



IDEA

/SHHH (06.78.1123.__)

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Luminaire Description: SHHH X1 LUZ 35°
Lamp Catalog:
Number of Lamps:
Luminous Length (mm): -53
Luminous Height (mm):
Current: 0.063 A
Power Factor: 0.925

Lamp Description:
Lumens per Lamp:
Luminous Width (mm): -53
Voltage: 220.4 V
Power: 12.90 W

Photometric Results

CIE Class: Direct
Measurement Flux: 1012.6 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H31.1
Vertical Diffuse Angle(50%): V31.3
Luminaire Efficacy Rating (LER): 78.55
Max. Intensity: 2331.62 cd
S/MH(C0/C180): 0.52

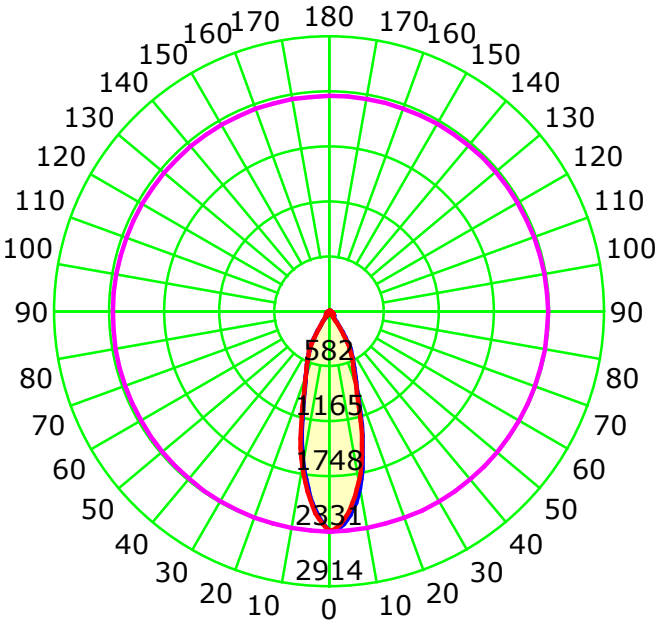
Total Rated Lamp Lumens: 1012.6 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 2320.1 cd
Pos of Max. Intensity: H0 V1
S/MH(C90/C270): 0.52

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 31.2°

C0-C180 C90-C270 G1

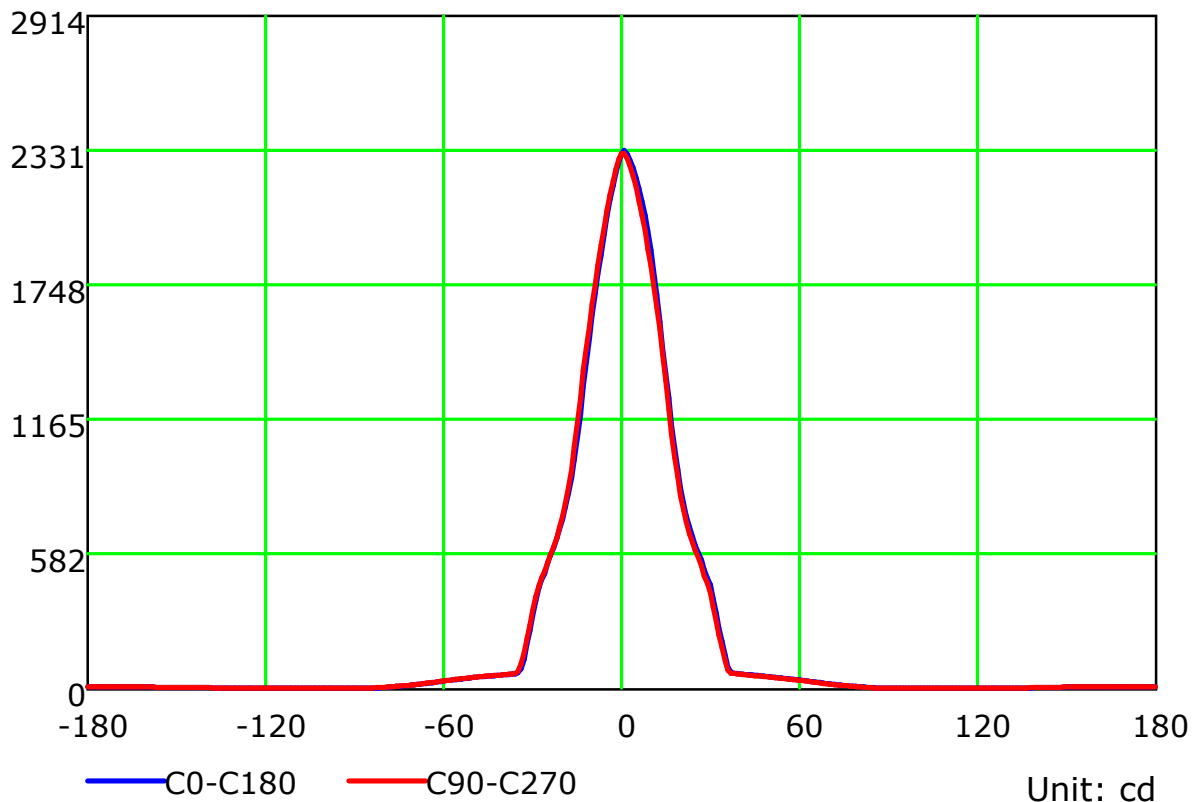
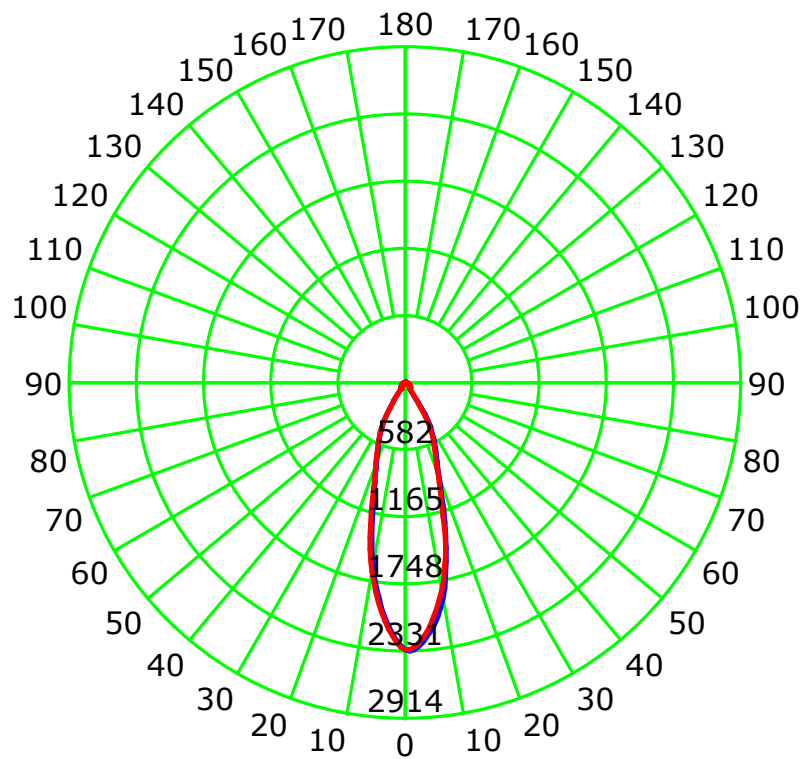
C Plane (°):0.0-360.0: 90.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

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



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C Plane (°):0.0-360.0: 90.0
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Inspector:



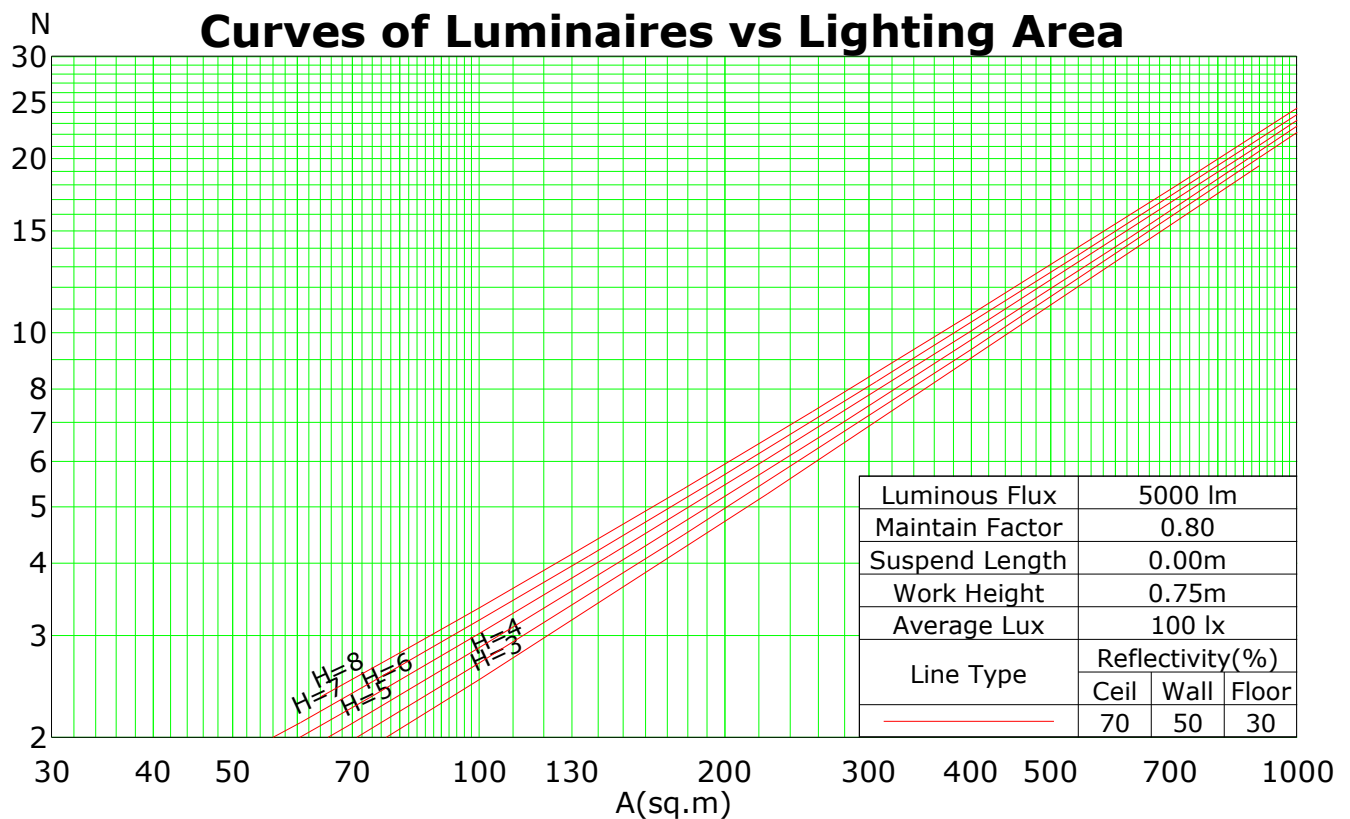
Coefficients Of Utilization - Zonal Cavity Method

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	1.13	1.10	1.08	1.06	1.11	1.08	1.06	1.04	1.04	1.02	1.00	1.00	0.99	0.97	0.96	0.95	0.94	0.92
2	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.94	0.98	0.95	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.86
3	1.03	0.96	0.91	0.88	1.00	0.95	0.90	0.87	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.82	0.81
4	0.98	0.91	0.85	0.81	0.96	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.76
5	0.93	0.86	0.80	0.76	0.92	0.85	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.72
6	0.89	0.81	0.75	0.71	0.88	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.69	0.68
7	0.86	0.77	0.71	0.67	0.84	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.65
8	0.82	0.73	0.68	0.64	0.81	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.62
9	0.79	0.70	0.65	0.61	0.78	0.70	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.59
10	0.76	0.67	0.62	0.58	0.75	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.56

Spacing Criteria (0-180): 0.52

Spacing Criteria (90-270): 0.52

Spacing Criteria (Diagonal): 0.56



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 Temperature: 26
 Operator:

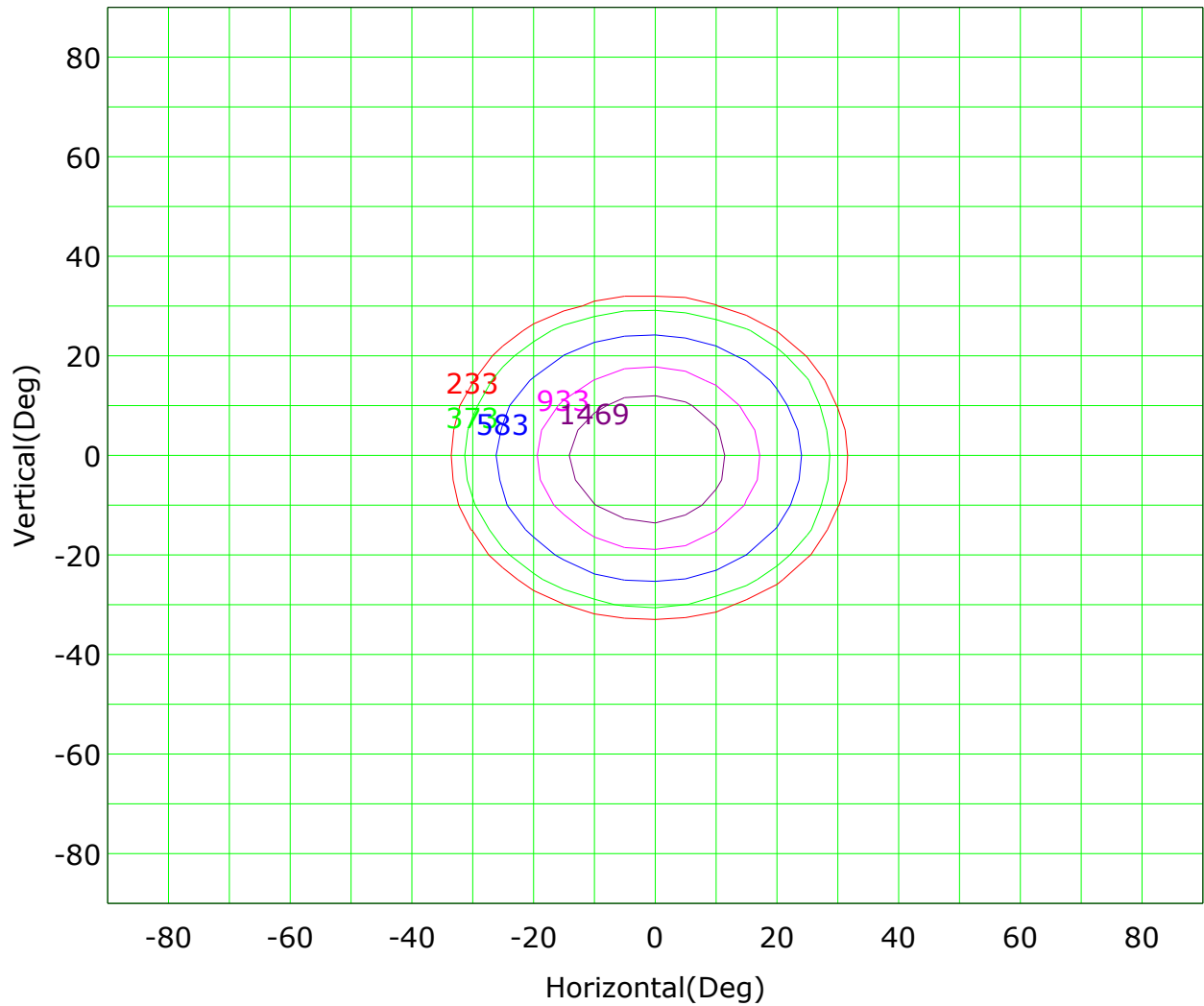
Gamma Plane (°):0.0-180.0:1.0
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Isocandela (rectangle)



Imax (100%): 2332 cd

- | | |
|-----------------|-----------------|
| (10%): 233 cd | (16%): 373 cd |
| (25%): 583 cd | (40%): 933 cd |
| (63%): 1469 cd | (100%): 2332 cd |

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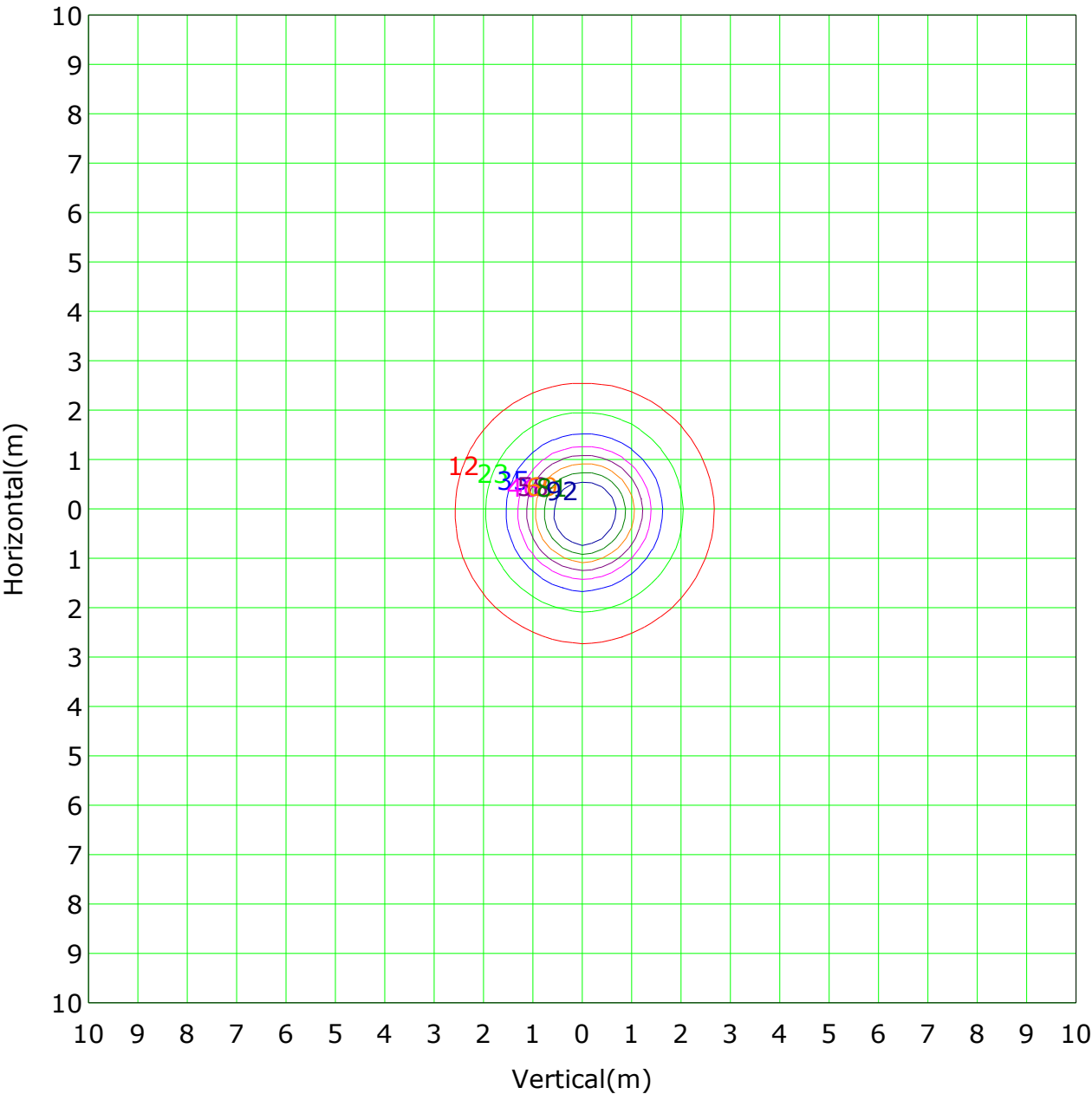
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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Inspector:



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IsoLux Plot



Mounting Height: 4.5m		Max Lux(100%): 115.1 lx	
— (10%):	11.5 lx	— (20%):	23.0 lx
— (30%):	34.5 lx	— (40%):	46.0 lx
— (50%):	57.5 lx	— (60%):	69.1 lx
— (70%):	80.6 lx	— (80%):	92.1 lx

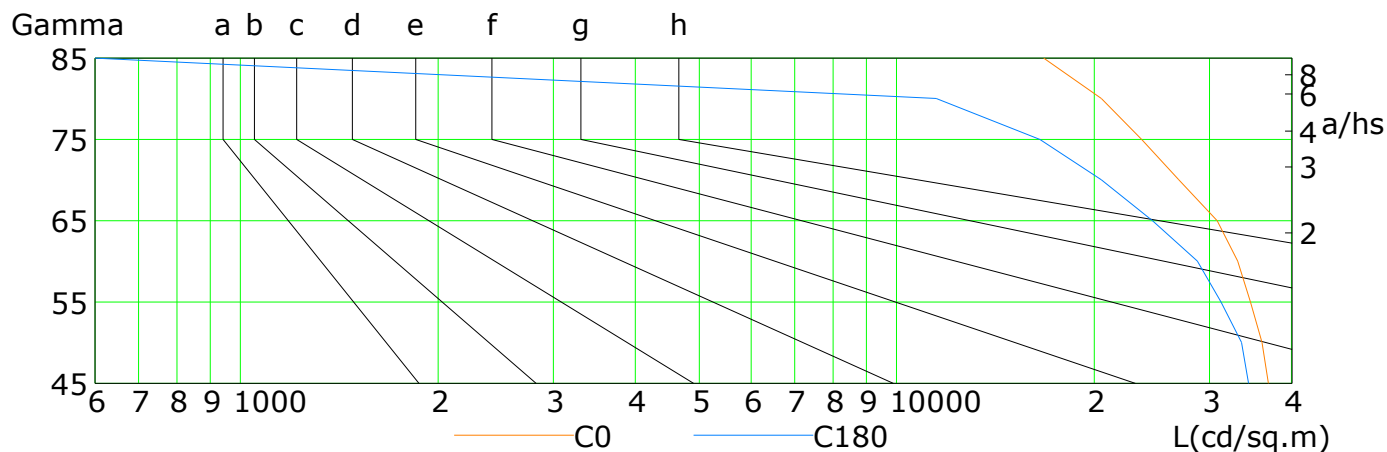
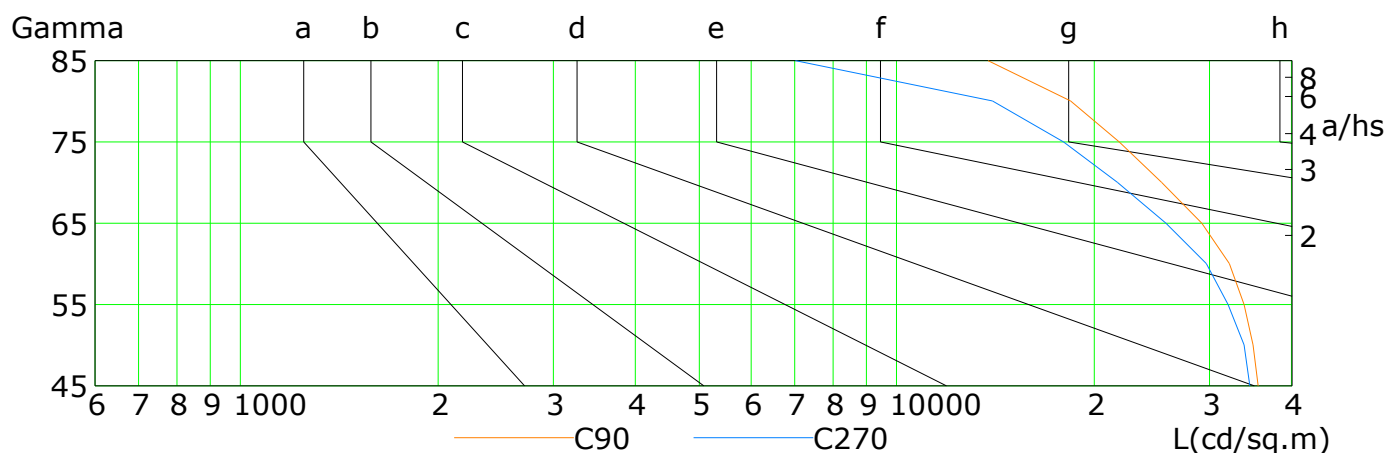
C Plane (°):0.0-360.0: 90.0
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Lum Limit Curve

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



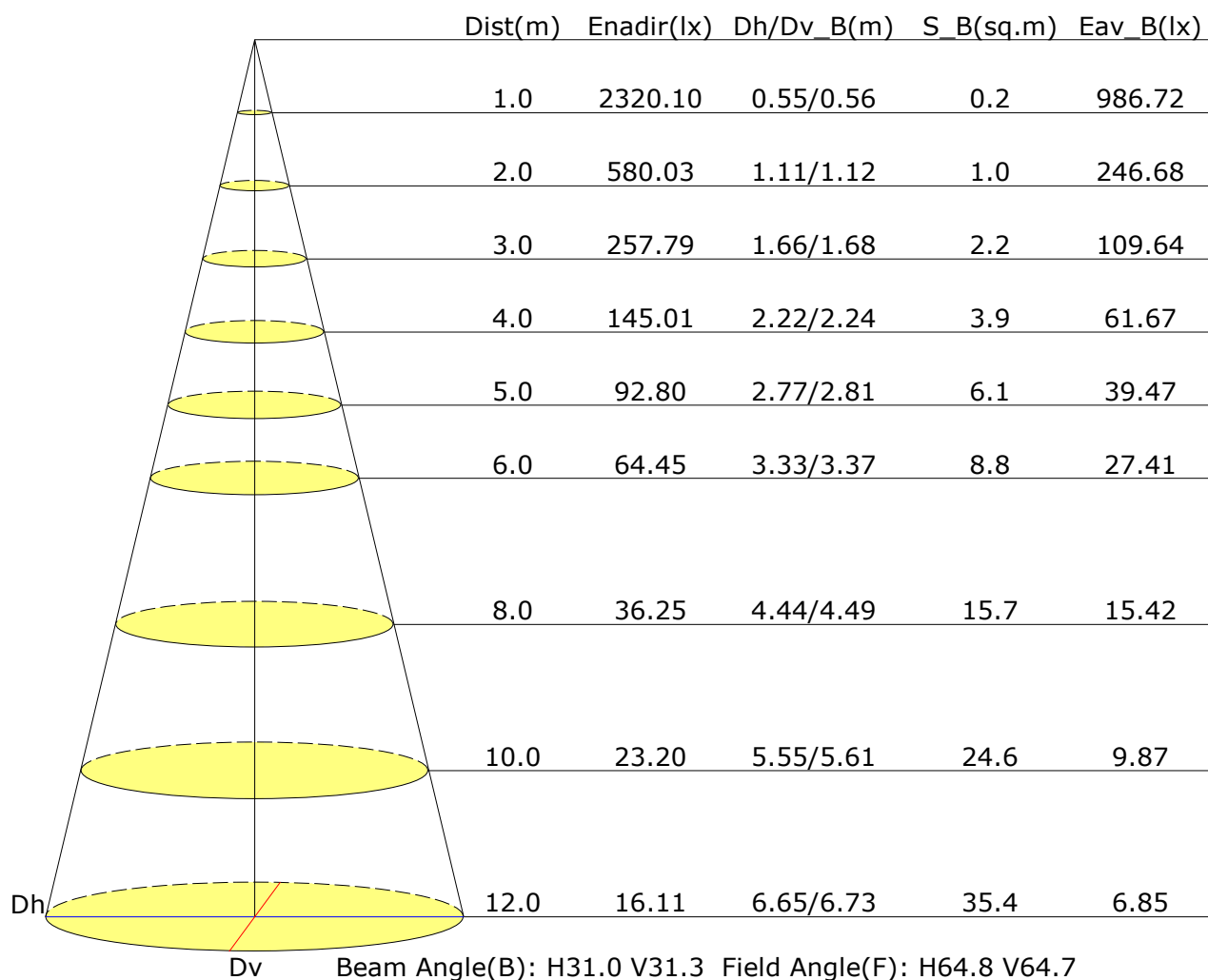
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	36851	35996	34585	33072	30823	26938	23632	20496	16751
C90	35515	34932	33847	32122	29170	25354	21846	18421	13777
C180	34389	33569	31240	28719	24526	20509	16520	11488	0
C270	34503	33861	32014	29667	25718	21684	17977	13983	7016

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 Inspector:



Illuminance at a Distance

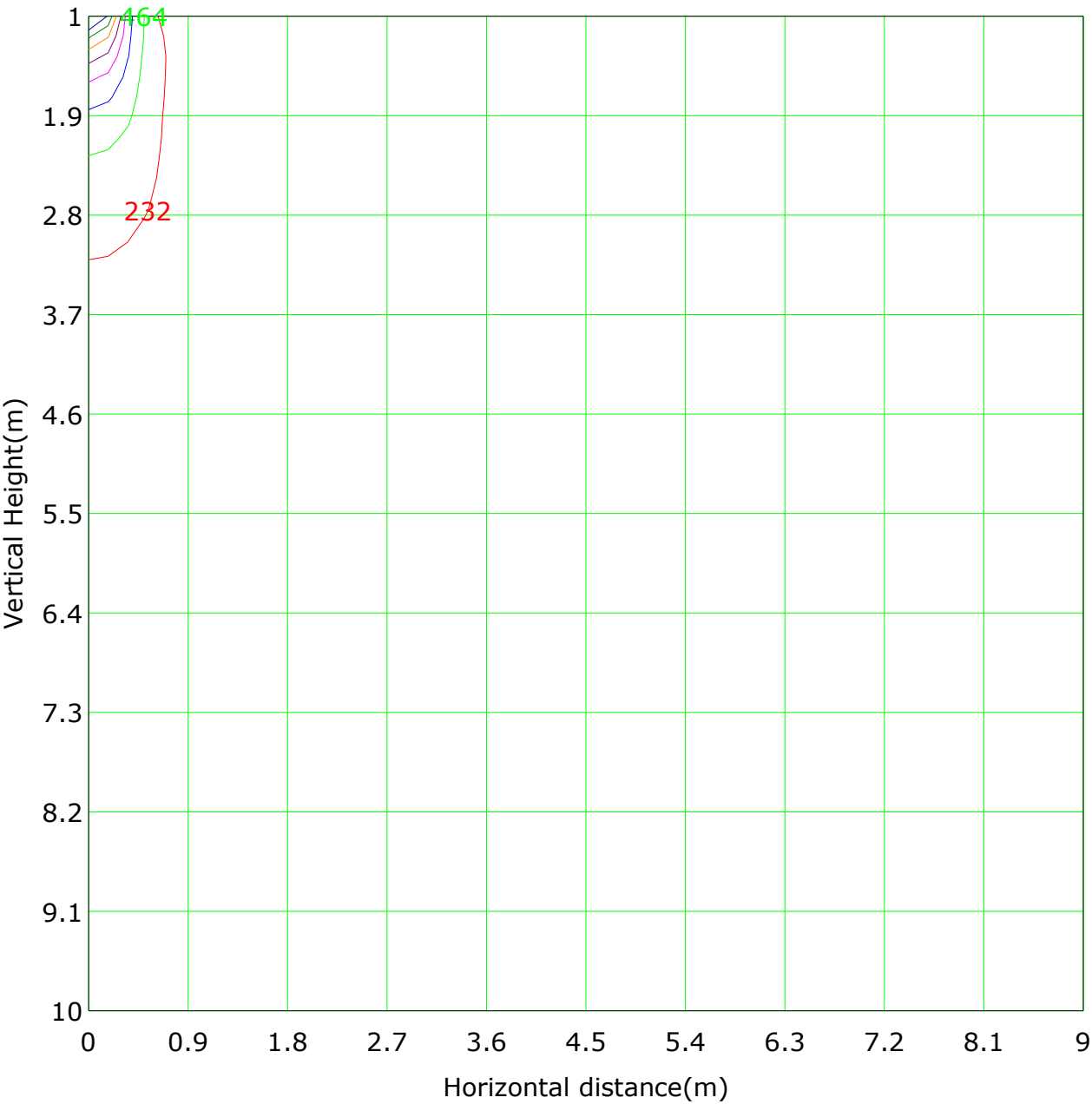


C Plane (°):0.0-360.0: 90.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator:

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



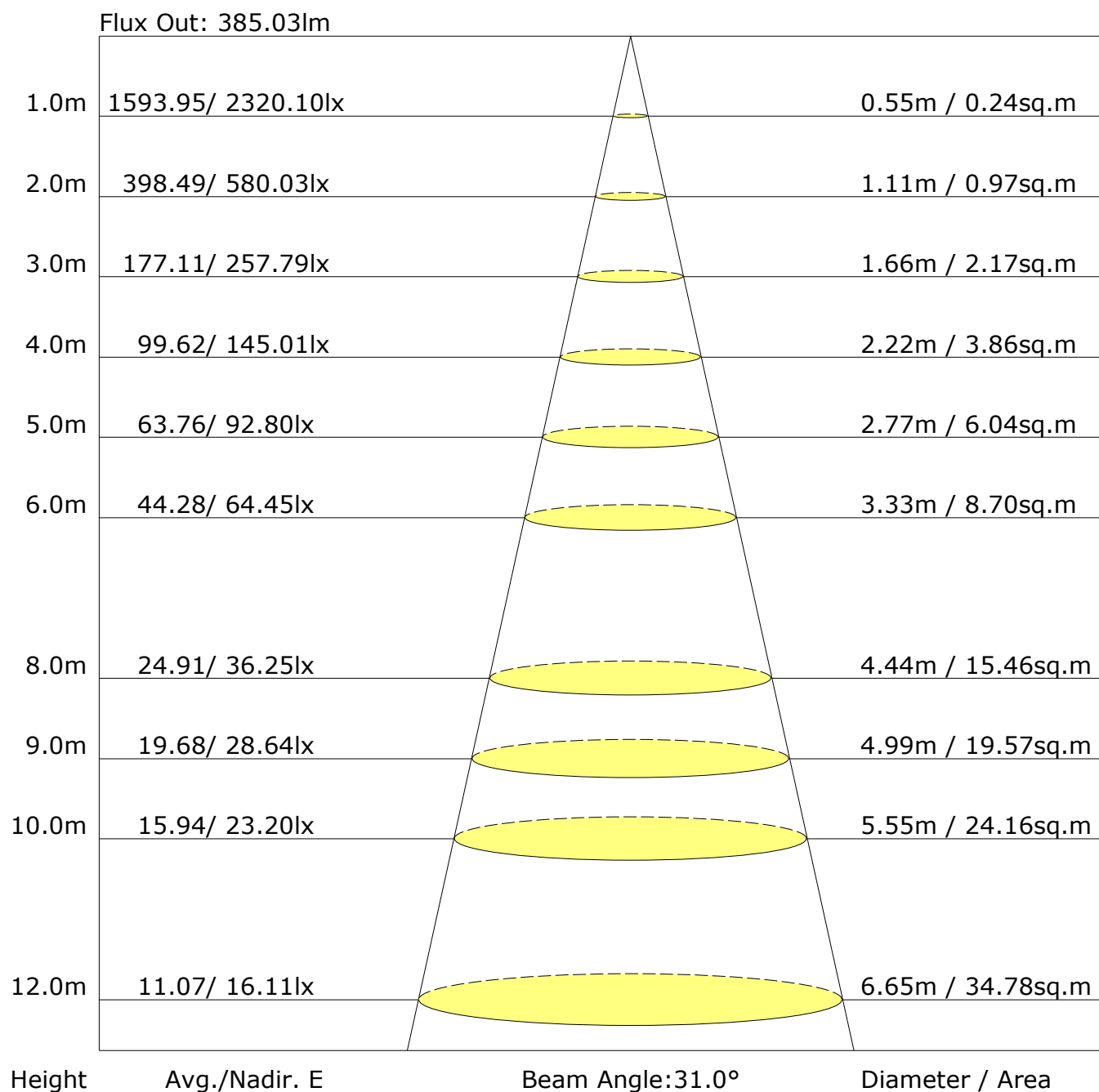
Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 2320.1 lx		
(10%): 232.0 lx	(20%): 464.0 lx	
(30%): 696.0 lx	(40%): 928.0 lx	
(50%):1160.1 lx	(60%):1392.1 lx	
(70%):1624.1 lx	(80%):1856.1 lx	

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Test Type: TYPE C
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Operator:

Gamma Plane (°):0.0-180.0:1.0
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Humidity: 65
Inspector:



The Average Illuminance Effective Figure



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 Test Type: TYPE C
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 Operator:

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 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	21.0	21.8	21.2	22.0	22.2	20.5	21.3	20.7	21.5	21.7
3H	22.0	22.7	22.3	23.0	23.3	21.4	22.2	21.8	22.4	22.7
4H	22.4	23.1	22.7	23.4	23.7	21.8	22.5	22.1	22.8	23.1
6H	22.7	23.3	23.0	23.6	23.9	22.0	22.7	22.4	23.0	23.3
8H	22.7	23.4	23.1	23.7	24.0	22.1	22.7	22.4	23.0	23.3
12H	22.8	23.4	23.2	23.7	24.1	22.1	22.7	22.4	23.0	23.3
X=4H Y=2H	21.4	22.1	21.7	22.4	22.6	21.0	21.7	21.3	21.9	22.2
3H	22.6	23.2	23.0	23.5	23.9	22.1	22.7	22.5	23.1	23.4
4H	23.1	23.6	23.5	24.0	24.4	22.6	23.1	23.0	23.5	23.8
6H	23.4	23.9	23.9	24.3	24.7	22.9	23.3	23.3	23.7	24.1
8H	23.6	24.0	24.0	24.4	24.8	23.0	23.4	23.4	23.8	24.2
12H	23.6	24.0	24.1	24.5	24.9	23.0	23.4	23.4	23.8	24.3
X=8H Y=4H	23.2	23.7	23.7	24.1	24.5	22.7	23.2	23.2	23.6	24.0
6H	23.7	24.0	24.2	24.5	25.0	23.1	23.5	23.6	23.9	24.4
8H	23.9	24.2	24.4	24.6	25.1	23.3	23.6	23.8	24.1	24.6
12H	24.0	24.3	24.5	24.7	25.3	23.4	23.6	23.9	24.1	24.6
X=12H Y=4H	23.2	23.6	23.7	24.0	24.5	22.7	23.1	23.2	23.6	24.0
6H	23.7	24.0	24.2	24.5	25.0	23.2	23.5	23.7	23.9	24.4
8H	23.9	24.2	24.4	24.7	25.2	23.3	23.6	23.8	24.1	24.6
Variations with the observer position at spacings:										
S=1.0H	+1.6/-0.5					+0.9/-0.4				
S=1.5H	+3.1/-0.8					+1.9/-0.8				
S=2.0H	+4.5/-1.4					+2.9/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 1013lm ($8\log(F/F_0) = 0.0$).

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 Distance: 8.684 m [K=1.0000]
 Humidity: 65
 Inspector:



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2313.9	2.2	2.2	0.22	0.22
1.0-2.0	2291.2	6.6	8.8	0.65	0.87
2.0-3.0	2254.7	10.8	19.6	1.07	1.93
3.0-4.0	2209.8	14.8	34.4	1.46	3.39
4.0-5.0	2154.8	18.5	52.9	1.83	5.22
5.0-6.0	2094.0	22.0	74.9	2.17	7.40
6.0-7.0	2026.5	25.2	100.1	2.48	9.88
7.0-8.0	1953.2	28.0	128.0	2.76	12.64
8.0-9.0	1877.6	30.4	158.5	3.01	15.65
9.0-10.0	1796.7	32.5	191.0	3.21	18.86
10.0-11.0	1709.0	34.2	225.1	3.37	22.23
11.0-12.0	1612.9	35.3	260.4	3.48	25.72
12.0-13.0	1509.8	35.8	296.2	3.54	29.25
13.0-14.0	1400.3	35.8	332.1	3.54	32.79
14.0-15.0	1289.3	35.4	367.5	3.50	36.29
15.0-16.0	1180.4	34.6	402.1	3.42	39.71
16.0-17.0	1075.6	33.5	435.6	3.31	43.01
17.0-18.0	982.2	32.4	468.0	3.20	46.21
18.0-19.0	900.5	31.3	499.3	3.09	49.31
19.0-20.0	829.2	30.4	529.7	3.00	52.30
20.0-21.0	768.4	29.5	559.2	2.91	55.22
21.0-22.0	716.9	28.8	588.0	2.85	58.06
22.0-23.0	671.2	28.2	616.1	2.78	60.84
23.0-24.0	630.3	27.6	643.7	2.72	63.57
24.0-25.0	594.9	27.1	670.8	2.67	66.24
25.0-26.0	559.5	26.4	697.2	2.61	68.85
26.0-27.0	524.8	25.7	722.8	2.54	71.38
27.0-28.0	490.3	24.8	747.7	2.45	73.83
28.0-29.0	449.9	23.5	771.2	2.32	76.16
29.0-30.0	402.6	21.7	793.0	2.15	78.31
30.0-31.0	347.3	19.3	812.3	1.91	80.21
31.0-32.0	285.8	16.4	828.7	1.62	81.83
32.0-33.0	224.1	13.2	841.9	1.30	83.14
33.0-34.0	168.1	10.2	852.0	1.00	84.14
34.0-35.0	121.1	7.5	859.6	0.74	84.88
35.0-36.0	87.9	5.6	865.2	0.55	85.44

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 Humidity: 65
 Inspector:



Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	70.7	4.6	869.8	0.46	85.89
37.0-38.0	64.5	4.3	874.1	0.43	86.32
38.0-39.0	62.6	4.3	878.4	0.42	86.74
39.0-40.0	61.3	4.3	882.6	0.42	87.16
40.0-41.0	60.1	4.3	886.9	0.42	87.58
41.0-42.0	58.9	4.3	891.2	0.42	88.01
42.0-43.0	57.8	4.3	895.5	0.42	88.43
43.0-44.0	56.8	4.3	899.8	0.42	88.85
44.0-45.0	55.6	4.3	904.0	0.42	89.28
45.0-46.0	54.5	4.3	908.3	0.42	89.70
46.0-47.0	53.4	4.2	912.5	0.42	90.12
47.0-48.0	52.2	4.2	916.8	0.42	90.53
48.0-49.0	51.0	4.2	921.0	0.41	90.95
49.0-50.0	49.7	4.1	925.1	0.41	91.36
50.0-51.0	48.4	4.1	929.2	0.40	91.76
51.0-52.0	46.9	4.0	933.2	0.40	92.16
52.0-53.0	45.5	4.0	937.2	0.39	92.55
53.0-54.0	44.0	3.9	941.1	0.38	92.93
54.0-55.0	42.4	3.8	944.8	0.37	93.30
55.0-56.0	40.9	3.7	948.5	0.37	93.67
56.0-57.0	39.4	3.6	952.1	0.36	94.03
57.0-58.0	37.9	3.5	955.7	0.35	94.37
58.0-59.0	36.4	3.4	959.1	0.34	94.71
59.0-60.0	34.9	3.3	962.3	0.33	95.03
60.0-61.0	33.3	3.2	965.5	0.31	95.35
61.0-62.0	31.6	3.0	968.6	0.30	95.65
62.0-63.0	30.0	2.9	971.5	0.29	95.94
63.0-64.0	28.2	2.8	974.3	0.27	96.21
64.0-65.0	26.5	2.6	976.9	0.26	96.47
65.0-66.0	24.8	2.5	979.4	0.24	96.71
66.0-67.0	23.1	2.3	981.7	0.23	96.94
67.0-68.0	21.5	2.2	983.9	0.22	97.16
68.0-69.0	20.1	2.0	985.9	0.20	97.36
69.0-70.0	18.6	1.9	987.8	0.19	97.55
70.0-71.0	17.1	1.8	989.6	0.17	97.72
71.0-72.0	15.7	1.6	991.2	0.16	97.89

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 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	14.5	1.5	992.7	0.15	98.04
73.0-74.0	13.2	1.4	994.1	0.14	98.17
74.0-75.0	12.0	1.3	995.4	0.13	98.30
75.0-76.0	10.8	1.2	996.6	0.11	98.41
76.0-77.0	9.7	1.0	997.6	0.10	98.51
77.0-78.0	8.6	0.9	998.5	0.09	98.61
78.0-79.0	7.6	0.8	999.3	0.08	98.69
79.0-80.0	6.6	0.7	1000.0	0.07	98.76
80.0-81.0	5.7	0.6	1000.7	0.06	98.82
81.0-82.0	4.8	0.5	1001.2	0.05	98.87
82.0-83.0	3.9	0.4	1001.6	0.04	98.91
83.0-84.0	3.0	0.3	1001.9	0.03	98.94
84.0-85.0	2.2	0.2	1002.2	0.02	98.97
85.0-86.0	1.5	0.2	1002.3	0.02	98.98
86.0-87.0	1.0	0.1	1002.5	0.01	98.99
87.0-88.0	0.4	0.0	1002.5	0.00	99.00
88.0-89.0	0.1	0.0	1002.5	0.00	99.00
89.0-90.0	0.0	0.0	1002.5	0.00	99.00
90.0-91.0	0.0	0.0	1002.5	0.00	99.00
91.0-92.0	0.0	0.0	1002.5	0.00	99.00
92.0-93.0	0.0	0.0	1002.5	0.00	99.00
93.0-94.0	0.0	0.0	1002.5	0.00	99.00
94.0-95.0	0.0	0.0	1002.5	0.00	99.00
95.0-96.0	0.0	0.0	1002.5	0.00	99.00
96.0-97.0	0.0	0.0	1002.5	0.00	99.00
97.0-98.0	0.0	0.0	1002.5	0.00	99.00
98.0-99.0	0.0	0.0	1002.5	0.00	99.00
99.0-100.0	0.0	0.0	1002.5	0.00	99.00
100.0-101.0	0.0	0.0	1002.5	0.00	99.00
101.0-102.0	0.0	0.0	1002.5	0.00	99.00
102.0-103.0	0.0	0.0	1002.5	0.00	99.00
103.0-104.0	0.0	0.0	1002.5	0.00	99.00
104.0-105.0	0.0	0.0	1002.5	0.00	99.00
105.0-106.0	0.0	0.0	1002.5	0.00	99.00
106.0-107.0	0.0	0.0	1002.5	0.00	99.00
107.0-108.0	0.0	0.0	1002.5	0.00	99.00

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

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	0.0	0.0	1002.5	0.00	99.00
109.0-110.0	0.0	0.0	1002.5	0.00	99.00
110.0-111.0	0.0	0.0	1002.5	0.00	99.00
111.0-112.0	0.0	0.0	1002.5	0.00	99.00
112.0-113.0	0.0	0.0	1002.5	0.00	99.00
113.0-114.0	0.0	0.0	1002.5	0.00	99.00
114.0-115.0	0.0	0.0	1002.5	0.00	99.00
115.0-116.0	0.0	0.0	1002.5	0.00	99.00
116.0-117.0	0.0	0.0	1002.5	0.00	99.00
117.0-118.0	0.0	0.0	1002.5	0.00	99.00
118.0-119.0	0.0	0.0	1002.5	0.00	99.00
119.0-120.0	0.0	0.0	1002.5	0.00	99.00
120.0-121.0	0.0	0.0	1002.5	0.00	99.00
121.0-122.0	0.1	0.0	1002.5	0.00	99.00
122.0-123.0	0.3	0.0	1002.6	0.00	99.00
123.0-124.0	0.4	0.0	1002.6	0.00	99.01
124.0-125.0	0.6	0.1	1002.6	0.01	99.01
125.0-126.0	0.8	0.1	1002.7	0.01	99.02
126.0-127.0	0.9	0.1	1002.8	0.01	99.03
127.0-128.0	1.0	0.1	1002.9	0.01	99.04
128.0-129.0	1.1	0.1	1003.0	0.01	99.05
129.0-130.0	1.3	0.1	1003.1	0.01	99.06
130.0-131.0	1.4	0.1	1003.2	0.01	99.07
131.0-132.0	1.6	0.1	1003.3	0.01	99.08
132.0-133.0	1.7	0.1	1003.5	0.01	99.09
133.0-134.0	1.9	0.2	1003.6	0.02	99.11
134.0-135.0	2.1	0.2	1003.8	0.02	99.13
135.0-136.0	2.3	0.2	1004.0	0.02	99.14
136.0-137.0	2.5	0.2	1004.1	0.02	99.16
137.0-138.0	2.7	0.2	1004.3	0.02	99.18
138.0-139.0	2.9	0.2	1004.6	0.02	99.20
139.0-140.0	3.1	0.2	1004.8	0.02	99.22
140.0-141.0	3.3	0.2	1005.0	0.02	99.25
141.0-142.0	3.5	0.2	1005.2	0.02	99.27
142.0-143.0	3.7	0.2	1005.5	0.02	99.29
143.0-144.0	3.9	0.3	1005.7	0.03	99.32

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

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	4.2	0.3	1006.0	0.03	99.35
145.0-146.0	4.4	0.3	1006.3	0.03	99.37
146.0-147.0	4.6	0.3	1006.6	0.03	99.40
147.0-148.0	4.8	0.3	1006.8	0.03	99.43
148.0-149.0	5.0	0.3	1007.1	0.03	99.46
149.0-150.0	5.2	0.3	1007.4	0.03	99.48
150.0-151.0	5.4	0.3	1007.7	0.03	99.51
151.0-152.0	5.6	0.3	1008.0	0.03	99.54
152.0-153.0	5.8	0.3	1008.3	0.03	99.57
153.0-154.0	5.9	0.3	1008.6	0.03	99.60
154.0-155.0	6.0	0.3	1008.9	0.03	99.63
155.0-156.0	6.2	0.3	1009.2	0.03	99.66
156.0-157.0	6.3	0.3	1009.4	0.03	99.68
157.0-158.0	6.4	0.3	1009.7	0.03	99.71
158.0-159.0	6.4	0.3	1010.0	0.03	99.73
159.0-160.0	6.5	0.2	1010.2	0.02	99.76
160.0-161.0	6.5	0.2	1010.4	0.02	99.78
161.0-162.0	6.5	0.2	1010.7	0.02	99.81
162.0-163.0	6.6	0.2	1010.9	0.02	99.83
163.0-164.0	6.5	0.2	1011.1	0.02	99.85
164.0-165.0	6.5	0.2	1011.3	0.02	99.87
165.0-166.0	6.5	0.2	1011.5	0.02	99.88
166.0-167.0	6.5	0.2	1011.6	0.02	99.90
167.0-168.0	6.5	0.2	1011.8	0.02	99.92
168.0-169.0	6.4	0.1	1011.9	0.01	99.93
169.0-170.0	6.4	0.1	1012.0	0.01	99.94
170.0-171.0	6.3	0.1	1012.2	0.01	99.95
171.0-172.0	6.3	0.1	1012.3	0.01	99.96
172.0-173.0	6.2	0.1	1012.4	0.01	99.97
173.0-174.0	6.2	0.1	1012.4	0.01	99.98
174.0-175.0	6.2	0.1	1012.5	0.01	99.99
175.0-176.0	6.1	0.1	1012.5	0.01	99.99
176.0-177.0	6.1	0.0	1012.6	0.00	99.99
177.0-178.0	6.1	0.0	1012.6	0.00	100.00
178.0-179.0	6.1	0.0	1012.6	0.00	100.00
179.0-180.0	6.1	0.0	1012.6	0.00	100.00

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

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

IDEA

/SHHH (06.78.1123.__)



Zonal Lumen (Continue 5)

cone flux(90°): 904.04 lm

%lum = 89.3%

%lamp = 89.3%

cone flux(120°): 962.35 lm

%lum = 95.0%

%lamp = 95.0%

C Plane (°):0.0-360.0: 90.0
Test Lab: inventfine instruments
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

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	2320.1	2320.1	2320.1	2320.1	2320.1					
G1.0	2331.6	2318.6	2284.5	2296.2	2331.6					
G2.0	2316.5	2297.4	2233.7	2250.8	2316.5					
G3.0	2292.2	2265.8	2179.9	2200.9	2292.2					
G4.0	2257.7	2220.7	2118.6	2142.8	2257.7					
G5.0	2211.9	2172.2	2043.9	2070.5	2211.9					
G6.0	2168.4	2116.0	1969.7	1999.0	2168.4					
G7.0	2109.7	2048.5	1878.8	1922.1	2109.7					
G8.0	2050.8	1983.2	1797.7	1835.0	2050.8					
G9.0	1983.0	1905.9	1712.8	1752.1	1983.0					
G10.0	1900.0	1831.0	1621.0	1667.9	1900.0					
G11.0	1811.0	1750.7	1519.0	1571.2	1811.0					
G12.0	1708.0	1652.5	1412.9	1477.5	1708.0					
G13.0	1589.7	1554.9	1305.1	1377.8	1589.7					
G14.0	1478.6	1451.3	1186.1	1259.0	1478.6					
G15.0	1367.4	1336.3	1086.4	1149.5	1367.4					
G16.0	1259.5	1208.1	988.8	1047.3	1259.5					
G17.0	1141.4	1100.0	911.4	948.1	1141.4					
G18.0	1041.3	1000.8	844.5	869.9	1041.3					
G19.0	948.8	914.5	784.2	800.4	948.8					
G20.0	871.1	832.9	734.8	746.9	871.1					
G21.0	800.4	773.6	689.2	697.9	800.4					
G22.0	747.2	721.9	650.3	654.5	747.2					
G23.0	700.7	670.9	610.6	613.7	700.7					
G24.0	655.7	632.6	578.5	579.8	655.7					
G25.0	619.5	599.0	546.8	547.1	619.5					
G26.0	587.1	567.9	499.5	508.8	587.1					
G27.0	557.5	529.4	470.4	478.1	557.5					
G28.0	515.8	487.5	436.9	446.5	515.8					
G29.0	479.5	457.4	378.1	397.4	479.5					
G30.0	447.4	411.4	313.2	336.3	447.4					
G31.0	390.4	353.0	250.8	275.9	390.4					
G32.0	325.0	289.2	189.3	212.9	325.0					
G33.0	262.4	232.6	125.8	155.7	262.4					
G34.0	203.4	175.1	84.0	105.7	203.4					
G35.0	142.7	118.1	66.7	73.3	142.7					
G36.0	94.2	80.4	63.8	64.1	94.2					

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

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	72.1	66.1	62.3	62.7	72.1					
G38.0	66.6	63.9	60.9	61.6	66.6					
G39.0	64.8	62.9	59.9	60.2	64.8					
G40.0	63.5	61.5	58.4	59.3	63.5					
G41.0	62.1	60.4	57.5	58.1	62.1					
G42.0	61.0	58.9	56.6	57.0	61.0					
G43.0	59.9	58.0	55.5	55.9	59.9					
G44.0	58.7	56.7	54.6	54.8	58.7					
G45.0	57.5	55.4	53.6	53.8	57.5					
G46.0	56.4	54.2	52.3	52.9	56.4					
G47.0	55.1	53.2	51.3	51.6	55.1					
G48.0	53.8	51.8	50.3	50.5	53.8					
G49.0	52.5	50.7	49.0	49.4	52.5					
G50.0	51.0	49.5	47.6	48.0	51.0					
G51.0	49.6	48.4	46.1	46.6	49.6					
G52.0	48.1	47.0	44.4	45.2	48.1					
G53.0	46.8	45.8	42.7	43.8	46.8					
G54.0	45.3	44.3	41.2	42.0	45.3					
G55.0	43.8	42.8	39.5	40.5	43.8					
G56.0	42.3	41.4	38.1	39.0	42.3					
G57.0	40.9	39.9	36.5	37.3	40.9					
G58.0	39.4	38.4	34.9	35.8	39.4					
G59.0	38.1	36.8	33.3	34.3	38.1					
G60.0	36.5	35.4	31.7	32.7	36.5					
G61.0	35.0	33.8	30.0	31.0	35.0					
G62.0	33.6	32.2	28.2	29.3	33.6					
G63.0	32.0	30.6	26.3	27.4	32.0					
G64.0	30.3	29.1	24.7	25.5	30.3					
G65.0	28.7	27.2	22.9	24.0	28.7					
G66.0	26.9	25.3	21.3	22.4	26.9					
G67.0	25.0	23.8	19.6	20.8	25.0					
G68.0	23.5	22.1	18.2	19.3	23.5					
G69.0	22.0	20.6	16.8	17.8	22.0					
G70.0	20.3	19.1	15.5	16.4	20.3					
G71.0	18.9	17.6	14.1	15.0	18.9					
G72.0	17.4	16.3	12.9	13.8	17.4					
G73.0	16.1	15.0	11.7	12.6	16.1					

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

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	14.7	13.7	10.4	11.4	14.7					
G75.0	13.5	12.5	9.4	10.3	13.5					
G76.0	12.3	11.2	8.4	9.2	12.3					
G77.0	11.0	10.2	7.3	8.1	11.0					
G78.0	9.9	9.1	6.3	7.1	9.9					
G79.0	8.9	8.0	5.3	6.2	8.9					
G80.0	7.9	7.1	4.4	5.4	7.9					
G81.0	6.9	6.1	3.5	4.5	6.9					
G82.0	6.0	5.2	2.6	3.6	6.0					
G83.0	5.0	4.3	1.6	2.8	5.0					
G84.0	4.1	3.5	0.8	2.0	4.1					
G85.0	3.2	2.6	0.0	1.3	3.2					
G86.0	2.4	1.9	0.0	0.6	2.4					
G87.0	1.6	1.2	0.0	0.0	1.6					
G88.0	0.8	0.0	0.0	0.0	0.8					
G89.0	0.0	0.0	0.0	0.0	0.0					
G90.0	0.0	0.0	0.0	0.0	0.0					
G91.0	0.0	0.0	0.0	0.0	0.0					
G92.0	0.0	0.0	0.0	0.0	0.0					
G93.0	0.0	0.0	0.0	0.0	0.0					
G94.0	0.0	0.0	0.0	0.0	0.0					
G95.0	0.0	0.0	0.0	0.0	0.0					
G96.0	0.0	0.0	0.0	0.0	0.0					
G97.0	0.0	0.0	0.0	0.0	0.0					
G98.0	0.0	0.0	0.0	0.0	0.0					
G99.0	0.0	0.0	0.0	0.0	0.0					
G100.0	0.0	0.0	0.0	0.0	0.0					
G101.0	0.0	0.0	0.0	0.0	0.0					
G102.0	0.0	0.0	0.0	0.0	0.0					
G103.0	0.0	0.0	0.0	0.0	0.0					
G104.0	0.0	0.0	0.0	0.0	0.0					
G105.0	0.0	0.0	0.0	0.0	0.0					
G106.0	0.0	0.0	0.0	0.0	0.0					
G107.0	0.0	0.0	0.0	0.0	0.0					
G108.0	0.0	0.0	0.0	0.0	0.0					
G109.0	0.0	0.0	0.0	0.0	0.0					
G110.0	0.0	0.0	0.0	0.0	0.0					

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

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	0.0	0.0	0.0	0.0	0.0					
G112.0	0.0	0.0	0.0	0.0	0.0					
G113.0	0.0	0.0	0.0	0.0	0.0					
G114.0	0.0	0.0	0.0	0.0	0.0					
G115.0	0.0	0.0	0.0	0.0	0.0					
G116.0	0.0	0.0	0.0	0.0	0.0					
G117.0	0.0	0.0	0.0	0.0	0.0					
G118.0	0.0	0.0	0.0	0.0	0.0					
G119.0	0.0	0.0	0.0	0.0	0.0					
G120.0	0.0	0.0	0.0	0.0	0.0					
G121.0	0.0	0.0	0.0	0.0	0.0					
G122.0	0.0	0.0	0.6	0.6	0.0					
G123.0	0.0	0.0	0.7	0.6	0.0					
G124.0	0.0	0.6	0.7	0.7	0.0					
G125.0	0.6	0.7	0.9	0.8	0.6					
G126.0	0.7	0.8	0.9	0.9	0.7					
G127.0	0.8	0.9	1.0	1.0	0.8					
G128.0	1.0	1.0	1.1	1.1	1.0					
G129.0	1.1	1.1	1.3	1.2	1.1					
G130.0	1.2	1.3	1.4	1.3	1.2					
G131.0	1.4	1.5	1.6	1.5	1.4					
G132.0	1.6	1.6	1.8	1.7	1.6					
G133.0	1.8	1.8	1.9	1.9	1.8					
G134.0	2.0	2.0	2.1	2.0	2.0					
G135.0	2.1	2.2	2.2	2.2	2.1					
G136.0	2.3	2.4	2.4	2.4	2.3					
G137.0	2.5	2.6	2.6	2.5	2.5					
G138.0	2.7	2.8	2.8	2.8	2.7					
G139.0	3.0	3.0	2.9	2.9	3.0					
G140.0	3.2	3.3	3.2	3.1	3.2					
G141.0	3.4	3.6	3.3	3.3	3.4					
G142.0	3.7	3.8	3.5	3.5	3.7					
G143.0	3.9	4.0	3.7	3.7	3.9					
G144.0	4.2	4.3	3.9	3.8	4.2					
G145.0	4.4	4.6	4.1	4.0	4.4					
G146.0	4.7	4.8	4.2	4.2	4.7					
G147.0	5.0	5.1	4.4	4.4	5.0					

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

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	5.3	5.4	4.5	4.5	5.3					
G149.0	5.5	5.6	4.7	4.7	5.5					
G150.0	5.8	5.9	4.9	4.8	5.8					
G151.0	6.0	6.1	5.0	5.0	6.0					
G152.0	6.3	6.3	5.1	5.1	6.3					
G153.0	6.4	6.5	5.2	5.2	6.4					
G154.0	6.6	6.7	5.3	5.3	6.6					
G155.0	6.8	6.9	5.4	5.4	6.8					
G156.0	7.0	7.1	5.5	5.5	7.0					
G157.0	7.1	7.2	5.5	5.5	7.1					
G158.0	7.2	7.3	5.6	5.6	7.2					
G159.0	7.3	7.3	5.7	5.6	7.3					
G160.0	7.3	7.4	5.7	5.6	7.3					
G161.0	7.4	7.4	5.7	5.6	7.4					
G162.0	7.4	7.4	5.7	5.7	7.4					
G163.0	7.4	7.4	5.7	5.8	7.4					
G164.0	7.4	7.3	5.7	5.7	7.4					
G165.0	7.3	7.3	5.7	5.8	7.3					
G166.0	7.2	7.3	5.8	5.8	7.2					
G167.0	7.2	7.2	5.8	5.8	7.2					
G168.0	7.1	7.1	5.8	5.7	7.1					
G169.0	7.1	7.0	5.8	5.7	7.1					
G170.0	6.9	6.9	5.8	5.8	6.9					
G171.0	6.8	6.8	5.8	5.8	6.8					
G172.0	6.8	6.7	5.9	5.8	6.8					
G173.0	6.6	6.6	5.8	5.8	6.6					
G174.0	6.6	6.5	5.8	5.8	6.6					
G175.0	6.4	6.4	5.9	5.9	6.4					
G176.0	6.3	6.2	5.9	5.9	6.3					
G177.0	6.3	6.2	5.9	5.9	6.3					
G178.0	6.2	6.1	5.9	5.9	6.2					
G179.0	6.1	6.1	6.0	6.0	6.1					
G180.0	6.1	6.0	6.0	6.1	6.1					

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

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	27674.53
L 0-180(75) av	20076.10
L 0-180(85) av	8375.74
L 90-270(65) av	27443.94
L 90-270(75) av	19911.48
L 90-270(85) av	10396.22
L 45(65) av	27559.24
L 45(75) av	19993.79
L 45(85) av	9385.98

Standard: GB/T 29293-2012