

Report No.: TH-4226A

Test Time: 2023/5/11 14:03

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: 3921-830RP-WH-30W-4000K

Lamp Catalog:

Lamp Description:

Number of Lamps:

Lumens per Lamp:

Luminous Length (mm): -400

Luminous Width (mm): -400

Luminous Height (mm):

Voltage: 120.0 V

Current: 0.279 A

Power: 33.33 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2382.9 lm

Measurement Flux: 2382.9 lm

Efficiency: 100%

Downward Ratio: 99%

Upward Ratio: 1%

Horizontal Diffuse Angle(50%): H107.5

Vertical Diffuse Angle(50%): V106

Luminaire Efficacy Rating (LER): 71.54

C0r0 Intensity: 886.95 cd

Max. Intensity: 889.86 cd

Pos of Max. Intensity: H270 V3

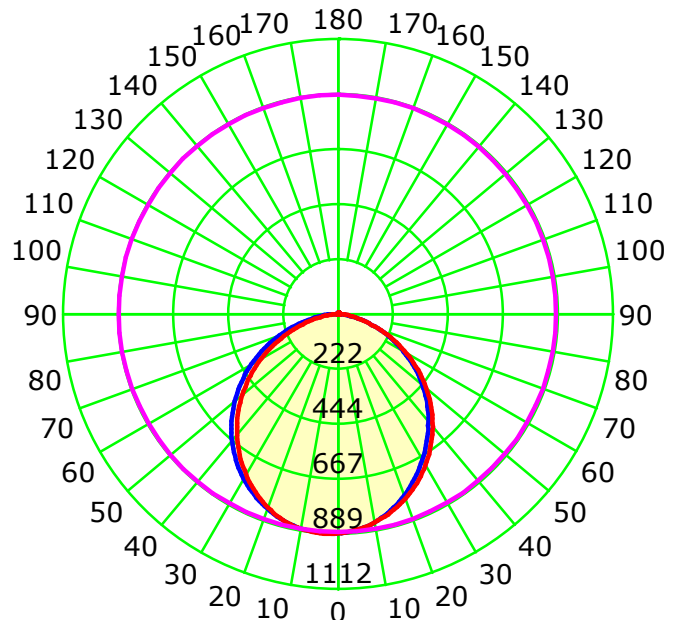
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 106.6°

— C0-C180 — C90-C270 — G3 —

C Plane (°):0.0-360.0: 90.0

Gamma Plane (°):0.0-180.0:1.0

Test Lab: Inventfine instrument

Test Device: GPM-1800B

Test Type: TYPE C

Distance: 8.684 m [K=1.0000]

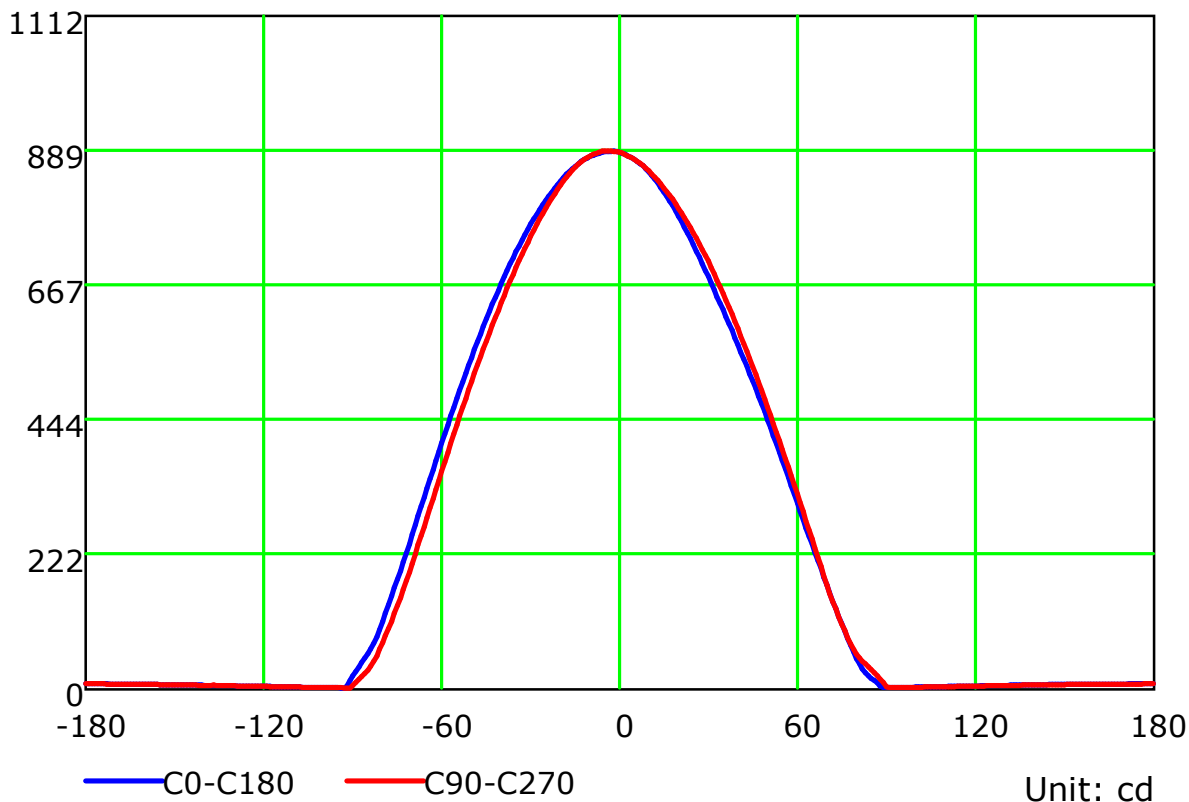
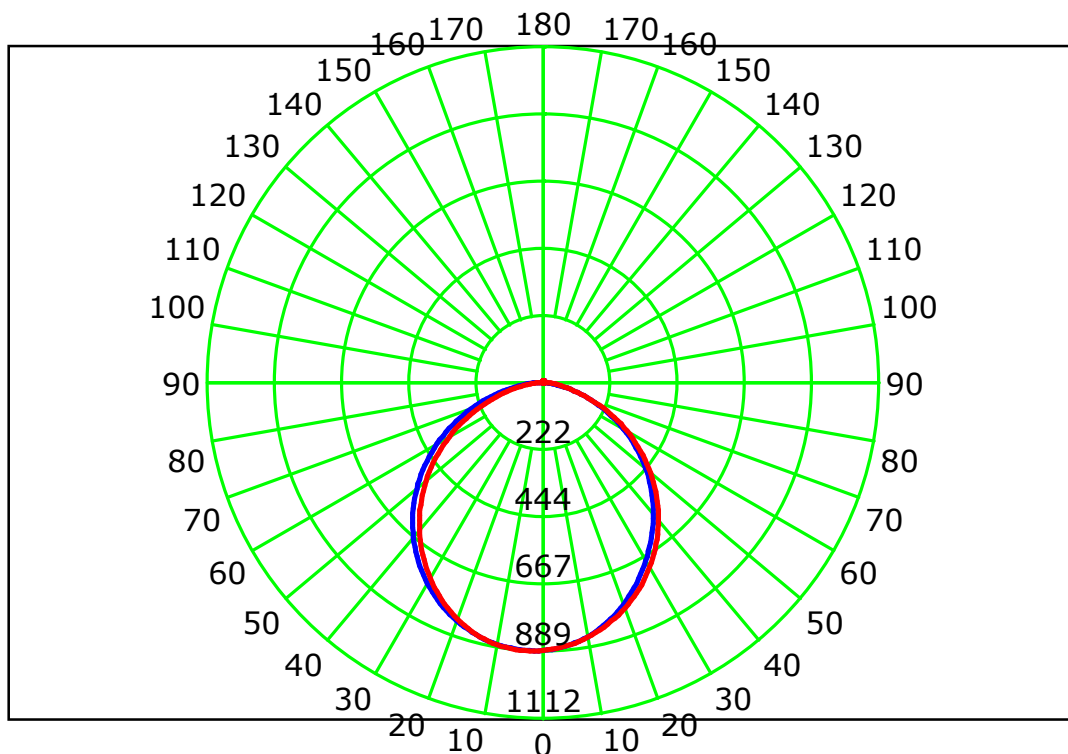
Temperature: 26

Humidity: 65

Operator: Jacky

Inspector:

Luminous Intensity Distribution Curve



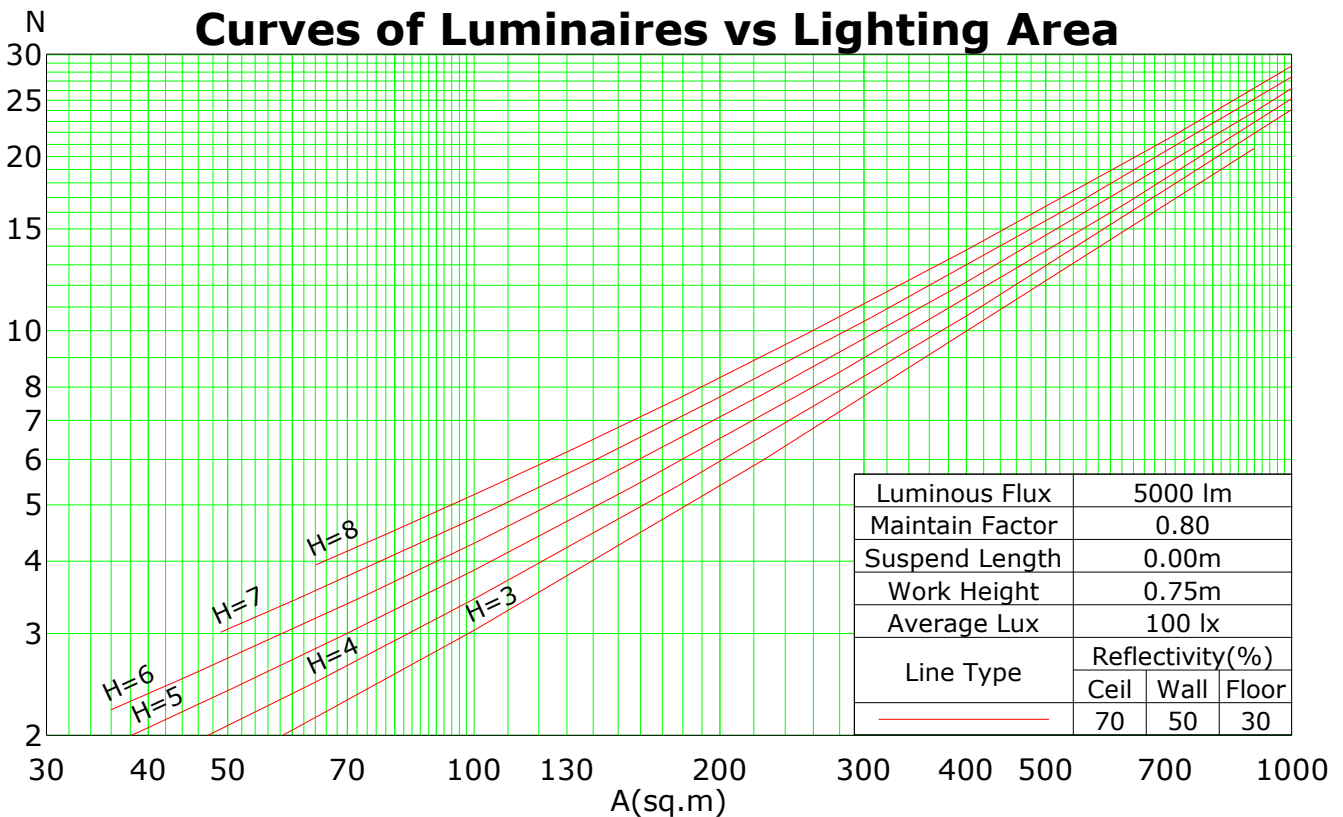
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

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	1.04	1.00	0.96	1.06	1.02	0.98	0.95	0.97	0.94	0.91	0.93	0.91	0.88	0.90	0.88	0.86	0.84
2	0.99	0.91	0.84	0.79	0.96	0.89	0.83	0.78	0.85	0.80	0.76	0.82	0.78	0.74	0.79	0.75	0.72	0.70
3	0.91	0.80	0.72	0.66	0.88	0.79	0.71	0.65	0.75	0.69	0.64	0.73	0.67	0.63	0.70	0.65	0.61	0.59
4	0.83	0.71	0.63	0.56	0.81	0.70	0.62	0.55	0.67	0.60	0.55	0.65	0.59	0.54	0.62	0.57	0.53	0.51
5	0.76	0.64	0.55	0.48	0.74	0.63	0.54	0.48	0.60	0.53	0.47	0.58	0.52	0.47	0.56	0.51	0.46	0.44
6	0.71	0.57	0.49	0.42	0.69	0.56	0.48	0.42	0.55	0.47	0.42	0.53	0.46	0.41	0.51	0.45	0.41	0.39
7	0.65	0.52	0.43	0.37	0.64	0.51	0.43	0.37	0.50	0.42	0.37	0.48	0.41	0.36	0.47	0.41	0.36	0.34
8	0.61	0.48	0.39	0.33	0.59	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.38	0.33	0.43	0.37	0.32	0.31
9	0.57	0.44	0.36	0.30	0.56	0.43	0.35	0.30	0.42	0.35	0.30	0.41	0.34	0.30	0.40	0.34	0.29	0.27
10	0.53	0.40	0.32	0.27	0.52	0.40	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.27	0.25

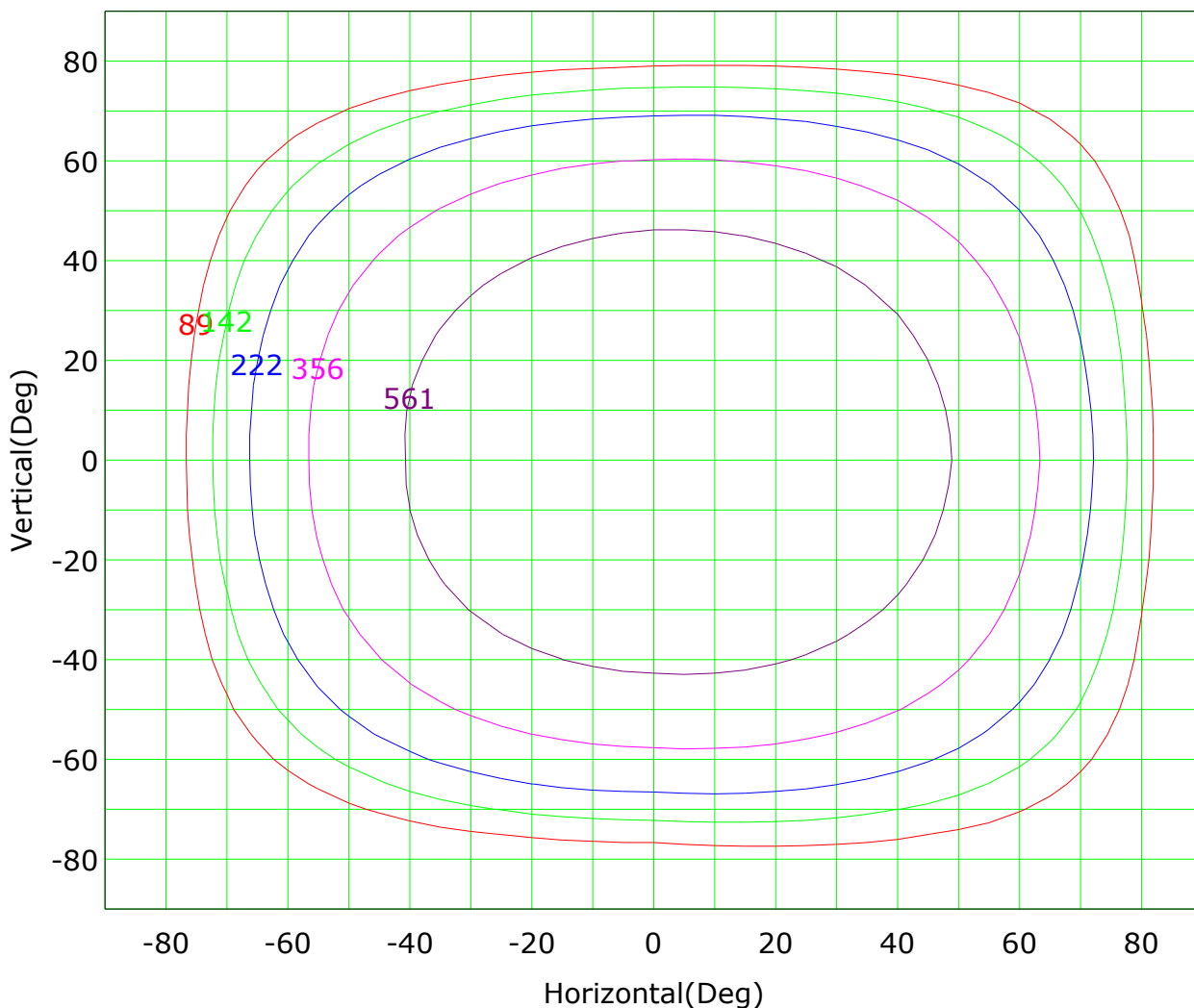
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.22
 Spacing Criteria (Diagonal): 1.34



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)



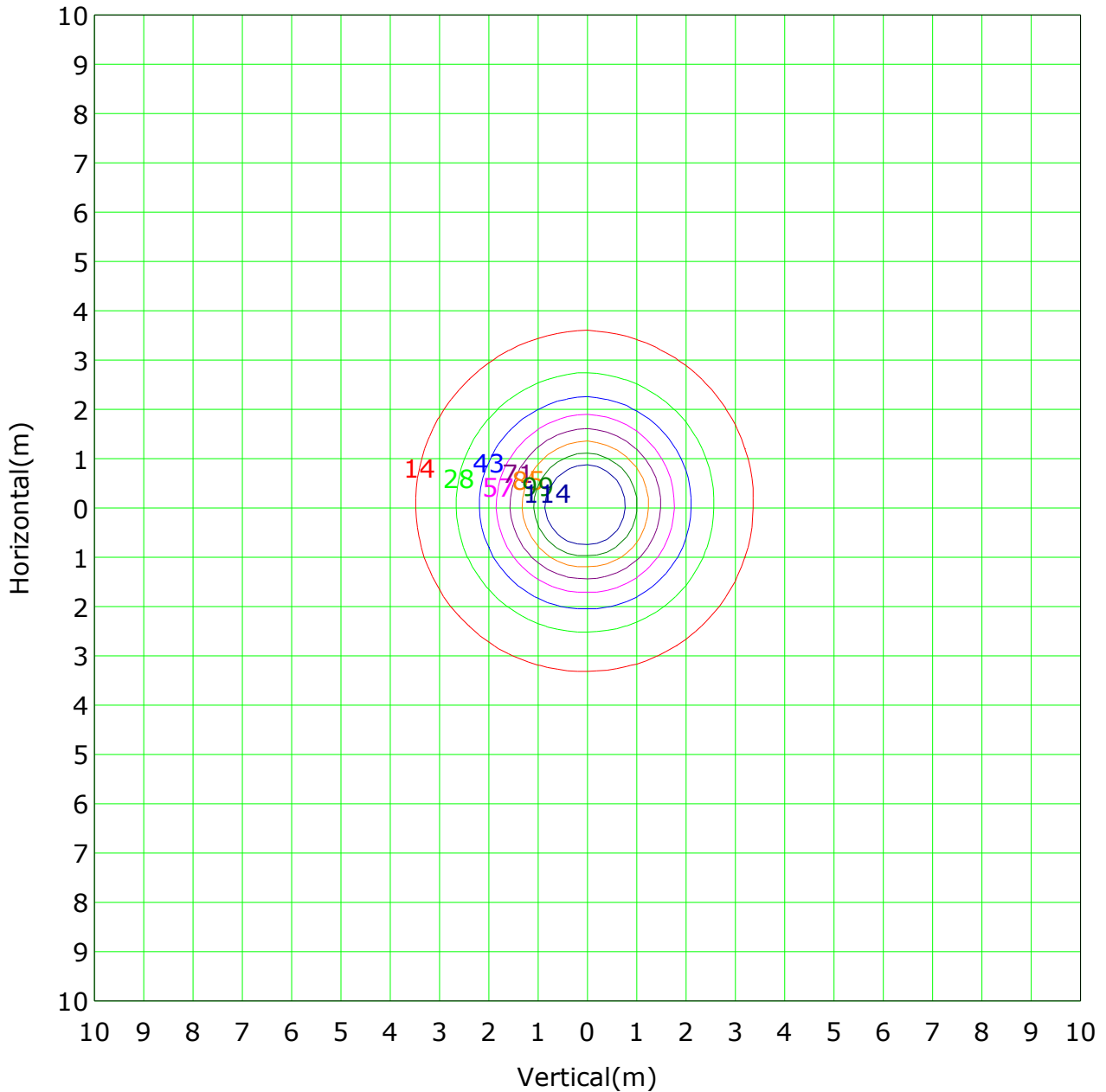
Imax (100%): 890 cd

— (10%): 89 cd	— (16%): 142 cd
— (25%): 222 cd	— (40%): 356 cd
— (63%): 561 cd	— (100%): 890 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%): 142.0 lx	
— (10%): 14.2 lx	— (20%): 28.4 lx	— (40%): 56.8 lx	— (80%): 113.6 lx
— (30%): 42.6 lx	— (50%): 71.0 lx	— (60%): 85.2 lx	
— (50%): 71.0 lx	— (70%): 99.4 lx		

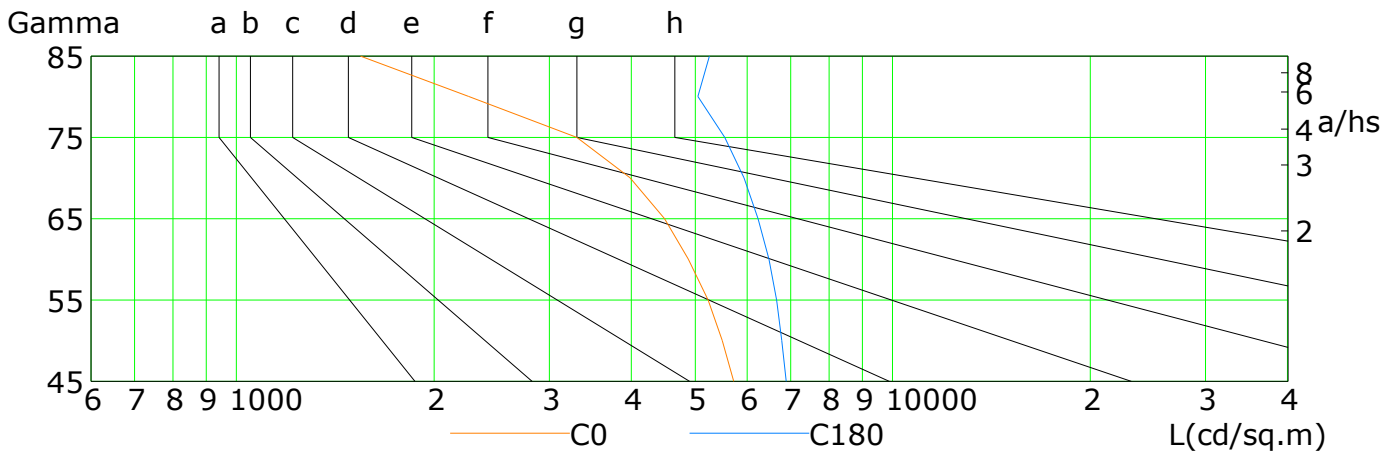
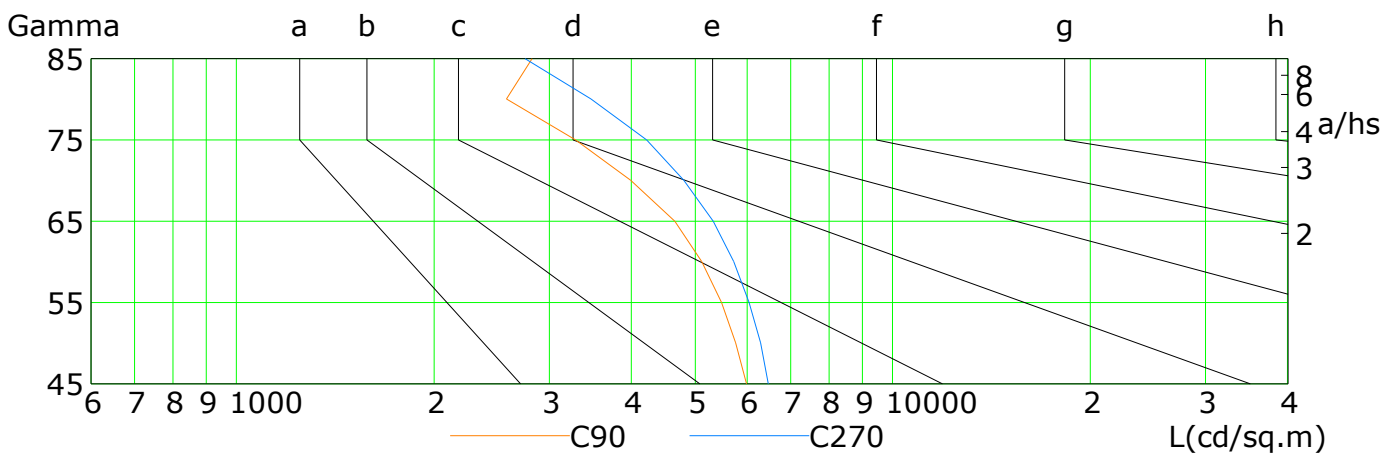
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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

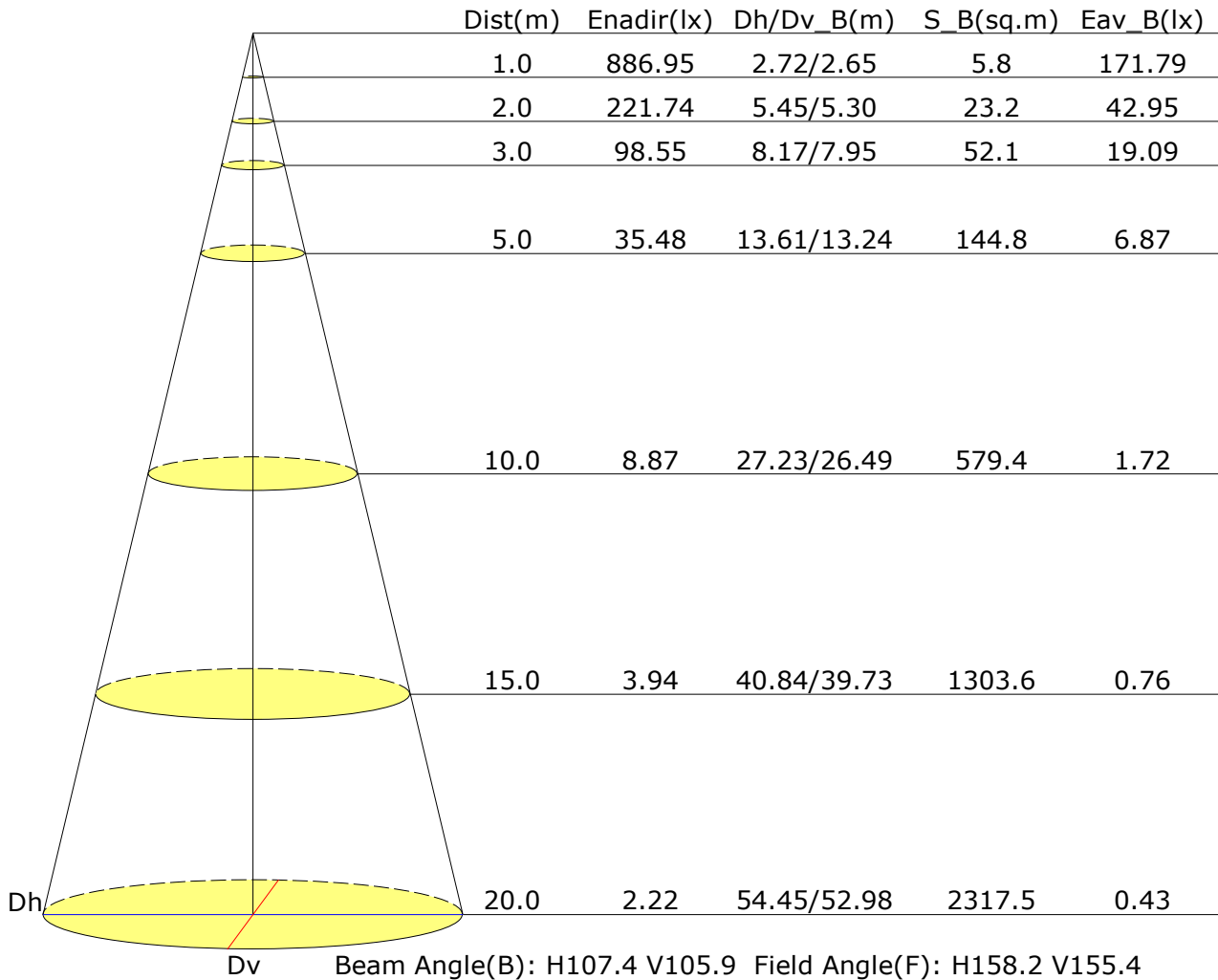


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5726	5497	5235	4879	4489	3976	3305	2262	1545
C90	5986	5761	5487	5122	4662	3985	3289	2578	2825
C180	6881	6779	6658	6472	6236	5936	5543	5052	5255
C270	6468	6287	6045	5723	5324	4806	4224	3468	2751

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

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

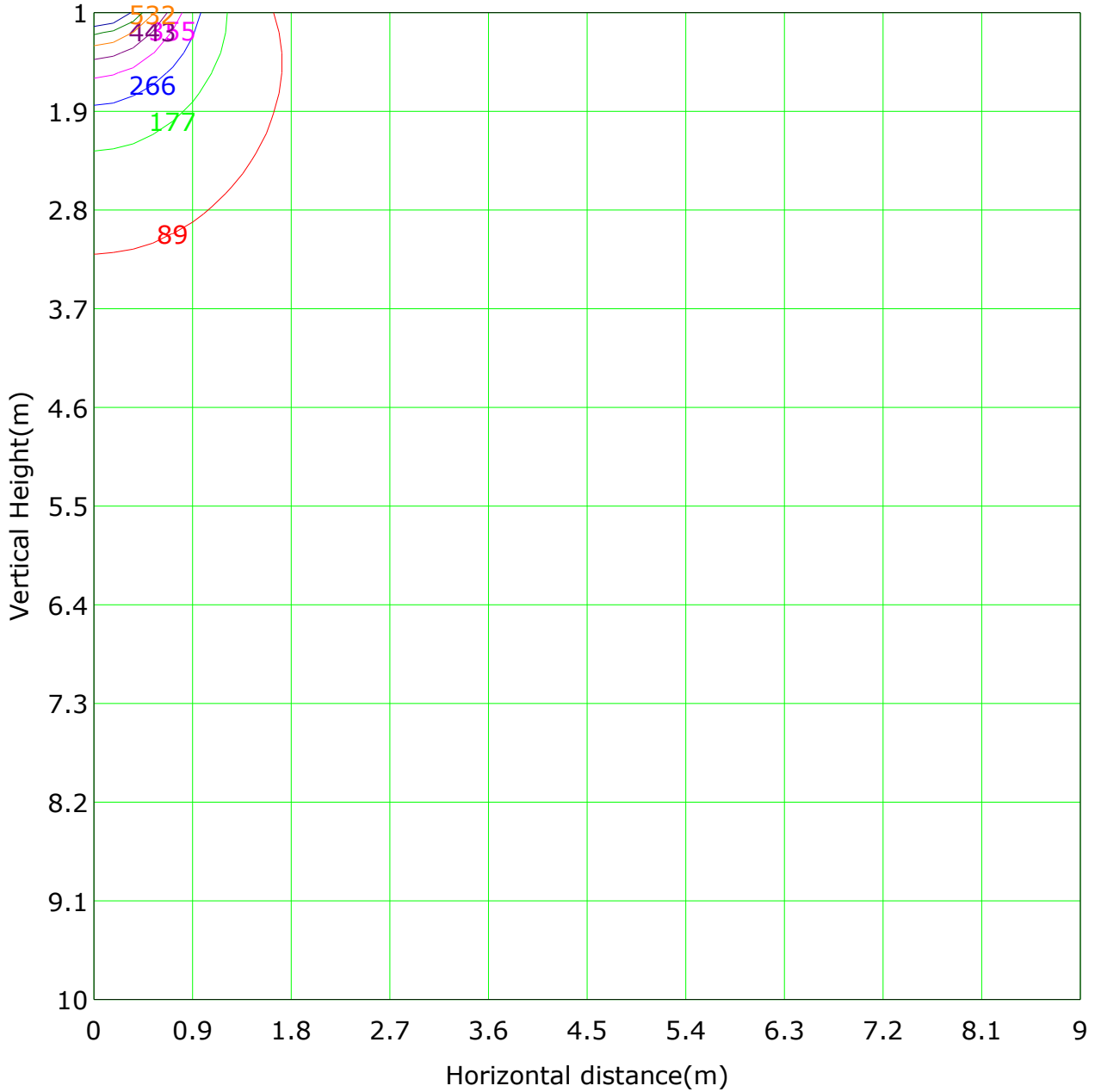
Illuminance at a Distance



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:

Vertical IsoLux Plot

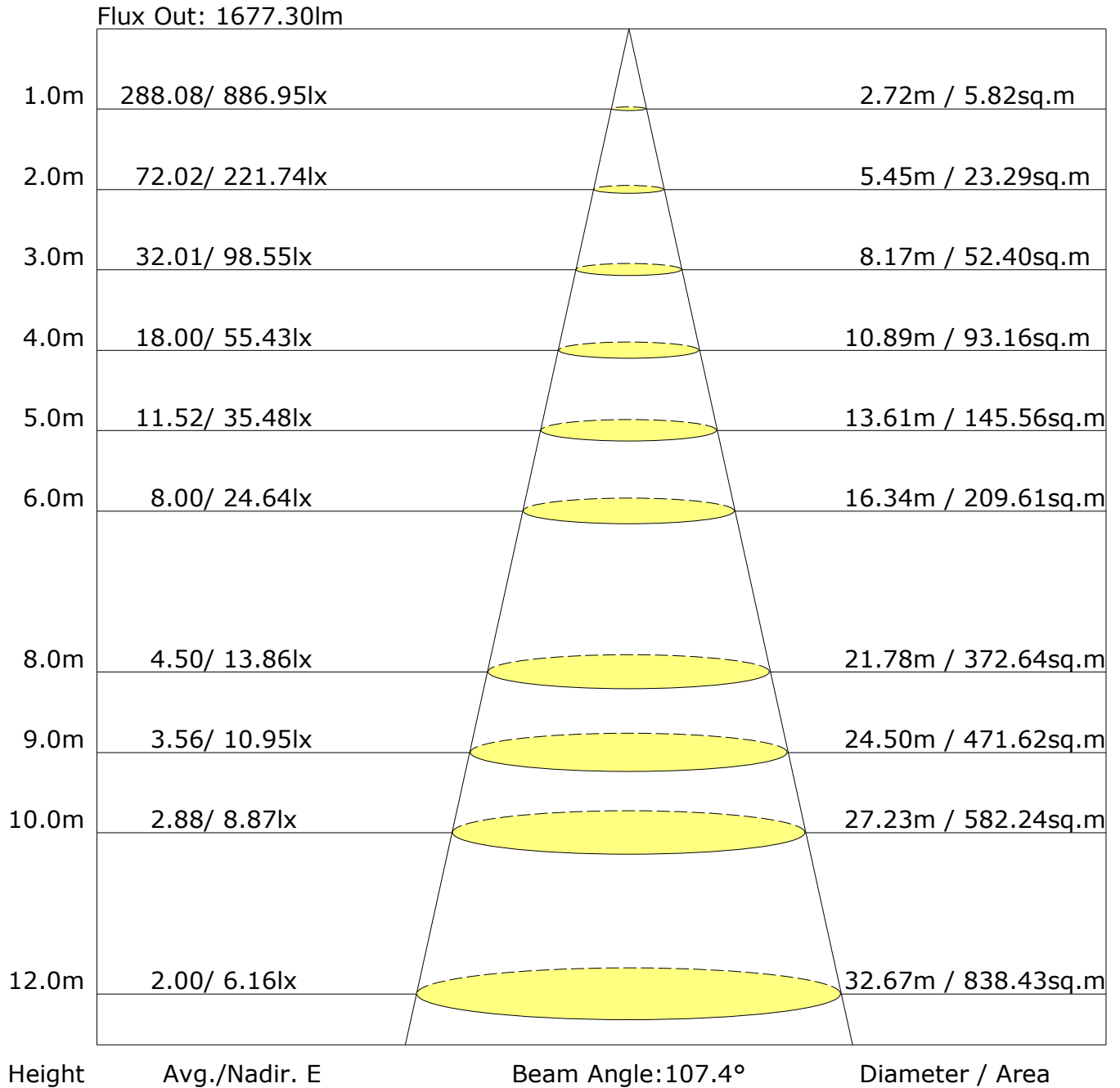


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 887.0 lx
— (10%): 88.7 lx	— (20%): 177.4 lx	
— (30%): 266.1 lx	— (40%): 354.8 lx	
— (50%): 443.5 lx	— (60%): 532.2 lx	
— (70%): 620.9 lx	— (80%): 709.6 lx	

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
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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:

The Average Illuminance Effective Figure



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:

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	18.0	19.3	18.3	19.6	19.9	18.4	19.7	18.7	20.0	20.3
3H	19.2	20.5	19.6	20.7	21.0	19.7	20.9	20.0	21.2	21.5
4H	19.6	20.8	20.0	21.1	21.4	20.1	21.3	20.5	21.6	21.9
6H	19.8	20.9	20.2	21.3	21.6	20.4	21.5	20.8	21.8	22.2
8H	19.9	20.9	20.3	21.2	21.6	20.5	21.5	20.9	21.9	22.2
12H	19.9	20.9	20.3	21.2	21.6	20.5	21.5	20.9	21.9	22.2
X=4H Y=2H	18.6	19.8	19.0	20.1	20.4	18.9	20.1	19.3	20.4	20.7
3H	20.0	21.0	20.4	21.4	21.7	20.4	21.4	20.8	21.7	22.1
4H	20.5	21.4	21.0	21.8	22.2	21.0	21.8	21.4	22.2	22.6
6H	20.8	21.6	21.3	22.0	22.4	21.3	22.1	21.8	22.5	22.9
8H	20.9	21.6	21.3	22.0	22.5	21.4	22.2	21.9	22.6	23.0
12H	20.9	21.6	21.4	22.0	22.5	21.5	22.2	22.0	22.6	23.1
X=8H Y=4H	20.8	21.5	21.2	21.9	22.3	21.1	21.9	21.6	22.3	22.7
6H	21.1	21.7	21.6	22.2	22.7	21.6	22.2	22.1	22.6	23.1
8H	21.2	21.7	21.7	22.2	22.7	21.8	22.3	22.3	22.8	23.3
12H	21.3	21.7	21.8	22.2	22.8	21.9	22.4	22.4	22.9	23.4
X=12H Y=4H	20.8	21.4	21.2	21.8	22.3	21.1	21.8	21.6	22.2	22.7
6H	21.2	21.7	21.7	22.1	22.7	21.6	22.1	22.1	22.6	23.1
8H	21.3	21.7	21.8	22.2	22.7	21.8	22.3	22.3	22.8	23.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.4/-0.6					+0.3/-0.4				
S=2.0H	+0.6/-1.1					+0.7/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2383lm ($8\log(F/F_0) = 3.0$).

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:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	886.9	0.8	0.8	0.04	0.04
1.0-2.0	886.6	2.5	3.4	0.11	0.14
2.0-3.0	885.7	4.2	7.6	0.18	0.32
3.0-4.0	884.5	5.9	13.6	0.25	0.57
4.0-5.0	883.0	7.6	21.1	0.32	0.89
5.0-6.0	881.1	9.3	30.4	0.39	1.28
6.0-7.0	878.8	10.9	41.3	0.46	1.73
7.0-8.0	876.1	12.5	53.9	0.53	2.26
8.0-9.0	873.3	14.2	68.0	0.59	2.85
9.0-10.0	870.0	15.7	83.8	0.66	3.52
10.0-11.0	866.2	17.3	101.1	0.73	4.24
11.0-12.0	862.0	18.8	119.9	0.79	5.03
12.0-13.0	857.5	20.4	140.3	0.85	5.89
13.0-14.0	852.6	21.8	162.1	0.92	6.80
14.0-15.0	847.2	23.3	185.4	0.98	7.78
15.0-16.0	841.4	24.7	210.0	1.03	8.81
16.0-17.0	835.4	26.0	236.0	1.09	9.91
17.0-18.0	829.4	27.4	263.4	1.15	11.05
18.0-19.0	822.7	28.6	292.0	1.20	12.25
19.0-20.0	815.5	29.9	321.9	1.25	13.51
20.0-21.0	808.4	31.0	352.9	1.30	14.81
21.0-22.0	800.9	32.2	385.1	1.35	16.16
22.0-23.0	792.9	33.3	418.4	1.40	17.56
23.0-24.0	784.9	34.3	452.7	1.44	19.00
24.0-25.0	776.8	35.3	488.0	1.48	20.48
25.0-26.0	768.1	36.3	524.3	1.52	22.00
26.0-27.0	758.9	37.1	561.4	1.56	23.56
27.0-28.0	749.9	38.0	599.4	1.59	25.15
28.0-29.0	740.6	38.8	638.1	1.63	26.78
29.0-30.0	731.1	39.5	677.6	1.66	28.44
30.0-31.0	721.4	40.2	717.8	1.69	30.12
31.0-32.0	711.2	40.7	758.5	1.71	31.83
32.0-33.0	701.0	41.3	799.8	1.73	33.57
33.0-34.0	690.8	41.8	841.6	1.75	35.32
34.0-35.0	680.1	42.2	883.9	1.77	37.09
35.0-36.0	669.1	42.6	926.5	1.79	38.88

C Plane (°):0.0-360.0: 90.0
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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:

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	658.3	42.9	969.4	1.80	40.68
37.0-38.0	647.2	43.2	1012.6	1.81	42.50
38.0-39.0	635.5	43.4	1056.0	1.82	44.32
39.0-40.0	623.8	43.5	1099.5	1.83	46.14
40.0-41.0	612.2	43.6	1143.1	1.83	47.97
41.0-42.0	600.1	43.6	1186.7	1.83	49.80
42.0-43.0	588.1	43.6	1230.3	1.83	51.63
43.0-44.0	576.1	43.5	1273.8	1.82	53.46
44.0-45.0	563.3	43.3	1317.1	1.82	55.27
45.0-46.0	550.6	43.1	1360.2	1.81	57.08
46.0-47.0	537.8	42.8	1402.9	1.80	58.88
47.0-48.0	524.8	42.4	1445.4	1.78	60.66
48.0-49.0	511.6	42.0	1487.4	1.76	62.42
49.0-50.0	498.1	41.5	1528.9	1.74	64.16
50.0-51.0	484.6	41.0	1569.9	1.72	65.88
51.0-52.0	471.1	40.4	1610.4	1.70	67.58
52.0-53.0	457.1	39.8	1650.1	1.67	69.25
53.0-54.0	443.2	39.1	1689.2	1.64	70.89
54.0-55.0	429.2	38.3	1727.5	1.61	72.50
55.0-56.0	414.9	37.5	1765.0	1.57	74.07
56.0-57.0	400.2	36.6	1801.6	1.54	75.61
57.0-58.0	385.6	35.7	1837.3	1.50	77.10
58.0-59.0	370.9	34.7	1871.9	1.46	78.56
59.0-60.0	356.0	33.6	1905.6	1.41	79.97
60.0-61.0	341.6	32.6	1938.2	1.37	81.34
61.0-62.0	327.0	31.5	1969.7	1.32	82.66
62.0-63.0	312.0	30.3	2000.0	1.27	83.93
63.0-64.0	297.2	29.2	2029.2	1.22	85.16
64.0-65.0	282.5	28.0	2057.2	1.17	86.33
65.0-66.0	267.7	26.7	2083.9	1.12	87.45
66.0-67.0	253.0	25.4	2109.3	1.07	88.52
67.0-68.0	238.2	24.1	2133.5	1.01	89.53
68.0-69.0	223.1	22.8	2156.2	0.96	90.49
69.0-70.0	208.1	21.4	2177.6	0.90	91.39
70.0-71.0	193.8	20.0	2197.6	0.84	92.23
71.0-72.0	179.6	18.7	2216.3	0.78	93.01

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 (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	165.7	17.3	2233.6	0.73	93.74
73.0-74.0	152.4	16.0	2249.7	0.67	94.41
74.0-75.0	139.4	14.7	2264.4	0.62	95.03
75.0-76.0	126.7	13.4	2277.9	0.56	95.59
76.0-77.0	114.2	12.2	2290.0	0.51	96.10
77.0-78.0	101.9	10.9	2300.9	0.46	96.56
78.0-79.0	89.7	9.6	2310.6	0.40	96.97
79.0-80.0	78.3	8.4	2319.0	0.35	97.32
80.0-81.0	68.0	7.4	2326.4	0.31	97.63
81.0-82.0	58.6	6.4	2332.7	0.27	97.90
82.0-83.0	50.3	5.5	2338.2	0.23	98.13
83.0-84.0	43.0	4.7	2342.9	0.20	98.32
84.0-85.0	36.7	4.0	2346.9	0.17	98.49
85.0-86.0	31.2	3.4	2350.3	0.14	98.63
86.0-87.0	25.8	2.8	2353.1	0.12	98.75
87.0-88.0	20.3	2.2	2355.4	0.09	98.85
88.0-89.0	14.9	1.6	2357.0	0.07	98.91
89.0-90.0	9.7	1.1	2358.1	0.04	98.96
90.0-91.0	5.6	0.6	2358.7	0.03	98.98
91.0-92.0	3.0	0.3	2359.0	0.01	99.00
92.0-93.0	1.5	0.2	2359.2	0.01	99.00
93.0-94.0	1.2	0.1	2359.3	0.01	99.01
94.0-95.0	1.3	0.1	2359.4	0.01	99.02
95.0-96.0	1.4	0.2	2359.6	0.01	99.02
96.0-97.0	1.5	0.2	2359.8	0.01	99.03
97.0-98.0	1.6	0.2	2359.9	0.01	99.04
98.0-99.0	1.6	0.2	2360.1	0.01	99.04
99.0-100.0	1.7	0.2	2360.3	0.01	99.05
100.0-101.0	1.8	0.2	2360.5	0.01	99.06
101.0-102.0	1.9	0.2	2360.7	0.01	99.07
102.0-103.0	2.0	0.2	2360.9	0.01	99.08
103.0-104.0	2.1	0.2	2361.1	0.01	99.09
104.0-105.0	2.1	0.2	2361.3	0.01	99.10
105.0-106.0	2.2	0.2	2361.6	0.01	99.11
106.0-107.0	2.3	0.2	2361.8	0.01	99.12
107.0-108.0	2.4	0.3	2362.1	0.01	99.13

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	2.5	0.3	2362.3	0.01	99.14
109.0-110.0	2.6	0.3	2362.6	0.01	99.15
110.0-111.0	2.7	0.3	2362.9	0.01	99.16
111.0-112.0	2.8	0.3	2363.2	0.01	99.17
112.0-113.0	2.9	0.3	2363.5	0.01	99.18
113.0-114.0	3.0	0.3	2363.8	0.01	99.20
114.0-115.0	3.1	0.3	2364.1	0.01	99.21
115.0-116.0	3.2	0.3	2364.4	0.01	99.22
116.0-117.0	3.3	0.3	2364.7	0.01	99.24
117.0-118.0	3.4	0.3	2365.0	0.01	99.25
118.0-119.0	3.6	0.3	2365.4	0.01	99.27
119.0-120.0	3.7	0.4	2365.7	0.01	99.28
120.0-121.0	3.7	0.4	2366.1	0.01	99.30
121.0-122.0	3.8	0.4	2366.5	0.02	99.31
122.0-123.0	3.9	0.4	2366.8	0.02	99.33
123.0-124.0	4.0	0.4	2367.2	0.02	99.34
124.0-125.0	4.1	0.4	2367.6	0.02	99.36
125.0-126.0	4.3	0.4	2367.9	0.02	99.37
126.0-127.0	4.3	0.4	2368.3	0.02	99.39
127.0-128.0	4.4	0.4	2368.7	0.02	99.41
128.0-129.0	4.5	0.4	2369.1	0.02	99.42
129.0-130.0	4.7	0.4	2369.5	0.02	99.44
130.0-131.0	4.8	0.4	2369.9	0.02	99.45
131.0-132.0	4.8	0.4	2370.3	0.02	99.47
132.0-133.0	4.9	0.4	2370.7	0.02	99.49
133.0-134.0	5.0	0.4	2371.1	0.02	99.51
134.0-135.0	5.1	0.4	2371.5	0.02	99.52
135.0-136.0	5.1	0.4	2371.9	0.02	99.54
136.0-137.0	5.3	0.4	2372.3	0.02	99.56
137.0-138.0	5.4	0.4	2372.7	0.02	99.57
138.0-139.0	5.4	0.4	2373.1	0.02	99.59
139.0-140.0	5.5	0.4	2373.5	0.02	99.60
140.0-141.0	5.6	0.4	2373.8	0.02	99.62
141.0-142.0	5.6	0.4	2374.2	0.02	99.64
142.0-143.0	5.7	0.4	2374.6	0.02	99.65
143.0-144.0	5.8	0.4	2375.0	0.02	99.67

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	5.9	0.4	2375.4	0.02	99.68
145.0-146.0	5.9	0.4	2375.7	0.02	99.70
146.0-147.0	6.0	0.4	2376.1	0.02	99.72
147.0-148.0	6.1	0.4	2376.4	0.02	99.73
148.0-149.0	6.2	0.4	2376.8	0.01	99.74
149.0-150.0	6.2	0.3	2377.1	0.01	99.76
150.0-151.0	6.2	0.3	2377.5	0.01	99.77
151.0-152.0	6.3	0.3	2377.8	0.01	99.79
152.0-153.0	6.4	0.3	2378.1	0.01	99.80
153.0-154.0	6.5	0.3	2378.5	0.01	99.81
154.0-155.0	6.5	0.3	2378.8	0.01	99.83
155.0-156.0	6.6	0.3	2379.1	0.01	99.84
156.0-157.0	6.6	0.3	2379.4	0.01	99.85
157.0-158.0	6.7	0.3	2379.6	0.01	99.86
158.0-159.0	6.8	0.3	2379.9	0.01	99.88
159.0-160.0	6.8	0.3	2380.2	0.01	99.89
160.0-161.0	6.9	0.3	2380.4	0.01	99.90
161.0-162.0	6.9	0.2	2380.7	0.01	99.91
162.0-163.0	7.0	0.2	2380.9	0.01	99.92
163.0-164.0	7.1	0.2	2381.1	0.01	99.93
164.0-165.0	7.1	0.2	2381.3	0.01	99.93
165.0-166.0	7.1	0.2	2381.5	0.01	99.94
166.0-167.0	7.1	0.2	2381.7	0.01	99.95
167.0-168.0	7.2	0.2	2381.9	0.01	99.96
168.0-169.0	7.2	0.2	2382.0	0.01	99.96
169.0-170.0	7.3	0.1	2382.2	0.01	99.97
170.0-171.0	7.3	0.1	2382.3	0.01	99.98
171.0-172.0	7.3	0.1	2382.4	0.00	99.98
172.0-173.0	7.4	0.1	2382.5	0.00	99.99
173.0-174.0	7.4	0.1	2382.6	0.00	99.99
174.0-175.0	7.5	0.1	2382.7	0.00	99.99
175.0-176.0	7.6	0.1	2382.8	0.00	100.00
176.0-177.0	7.6	0.1	2382.8	0.00	100.00
177.0-178.0	7.6	0.0	2382.9	0.00	100.00
178.0-179.0	7.7	0.0	2382.9	0.00	100.00
179.0-180.0	7.7	0.0	2382.9	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°): 1317.10 lm

%lum = 55.3%

%lamp = 55.3%

cone flux(120°): 1905.57 lm

%lum = 80.0%

%lamp = 80.0%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	887.0	887.0	887.0	887.0	887.0					
G1.0	885.4	885.7	888.0	888.2	885.4					
G2.0	884.3	883.4	888.9	888.6	884.3					
G3.0	881.2	881.0	888.5	889.9	881.2					
G4.0	879.0	878.5	888.7	889.4	879.0					
G5.0	875.7	875.1	887.8	889.4	875.7					
G6.0	872.2	872.6	886.7	889.0	872.2					
G7.0	868.3	869.4	884.8	887.3	868.3					
G8.0	865.0	865.0	883.8	885.5	865.0					
G9.0	860.2	860.9	882.2	884.3	860.2					
G10.0	854.6	856.0	880.5	881.4	854.6					
G11.0	849.0	850.7	877.9	879.2	849.0					
G12.0	842.8	845.6	875.3	875.8	842.8					
G13.0	836.5	840.1	872.1	871.8	836.5					
G14.0	829.1	835.0	867.9	868.2	829.1					
G15.0	821.8	828.4	864.1	863.2	821.8					
G16.0	814.3	822.0	859.6	857.7	814.3					
G17.0	806.8	815.8	855.1	852.1	806.8					
G18.0	799.0	809.6	850.8	846.3	799.0					
G19.0	790.1	801.6	844.9	839.5	790.1					
G20.0	781.5	794.4	839.5	832.9	781.5					
G21.0	772.6	786.9	833.4	826.3	772.6					
G22.0	763.0	779.1	827.6	818.1	763.0					
G23.0	753.6	771.0	820.6	810.5	753.6					
G24.0	744.1	762.4	814.5	802.9	744.1					
G25.0	734.1	753.8	807.7	795.0	734.1					
G26.0	723.2	745.1	799.9	785.7	723.2					
G27.0	713.0	735.2	792.3	777.0	713.0					
G28.0	702.8	726.1	784.7	768.1	702.8					
G29.0	691.7	716.5	776.5	758.4	691.7					
G30.0	681.5	706.9	768.3	748.9	681.5					
G31.0	670.9	696.9	759.8	738.1	670.9					
G32.0	659.3	685.9	750.5	728.2	659.3					
G33.0	648.3	675.6	741.7	718.2	648.3					
G34.0	637.7	665.3	731.8	707.9	637.7					
G35.0	626.1	653.4	722.9	696.1	626.1					
G36.0	614.9	642.2	712.0	685.2	614.9					

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	603.8	631.2	702.5	674.5	603.8					
G38.0	592.6	619.0	691.6	662.8	592.6					
G39.0	579.5	607.3	681.3	650.2	579.5					
G40.0	568.4	595.7	669.7	638.7	568.4					
G41.0	557.1	583.5	658.6	625.6	557.1					
G42.0	545.1	570.1	647.1	613.7	545.1					
G43.0	533.6	557.8	636.2	601.5	533.6					
G44.0	520.6	545.6	624.4	588.7	520.6					
G45.0	508.8	531.9	611.4	574.7	508.8					
G46.0	496.5	519.4	599.5	562.1	496.5					
G47.0	483.2	506.4	586.4	549.0	483.2					
G48.0	470.8	492.9	573.6	535.8	470.8					
G49.0	458.2	478.5	561.5	521.6	458.2					
G50.0	444.0	465.3	547.5	507.9	444.0					
G51.0	431.4	451.8	534.6	494.6	431.4					
G52.0	418.3	437.8	521.3	479.1	418.3					
G53.0	405.2	423.3	506.8	465.3	405.2					
G54.0	390.8	409.5	493.3	451.1	390.8					
G55.0	377.4	395.5	479.9	435.7	377.4					
G56.0	363.9	380.2	464.9	421.5	363.9					
G57.0	348.8	366.1	450.6	405.4	348.8					
G58.0	335.2	351.7	436.4	390.6	335.2					
G59.0	321.6	336.2	421.0	374.5	321.6					
G60.0	306.6	321.9	406.7	359.6	306.6					
G61.0	293.2	307.4	392.5	345.1	293.2					
G62.0	279.5	292.8	376.5	329.1	279.5					
G63.0	264.9	276.8	362.1	314.1	264.9					
G64.0	251.5	262.2	347.3	299.0	251.5					
G65.0	238.4	247.6	331.2	282.7	238.4					
G66.0	225.4	232.8	316.2	267.6	225.4					
G67.0	211.1	216.8	301.5	252.7	211.1					
G68.0	198.2	202.2	285.2	237.7	198.2					
G69.0	183.8	185.7	270.3	221.5	183.8					
G70.0	170.9	171.3	255.1	206.6	170.9					
G71.0	157.9	157.8	238.6	192.3	157.9					
G72.0	143.8	143.9	224.0	178.3	143.8					
G73.0	131.4	131.6	209.6	163.4	131.4					

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:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	119.2	119.7	194.0	150.4	119.2					
G75.0	107.5	107.0	180.3	137.4	107.5					
G76.0	94.7	95.5	166.6	124.6	94.7					
G77.0	83.5	84.4	153.4	111.1	83.5					
G78.0	71.8	74.0	138.4	98.8	71.8					
G79.0	59.7	64.1	124.1	87.0	59.7					
G80.0	49.4	56.3	110.2	75.7	49.4					
G81.0	40.3	50.3	97.0	64.6	40.3					
G82.0	32.7	45.3	85.2	53.7	32.7					
G83.0	26.1	40.9	74.3	44.6	26.1					
G84.0	21.0	35.8	64.8	36.8	21.0					
G85.0	16.9	30.9	57.6	30.1	16.9					
G86.0	12.9	26.0	50.3	24.5	12.9					
G87.0	8.6	20.8	43.0	20.1	8.6					
G88.0	3.5	15.4	35.8	15.1	3.5					
G89.0	1.2	9.7	28.0	10.2	1.2					
G90.0	1.2	2.1	20.8	4.5	1.2					
G91.0	1.3	1.2	13.0	0.9	1.3					
G92.0	1.4	1.2	4.0	0.9	1.4					
G93.0	1.5	1.3	0.9	1.0	1.5					
G94.0	1.6	1.4	1.0	1.1	1.6					
G95.0	1.7	1.5	1.1	1.1	1.7					
G96.0	1.8	1.6	1.2	1.2	1.8					
G97.0	1.9	1.7	1.2	1.3	1.9					
G98.0	2.0	1.7	1.3	1.4	2.0					
G99.0	2.0	1.8	1.4	1.5	2.0					
G100.0	2.2	1.9	1.4	1.5	2.2					
G101.0	2.2	2.0	1.5	1.6	2.2					
G102.0	2.3	2.1	1.6	1.7	2.3					
G103.0	2.4	2.2	1.6	1.8	2.4					
G104.0	2.5	2.3	1.7	1.9	2.5					
G105.0	2.6	2.4	1.8	1.8	2.6					
G106.0	2.7	2.4	1.9	2.0	2.7					
G107.0	2.8	2.6	2.0	2.1	2.8					
G108.0	2.9	2.7	2.1	2.2	2.9					
G109.0	3.0	2.8	2.2	2.3	3.0					
G110.0	3.1	2.9	2.3	2.4	3.1					

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	3.2	2.9	2.4	2.5	3.2					
G112.0	3.3	3.1	2.5	2.5	3.3					
G113.0	3.4	3.2	2.5	2.6	3.4					
G114.0	3.5	3.3	2.6	2.8	3.5					
G115.0	3.6	3.4	2.7	2.9	3.6					
G116.0	3.7	3.5	2.8	2.9	3.7					
G117.0	3.8	3.6	3.0	3.1	3.8					
G118.0	3.9	3.7	3.3	3.1	3.9					
G119.0	4.0	3.8	3.8	3.2	4.0					
G120.0	4.1	3.9	3.3	3.4	4.1					
G121.0	4.2	4.0	3.5	3.5	4.2					
G122.0	4.3	4.1	3.6	3.6	4.3					
G123.0	4.4	4.2	3.6	3.7	4.4					
G124.0	4.5	4.3	3.7	3.8	4.5					
G125.0	4.7	4.4	3.8	3.9	4.7					
G126.0	4.8	4.5	3.9	4.0	4.8					
G127.0	4.9	4.6	3.9	4.0	4.9					
G128.0	5.0	4.7	4.1	4.1	5.0					
G129.0	5.1	4.8	4.2	4.2	5.1					
G130.0	5.2	4.9	4.3	4.8	5.2					
G131.0	5.3	5.0	4.4	4.4	5.3					
G132.0	5.4	5.1	4.5	4.5	5.4					
G133.0	5.4	5.1	4.5	5.0	5.4					
G134.0	5.5	5.2	4.6	4.8	5.5					
G135.0	5.7	5.3	4.7	4.7	5.7					
G136.0	5.7	5.4	4.8	4.8	5.7					
G137.0	5.8	5.5	4.9	5.3	5.8					
G138.0	5.9	5.6	5.0	5.0	5.9					
G139.0	5.9	5.6	5.1	5.0	5.9					
G140.0	5.9	5.7	5.2	5.1	5.9					
G141.0	6.1	5.8	5.3	5.2	6.1					
G142.0	6.2	5.9	5.3	5.3	6.2					
G143.0	6.2	6.0	5.3	5.3	6.2					
G144.0	6.3	6.0	5.5	5.4	6.3					
G145.0	6.4	6.1	5.5	5.5	6.4					
G146.0	6.4	6.1	5.6	5.6	6.4					
G147.0	6.5	6.2	5.7	5.7	6.5					

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	6.5	6.3	6.0	5.8	6.5					
G149.0	6.5	6.3	6.2	5.8	6.5					
G150.0	6.6	6.4	6.0	5.9	6.6					
G151.0	6.6	6.4	6.0	6.0	6.6					
G152.0	6.7	6.5	6.1	6.1	6.7					
G153.0	6.8	6.5	6.2	6.2	6.8					
G154.0	6.8	6.6	6.3	6.2	6.8					
G155.0	6.8	6.7	6.3	6.3	6.8					
G156.0	6.9	6.7	6.4	6.4	6.9					
G157.0	6.9	6.8	6.4	6.5	6.9					
G158.0	7.0	6.8	6.6	6.6	7.0					
G159.0	7.0	6.9	6.6	6.6	7.0					
G160.0	7.1	6.9	6.8	6.7	7.1					
G161.0	7.1	7.0	7.0	6.7	7.1					
G162.0	7.1	7.0	6.9	6.8	7.1					
G163.0	7.2	7.0	6.9	6.9	7.2					
G164.0	7.2	7.1	7.4	7.0	7.2					
G165.0	7.2	7.1	7.1	7.0	7.2					
G166.0	7.3	7.2	7.1	7.0	7.3					
G167.0	7.2	7.2	7.1	7.1	7.2					
G168.0	7.3	7.2	7.2	7.1	7.3					
G169.0	7.4	7.2	7.3	7.2	7.4					
G170.0	7.4	7.2	7.3	7.2	7.4					
G171.0	7.4	7.3	7.3	7.2	7.4					
G172.0	7.5	7.4	7.4	7.2	7.5					
G173.0	7.5	7.4	7.5	7.3	7.5					
G174.0	7.5	7.3	7.7	7.4	7.5					
G175.0	7.5	7.4	7.7	7.5	7.5					
G176.0	7.6	7.4	7.8	7.6	7.6					
G177.0	7.6	7.5	7.8	7.6	7.6					
G178.0	7.6	7.6	7.8	7.6	7.6					
G179.0	7.7	7.6	7.8	7.6	7.7					
G180.0	7.7	7.6	7.9	7.6	7.7					

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	5362.41
L 0-180(75) av	4423.85
L 0-180(85) av	3400.14
L 90-270(65) av	4993.21
L 90-270(75) av	3756.16
L 90-270(85) av	2787.91
L 45(65) av	5177.81
L 45(75) av	4090.00
L 45(85) av	3094.02

Standard: GB/T 29293-2012