



Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Luminaire Description: SHHH X1 LUZ 15°
Lamp Catalog:
Number of Lamps:
Luminous Length (mm): -53
Luminous Height (mm):
Current: 0.063 A
Power Factor: 0.926

Lamp Description:
Lumens per Lamp:
Luminous Width (mm): -53
Voltage: 220.3 V
Power: 12.77 W

Photometric Results

CIE Class: Direct
Measurement Flux: 792 lm
Downward Ratio: 100%
Horizontal Diffuse Angle(50%): H18
Vertical Diffuse Angle(50%): V18.1
Luminaire Efficacy Rating (LER): 62.07
Max. Intensity: 3231.48 cd
S/MH(C0/C180): 0.31

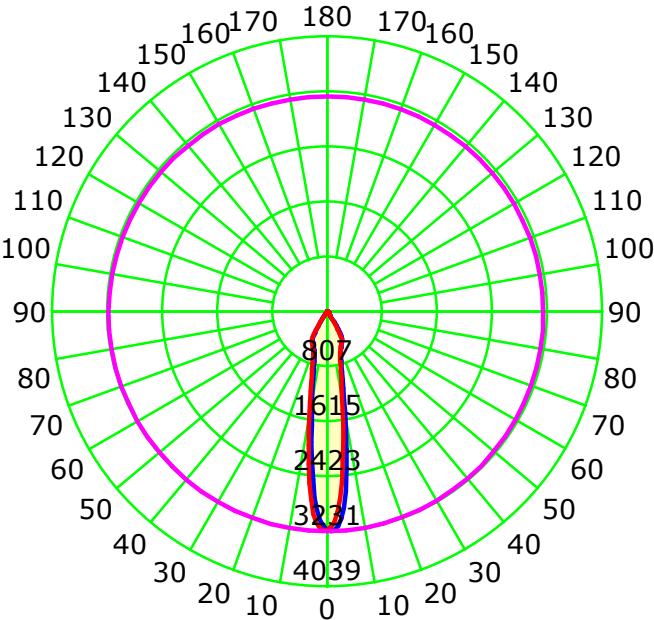
Total Rated Lamp Lumens: 792.0 lm
Efficiency: 100%
Upward Ratio: 0%

C0r0 Intensity: 3212.48 cd
Pos of Max. Intensity: H0 V1
S/MH(C90/C270): 0.31

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 18.0°

— C0-C180 — C90-C270 — G1

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

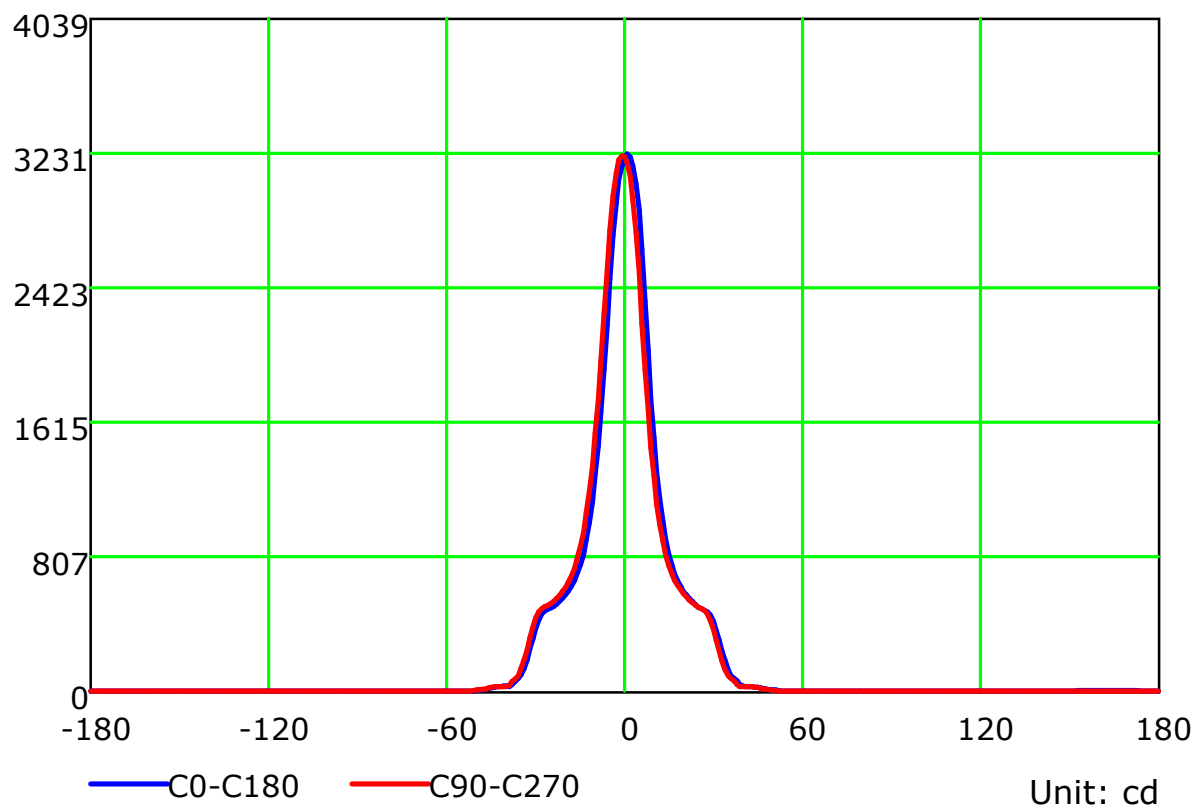
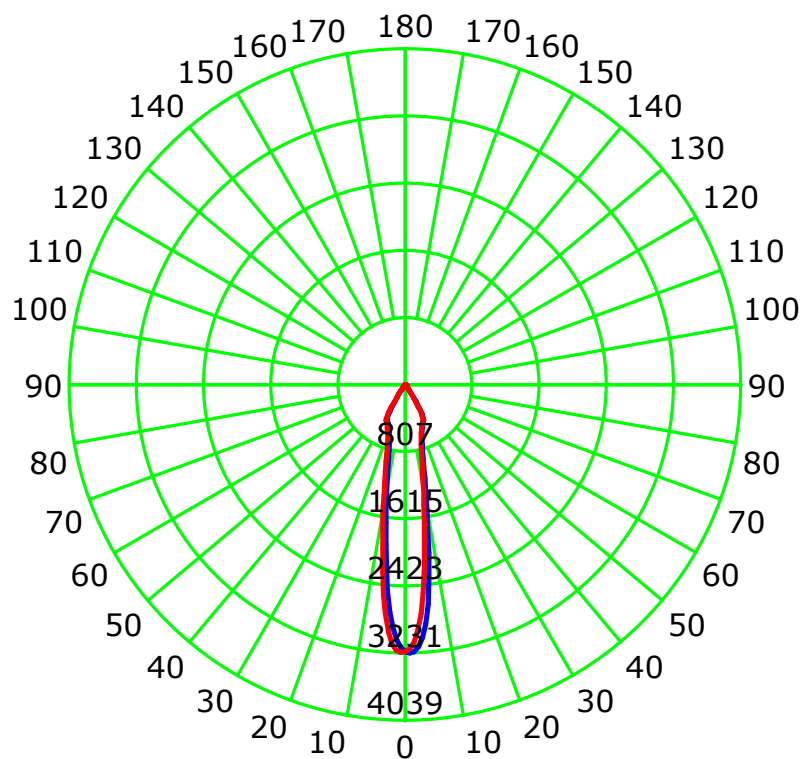
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:



IDEA

/SHHH (06.78.1121.__)

Luminous Intensity Distribution Curve



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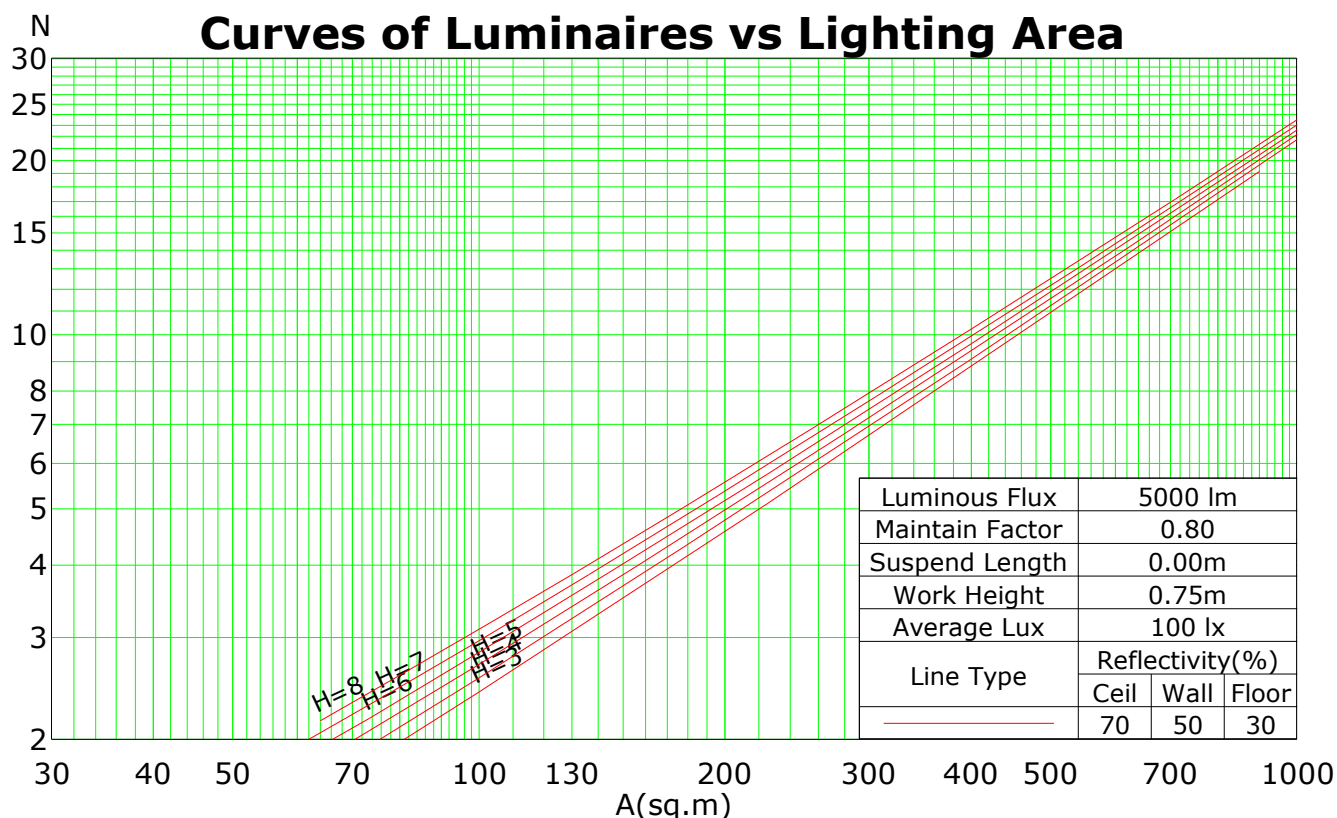
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.12	1.10	1.08	1.12	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95
2	1.10	1.06	1.02	0.99	1.08	1.04	1.01	0.98	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.94	0.92	0.91
3	1.06	1.00	0.96	0.93	1.04	0.99	0.95	0.92	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.90	0.88	0.86
4	1.01	0.95	0.91	0.87	1.00	0.94	0.90	0.87	0.92	0.88	0.85	0.90	0.87	0.85	0.88	0.86	0.84	0.82
5	0.97	0.91	0.86	0.82	0.96	0.90	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.78
6	0.94	0.86	0.82	0.78	0.92	0.86	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.75
7	0.90	0.83	0.78	0.74	0.89	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.72
8	0.87	0.79	0.74	0.71	0.86	0.79	0.74	0.71	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.69
9	0.84	0.76	0.71	0.68	0.83	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.66
10	0.81	0.73	0.68	0.65	0.80	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.65	0.64

Spacing Criteria (0-180): 0.31

Spacing Criteria (90-270): 0.31

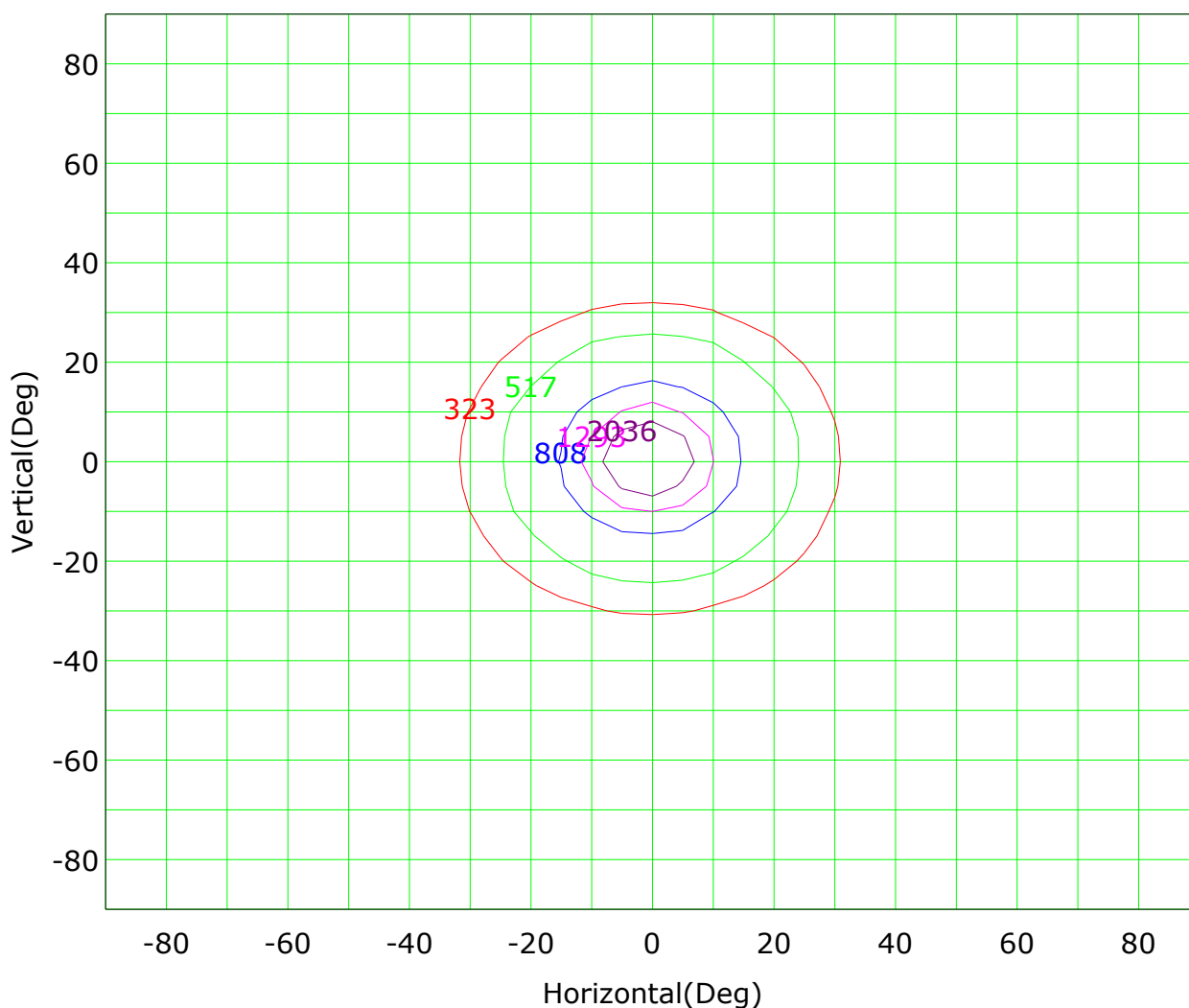
Spacing Criteria (Diagonal): 0.35



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:

Isocandela (rectangle)



Imax (100%): 3231 cd

- (10%): 323 cd
- (25%): 808 cd
- (63%): 2036 cd

— (16%): 517 cd
— (40%): 1293 cd
— (100%): 3231 cd

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

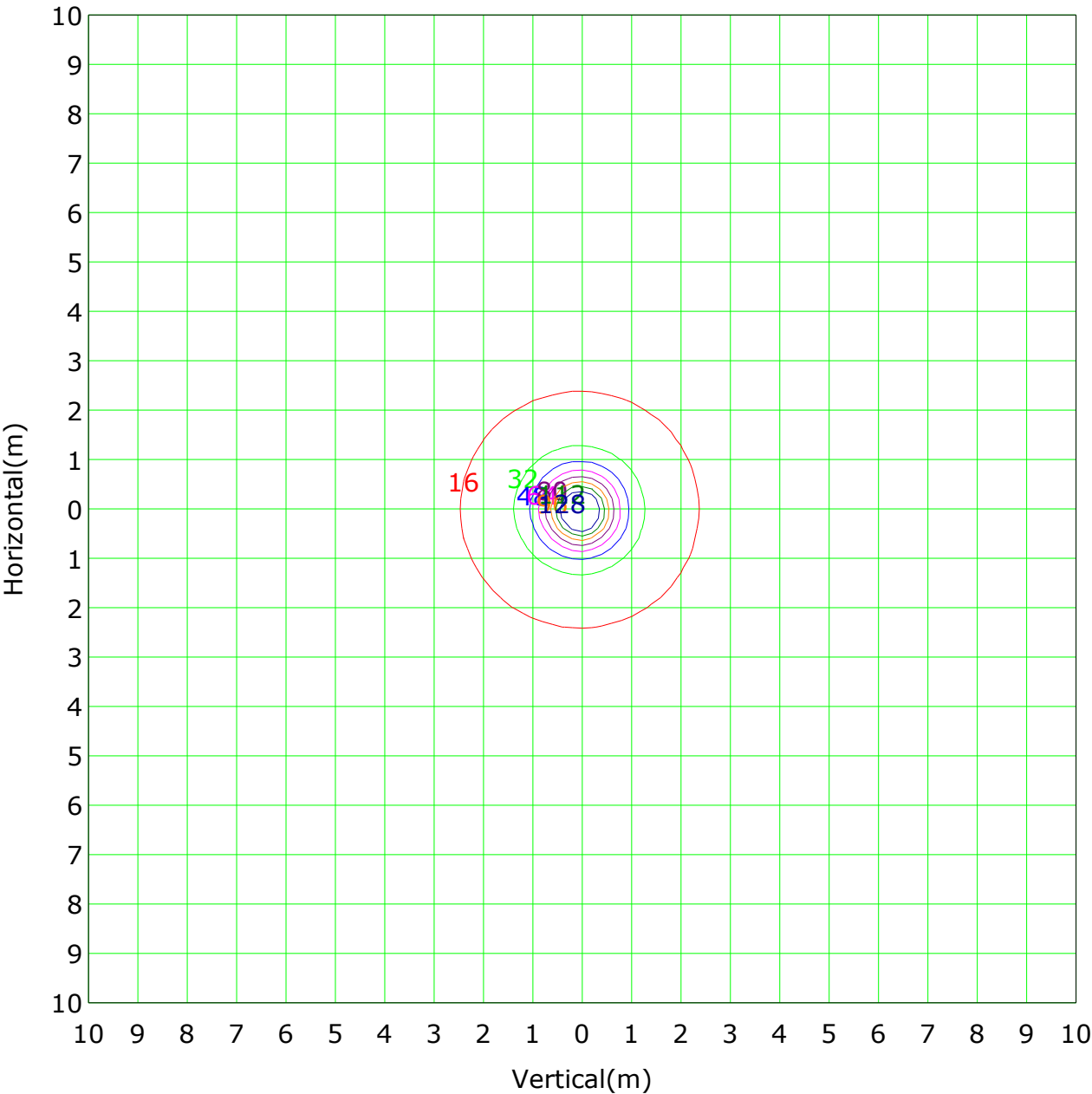
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:



IDEA

/SHHH (06.78.1121.__)

IsoLux Plot



Mounting Height: 4.5m	Max Lux(100%): 159.5 lx
(10%): 16.0 lx	(20%): 31.9 lx
(30%): 47.9 lx	(40%): 63.8 lx
(50%): 79.8 lx	(60%): 95.7 lx
(70%): 111.7 lx	(80%): 127.6 lx

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Test Lab: inventfine instruments
Test Type: TYPE C
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Operator:

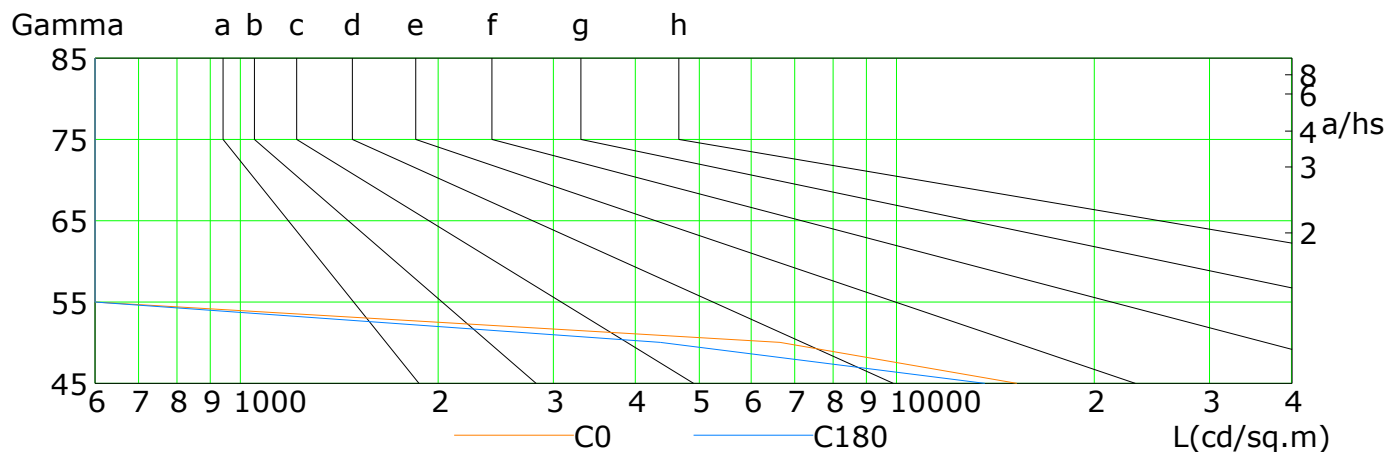
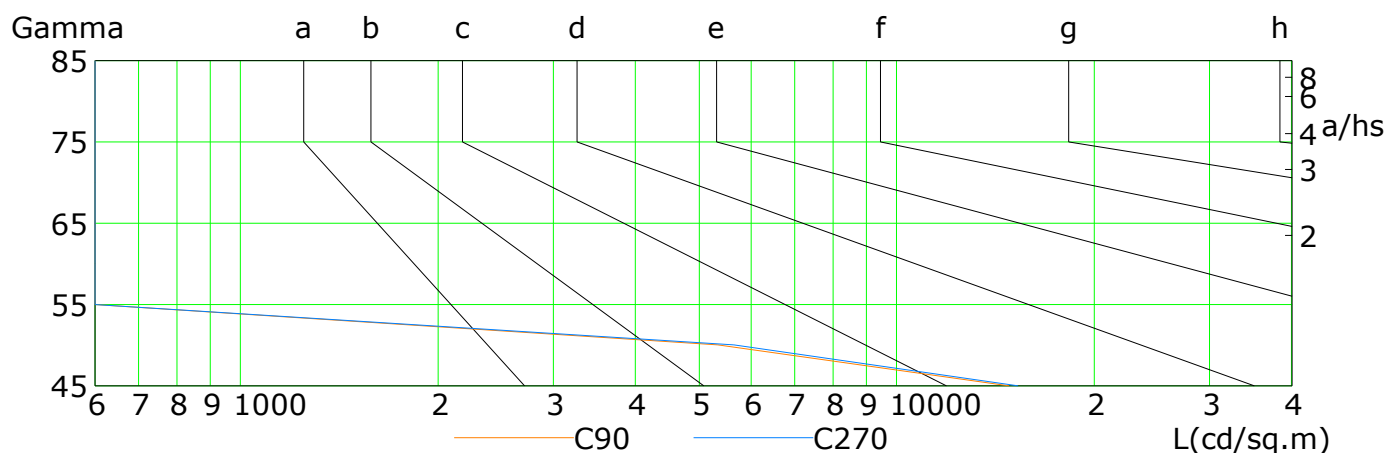
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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



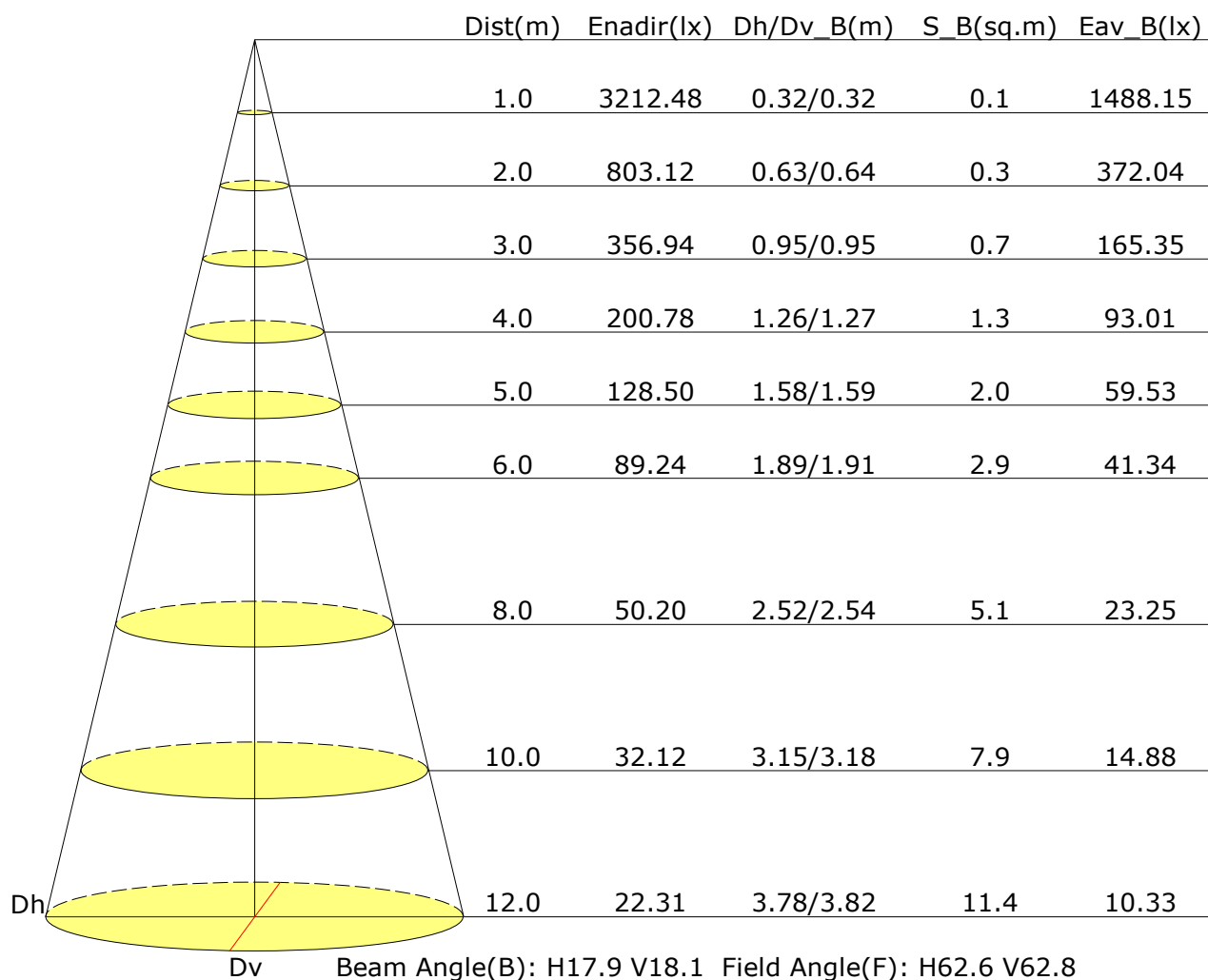
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	15242	6648	0	0	0	0	0	0	0
C90	14850	5344	0	0	0	0	0	0	0
C180	13617	4367	0	0	0	0	0	0	0
C270	15321	5654	0	0	0	0	0	0	0

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 Operator:

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 Inspector:



Illuminance at a Distance

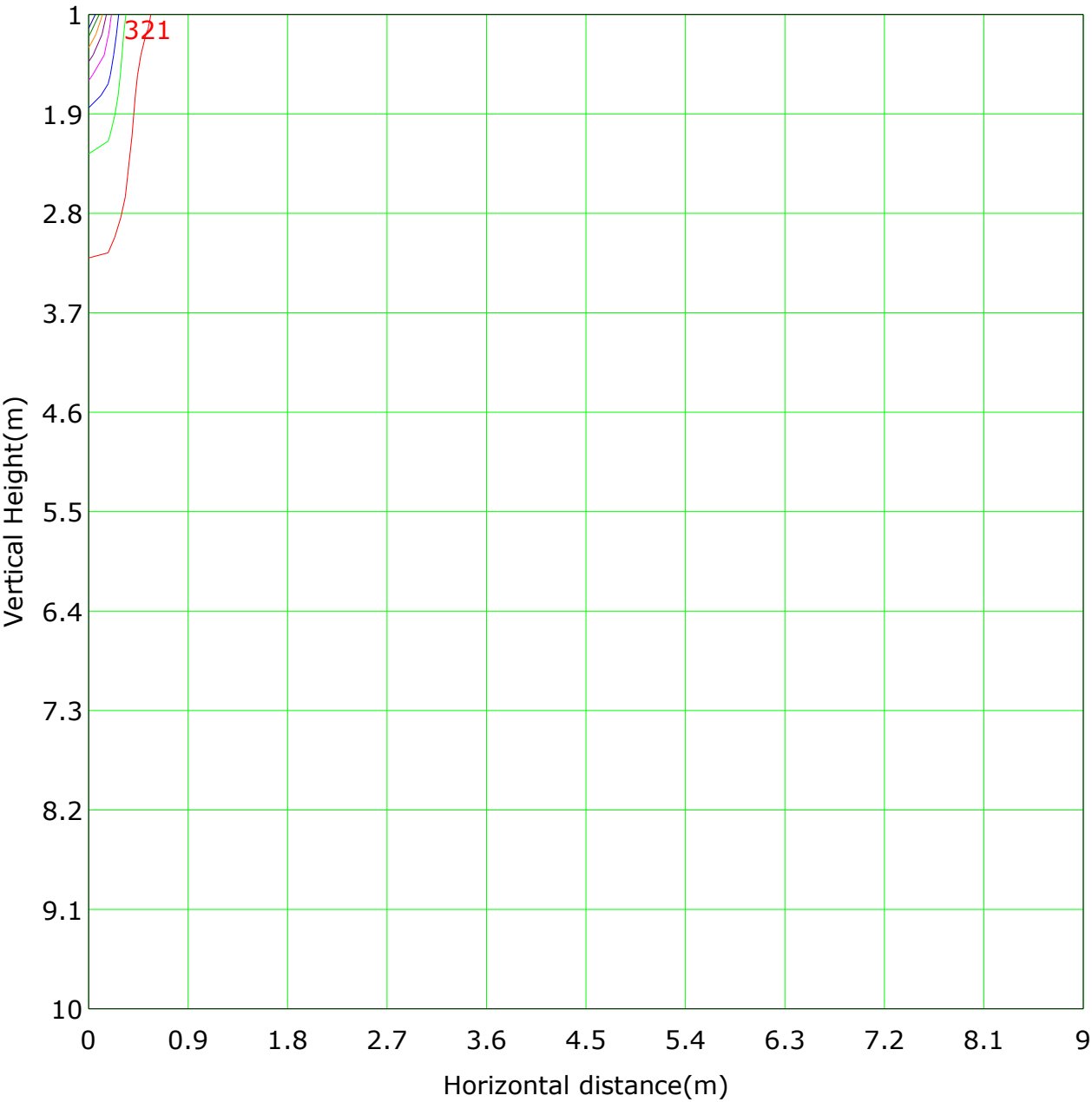


C Plane (°):0.0-360.0: 90.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator:

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



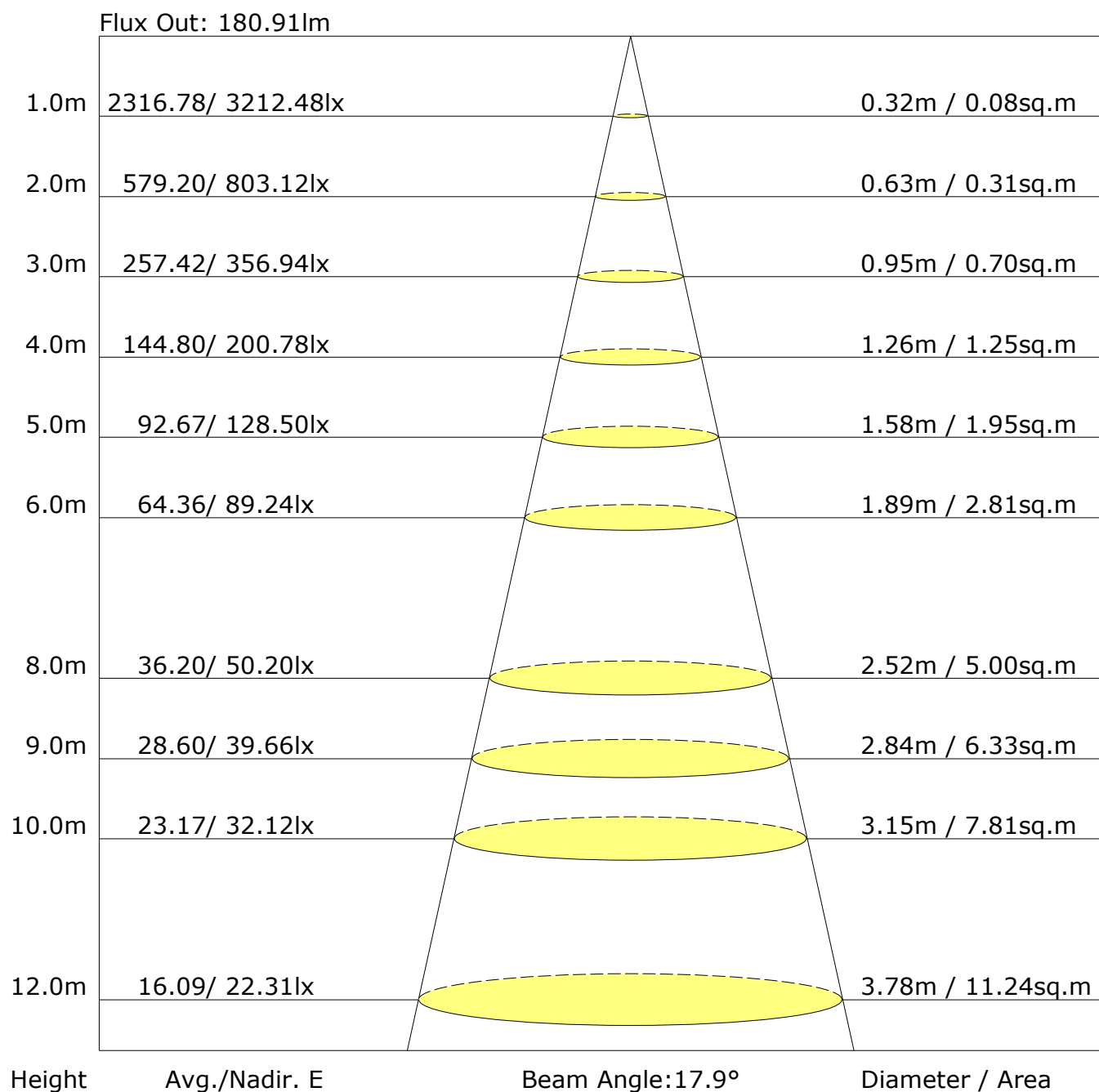
Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 3212.5 lx	
(10%): 321.2 lx	(20%): 642.5 lx
(30%): 963.7 lx	(40%): 1285.0 lx
(50%): 1606.2 lx	(60%): 1927.5 lx
(70%): 2248.7 lx	(80%): 2570.0 lx

C Plane (°):0.0-360.0: 90.0
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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:



The Average Illuminance Effective Figure



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 Operator:

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 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	17.4	18.1	17.6	18.3	18.5	17.0	17.7	17.3	17.9	18.1
3H	17.2	17.9	17.5	18.1	18.4	16.9	17.5	17.2	17.8	18.0
4H	17.2	17.8	17.5	18.0	18.3	16.8	17.4	17.1	17.7	17.9
6H	17.1	17.7	17.4	17.9	18.2	16.7	17.3	17.1	17.6	17.9
8H	17.1	17.6	17.4	17.9	18.2	16.7	17.2	17.0	17.5	17.8
12H	17.0	17.5	17.4	17.8	18.2	16.6	17.2	17.0	17.5	17.8
X=4H Y=2H	17.2	17.8	17.5	18.0	18.3	16.8	17.4	17.1	17.7	17.9
3H	17.0	17.5	17.4	17.8	18.2	16.6	17.2	17.0	17.5	17.8
4H	16.9	17.4	17.3	17.7	18.1	16.6	17.0	16.9	17.4	17.7
6H	16.9	17.3	17.3	17.6	18.0	16.5	16.9	16.9	17.3	17.6
8H	16.8	17.2	17.2	17.6	18.0	16.4	16.8	16.9	17.2	17.6
12H	16.8	17.1	17.2	17.5	17.9	16.4	16.7	16.8	17.1	17.6
X=8H Y=4H	16.8	17.2	17.2	17.6	18.0	16.4	16.8	16.9	17.2	17.6
6H	16.7	17.0	17.2	17.4	17.9	16.3	16.6	16.8	17.1	17.5
8H	16.7	16.9	17.1	17.4	17.8	16.3	16.5	16.8	17.0	17.5
12H	16.6	16.8	17.1	17.3	17.8	16.2	16.5	16.7	16.9	17.4
X=12H Y=4H	16.8	17.1	17.2	17.5	17.9	16.4	16.7	16.8	17.1	17.6
6H	16.7	16.9	17.1	17.4	17.8	16.3	16.5	16.8	17.0	17.5
8H	16.6	16.8	17.1	17.3	17.8	16.2	16.5	16.7	16.9	17.4
Variations with the observer position at spacings:										
S=1.0H	+6.5/-1.\$					+6.6/-1.\$				
S=1.5H	+9.3/-1.\$					+9.4/-1.\$				
S=2.0H	+11.3/-1.\$					+11.4/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 792lm ($8\log(F/F_0) = -0.8$).

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 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	3204.2	3.1	3.1	0.39	0.39
1.0-2.0	3170.7	9.1	12.2	1.15	1.54
2.0-3.0	3092.0	14.8	27.0	1.87	3.40
3.0-4.0	2959.8	19.8	46.8	2.50	5.91
4.0-5.0	2772.4	23.9	70.6	3.01	8.92
5.0-6.0	2533.1	26.6	97.3	3.36	12.28
6.0-7.0	2262.0	28.1	125.3	3.55	15.82
7.0-8.0	1986.2	28.4	153.8	3.59	19.41
8.0-9.0	1731.2	28.1	181.8	3.54	22.96
9.0-10.0	1514.9	27.4	209.2	3.46	26.42
10.0-11.0	1326.9	26.5	235.8	3.35	29.77
11.0-12.0	1164.1	25.5	261.2	3.21	32.98
12.0-13.0	1034.7	24.6	285.8	3.10	36.08
13.0-14.0	927.5	23.7	309.5	3.00	39.08
14.0-15.0	840.8	23.1	332.6	2.91	41.99
15.0-16.0	773.4	22.7	355.3	2.86	44.86
16.0-17.0	719.3	22.4	377.7	2.83	47.69
17.0-18.0	675.6	22.3	399.9	2.81	50.50
18.0-19.0	640.0	22.3	422.2	2.81	53.31
19.0-20.0	610.8	22.4	444.6	2.82	56.13
20.0-21.0	587.6	22.6	467.1	2.85	58.98
21.0-22.0	567.8	22.8	490.0	2.88	61.86
22.0-23.0	548.9	23.0	513.0	2.91	64.77
23.0-24.0	531.3	23.2	536.2	2.93	67.70
24.0-25.0	516.9	23.5	559.7	2.97	70.67
25.0-26.0	505.9	23.9	583.6	3.02	73.69
26.0-27.0	496.2	24.3	607.9	3.07	76.75
27.0-28.0	484.4	24.5	632.4	3.10	79.85
28.0-29.0	463.0	24.2	656.6	3.06	82.91
29.0-30.0	425.0	23.0	679.6	2.90	85.81
30.0-31.0	373.8	20.8	700.4	2.63	88.43
31.0-32.0	313.5	18.0	718.4	2.27	90.70
32.0-33.0	249.8	14.7	733.1	1.86	92.56
33.0-34.0	189.9	11.5	744.6	1.45	94.01
34.0-35.0	138.3	8.6	753.2	1.08	95.10
35.0-36.0	101.1	6.4	759.6	0.81	95.91

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 Distance: 8.684 m [K=1.0000]
 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	78.3	5.1	764.7	0.64	96.55
37.0-38.0	60.0	4.0	768.7	0.51	97.06
38.0-39.0	42.6	2.9	771.6	0.37	97.43
39.0-40.0	32.5	2.3	773.9	0.29	97.71
40.0-41.0	30.3	2.2	776.0	0.27	97.99
41.0-42.0	29.9	2.2	778.2	0.27	98.26
42.0-43.0	29.0	2.2	780.4	0.27	98.53
43.0-44.0	27.4	2.1	782.4	0.26	98.79
44.0-45.0	24.6	1.9	784.3	0.24	99.03
45.0-46.0	21.0	1.6	786.0	0.21	99.24
46.0-47.0	17.0	1.3	787.3	0.17	99.41
47.0-48.0	13.5	1.1	788.4	0.14	99.55
48.0-49.0	10.8	0.9	789.3	0.11	99.66
49.0-50.0	8.7	0.7	790.0	0.09	99.75
50.0-51.0	6.4	0.5	790.6	0.07	99.82
51.0-52.0	3.3	0.3	790.9	0.04	99.86
52.0-53.0	0.8	0.1	790.9	0.01	99.87
53.0-54.0	0.0	0.0	790.9	0.00	99.87
54.0-55.0	0.0	0.0	790.9	0.00	99.87
55.0-56.0	0.0	0.0	790.9	0.00	99.87
56.0-57.0	0.0	0.0	790.9	0.00	99.87
57.0-58.0	0.0	0.0	790.9	0.00	99.87
58.0-59.0	0.0	0.0	790.9	0.00	99.87
59.0-60.0	0.0	0.0	790.9	0.00	99.87
60.0-61.0	0.0	0.0	790.9	0.00	99.87
61.0-62.0	0.0	0.0	790.9	0.00	99.87
62.0-63.0	0.0	0.0	790.9	0.00	99.87
63.0-64.0	0.0	0.0	790.9	0.00	99.87
64.0-65.0	0.0	0.0	790.9	0.00	99.87
65.0-66.0	0.0	0.0	790.9	0.00	99.87
66.0-67.0	0.0	0.0	790.9	0.00	99.87
67.0-68.0	0.0	0.0	790.9	0.00	99.87
68.0-69.0	0.0	0.0	790.9	0.00	99.87
69.0-70.0	0.0	0.0	790.9	0.00	99.87
70.0-71.0	0.0	0.0	790.9	0.00	99.87
71.0-72.0	0.0	0.0	790.9	0.00	99.87

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 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	0.0	0.0	790.9	0.00	99.87
73.0-74.0	0.0	0.0	790.9	0.00	99.87
74.0-75.0	0.0	0.0	790.9	0.00	99.87
75.0-76.0	0.0	0.0	790.9	0.00	99.87
76.0-77.0	0.0	0.0	790.9	0.00	99.87
77.0-78.0	0.0	0.0	790.9	0.00	99.87
78.0-79.0	0.0	0.0	790.9	0.00	99.87
79.0-80.0	0.0	0.0	790.9	0.00	99.87
80.0-81.0	0.0	0.0	790.9	0.00	99.87
81.0-82.0	0.0	0.0	790.9	0.00	99.87
82.0-83.0	0.0	0.0	790.9	0.00	99.87
83.0-84.0	0.0	0.0	790.9	0.00	99.87
84.0-85.0	0.0	0.0	790.9	0.00	99.87
85.0-86.0	0.0	0.0	790.9	0.00	99.87
86.0-87.0	0.0	0.0	790.9	0.00	99.87
87.0-88.0	0.0	0.0	790.9	0.00	99.87
88.0-89.0	0.0	0.0	790.9	0.00	99.87
89.0-90.0	0.0	0.0	790.9	0.00	99.87
90.0-91.0	0.0	0.0	790.9	0.00	99.87
91.0-92.0	0.0	0.0	790.9	0.00	99.87
92.0-93.0	0.0	0.0	790.9	0.00	99.87
93.0-94.0	0.0	0.0	790.9	0.00	99.87
94.0-95.0	0.0	0.0	790.9	0.00	99.87
95.0-96.0	0.0	0.0	790.9	0.00	99.87
96.0-97.0	0.0	0.0	790.9	0.00	99.87
97.0-98.0	0.0	0.0	790.9	0.00	99.87
98.0-99.0	0.0	0.0	790.9	0.00	99.87
99.0-100.0	0.0	0.0	790.9	0.00	99.87
100.0-101.0	0.0	0.0	790.9	0.00	99.87
101.0-102.0	0.0	0.0	790.9	0.00	99.87
102.0-103.0	0.0	0.0	790.9	0.00	99.87
103.0-104.0	0.0	0.0	790.9	0.00	99.87
104.0-105.0	0.0	0.0	790.9	0.00	99.87
105.0-106.0	0.0	0.0	790.9	0.00	99.87
106.0-107.0	0.0	0.0	790.9	0.00	99.87
107.0-108.0	0.0	0.0	790.9	0.00	99.87

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	790.9	0.00	99.87
109.0-110.0	0.0	0.0	790.9	0.00	99.87
110.0-111.0	0.0	0.0	790.9	0.00	99.87
111.0-112.0	0.0	0.0	790.9	0.00	99.87
112.0-113.0	0.0	0.0	790.9	0.00	99.87
113.0-114.0	0.0	0.0	790.9	0.00	99.87
114.0-115.0	0.0	0.0	790.9	0.00	99.87
115.0-116.0	0.0	0.0	790.9	0.00	99.87
116.0-117.0	0.0	0.0	790.9	0.00	99.87
117.0-118.0	0.0	0.0	790.9	0.00	99.87
118.0-119.0	0.0	0.0	790.9	0.00	99.87
119.0-120.0	0.0	0.0	790.9	0.00	99.87
120.0-121.0	0.0	0.0	790.9	0.00	99.87
121.0-122.0	0.0	0.0	790.9	0.00	99.87
122.0-123.0	0.0	0.0	790.9	0.00	99.87
123.0-124.0	0.0	0.0	790.9	0.00	99.87
124.0-125.0	0.0	0.0	790.9	0.00	99.87
125.0-126.0	0.0	0.0	790.9	0.00	99.87
126.0-127.0	0.0	0.0	790.9	0.00	99.87
127.0-128.0	0.0	0.0	790.9	0.00	99.87
128.0-129.0	0.0	0.0	790.9	0.00	99.87
129.0-130.0	0.0	0.0	790.9	0.00	99.87
130.0-131.0	0.0	0.0	790.9	0.00	99.87
131.0-132.0	0.0	0.0	790.9	0.00	99.87
132.0-133.0	0.0	0.0	790.9	0.00	99.87
133.0-134.0	0.0	0.0	790.9	0.00	99.87
134.0-135.0	0.0	0.0	790.9	0.00	99.87
135.0-136.0	0.0	0.0	790.9	0.00	99.87
136.0-137.0	0.0	0.0	790.9	0.00	99.87
137.0-138.0	0.0	0.0	790.9	0.00	99.87
138.0-139.0	0.0	0.0	790.9	0.00	99.87
139.0-140.0	0.0	0.0	790.9	0.00	99.87
140.0-141.0	0.0	0.0	790.9	0.00	99.87
141.0-142.0	0.0	0.0	790.9	0.00	99.87
142.0-143.0	0.0	0.0	790.9	0.00	99.87
143.0-144.0	0.0	0.0	790.9	0.00	99.87

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	0.0	0.0	790.9	0.00	99.87
145.0-146.0	0.0	0.0	790.9	0.00	99.87
146.0-147.0	0.0	0.0	790.9	0.00	99.87
147.0-148.0	0.0	0.0	790.9	0.00	99.87
148.0-149.0	0.0	0.0	790.9	0.00	99.87
149.0-150.0	0.0	0.0	790.9	0.00	99.87
150.0-151.0	0.0	0.0	790.9	0.00	99.87
151.0-152.0	0.0	0.0	790.9	0.00	99.87
152.0-153.0	0.7	0.0	791.0	0.00	99.87
153.0-154.0	1.5	0.1	791.0	0.01	99.88
154.0-155.0	1.5	0.1	791.1	0.01	99.89
155.0-156.0	1.6	0.1	791.2	0.01	99.90
156.0-157.0	1.6	0.1	791.2	0.01	99.91
157.0-158.0	1.7	0.1	791.3	0.01	99.91
158.0-159.0	1.7	0.1	791.4	0.01	99.92
159.0-160.0	1.7	0.1	791.5	0.01	99.93
160.0-161.0	1.7	0.1	791.5	0.01	99.94
161.0-162.0	1.7	0.1	791.6	0.01	99.95
162.0-163.0	1.7	0.1	791.6	0.01	99.95
163.0-164.0	1.6	0.1	791.7	0.01	99.96
164.0-165.0	1.6	0.0	791.7	0.01	99.97
165.0-166.0	1.6	0.0	791.8	0.01	99.97
166.0-167.0	1.6	0.0	791.8	0.01	99.98
167.0-168.0	1.6	0.0	791.8	0.00	99.98
168.0-169.0	1.6	0.0	791.9	0.00	99.99
169.0-170.0	1.5	0.0	791.9	0.00	99.99
170.0-171.0	1.4	0.0	791.9	0.00	99.99
171.0-172.0	1.4	0.0	792.0	0.00	100.00
172.0-173.0	1.4	0.0	792.0	0.00	100.00
173.0-174.0	0.7	0.0	792.0	0.00	100.00
174.0-175.0	0.0	0.0	792.0	0.00	100.00
175.0-176.0	0.0	0.0	792.0	0.00	100.00
176.0-177.0	0.0	0.0	792.0	0.00	100.00
177.0-178.0	0.0	0.0	792.0	0.00	100.00
178.0-179.0	0.0	0.0	792.0	0.00	100.00
179.0-180.0	0.0	0.0	792.0	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 (06.78.1121.__)



Zonal Lumen (Continue 5)

cone flux(90°): 784.33 lm

%lum = 99.0%

%lamp = 99.0%

cone flux(120°): 790.92 lm

%lum = 99.9%

%lamp = 99.9%

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

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	3212.5	3212.5	3212.5	3212.5	3212.5					
G1.0	3231.5	3174.7	3158.3	3218.7	3231.5					
G2.0	3212.1	3096.2	3079.1	3195.3	3212.1					
G3.0	3157.2	2950.2	2932.8	3113.0	3157.2					
G4.0	3048.9	2757.8	2741.0	2977.9	3048.9					
G5.0	2891.4	2514.2	2475.2	2772.6	2891.4					
G6.0	2661.2	2208.3	2204.0	2537.7	2661.2					
G7.0	2343.8	1932.8	1936.9	2270.9	2343.8					
G8.0	2048.0	1691.2	1680.5	1985.2	2048.0					
G9.0	1750.7	1464.9	1477.2	1752.0	1750.7					
G10.0	1526.0	1294.4	1302.8	1551.5	1526.0					
G11.0	1320.1	1126.8	1138.8	1354.4	1320.1					
G12.0	1156.8	1001.8	1013.4	1200.6	1156.8					
G13.0	1022.6	901.4	911.1	1070.2	1022.6					
G14.0	915.6	821.7	822.9	954.7	915.6					
G15.0	824.3	755.0	760.7	871.1	824.3					
G16.0	758.3	706.3	710.2	801.0	758.3					
G17.0	705.2	667.1	667.0	739.5	705.2					
G18.0	662.7	636.1	633.1	694.1	662.7					
G19.0	627.9	608.2	603.9	654.1	627.9					
G20.0	598.0	586.4	581.5	626.2	598.0					
G21.0	577.1	567.9	561.5	602.0	577.1					
G22.0	558.8	549.9	544.2	580.7	558.8					
G23.0	539.8	531.6	525.8	560.0	539.8					
G24.0	522.5	516.9	511.6	541.9	522.5					
G25.0	507.2	506.5	501.9	527.1	507.2					
G26.0	496.7	497.2	494.4	516.1	496.7					
G27.0	488.4	486.3	482.6	508.0	488.4					
G28.0	479.3	467.0	467.2	496.5	479.3					
G29.0	458.5	426.1	429.3	479.7	458.5					
G30.0	420.0	370.0	374.8	442.0	420.0					
G31.0	367.5	309.8	316.7	389.4	367.5					
G32.0	304.2	241.6	257.6	321.3	304.2					
G33.0	244.7	184.2	191.6	253.5	244.7					
G34.0	187.4	128.4	138.0	191.8	187.4					
G35.0	130.7	95.0	99.9	135.1	130.7					
G36.0	95.2	78.4	80.8	93.7	95.2					

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	78.2	64.1	60.2	75.6	78.2					
G38.0	64.0	40.2	39.7	58.1	64.0					
G39.0	40.1	29.7	30.5	38.2	40.1					
G40.0	31.0	29.3	31.0	30.6	31.0					
G41.0	28.7	29.9	31.2	30.7	28.7					
G42.0	28.6	29.3	30.5	30.2	28.6					
G43.0	28.0	28.1	28.6	29.1	28.0					
G44.0	26.3	26.4	25.5	27.0	26.3					
G45.0	23.8	23.2	21.2	23.9	23.8					
G46.0	20.8	19.1	16.3	19.5	20.8					
G47.0	17.0	15.2	12.4	15.3	17.0					
G48.0	13.9	12.0	10.4	12.1	13.9					
G49.0	11.4	9.0	8.2	9.8	11.4					
G50.0	9.4	7.6	6.2	8.0	9.4					
G51.0	7.7	5.8	0.0	6.4	7.7					
G52.0	6.5	0.0	0.0	0.0	6.5					
G53.0	0.0	0.0	0.0	0.0	0.0					
G54.0	0.0	0.0	0.0	0.0	0.0					
G55.0	0.0	0.0	0.0	0.0	0.0					
G56.0	0.0	0.0	0.0	0.0	0.0					
G57.0	0.0	0.0	0.0	0.0	0.0					
G58.0	0.0	0.0	0.0	0.0	0.0					
G59.0	0.0	0.0	0.0	0.0	0.0					
G60.0	0.0	0.0	0.0	0.0	0.0					
G61.0	0.0	0.0	0.0	0.0	0.0					
G62.0	0.0	0.0	0.0	0.0	0.0					
G63.0	0.0	0.0	0.0	0.0	0.0					
G64.0	0.0	0.0	0.0	0.0	0.0					
G65.0	0.0	0.0	0.0	0.0	0.0					
G66.0	0.0	0.0	0.0	0.0	0.0					
G67.0	0.0	0.0	0.0	0.0	0.0					
G68.0	0.0	0.0	0.0	0.0	0.0					
G69.0	0.0	0.0	0.0	0.0	0.0					
G70.0	0.0	0.0	0.0	0.0	0.0					
G71.0	0.0	0.0	0.0	0.0	0.0					
G72.0	0.0	0.0	0.0	0.0	0.0					
G73.0	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 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	0.0	0.0	0.0	0.0	0.0					
G75.0	0.0	0.0	0.0	0.0	0.0					
G76.0	0.0	0.0	0.0	0.0	0.0					
G77.0	0.0	0.0	0.0	0.0	0.0					
G78.0	0.0	0.0	0.0	0.0	0.0					
G79.0	0.0	0.0	0.0	0.0	0.0					
G80.0	0.0	0.0	0.0	0.0	0.0					
G81.0	0.0	0.0	0.0	0.0	0.0					
G82.0	0.0	0.0	0.0	0.0	0.0					
G83.0	0.0	0.0	0.0	0.0	0.0					
G84.0	0.0	0.0	0.0	0.0	0.0					
G85.0	0.0	0.0	0.0	0.0	0.0					
G86.0	0.0	0.0	0.0	0.0	0.0					
G87.0	0.0	0.0	0.0	0.0	0.0					
G88.0	0.0	0.0	0.0	0.0	0.0					
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	0.0	0.0	0.0					
G123.0	0.0	0.0	0.0	0.0	0.0					
G124.0	0.0	0.0	0.0	0.0	0.0					
G125.0	0.0	0.0	0.0	0.0	0.0					
G126.0	0.0	0.0	0.0	0.0	0.0					
G127.0	0.0	0.0	0.0	0.0	0.0					
G128.0	0.0	0.0	0.0	0.0	0.0					
G129.0	0.0	0.0	0.0	0.0	0.0					
G130.0	0.0	0.0	0.0	0.0	0.0					
G131.0	0.0	0.0	0.0	0.0	0.0					
G132.0	0.0	0.0	0.0	0.0	0.0					
G133.0	0.0	0.0	0.0	0.0	0.0					
G134.0	0.0	0.0	0.0	0.0	0.0					
G135.0	0.0	0.0	0.0	0.0	0.0					
G136.0	0.0	0.0	0.0	0.0	0.0					
G137.0	0.0	0.0	0.0	0.0	0.0					
G138.0	0.0	0.0	0.0	0.0	0.0					
G139.0	0.0	0.0	0.0	0.0	0.0					
G140.0	0.0	0.0	0.0	0.0	0.0					
G141.0	0.0	0.0	0.0	0.0	0.0					
G142.0	0.0	0.0	0.0	0.0	0.0					
G143.0	0.0	0.0	0.0	0.0	0.0					
G144.0	0.0	0.0	0.0	0.0	0.0					
G145.0	0.0	0.0	0.0	0.0	0.0					
G146.0	0.0	0.0	0.0	0.0	0.0					
G147.0	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 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	0.0	0.0	0.0	0.0	0.0					
G149.0	0.0	0.0	0.0	0.0	0.0					
G150.0	0.0	0.0	0.0	0.0	0.0					
G151.0	0.0	0.0	0.0	0.0	0.0					
G152.0	0.0	0.0	0.0	0.0	0.0					
G153.0	5.9	0.0	0.0	0.0	5.9					
G154.0	5.8	0.0	0.0	0.0	5.8					
G155.0	6.0	0.0	0.0	0.0	6.0					
G156.0	6.5	0.0	0.0	0.0	6.5					
G157.0	6.6	0.0	0.0	0.0	6.6					
G158.0	6.8	0.0	0.0	0.0	6.8					
G159.0	7.0	0.0	0.0	0.0	7.0					
G160.0	6.9	0.0	0.0	0.0	6.9					
G161.0	7.0	0.0	0.0	0.0	7.0					
G162.0	6.8	0.0	0.0	0.0	6.8					
G163.0	6.5	0.0	0.0	0.0	6.5					
G164.0	6.5	0.0	0.0	0.0	6.5					
G165.0	6.3	0.0	0.0	0.0	6.3					
G166.0	6.2	0.0	0.0	0.0	6.2					
G167.0	6.3	0.0	0.0	0.0	6.3					
G168.0	6.2	0.0	0.0	0.0	6.2					
G169.0	6.3	0.0	0.0	0.0	6.3					
G170.0	5.9	0.0	0.0	0.0	5.9					
G171.0	5.6	0.0	0.0	0.0	5.6					
G172.0	5.6	0.0	0.0	0.0	5.6					
G173.0	5.8	0.0	0.0	0.0	5.8					
G174.0	0.0	0.0	0.0	0.0	0.0					
G175.0	0.0	0.0	0.0	0.0	0.0					
G176.0	0.0	0.0	0.0	0.0	0.0					
G177.0	0.0	0.0	0.0	0.0	0.0					
G178.0	0.0	0.0	0.0	0.0	0.0					
G179.0	0.0	0.0	0.0	0.0	0.0					
G180.0	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:



LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	0.00
L 0-180(75) av	0.00
L 0-180(85) av	0.00
L 90-270(65) av	0.00
L 90-270(75) av	0.00
L 90-270(85) av	0.00
L 45(65) av	0.00
L 45(75) av	0.00
L 45(85) av	0.00

Standard: GB/T 29293-2012