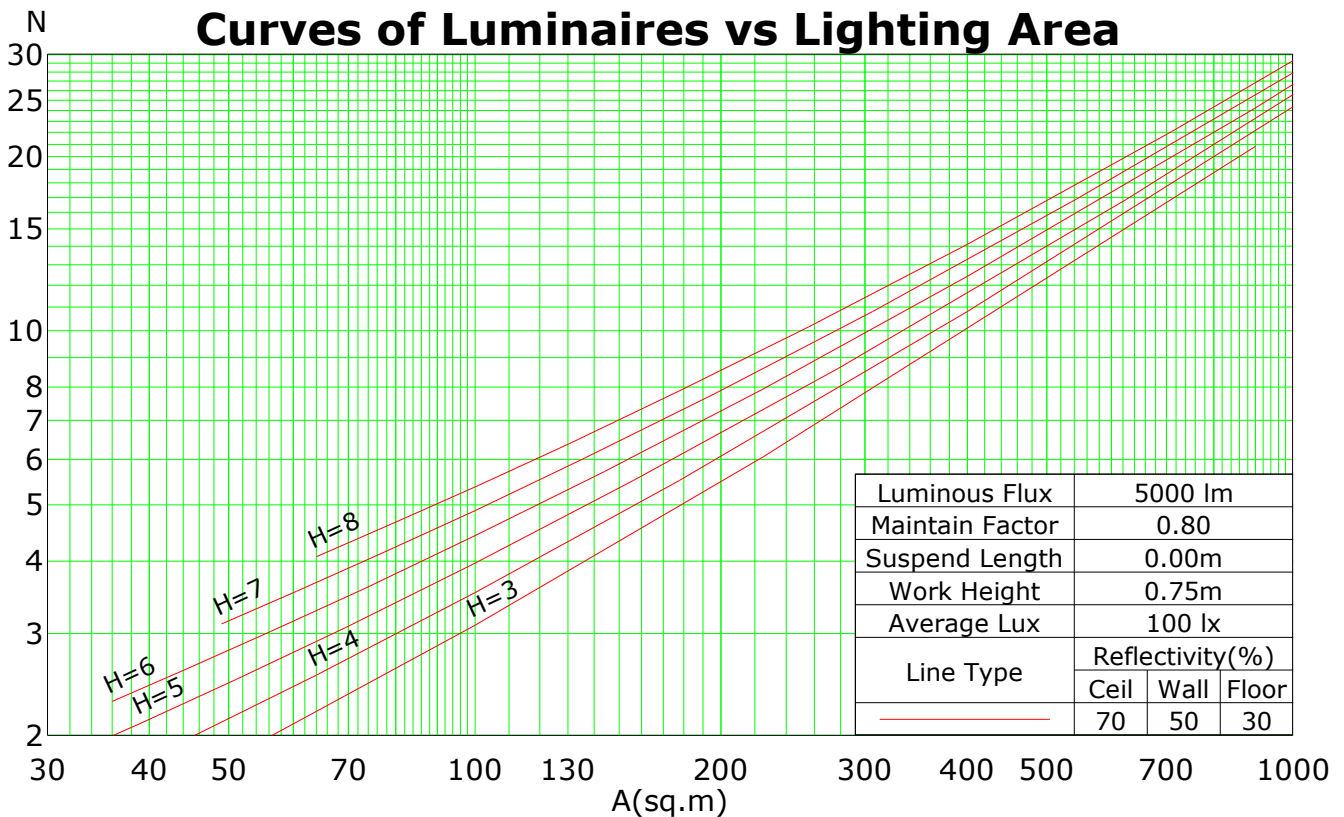
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
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Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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	1.03	0.99	0.95	1.05	1.01	0.97	0.93	0.96	0.93	0.90	0.92	0.90	0.87	0.89	0.86	0.84	0.82
2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.77	0.74	0.70	0.68
3	0.89	0.79	0.70	0.64	0.87	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.65	0.60	0.68	0.63	0.59	0.57
4	0.82	0.70	0.61	0.54	0.79	0.68	0.60	0.53	0.65	0.58	0.52	0.63	0.57	0.52	0.61	0.55	0.51	0.49
5	0.75	0.62	0.53	0.46	0.73	0.61	0.52	0.46	0.59	0.51	0.45	0.56	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	0.44	0.39	0.49	0.43	0.39	0.37
7	0.64	0.51	0.42	0.35	0.62	0.50	0.41	0.35	0.48	0.41	0.35	0.47	0.40	0.35	0.45	0.39	0.34	0.32
8	0.60	0.46	0.38	0.32	0.58	0.45	0.37	0.32	0.44	0.37	0.31	0.43	0.36	0.31	0.41	0.35	0.31	0.29
9	0.56	0.42	0.34	0.28	0.54	0.42	0.34	0.28	0.40	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	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.25	0.35	0.30	0.25	0.23

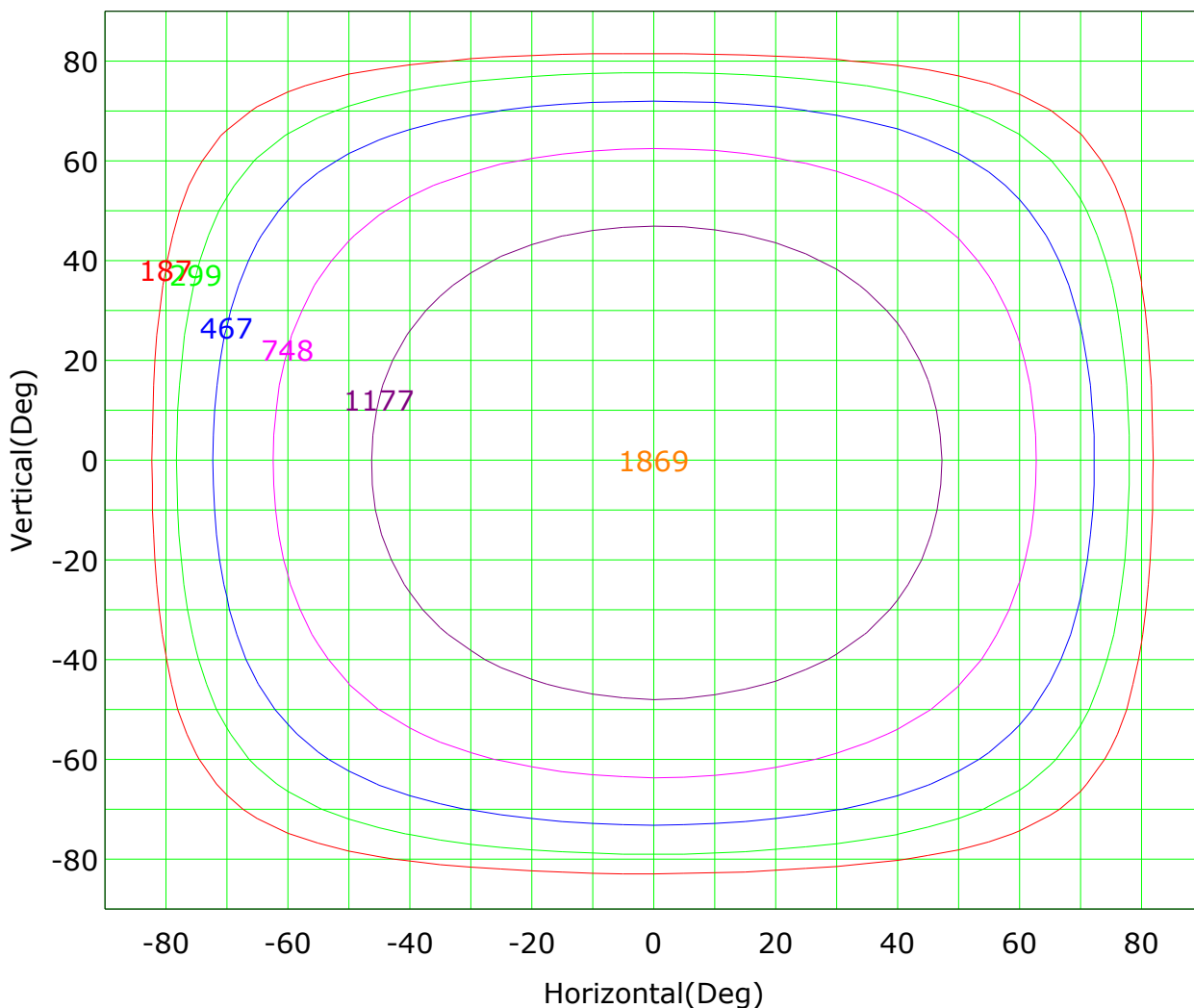
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.25
 Spacing Criteria (Diagonal): 1.37



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)



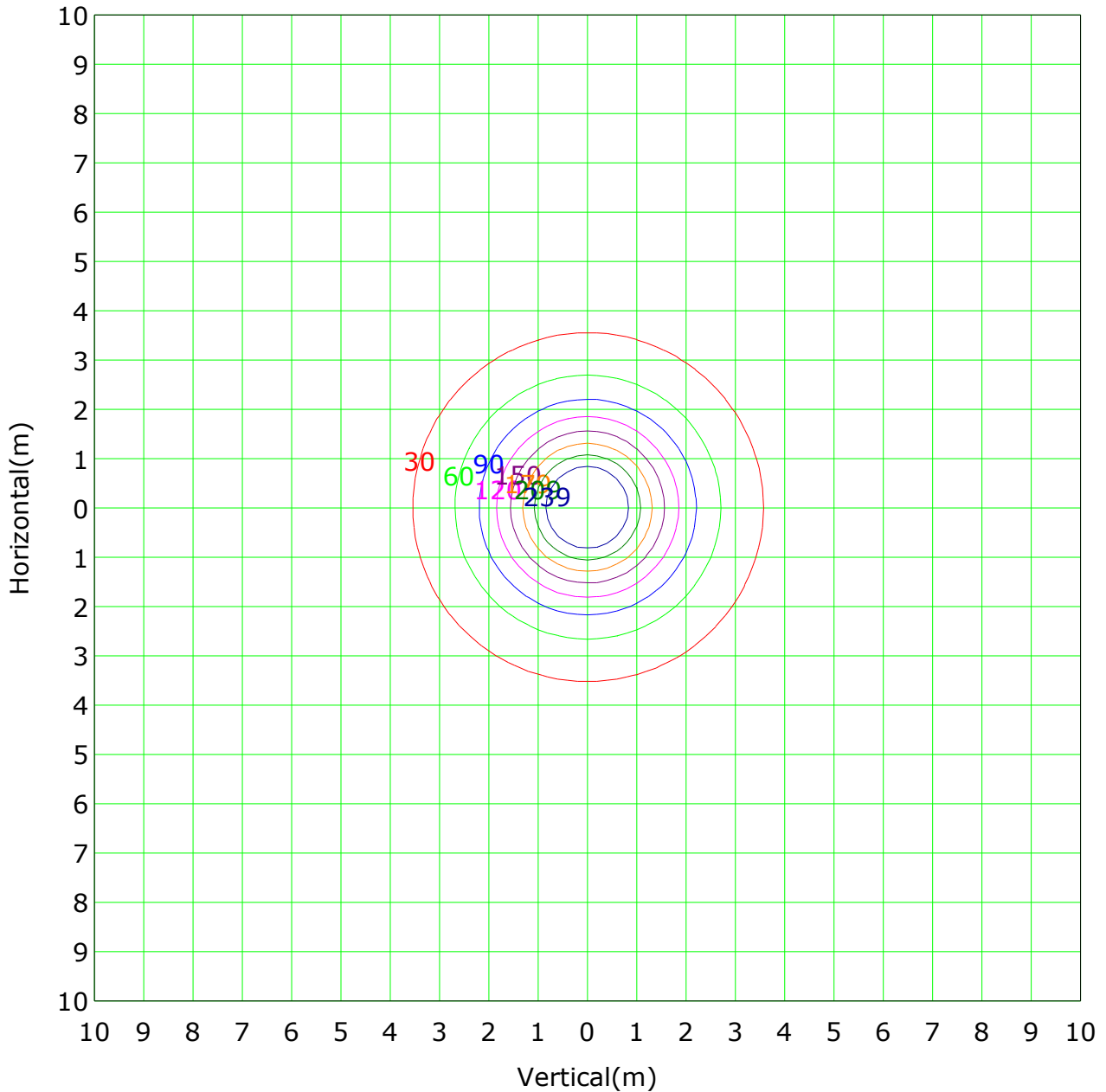
Imax (100%): 1869 cd

— (10%): 187 cd	— (16%): 299 cd
— (25%): 467 cd	— (40%): 748 cd
— (63%): 1177 cd	— (100%): 1869 cd

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:

IsoLux Plot



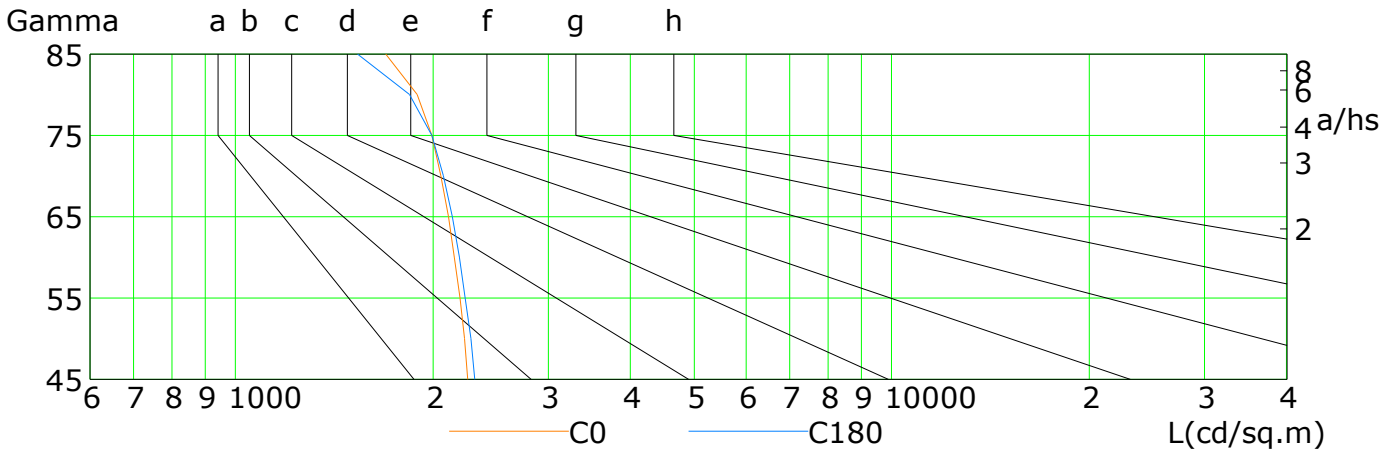
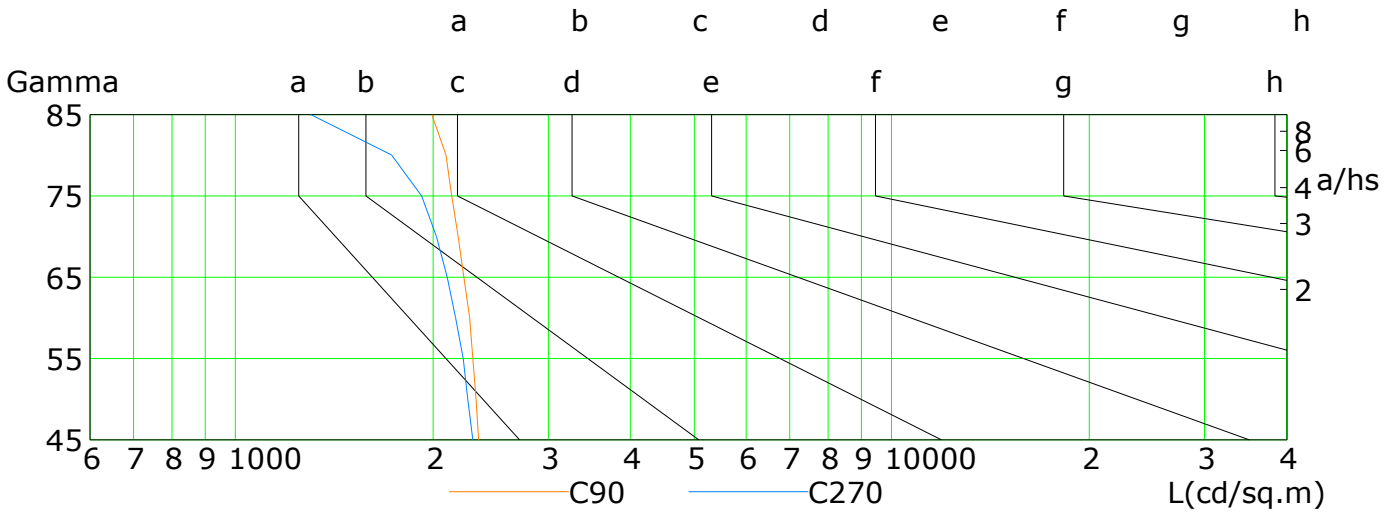
Mounting Height: 2.5m		Max Lux(100%): 299.0 lx	
— (10%): 29.9 lx	— (20%): 59.8 lx	— (40%): 119.6 lx	
— (30%): 89.7 lx	— (50%): 149.5 lx	— (60%): 179.4 lx	
— (50%): 149.5 lx	— (70%): 209.3 lx	— (80%): 239.2 lx	

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Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
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

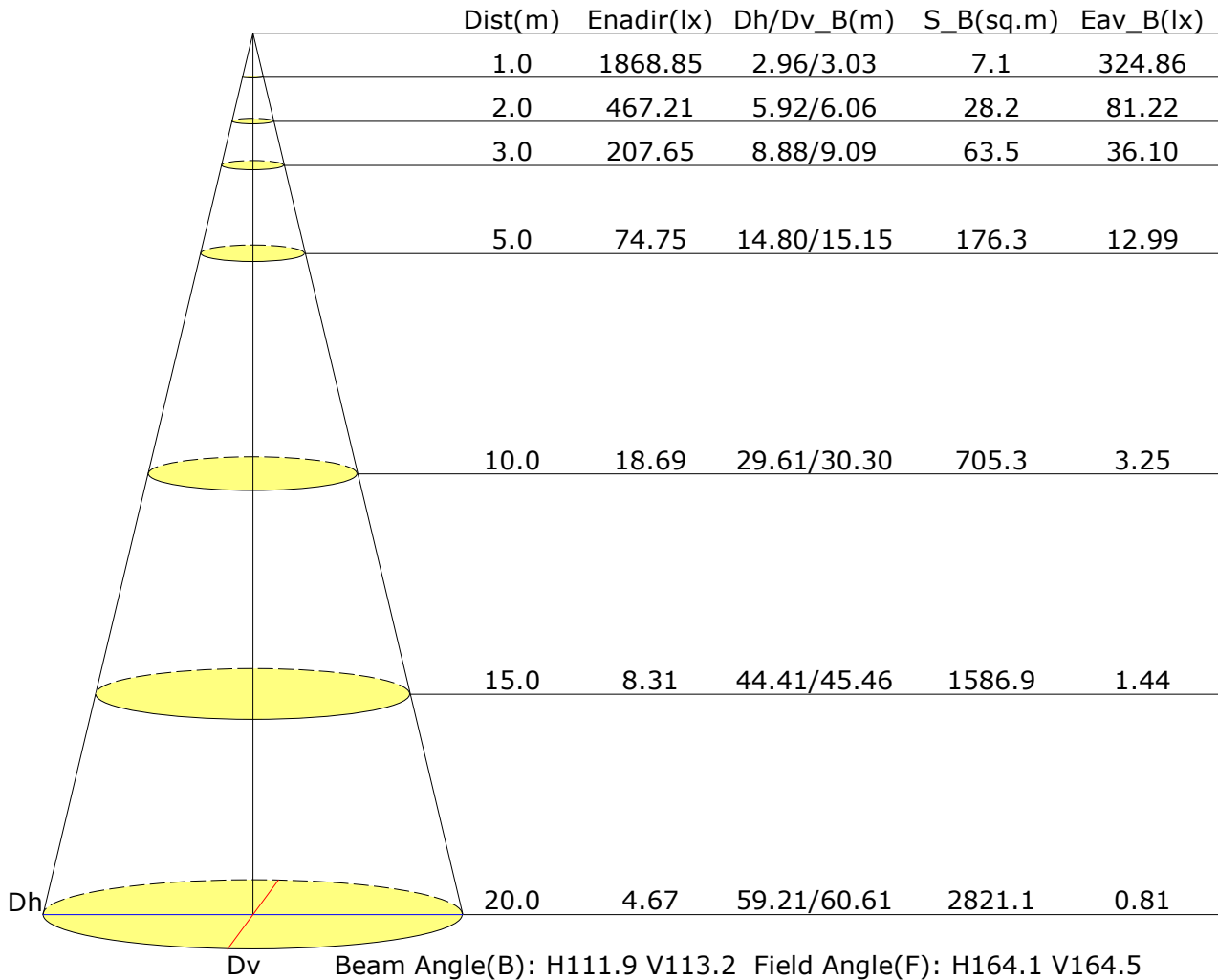


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2261	2233	2201	2158	2115	2055	1993	1894	1696
C90	2349	2329	2299	2273	2231	2186	2139	2093	1994
C180	2318	2283	2242	2197	2140	2074	1991	1841	1536
C270	2299	2262	2223	2167	2102	2024	1921	1731	1303

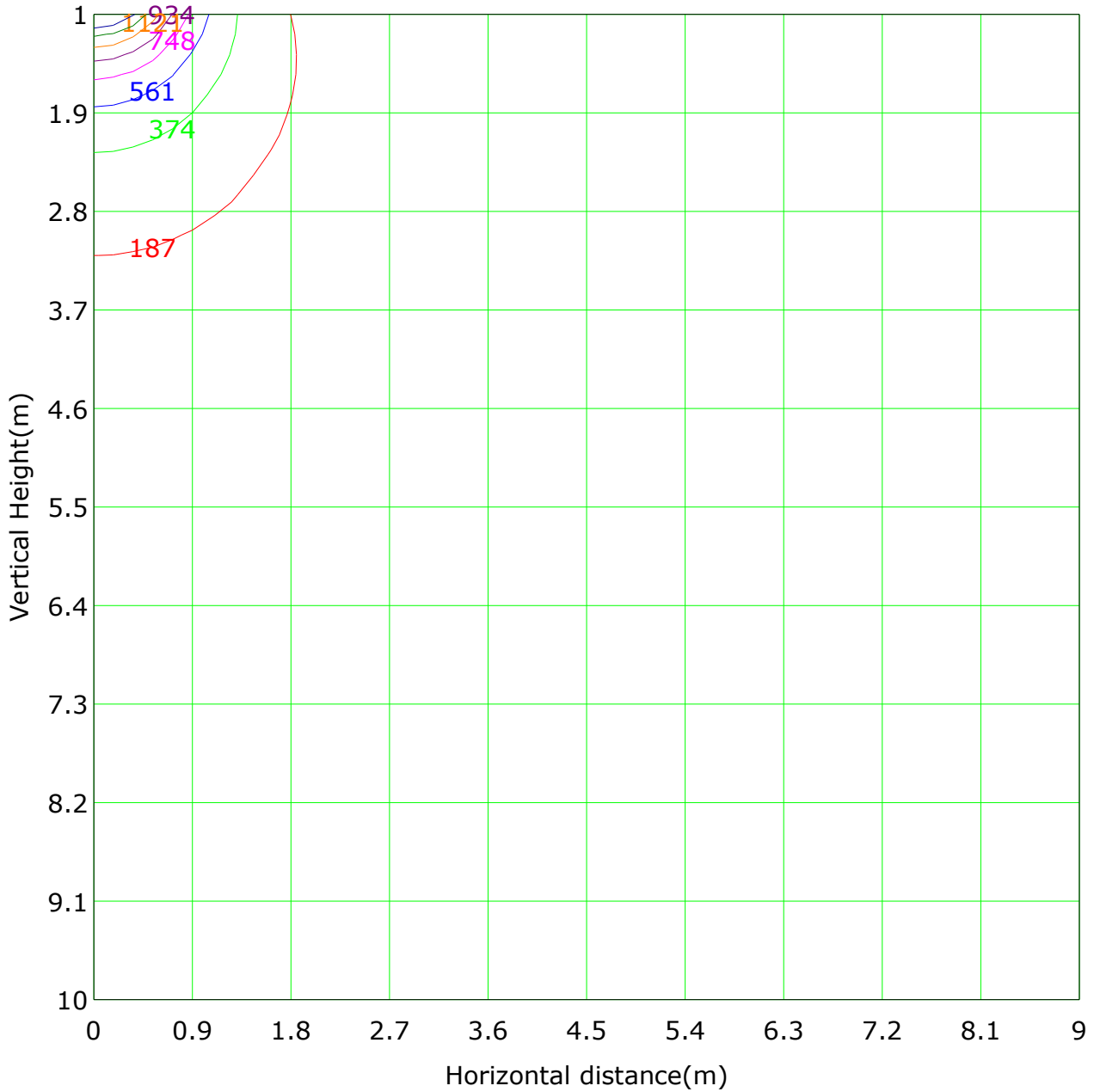
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

Illuminance at a Distance



Vertical IsoLux Plot

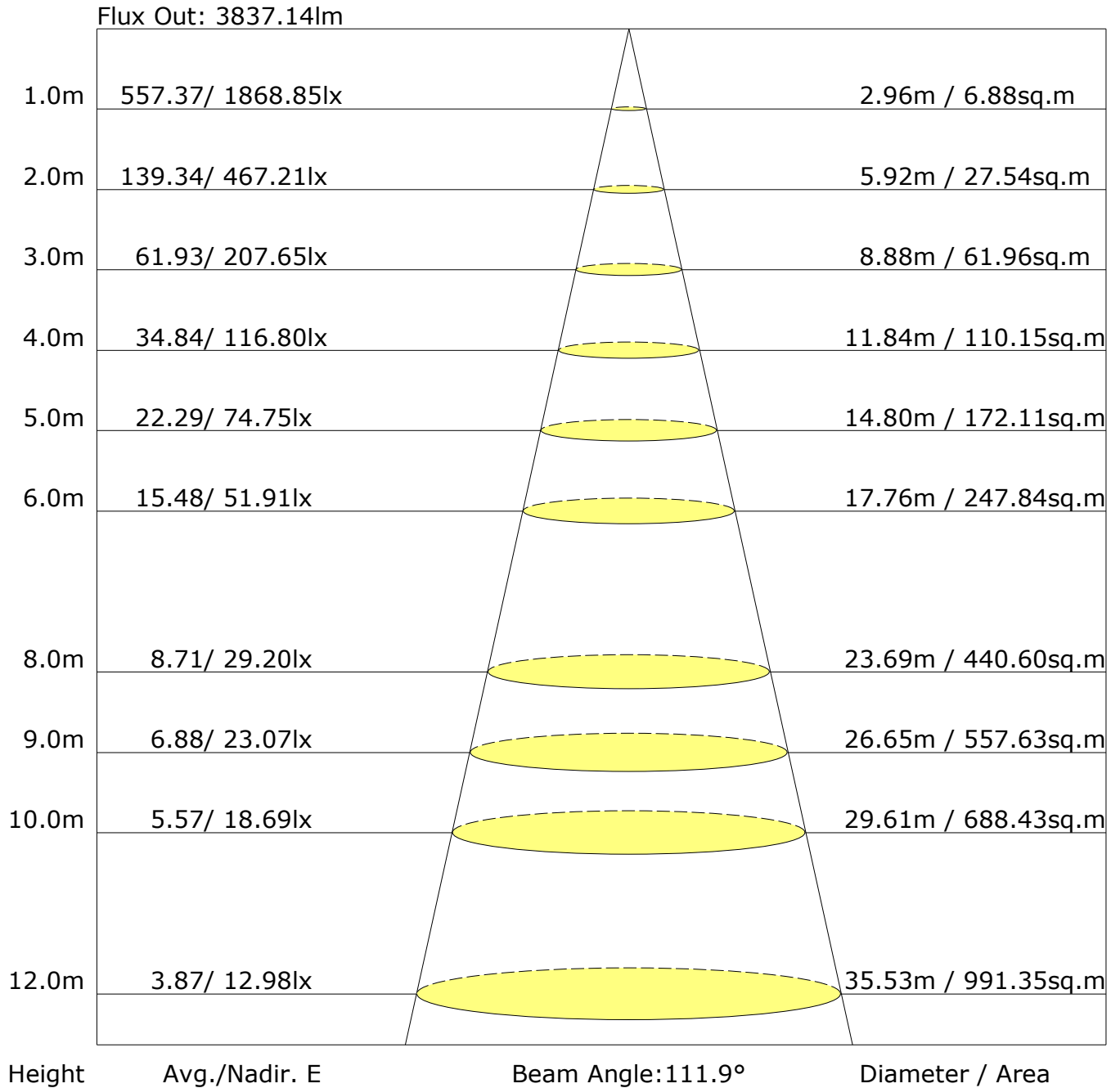


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 1868.8 lx
— (10%): 186.9 lx	— (20%): 373.8 lx	
— (30%): 560.7 lx	— (40%): 747.5 lx	
— (50%): 934.4 lx	— (60%): 1121.3 lx	
— (70%): 1308.2 lx	— (80%): 1495.1 lx	

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:

The Average Illuminance Effective Figure



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:

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	15.3	16.7	15.6	16.9	17.2	15.4	16.8	15.7	17.0	17.3
3H	17.0	18.2	17.3	18.5	18.8	17.1	18.3	17.4	18.6	18.9
4H	17.7	18.9	18.0	19.2	19.5	17.8	19.0	18.1	19.3	19.6
6H	18.2	19.3	18.6	19.7	20.0	18.3	19.5	18.7	19.8	20.1
8H	18.4	19.5	18.8	19.8	20.2	18.5	19.6	18.9	20.0	20.3
12H	18.6	19.6	19.0	19.9	20.3	18.7	19.7	19.1	20.1	20.4
X=4H Y=2H	16.0	17.2	16.4	17.5	17.8	16.1	17.3	16.4	17.6	17.9
3H	17.9	18.9	18.3	19.3	19.6	18.0	19.0	18.4	19.3	19.7
4H	18.7	19.6	19.1	20.0	20.4	18.8	19.7	19.2	20.1	20.5
6H	19.4	20.2	19.9	20.6	21.1	19.5	20.3	19.9	20.7	21.2
8H	19.7	20.4	20.1	20.9	21.3	19.8	20.5	20.2	20.9	21.4
12H	19.9	20.5	20.3	21.0	21.4	19.9	20.6	20.4	21.1	21.5
X=8H Y=4H	19.1	19.8	19.5	20.2	20.7	19.2	19.9	19.6	20.3	20.8
6H	19.9	20.5	20.4	21.0	21.5	20.0	20.6	20.5	21.1	21.6
8H	20.3	20.8	20.8	21.3	21.8	20.4	20.9	20.9	21.4	21.9
12H	20.6	21.0	21.1	21.5	22.0	20.6	21.1	21.1	21.6	22.1
X=12H Y=4H	19.1	19.8	19.6	20.2	20.7	19.2	19.9	19.7	20.3	20.8
6H	20.0	20.6	20.5	21.0	21.5	20.1	20.6	20.6	21.1	21.6
8H	20.4	20.9	20.9	21.4	21.9	20.5	21.0	21.0	21.5	22.0
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.8					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 5439lm ($8\log(F/F_0) = 5.9$).

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1868.6	1.8	1.8	0.03	0.03
1.0-2.0	1867.9	5.4	7.2	0.10	0.13
2.0-3.0	1866.6	8.9	16.1	0.16	0.30
3.0-4.0	1864.5	12.5	28.6	0.23	0.53
4.0-5.0	1861.8	16.0	44.6	0.29	0.82
5.0-6.0	1858.2	19.5	64.1	0.36	1.18
6.0-7.0	1854.0	23.0	87.1	0.42	1.60
7.0-8.0	1849.3	26.5	113.6	0.49	2.09
8.0-9.0	1843.5	29.9	143.5	0.55	2.64
9.0-10.0	1837.2	33.3	176.7	0.61	3.25
10.0-11.0	1830.1	36.6	213.3	0.67	3.92
11.0-12.0	1822.4	39.8	253.1	0.73	4.65
12.0-13.0	1814.2	43.1	296.2	0.79	5.45
13.0-14.0	1805.1	46.2	342.4	0.85	6.30
14.0-15.0	1795.4	49.3	391.7	0.91	7.20
15.0-16.0	1785.1	52.3	444.0	0.96	8.16
16.0-17.0	1773.8	55.2	499.3	1.02	9.18
17.0-18.0	1762.0	58.1	557.4	1.07	10.25
18.0-19.0	1749.8	60.9	618.3	1.12	11.37
19.0-20.0	1736.6	63.6	681.8	1.17	12.54
20.0-21.0	1722.6	66.2	748.0	1.22	13.75
21.0-22.0	1708.1	68.7	816.6	1.26	15.01
22.0-23.0	1693.1	71.1	887.7	1.31	16.32
23.0-24.0	1678.1	73.4	961.1	1.35	17.67
24.0-25.0	1662.4	75.6	1036.7	1.39	19.06
25.0-26.0	1645.8	77.7	1114.4	1.43	20.49
26.0-27.0	1628.0	79.7	1194.0	1.46	21.95
27.0-28.0	1606.4	81.3	1275.4	1.50	23.45
28.0-29.0	1585.0	82.9	1358.3	1.52	24.97
29.0-30.0	1565.8	84.6	1442.9	1.55	26.53
30.0-31.0	1546.7	86.1	1528.9	1.58	28.11
31.0-32.0	1527.6	87.5	1616.5	1.61	29.72
32.0-33.0	1507.9	88.8	1705.3	1.63	31.35
33.0-34.0	1487.9	90.1	1795.4	1.66	33.01
34.0-35.0	1467.4	91.1	1886.5	1.68	34.69
35.0-36.0	1446.4	92.1	1978.6	1.69	36.38

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 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1425.3	93.0	2071.6	1.71	38.09
37.0-38.0	1404.1	93.7	2165.3	1.72	39.81
38.0-39.0	1382.1	94.3	2259.7	1.73	41.55
39.0-40.0	1359.3	94.8	2354.5	1.74	43.29
40.0-41.0	1336.9	95.2	2449.7	1.75	45.04
41.0-42.0	1314.3	95.5	2545.2	1.76	46.80
42.0-43.0	1290.9	95.6	2640.8	1.76	48.55
43.0-44.0	1266.9	95.6	2736.5	1.76	50.31
44.0-45.0	1242.6	95.5	2832.0	1.76	52.07
45.0-46.0	1218.1	95.3	2927.3	1.75	53.82
46.0-47.0	1193.5	94.9	3022.2	1.75	55.57
47.0-48.0	1168.4	94.5	3116.7	1.74	57.30
48.0-49.0	1142.7	93.9	3210.5	1.73	59.03
49.0-50.0	1116.8	93.1	3303.6	1.71	60.74
50.0-51.0	1090.8	92.3	3395.9	1.70	62.44
51.0-52.0	1064.4	91.3	3487.3	1.68	64.12
52.0-53.0	1037.4	90.3	3577.5	1.66	65.78
53.0-54.0	1010.3	89.1	3666.6	1.64	67.41
54.0-55.0	983.2	87.8	3754.4	1.61	69.03
55.0-56.0	955.7	86.4	3840.7	1.59	70.62
56.0-57.0	928.0	84.9	3925.6	1.56	72.18
57.0-58.0	900.4	83.3	4008.9	1.53	73.71
58.0-59.0	872.8	81.6	4090.5	1.50	75.21
59.0-60.0	844.2	79.8	4170.2	1.47	76.67
60.0-61.0	815.5	77.8	4248.1	1.43	78.11
61.0-62.0	786.8	75.8	4323.9	1.39	79.50
62.0-63.0	757.8	73.7	4397.6	1.36	80.85
63.0-64.0	728.9	71.5	4469.1	1.32	82.17
64.0-65.0	699.2	69.2	4538.4	1.27	83.44
65.0-66.0	670.2	66.9	4605.2	1.23	84.67
66.0-67.0	641.1	64.5	4669.7	1.19	85.86
67.0-68.0	611.6	62.0	4731.7	1.14	87.00
68.0-69.0	582.0	59.4	4791.0	1.09	88.09
69.0-70.0	552.4	56.7	4847.8	1.04	89.13
70.0-71.0	523.5	54.1	4901.9	0.99	90.13
71.0-72.0	494.5	51.4	4953.3	0.95	91.07

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:

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	465.0	48.6	5002.0	0.89	91.97
73.0-74.0	435.8	45.8	5047.8	0.84	92.81
74.0-75.0	407.1	43.0	5090.8	0.79	93.60
75.0-76.0	377.4	40.1	5130.9	0.74	94.34
76.0-77.0	348.1	37.1	5168.0	0.68	95.02
77.0-78.0	320.0	34.3	5202.2	0.63	95.65
78.0-79.0	290.5	31.2	5233.5	0.57	96.22
79.0-80.0	261.4	28.2	5261.6	0.52	96.74
80.0-81.0	233.2	25.2	5286.9	0.46	97.20
81.0-82.0	204.8	22.2	5309.1	0.41	97.61
82.0-83.0	177.0	19.2	5328.3	0.35	97.97
83.0-84.0	149.5	16.3	5344.6	0.30	98.27
84.0-85.0	121.5	13.3	5357.9	0.24	98.51
85.0-86.0	94.7	10.3	5368.2	0.19	98.70
86.0-87.0	70.7	7.7	5375.9	0.14	98.84
87.0-88.0	49.6	5.4	5381.4	0.10	98.94
88.0-89.0	31.3	3.4	5384.8	0.06	99.01
89.0-90.0	16.6	1.8	5386.6	0.03	99.04
90.0-91.0	7.9	0.9	5387.5	0.02	99.06
91.0-92.0	4.7	0.5	5388.0	0.01	99.06
92.0-93.0	4.2	0.5	5388.5	0.01	99.07
93.0-94.0	4.3	0.5	5388.9	0.01	99.08
94.0-95.0	4.5	0.5	5389.4	0.01	99.09
95.0-96.0	4.6	0.5	5389.9	0.01	99.10
96.0-97.0	4.7	0.5	5390.5	0.01	99.11
97.0-98.0	4.9	0.5	5391.0	0.01	99.12
98.0-99.0	5.0	0.5	5391.5	0.01	99.13
99.0-100.0	5.1	0.5	5392.1	0.01	99.14
100.0-101.0	5.2	0.6	5392.6	0.01	99.15
101.0-102.0	5.3	0.6	5393.2	0.01	99.16
102.0-103.0	5.5	0.6	5393.8	0.01	99.17
103.0-104.0	5.7	0.6	5394.4	0.01	99.18
104.0-105.0	5.8	0.6	5395.0	0.01	99.19
105.0-106.0	6.0	0.6	5395.6	0.01	99.20
106.0-107.0	6.1	0.6	5396.3	0.01	99.22
107.0-108.0	6.3	0.7	5396.9	0.01	99.23

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	6.4	0.7	5397.6	0.01	99.24
109.0-110.0	6.6	0.7	5398.3	0.01	99.25
110.0-111.0	6.7	0.7	5399.0	0.01	99.27
111.0-112.0	6.8	0.7	5399.7	0.01	99.28
112.0-113.0	7.0	0.7	5400.4	0.01	99.29
113.0-114.0	7.2	0.7	5401.1	0.01	99.31
114.0-115.0	7.3	0.7	5401.8	0.01	99.32
115.0-116.0	7.4	0.7	5402.6	0.01	99.33
116.0-117.0	7.6	0.7	5403.3	0.01	99.35
117.0-118.0	7.7	0.8	5404.1	0.01	99.36
118.0-119.0	7.9	0.8	5404.8	0.01	99.37
119.0-120.0	8.0	0.8	5405.6	0.01	99.39
120.0-121.0	8.2	0.8	5406.4	0.01	99.40
121.0-122.0	8.3	0.8	5407.1	0.01	99.42
122.0-123.0	8.5	0.8	5407.9	0.01	99.43
123.0-124.0	8.6	0.8	5408.7	0.01	99.45
124.0-125.0	8.8	0.8	5409.5	0.01	99.46
125.0-126.0	8.9	0.8	5410.3	0.01	99.47
126.0-127.0	9.0	0.8	5411.1	0.01	99.49
127.0-128.0	9.2	0.8	5411.9	0.01	99.50
128.0-129.0	9.3	0.8	5412.7	0.01	99.52
129.0-130.0	9.5	0.8	5413.5	0.01	99.53
130.0-131.0	9.6	0.8	5414.3	0.01	99.55
131.0-132.0	9.7	0.8	5415.1	0.01	99.56
132.0-133.0	9.9	0.8	5415.9	0.01	99.58
133.0-134.0	10.0	0.8	5416.7	0.01	99.59
134.0-135.0	10.1	0.8	5417.5	0.01	99.61
135.0-136.0	10.2	0.8	5418.3	0.01	99.62
136.0-137.0	10.3	0.8	5419.0	0.01	99.63
137.0-138.0	10.4	0.8	5419.8	0.01	99.65
138.0-139.0	10.5	0.8	5420.6	0.01	99.66
139.0-140.0	10.6	0.8	5421.3	0.01	99.68
140.0-141.0	10.8	0.8	5422.1	0.01	99.69
141.0-142.0	10.9	0.7	5422.8	0.01	99.70
142.0-143.0	11.0	0.7	5423.5	0.01	99.72
143.0-144.0	11.1	0.7	5424.3	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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	11.2	0.7	5425.0	0.01	99.74
145.0-146.0	11.3	0.7	5425.7	0.01	99.76
146.0-147.0	11.4	0.7	5426.4	0.01	99.77
147.0-148.0	11.5	0.7	5427.1	0.01	99.78
148.0-149.0	11.6	0.7	5427.7	0.01	99.79
149.0-150.0	11.7	0.7	5428.4	0.01	99.81
150.0-151.0	11.8	0.6	5429.0	0.01	99.82
151.0-152.0	11.9	0.6	5429.6	0.01	99.83
152.0-153.0	11.9	0.6	5430.2	0.01	99.84
153.0-154.0	12.0	0.6	5430.8	0.01	99.85
154.0-155.0	12.1	0.6	5431.4	0.01	99.86
155.0-156.0	12.2	0.6	5432.0	0.01	99.87
156.0-157.0	12.3	0.5	5432.5	0.01	99.88
157.0-158.0	12.4	0.5	5433.0	0.01	99.89
158.0-159.0	12.4	0.5	5433.5	0.01	99.90
159.0-160.0	12.5	0.5	5434.0	0.01	99.91
160.0-161.0	12.6	0.5	5434.5	0.01	99.92
161.0-162.0	12.6	0.4	5434.9	0.01	99.93
162.0-163.0	12.7	0.4	5435.3	0.01	99.93
163.0-164.0	12.7	0.4	5435.7	0.01	99.94
164.0-165.0	12.8	0.4	5436.1	0.01	99.95
165.0-166.0	12.8	0.4	5436.4	0.01	99.95
166.0-167.0	12.9	0.3	5436.8	0.01	99.96
167.0-168.0	13.0	0.3	5437.1	0.01	99.97
168.0-169.0	13.1	0.3	5437.4	0.01	99.97
169.0-170.0	13.1	0.3	5437.6	0.00	99.98
170.0-171.0	13.2	0.2	5437.9	0.00	99.98
171.0-172.0	13.3	0.2	5438.1	0.00	99.98
172.0-173.0	13.3	0.2	5438.3	0.00	99.99
173.0-174.0	13.4	0.2	5438.4	0.00	99.99
174.0-175.0	13.4	0.1	5438.6	0.00	99.99
175.0-176.0	13.4	0.1	5438.7	0.00	100.00
176.0-177.0	13.5	0.1	5438.8	0.00	100.00
177.0-178.0	13.5	0.1	5438.8	0.00	100.00
178.0-179.0	13.5	0.0	5438.9	0.00	100.00
179.0-180.0	13.6	0.0	5438.9	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°): 2831.98 lm

%lum = 52.1%

%lamp = 52.1%

cone flux(120°): 4170.24 lm

%lum = 76.7%

%lamp = 76.7%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	1868.8	1868.8	1868.8	1868.8	1868.8					
G1.0	1868.3	1868.6	1868.6	1868.3	1868.3					
G2.0	1866.7	1867.6	1868.0	1867.3	1866.7					
G3.0	1864.8	1866.2	1866.6	1865.5	1864.8					
G4.0	1861.9	1863.6	1864.4	1863.2	1861.9					
G5.0	1859.0	1860.8	1861.7	1859.6	1859.0					
G6.0	1853.5	1857.0	1858.3	1855.8	1853.5					
G7.0	1848.5	1852.5	1855.0	1851.8	1848.5					
G8.0	1843.0	1847.8	1849.2	1846.4	1843.0					
G9.0	1835.7	1841.5	1844.2	1840.5	1835.7					
G10.0	1828.3	1835.5	1837.5	1834.3	1828.3					
G11.0	1819.5	1828.9	1829.9	1826.8	1819.5					
G12.0	1811.1	1820.6	1822.8	1819.2	1811.1					
G13.0	1801.9	1812.7	1813.8	1811.1	1801.9					
G14.0	1792.1	1803.9	1804.0	1800.9	1792.1					
G15.0	1781.8	1794.7	1794.2	1791.3	1781.8					
G16.0	1769.6	1784.1	1783.7	1780.9	1769.6					
G17.0	1757.9	1773.9	1771.6	1768.6	1757.9					
G18.0	1745.5	1762.5	1759.9	1756.5	1745.5					
G19.0	1732.7	1750.8	1746.1	1744.3	1732.7					
G20.0	1719.0	1737.3	1733.1	1729.6	1719.0					
G21.0	1703.5	1724.0	1719.2	1715.4	1703.5					
G22.0	1689.3	1710.4	1702.5	1700.8	1689.3					
G23.0	1673.6	1694.9	1687.9	1685.7	1673.6					
G24.0	1657.0	1684.8	1672.3	1668.7	1657.0					
G25.0	1640.5	1668.9	1654.3	1652.6	1640.5					
G26.0	1623.8	1653.3	1637.6	1635.5	1623.8					
G27.0	1606.8	1630.2	1620.5	1616.6	1606.8					
G28.0	1565.3	1612.6	1600.7	1598.6	1565.3					
G29.0	1547.3	1592.8	1582.1	1580.7	1547.3					
G30.0	1527.2	1574.3	1562.9	1559.5	1527.2					
G31.0	1509.1	1555.8	1544.4	1540.8	1509.1					
G32.0	1489.2	1535.6	1524.6	1521.2	1489.2					
G33.0	1470.3	1516.1	1505.2	1500.7	1470.3					
G34.0	1451.3	1496.7	1485.0	1478.0	1451.3					
G35.0	1429.7	1476.6	1465.0	1457.0	1429.7					
G36.0	1410.0	1454.4	1442.8	1435.6	1410.0					

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 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	1389.6	1433.9	1421.5	1414.3	1389.6					
G38.0	1369.0	1413.0	1400.7	1390.7	1369.0					
G39.0	1345.3	1389.7	1379.1	1369.1	1345.3					
G40.0	1323.8	1368.3	1354.7	1344.6	1323.8					
G41.0	1301.7	1346.7	1332.7	1322.3	1301.7					
G42.0	1277.1	1324.2	1309.9	1299.4	1277.1					
G43.0	1254.6	1301.5	1283.9	1276.2	1254.6					
G44.0	1231.8	1276.5	1260.6	1250.2	1231.8					
G45.0	1206.2	1253.1	1236.3	1226.0	1206.2					
G46.0	1182.8	1229.7	1209.4	1201.7	1182.8					
G47.0	1158.9	1205.6	1184.9	1174.8	1158.9					
G48.0	1134.5	1178.6	1159.8	1149.9	1134.5					
G49.0	1107.4	1153.9	1132.6	1124.9	1107.4					
G50.0	1082.6	1129.3	1107.0	1096.7	1082.6					
G51.0	1057.3	1101.1	1081.3	1071.1	1057.3					
G52.0	1031.9	1075.5	1052.0	1044.8	1031.9					
G53.0	1003.9	1049.6	1025.7	1015.6	1003.9					
G54.0	978.2	1020.9	999.3	988.8	978.2					
G55.0	952.1	994.7	969.9	962.0	952.1					
G56.0	923.4	968.2	942.8	932.1	923.4					
G57.0	896.9	941.2	915.2	904.2	896.9					
G58.0	870.2	911.6	887.4	876.4	870.2					
G59.0	843.5	887.7	856.8	848.4	843.5					
G60.0	813.8	857.3	828.7	817.4	813.8					
G61.0	786.7	829.7	801.1	789.5	786.7					
G62.0	759.3	798.9	770.3	758.7	759.3					
G63.0	732.1	770.7	741.9	730.1	732.1					
G64.0	701.7	739.5	713.4	701.3	701.7					
G65.0	674.1	711.3	682.2	670.1	674.1					
G66.0	646.2	682.7	653.5	641.2	646.2					
G67.0	616.0	651.7	624.9	612.2	616.0					
G68.0	588.2	623.6	593.2	583.4	588.2					
G69.0	560.5	592.2	563.9	551.3	560.5					
G70.0	530.2	563.9	535.0	522.3	530.2					
G71.0	502.5	535.4	505.7	493.0	502.5					
G72.0	474.7	506.1	474.6	464.1	474.7					
G73.0	444.2	477.6	445.9	432.4	444.2					

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 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	416.5	448.9	417.2	403.8	416.5					
G75.0	389.0	417.6	388.6	375.1	389.0					
G76.0	358.7	389.2	357.1	343.4	358.7					
G77.0	331.6	361.0	328.9	315.0	331.6					
G78.0	304.1	332.6	300.3	286.1	304.1					
G79.0	274.7	302.1	269.1	254.9	274.7					
G80.0	248.0	274.1	241.1	226.7	248.0					
G81.0	221.3	243.5	212.5	198.1	221.3					
G82.0	192.2	216.2	184.7	169.9	192.2					
G83.0	165.7	188.8	156.7	141.8	165.7					
G84.0	139.6	158.7	129.9	114.5	139.6					
G85.0	111.5	131.1	101.0	85.7	111.5					
G86.0	86.6	104.5	76.0	61.0	86.6					
G87.0	63.9	79.0	54.0	40.6	63.9					
G88.0	43.9	56.4	35.3	23.8	43.9					
G89.0	25.9	37.3	17.9	9.6	25.9					
G90.0	10.7	21.1	6.4	4.2	10.7					
G91.0	4.9	8.1	3.6	4.2	4.9					
G92.0	4.5	4.4	3.7	4.2	4.5					
G93.0	4.3	4.5	3.8	4.2	4.3					
G94.0	4.4	4.8	4.0	4.4	4.4					
G95.0	4.7	4.9	4.0	4.6	4.7					
G96.0	4.9	5.0	4.2	4.6	4.9					
G97.0	5.0	5.1	4.3	4.8	5.0					
G98.0	5.0	5.2	4.4	4.9	5.0					
G99.0	5.1	5.4	4.5	5.1	5.1					
G100.0	5.1	5.5	4.7	5.2	5.1					
G101.0	5.3	5.7	4.7	5.4	5.3					
G102.0	5.5	5.8	4.9	5.5	5.5					
G103.0	5.6	6.1	5.0	5.7	5.6					
G104.0	5.8	6.1	5.1	5.8	5.8					
G105.0	6.0	6.3	5.4	6.0	6.0					
G106.0	6.2	6.4	5.5	6.1	6.2					
G107.0	6.3	6.6	5.7	6.2	6.3					
G108.0	6.5	6.7	5.8	6.4	6.5					
G109.0	6.6	6.9	6.0	6.5	6.6					
G110.0	6.8	7.0	6.1	6.6	6.8					

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	6.9	7.1	6.3	6.7	6.9					
G112.0	7.0	7.3	6.5	6.9	7.0					
G113.0	7.2	7.5	6.6	7.0	7.2					
G114.0	7.4	7.6	6.8	7.2	7.4					
G115.0	7.5	7.7	6.9	7.3	7.5					
G116.0	7.6	7.8	7.1	7.4	7.6					
G117.0	7.8	8.0	7.3	7.6	7.8					
G118.0	7.9	8.2	7.4	7.7	7.9					
G119.0	8.1	8.3	7.5	7.9	8.1					
G120.0	8.2	8.5	7.7	8.1	8.2					
G121.0	8.3	8.6	7.8	8.2	8.3					
G122.0	8.5	8.7	8.0	8.3	8.5					
G123.0	8.7	8.9	8.1	8.5	8.7					
G124.0	8.8	9.0	8.3	8.6	8.8					
G125.0	9.0	9.2	8.4	8.7	9.0					
G126.0	9.1	9.4	8.6	8.9	9.1					
G127.0	9.2	9.5	8.7	9.0	9.2					
G128.0	9.4	9.6	8.9	9.2	9.4					
G129.0	9.5	9.7	9.0	9.3	9.5					
G130.0	9.7	9.9	9.2	9.5	9.7					
G131.0	9.8	10.0	9.2	9.6	9.8					
G132.0	9.9	10.1	9.4	9.7	9.9					
G133.0	10.1	10.2	9.5	9.9	10.1					
G134.0	10.2	10.3	9.7	9.9	10.2					
G135.0	10.3	10.4	9.7	10.1	10.3					
G136.0	10.4	10.5	9.9	10.2	10.4					
G137.0	10.3	10.6	10.0	10.3	10.3					
G138.0	10.6	10.7	10.0	10.5	10.6					
G139.0	10.7	10.9	10.2	10.6	10.7					
G140.0	10.8	11.0	10.3	10.7	10.8					
G141.0	10.9	11.1	10.5	10.8	10.9					
G142.0	11.0	11.3	10.6	10.9	11.0					
G143.0	11.1	11.3	10.8	11.0	11.1					
G144.0	11.2	11.4	10.8	11.1	11.2					
G145.0	11.3	11.5	11.0	11.3	11.3					
G146.0	11.4	11.7	11.1	11.4	11.4					
G147.0	11.5	11.7	11.3	11.5	11.5					

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	11.6	11.8	11.3	11.6	11.6					
G149.0	11.6	11.9	11.4	11.7	11.6					
G150.0	11.8	11.9	11.5	11.8	11.8					
G151.0	11.8	12.1	11.6	11.9	11.8					
G152.0	11.8	12.1	11.6	11.9	11.8					
G153.0	11.9	12.2	11.9	12.1	11.9					
G154.0	12.0	12.2	11.9	12.1	12.0					
G155.0	12.0	12.3	12.0	12.2	12.0					
G156.0	12.1	12.4	12.2	12.3	12.1					
G157.0	12.2	12.5	12.3	12.4	12.2					
G158.0	12.2	12.5	12.4	12.5	12.2					
G159.0	12.3	12.6	12.5	12.6	12.3					
G160.0	12.3	12.6	12.5	12.7	12.3					
G161.0	12.4	12.6	12.6	12.7	12.4					
G162.0	12.4	12.6	12.8	12.8	12.4					
G163.0	12.5	12.7	12.8	12.8	12.5					
G164.0	12.5	12.7	12.8	12.9	12.5					
G165.0	12.6	12.8	12.9	13.0	12.6					
G166.0	12.7	12.8	12.9	13.0	12.7					
G167.0	12.7	12.9	13.0	13.1	12.7					
G168.0	12.8	13.0	13.2	13.2	12.8					
G169.0	12.8	13.0	13.2	13.3	12.8					
G170.0	12.9	13.1	13.3	13.4	12.9					
G171.0	13.0	13.1	13.4	13.4	13.0					
G172.0	13.0	13.3	13.4	13.4	13.0					
G173.0	13.1	13.3	13.4	13.5	13.1					
G174.0	13.1	13.4	13.4	13.6	13.1					
G175.0	13.2	13.4	13.5	13.5	13.2					
G176.0	13.3	13.5	13.3	13.6	13.3					
G177.0	13.3	13.5	13.4	13.7	13.3					
G178.0	13.3	13.6	13.5	13.6	13.3					
G179.0	13.3	13.7	13.6	13.7	13.3					
G180.0	13.4	13.7	13.4	13.7	13.4					

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 ²
L 0-180(65) av	2127.36
L 0-180(75) av	1991.67
L 0-180(85) av	1616.07
L 90-270(65) av	2166.75
L 90-270(75) av	2030.15
L 90-270(85) av	1648.82
L 45(65) av	2147.06
L 45(75) av	2010.91
L 45(85) av	1632.44

Standard: GB/T 29293-2012