



IDEA

/SHHH (06.78.1122.__)

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Luminaire Description: SHHH X1 LUZ 22°
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: 12.84 W

Photometric Results

CIE Class: Direct
Measurement Flux: 800 lm
Downward Ratio: 100%
Horizontal Diffuse Angle(50%): H20.7
Vertical Diffuse Angle(50%): V20.8
Luminaire Efficacy Rating (LER): 62.35
Max. Intensity: 2923.56 cd
S/MH(C0/C180): 0.35

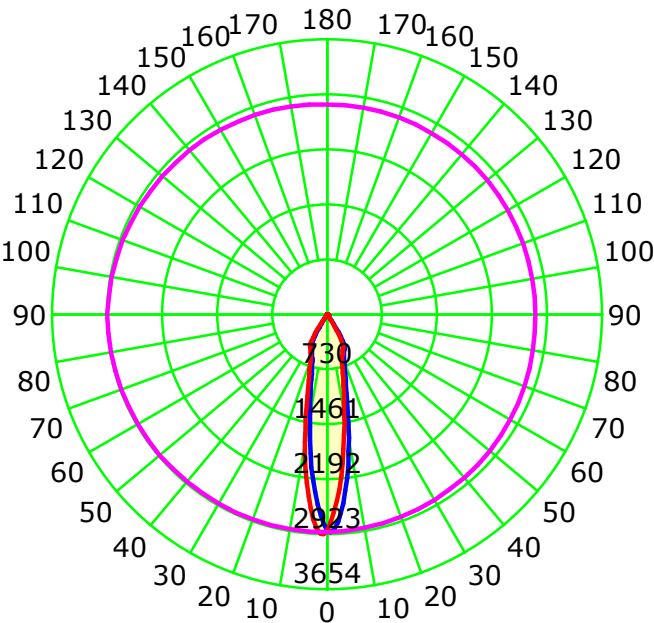
Total Rated Lamp Lumens: 800.0 lm
Efficiency: 100%
Upward Ratio: 0%

C0r0 Intensity: 2876.8 cd
Pos of Max. Intensity: H270 V1
S/MH(C90/C270): 0.35

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 20.6°

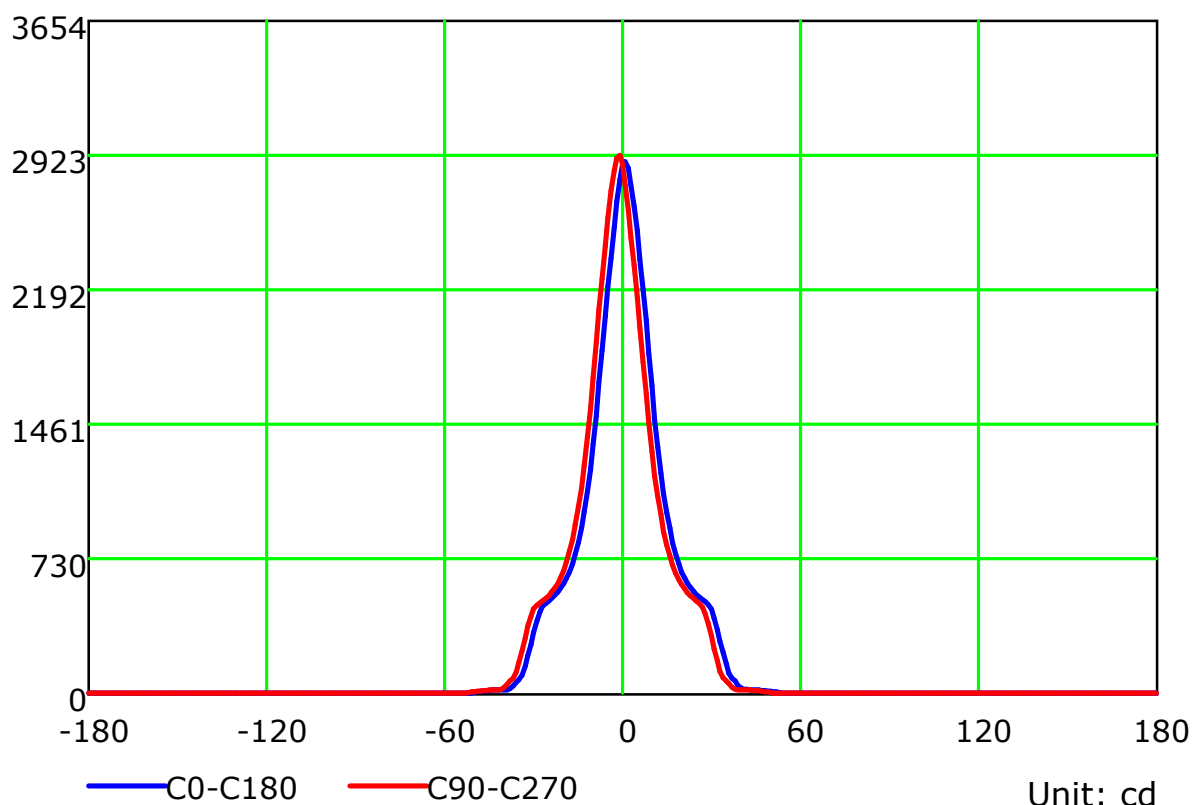
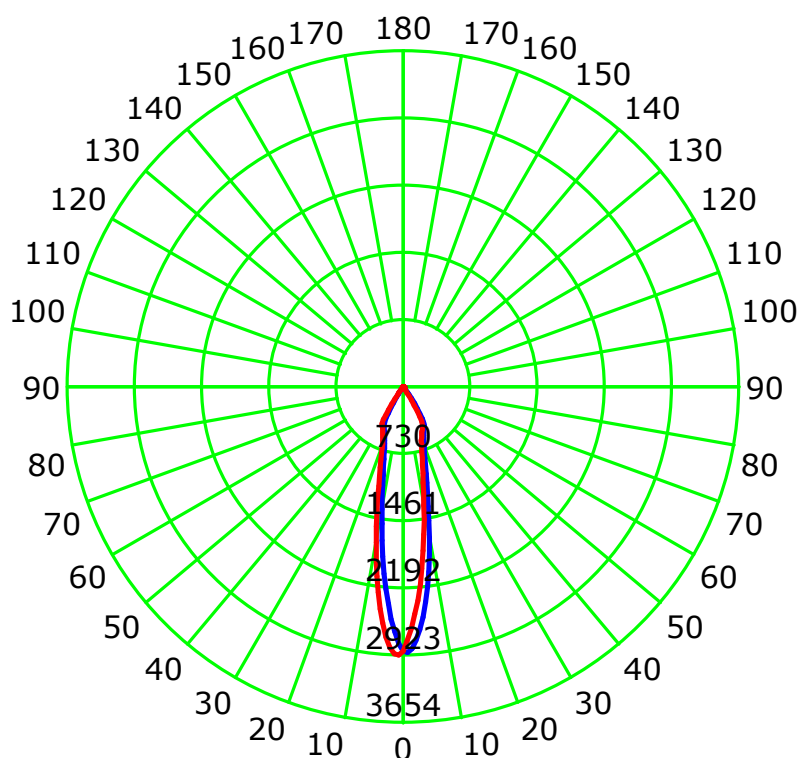
C0-C180 C90-C270 G1

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:



Luminous Intensity Distribution Curve



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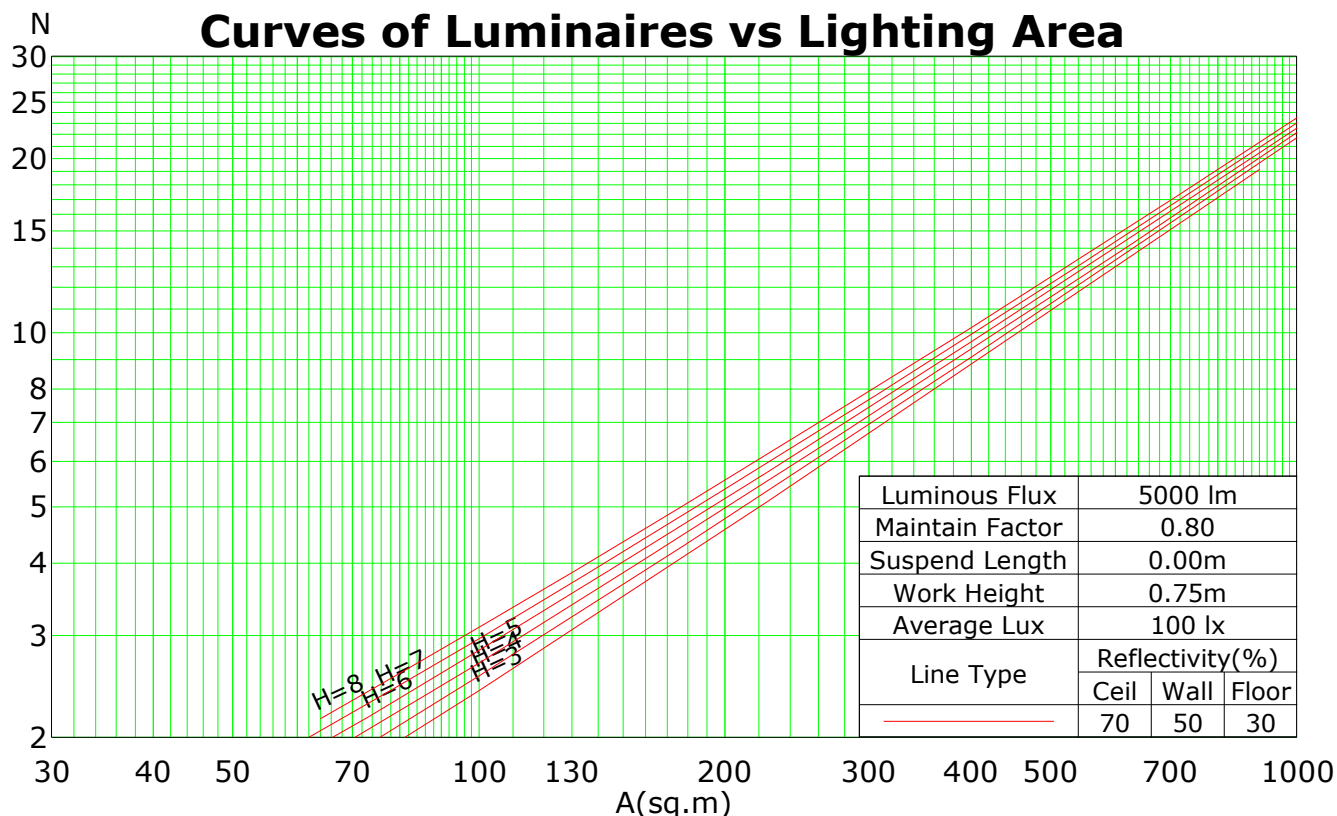
Coefficients Of Utilization - Zonal Cavity Method

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	1.00	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	0.91	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	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.82
5	0.98	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	0.79
6	0.94	0.86	0.82	0.78	0.93	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	0.63

Spacing Criteria (0-180): 0.35

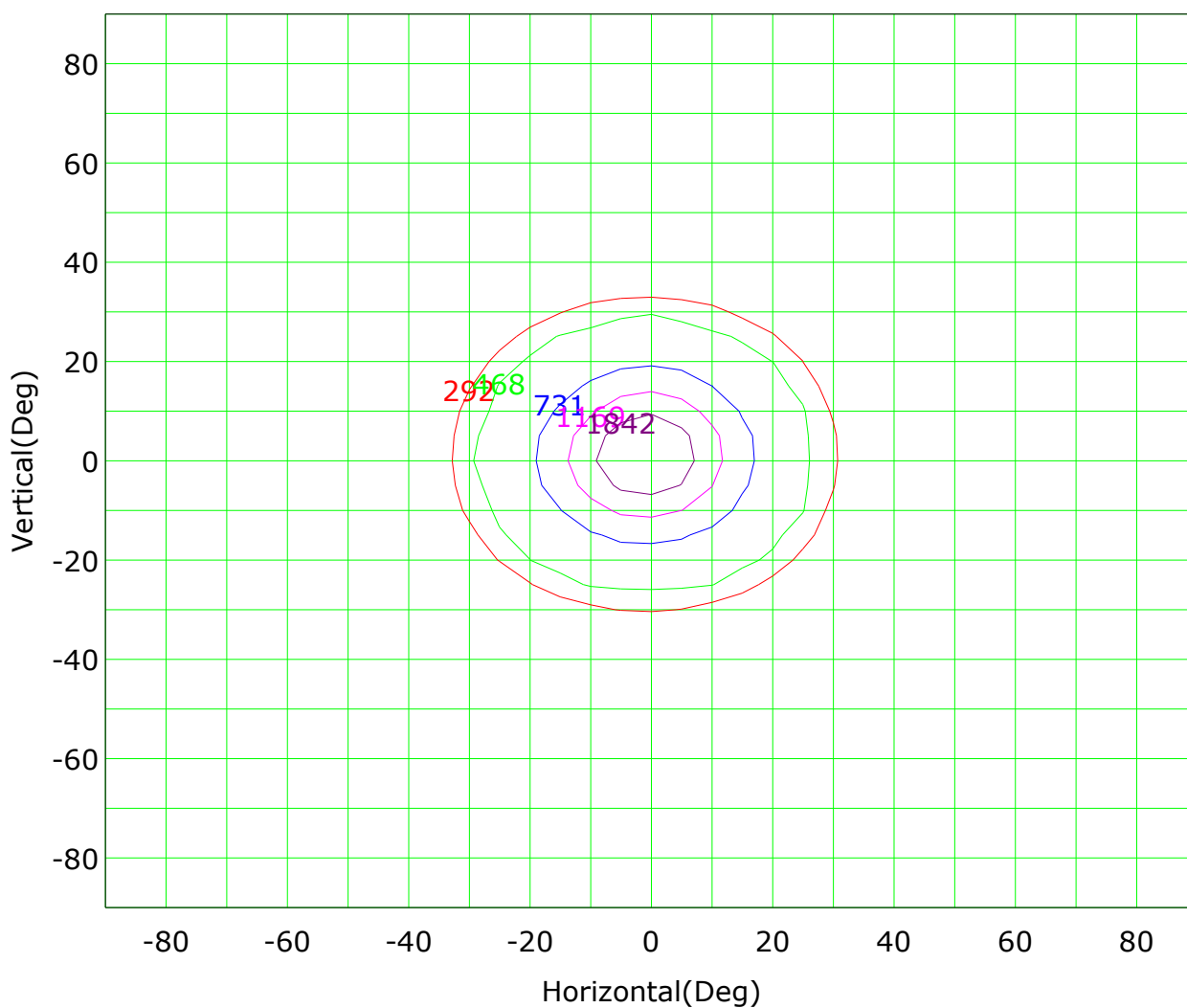
Spacing Criteria (90-270): 0.35

Spacing Criteria (Diagonal): 0.41



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**Isocandela (rectangle)**

Imax (100%): 2924 cd

(10%): 292 cd	(16%): 468 cd
(25%): 731 cd	(40%): 1169 cd
(63%): 1842 cd	(100%): 2924 cd

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Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

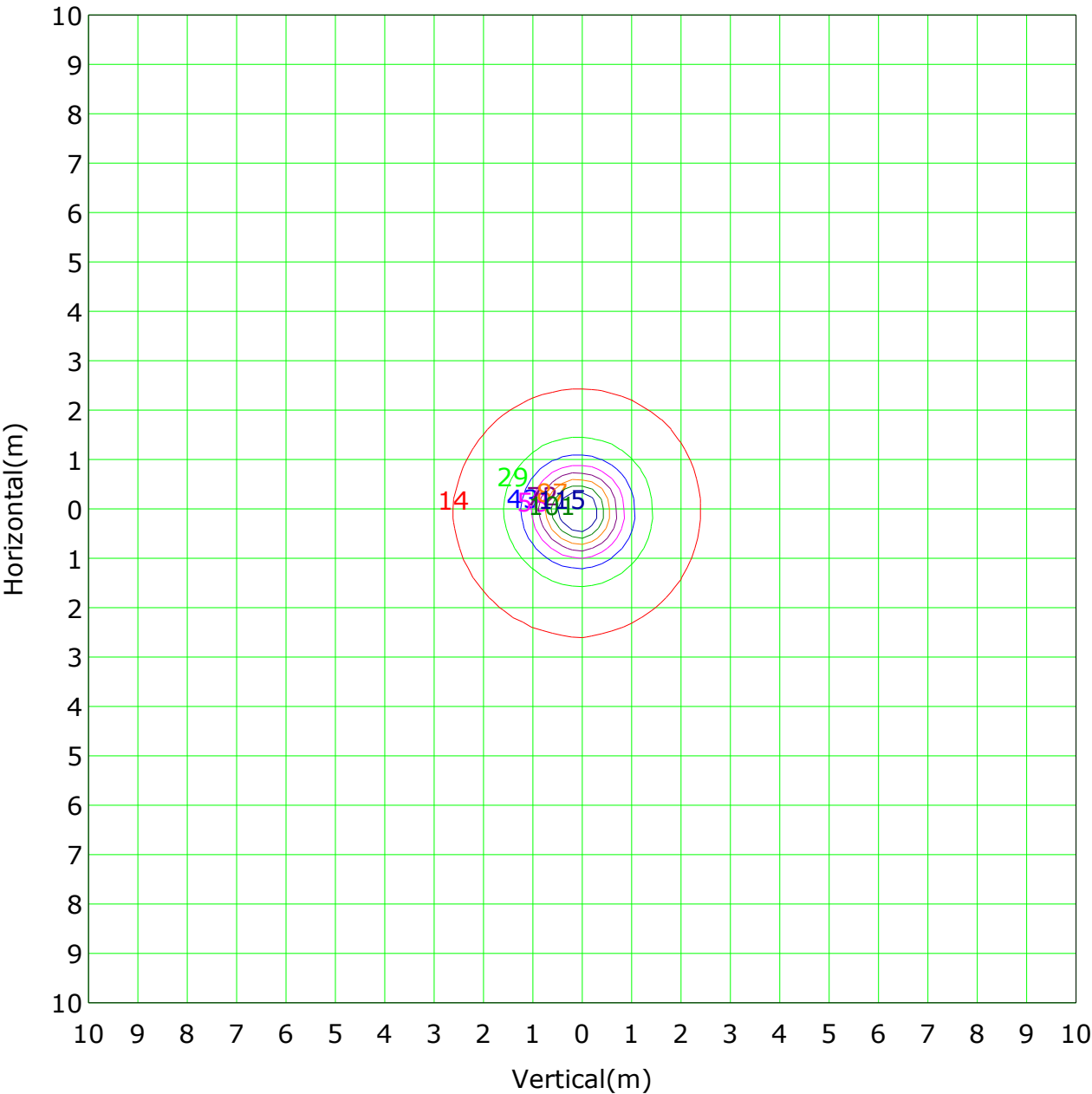
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:



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IsoLux Plot



Mounting Height: 4.5m		Max Lux(100%): 144.3 lx	
(10%):	14.4 lx	(20%):	28.9 lx
(30%):	43.3 lx	(40%):	57.7 lx
(50%):	72.2 lx	(60%):	86.6 lx
(70%):	101.0 lx	(80%):	115.4 lx

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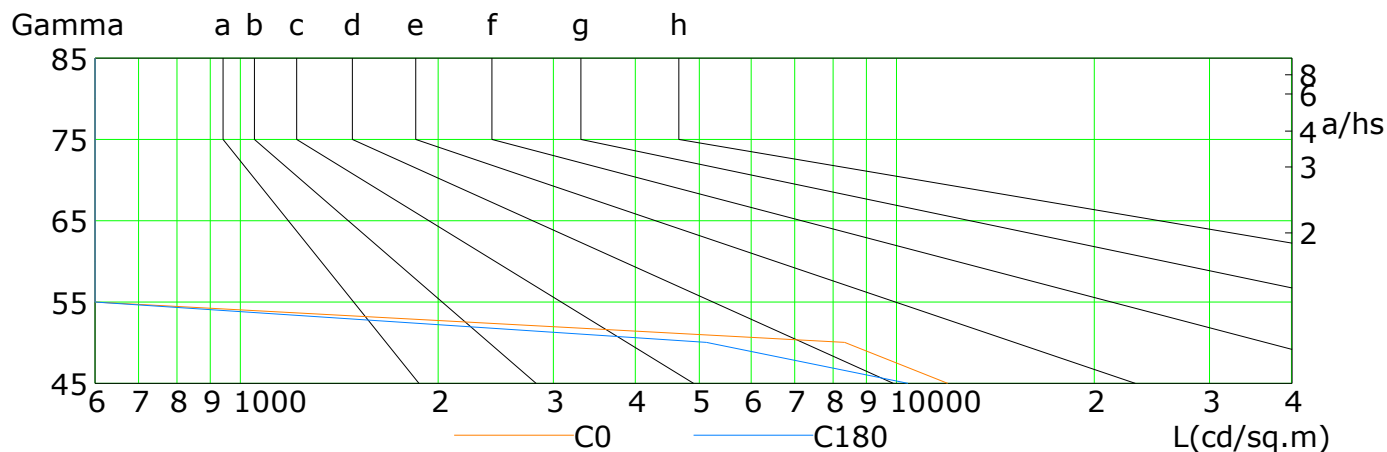
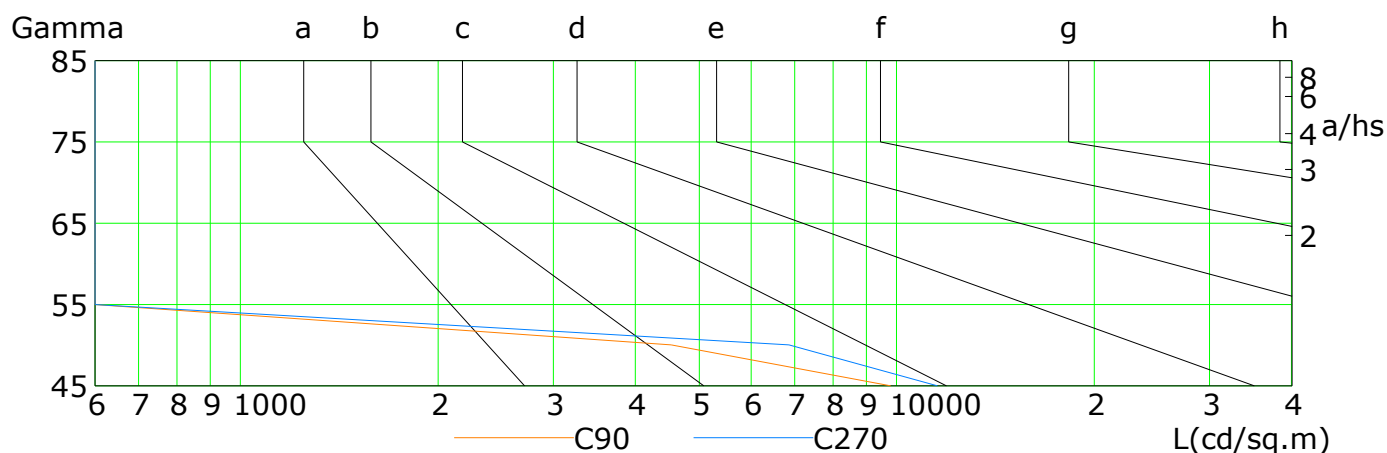
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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



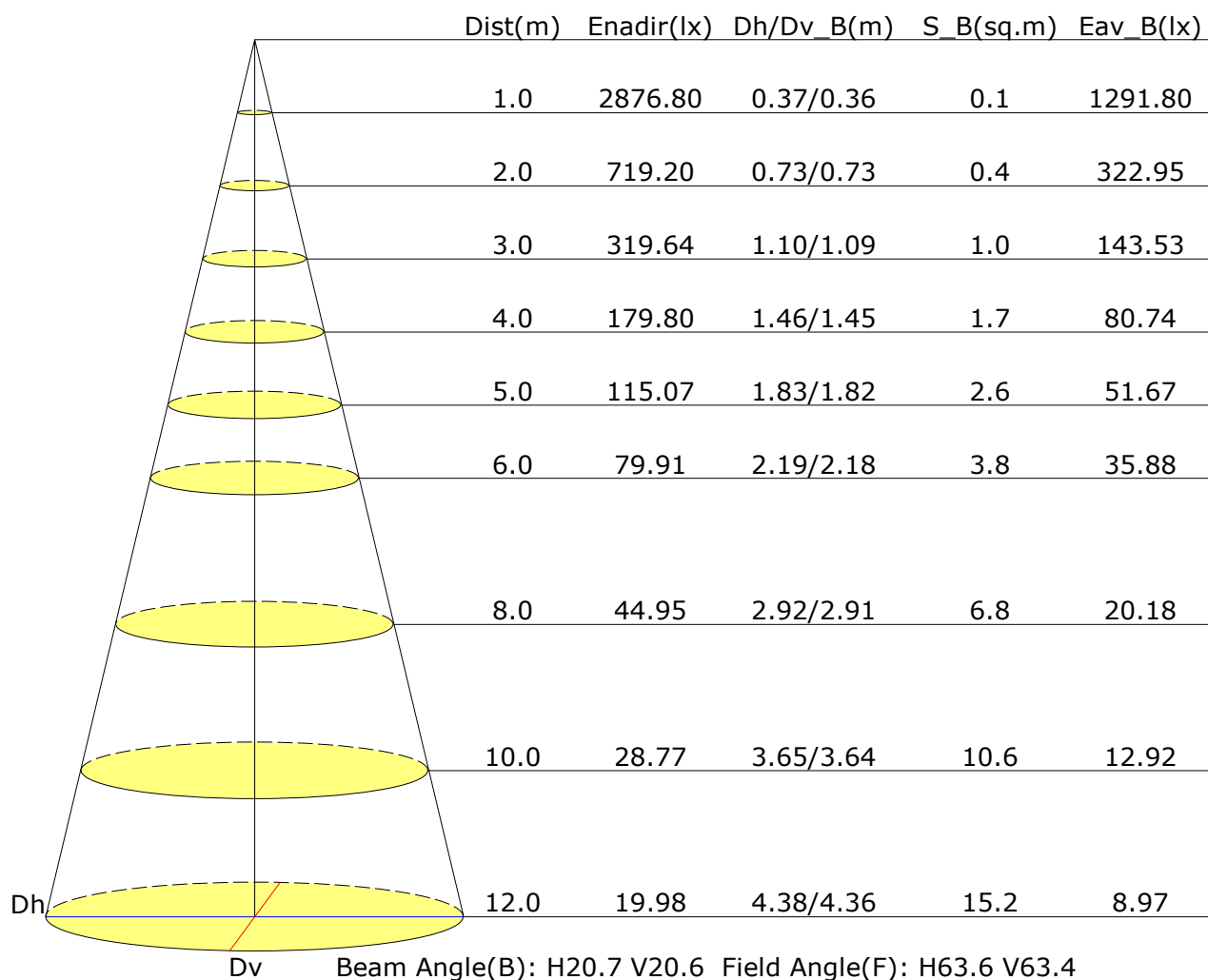
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	11962	8336	0	0	0	0	0	0	0
C90	9804	4538	0	0	0	0	0	0	0
C180	10407	5126	0	0	0	0	0	0	0
C270	11552	6856	0	0	0	0	0	0	0

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 Inspector:



Illuminance at a Distance

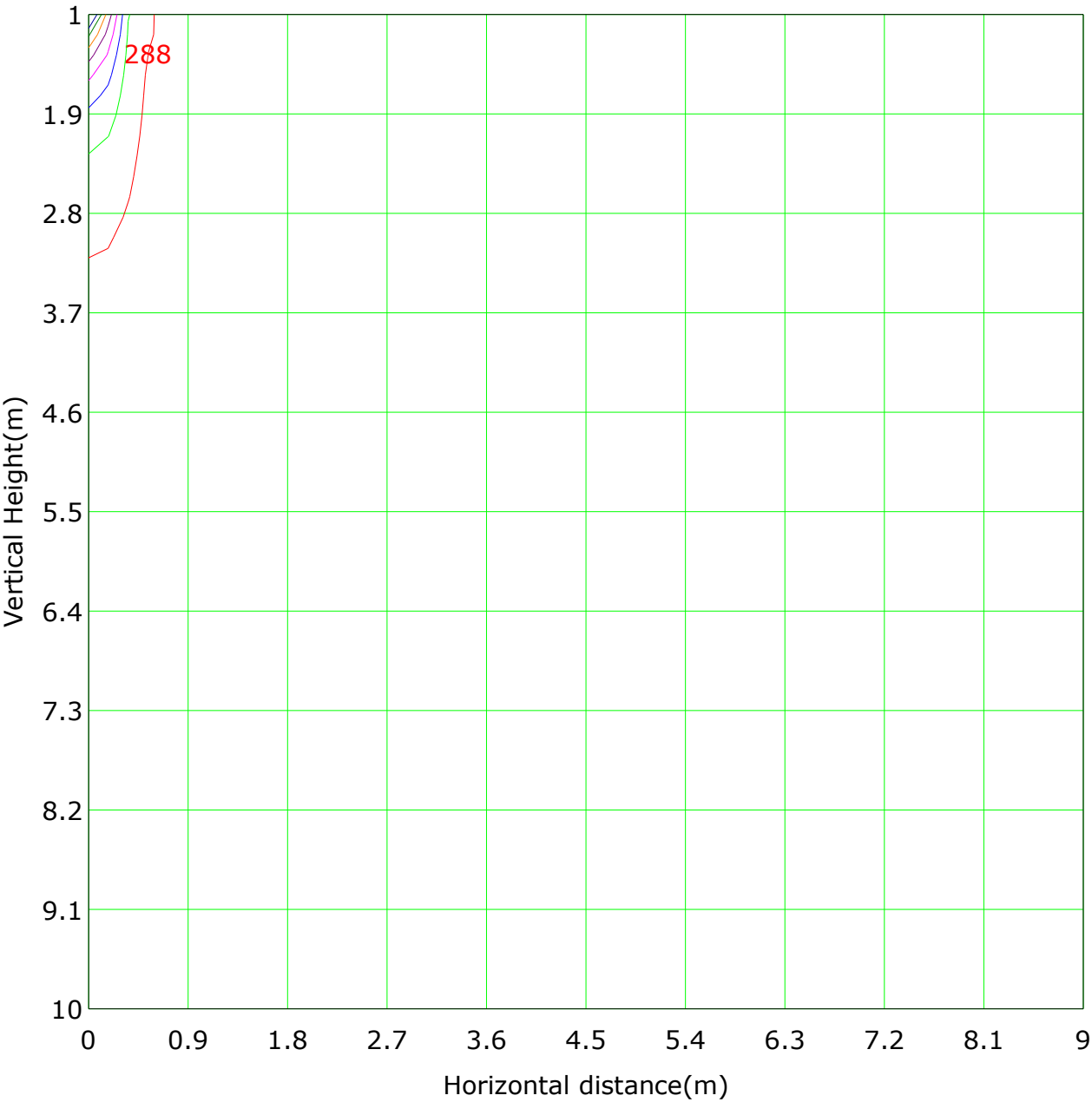


C Plane (°):0.0-360.0: 90.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator:

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: 2876.8 lx

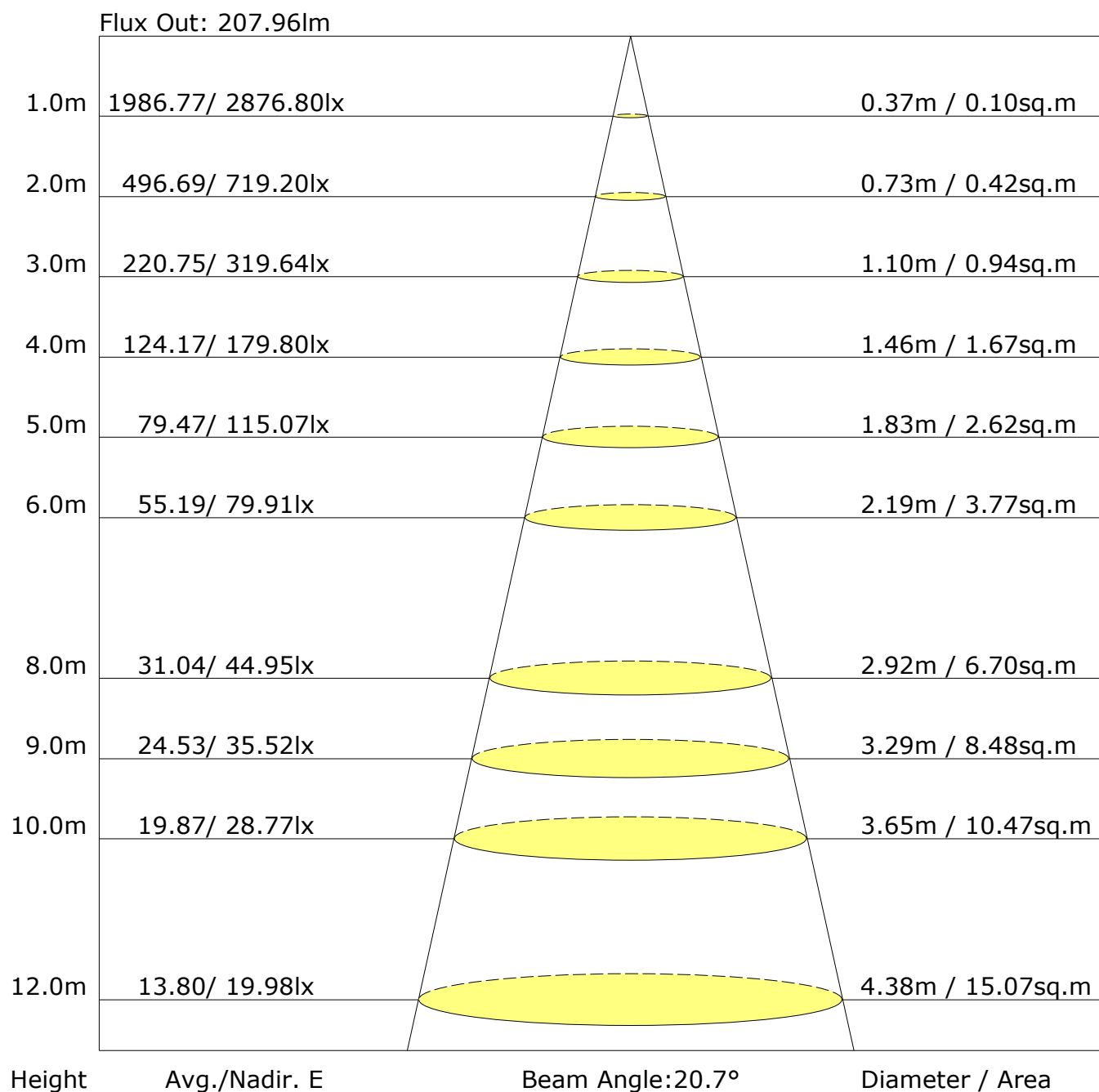
(10%): 287.7 lx	(20%): 575.4 lx
(30%): 863.0 lx	(40%): 1150.7 lx
(50%): 1438.4 lx	(60%): 1726.1 lx
(70%): 2013.8 lx	(80%): 2301.4 lx

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Test Type: TYPE C
Temperature: 26
Operator:

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Test Device: GPM-1800B
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Inspector:



The Average Illuminance Effective Figure



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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	18.1	18.8	18.3	19.0	19.2	17.1	17.8	17.4	18.0	18.2
3H	17.9	18.6	18.2	18.8	19.0	17.0	17.6	17.3	17.9	18.1
4H	17.9	18.5	18.2	18.7	19.0	16.9	17.5	17.2	17.8	18.0
6H	17.8	18.3	18.1	18.6	18.9	16.8	17.4	17.1	17.7	18.0
8H	17.7	18.3	18.1	18.6	18.9	16.8	17.3	17.1	17.6	17.9
12H	17.7	18.2	18.0	18.5	18.8	16.7	17.3	17.1	17.6	17.9
X=4H Y=2H	17.9	18.5	18.2	18.7	19.0	16.9	17.5	17.2	17.8	18.0
3H	17.7	18.2	18.1	18.5	18.8	16.7	17.3	17.1	17.6	17.9
4H	17.6	18.1	18.0	18.4	18.8	16.7	17.1	17.0	17.5	17.8
6H	17.5	17.9	17.9	18.3	18.7	16.6	17.0	17.0	17.4	17.7
8H	17.5	17.9	17.9	18.2	18.7	16.5	16.9	17.0	17.3	17.7
12H	17.4	17.8	17.9	18.2	18.6	16.5	16.8	16.9	17.2	17.7
X=8H Y=4H	17.5	17.9	17.9	18.2	18.7	16.5	16.9	17.0	17.3	17.7
6H	17.4	17.7	17.8	18.1	18.6	16.4	16.7	16.9	17.2	17.6
8H	17.3	17.6	17.8	18.1	18.5	16.4	16.6	16.9	17.1	17.6
12H	17.3	17.5	17.8	18.0	18.5	16.3	16.6	16.8	17.0	17.5
X=12H Y=4H	17.4	17.8	17.9	18.2	18.6	16.5	16.8	16.9	17.2	17.7
6H	17.3	17.6	17.8	18.1	18.5	16.4	16.6	16.9	17.1	17.6
8H	17.3	17.5	17.8	18.0	18.5	16.3	16.6	16.8	17.0	17.5
Variations with the observer position at spacings:										
S=1.0H	+6.7/-1.\$					+6.7/-1.\$				
S=1.5H	+9.5/-1.\$					+9.5/-1.\$				
S=2.0H	+11.5/-1.\$					+11.5/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 800lm ($8\log(F/F_0) = -0.8$).

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 Inspector:



Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2860.2	2.7	2.7	0.34	0.34
1.0-2.0	2805.4	8.1	10.8	1.01	1.35
2.0-3.0	2710.7	13.0	23.8	1.62	2.97
3.0-4.0	2586.9	17.3	41.1	2.16	5.13
4.0-5.0	2443.5	21.0	62.1	2.63	7.76
5.0-6.0	2287.0	24.0	86.1	3.00	10.77
6.0-7.0	2118.4	26.3	112.4	3.29	14.05
7.0-8.0	1944.9	27.8	140.3	3.48	17.53
8.0-9.0	1772.0	28.7	169.0	3.59	21.13
9.0-10.0	1599.2	28.9	197.9	3.62	24.74
10.0-11.0	1436.2	28.7	226.6	3.59	28.33
11.0-12.0	1290.7	28.2	254.9	3.53	31.86
12.0-13.0	1160.6	27.5	282.4	3.44	35.30
13.0-14.0	1046.1	26.8	309.2	3.35	38.65
14.0-15.0	950.0	26.1	335.3	3.26	41.91
15.0-16.0	867.6	25.4	360.7	3.18	45.09
16.0-17.0	797.1	24.8	385.5	3.10	48.19
17.0-18.0	737.7	24.3	409.8	3.04	51.23
18.0-19.0	688.1	23.9	433.8	2.99	54.23
19.0-20.0	647.7	23.7	457.5	2.96	57.19
20.0-21.0	614.7	23.6	481.1	2.95	60.14
21.0-22.0	587.0	23.6	504.7	2.95	63.09
22.0-23.0	563.6	23.7	528.3	2.96	66.05
23.0-24.0	544.3	23.8	552.1	2.98	69.02
24.0-25.0	527.5	24.0	576.1	3.00	72.02
25.0-26.0	511.9	24.2	600.3	3.02	75.04
26.0-27.0	497.1	24.3	624.6	3.04	78.08
27.0-28.0	478.2	24.2	648.8	3.03	81.11
28.0-29.0	449.4	23.5	672.4	2.94	84.05
29.0-30.0	411.1	22.2	694.6	2.78	86.82
30.0-31.0	362.0	20.1	714.7	2.52	89.34
31.0-32.0	304.3	17.4	732.1	2.18	91.52
32.0-33.0	244.2	14.4	746.5	1.80	93.32
33.0-34.0	187.3	11.3	757.9	1.42	94.74
34.0-35.0	139.6	8.7	766.5	1.08	95.82
35.0-36.0	101.8	6.5	773.0	0.81	96.63

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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	72.4	4.7	777.7	0.59	97.22
37.0-38.0	52.6	3.5	781.2	0.44	97.66
38.0-39.0	40.1	2.7	784.0	0.34	98.00
39.0-40.0	30.0	2.1	786.1	0.26	98.26
40.0-41.0	23.1	1.6	787.7	0.21	98.47
41.0-42.0	20.4	1.5	789.2	0.18	98.66
42.0-43.0	19.5	1.4	790.6	0.18	98.84
43.0-44.0	18.6	1.4	792.0	0.18	99.01
44.0-45.0	17.6	1.4	793.4	0.17	99.18
45.0-46.0	16.5	1.3	794.7	0.16	99.34
46.0-47.0	15.1	1.2	795.9	0.15	99.49
47.0-48.0	13.5	1.1	797.0	0.14	99.63
48.0-49.0	11.7	1.0	797.9	0.12	99.75
49.0-50.0	9.8	0.8	798.8	0.10	99.85
50.0-51.0	6.6	0.6	799.3	0.07	99.92
51.0-52.0	3.9	0.3	799.7	0.04	99.96
52.0-53.0	2.6	0.2	799.9	0.03	99.99
53.0-54.0	0.8	0.1	800.0	0.01	100.00
54.0-55.0	0.0	0.0	800.0	0.00	100.00
55.0-56.0	0.0	0.0	800.0	0.00	100.00
56.0-57.0	0.0	0.0	800.0	0.00	100.00
57.0-58.0	0.0	0.0	800.0	0.00	100.00
58.0-59.0	0.0	0.0	800.0	0.00	100.00
59.0-60.0	0.0	0.0	800.0	0.00	100.00
60.0-61.0	0.0	0.0	800.0	0.00	100.00
61.0-62.0	0.0	0.0	800.0	0.00	100.00
62.0-63.0	0.0	0.0	800.0	0.00	100.00
63.0-64.0	0.0	0.0	800.0	0.00	100.00
64.0-65.0	0.0	0.0	800.0	0.00	100.00
65.0-66.0	0.0	0.0	800.0	0.00	100.00
66.0-67.0	0.0	0.0	800.0	0.00	100.00
67.0-68.0	0.0	0.0	800.0	0.00	100.00
68.0-69.0	0.0	0.0	800.0	0.00	100.00
69.0-70.0	0.0	0.0	800.0	0.00	100.00
70.0-71.0	0.0	0.0	800.0	0.00	100.00
71.0-72.0	0.0	0.0	800.0	0.00	100.00

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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	800.0	0.00	100.00
73.0-74.0	0.0	0.0	800.0	0.00	100.00
74.0-75.0	0.0	0.0	800.0	0.00	100.00
75.0-76.0	0.0	0.0	800.0	0.00	100.00
76.0-77.0	0.0	0.0	800.0	0.00	100.00
77.0-78.0	0.0	0.0	800.0	0.00	100.00
78.0-79.0	0.0	0.0	800.0	0.00	100.00
79.0-80.0	0.0	0.0	800.0	0.00	100.00
80.0-81.0	0.0	0.0	800.0	0.00	100.00
81.0-82.0	0.0	0.0	800.0	0.00	100.00
82.0-83.0	0.0	0.0	800.0	0.00	100.00
83.0-84.0	0.0	0.0	800.0	0.00	100.00
84.0-85.0	0.0	0.0	800.0	0.00	100.00
85.0-86.0	0.0	0.0	800.0	0.00	100.00
86.0-87.0	0.0	0.0	800.0	0.00	100.00
87.0-88.0	0.0	0.0	800.0	0.00	100.00
88.0-89.0	0.0	0.0	800.0	0.00	100.00
89.0-90.0	0.0	0.0	800.0	0.00	100.00
90.0-91.0	0.0	0.0	800.0	0.00	100.00
91.0-92.0	0.0	0.0	800.0	0.00	100.00
92.0-93.0	0.0	0.0	800.0	0.00	100.00
93.0-94.0	0.0	0.0	800.0	0.00	100.00
94.0-95.0	0.0	0.0	800.0	0.00	100.00
95.0-96.0	0.0	0.0	800.0	0.00	100.00
96.0-97.0	0.0	0.0	800.0	0.00	100.00
97.0-98.0	0.0	0.0	800.0	0.00	100.00
98.0-99.0	0.0	0.0	800.0	0.00	100.00
99.0-100.0	0.0	0.0	800.0	0.00	100.00
100.0-101.0	0.0	0.0	800.0	0.00	100.00
101.0-102.0	0.0	0.0	800.0	0.00	100.00
102.0-103.0	0.0	0.0	800.0	0.00	100.00
103.0-104.0	0.0	0.0	800.0	0.00	100.00
104.0-105.0	0.0	0.0	800.0	0.00	100.00
105.0-106.0	0.0	0.0	800.0	0.00	100.00
106.0-107.0	0.0	0.0	800.0	0.00	100.00
107.0-108.0	0.0	0.0	800.0	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:



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	800.0	0.00	100.00
109.0-110.0	0.0	0.0	800.0	0.00	100.00
110.0-111.0	0.0	0.0	800.0	0.00	100.00
111.0-112.0	0.0	0.0	800.0	0.00	100.00
112.0-113.0	0.0	0.0	800.0	0.00	100.00
113.0-114.0	0.0	0.0	800.0	0.00	100.00
114.0-115.0	0.0	0.0	800.0	0.00	100.00
115.0-116.0	0.0	0.0	800.0	0.00	100.00
116.0-117.0	0.0	0.0	800.0	0.00	100.00
117.0-118.0	0.0	0.0	800.0	0.00	100.00
118.0-119.0	0.0	0.0	800.0	0.00	100.00
119.0-120.0	0.0	0.0	800.0	0.00	100.00
120.0-121.0	0.0	0.0	800.0	0.00	100.00
121.0-122.0	0.0	0.0	800.0	0.00	100.00
122.0-123.0	0.0	0.0	800.0	0.00	100.00
123.0-124.0	0.0	0.0	800.0	0.00	100.00
124.0-125.0	0.0	0.0	800.0	0.00	100.00
125.0-126.0	0.0	0.0	800.0	0.00	100.00
126.0-127.0	0.0	0.0	800.0	0.00	100.00
127.0-128.0	0.0	0.0	800.0	0.00	100.00
128.0-129.0	0.0	0.0	800.0	0.00	100.00
129.0-130.0	0.0	0.0	800.0	0.00	100.00
130.0-131.0	0.0	0.0	800.0	0.00	100.00
131.0-132.0	0.0	0.0	800.0	0.00	100.00
132.0-133.0	0.0	0.0	800.0	0.00	100.00
133.0-134.0	0.0	0.0	800.0	0.00	100.00
134.0-135.0	0.0	0.0	800.0	0.00	100.00
135.0-136.0	0.0	0.0	800.0	0.00	100.00
136.0-137.0	0.0	0.0	800.0	0.00	100.00
137.0-138.0	0.0	0.0	800.0	0.00	100.00
138.0-139.0	0.0	0.0	800.0	0.00	100.00
139.0-140.0	0.0	0.0	800.0	0.00	100.00
140.0-141.0	0.0	0.0	800.0	0.00	100.00
141.0-142.0	0.0	0.0	800.0	0.00	100.00
142.0-143.0	0.0	0.0	800.0	0.00	100.00
143.0-144.0	0.0	0.0	800.0	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:



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	0.0	0.0	800.0	0.00	100.00
145.0-146.0	0.0	0.0	800.0	0.00	100.00
146.0-147.0	0.0	0.0	800.0	0.00	100.00
147.0-148.0	0.0	0.0	800.0	0.00	100.00
148.0-149.0	0.0	0.0	800.0	0.00	100.00
149.0-150.0	0.0	0.0	800.0	0.00	100.00
150.0-151.0	0.0	0.0	800.0	0.00	100.00
151.0-152.0	0.0	0.0	800.0	0.00	100.00
152.0-153.0	0.0	0.0	800.0	0.00	100.00
153.0-154.0	0.0	0.0	800.0	0.00	100.00
154.0-155.0	0.0	0.0	800.0	0.00	100.00
155.0-156.0	0.0	0.0	800.0	0.00	100.00
156.0-157.0	0.0	0.0	800.0	0.00	100.00
157.0-158.0	0.0	0.0	800.0	0.00	100.00
158.0-159.0	0.0	0.0	800.0	0.00	100.00
159.0-160.0	0.0	0.0	800.0	0.00	100.00
160.0-161.0	0.0	0.0	800.0	0.00	100.00
161.0-162.0	0.0	0.0	800.0	0.00	100.00
162.0-163.0	0.0	0.0	800.0	0.00	100.00
163.0-164.0	0.0	0.0	800.0	0.00	100.00
164.0-165.0	0.0	0.0	800.0	0.00	100.00
165.0-166.0	0.0	0.0	800.0	0.00	100.00
166.0-167.0	0.0	0.0	800.0	0.00	100.00
167.0-168.0	0.0	0.0	800.0	0.00	100.00
168.0-169.0	0.0	0.0	800.0	0.00	100.00
169.0-170.0	0.0	0.0	800.0	0.00	100.00
170.0-171.0	0.0	0.0	800.0	0.00	100.00
171.0-172.0	0.0	0.0	800.0	0.00	100.00
172.0-173.0	0.0	0.0	800.0	0.00	100.00
173.0-174.0	0.0	0.0	800.0	0.00	100.00
174.0-175.0	0.0	0.0	800.0	0.00	100.00
175.0-176.0	0.0	0.0	800.0	0.00	100.00
176.0-177.0	0.0	0.0	800.0	0.00	100.00
177.0-178.0	0.0	0.0	800.0	0.00	100.00
178.0-179.0	0.0	0.0	800.0	0.00	100.00
179.0-180.0	0.0	0.0	800.0	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:

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Zonal Lumen (Continue 5)

cone flux(90°): 793.40 lm

%lum = 99.2%

%lamp = 99.2%

cone flux(120°): 799.96 lm

%lum = 100.0%

%lamp = 100.0%

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

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	2876.8	2876.8	2876.8	2876.8	2876.8					
G1.0	2891.5	2764.0	2795.0	2923.6	2891.5					
G2.0	2854.0	2630.6	2674.5	2909.8	2854.0					
G3.0	2762.6	2481.3	2531.5	2840.9	2762.6					
G4.0	2648.6	2331.6	2366.6	2732.2	2648.6					
G5.0	2517.4	2156.7	2212.0	2582.8	2517.4					
G6.0	2357.3	1990.1	2048.3	2431.4	2357.3					
G7.0	2198.8	1801.1	1865.0	2254.8	2198.8					
G8.0	2031.7	1628.9	1692.8	2085.9	2031.7					
G9.0	1845.2	1471.8	1509.2	1910.5	1845.2					
G10.0	1670.9	1313.2	1353.9	1719.0	1670.9					
G11.0	1488.1	1181.9	1215.5	1546.7	1488.1					
G12.0	1336.8	1069.4	1096.1	1390.9	1336.8					
G13.0	1195.5	971.5	986.7	1237.9	1195.5					
G14.0	1082.4	879.1	898.7	1116.7	1082.4					
G15.0	984.1	807.2	818.3	1013.4	984.1					
G16.0	898.7	745.4	758.1	915.8	898.7					
G17.0	819.0	696.2	704.8	838.6	819.0					
G18.0	757.4	653.5	658.2	773.7	757.4					
G19.0	706.5	618.7	625.6	711.5	706.5					
G20.0	660.9	593.1	597.1	667.8	660.9					
G21.0	628.6	570.2	570.9	628.9	628.6					
G22.0	601.4	548.2	551.1	596.3	601.4					
G23.0	575.5	531.8	532.6	572.2	575.5					
G24.0	556.1	517.9	517.1	551.4	556.1					
G25.0	538.2	503.9	504.3	530.9	538.2					
G26.0	523.5	487.9	490.7	516.2	523.5					
G27.0	511.5	469.3	473.8	504.3	511.5					
G28.0	498.7	432.0	444.6	491.5	498.7					
G29.0	481.0	377.6	392.6	477.2	481.0					
G30.0	456.1	311.6	333.2	459.7	456.1					
G31.0	407.8	242.4	265.1	420.1	407.8					
G32.0	346.1	180.5	205.5	366.8	346.1					
G33.0	284.9	121.4	147.0	301.1	284.9					
G34.0	225.6	86.2	99.3	232.9	225.6					
G35.0	161.0	68.5	75.1	168.4	161.0					
G36.0	111.0	53.3	60.7	116.5	111.0					

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 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	82.6	32.6	38.9	83.5	82.6					
G38.0	67.5	21.2	26.3	67.8	67.5					
G39.0	45.0	20.7	20.4	51.8	45.0					
G40.0	29.6	20.3	20.4	31.7	29.6					
G41.0	21.6	19.7	19.9	21.3	21.6					
G42.0	21.2	18.9	19.5	20.6	21.2					
G43.0	19.9	17.9	18.2	19.7	19.9					
G44.0	19.7	16.7	17.7	18.9	19.7					
G45.0	18.7	15.3	16.2	18.0	18.7					
G46.0	17.8	14.2	14.5	17.0	17.8					
G47.0	16.7	12.3	13.2	15.3	16.7					
G48.0	15.2	10.3	11.4	13.6	15.2					
G49.0	13.7	8.3	9.3	12.0	13.7					
G50.0	11.8	6.4	7.3	9.7	11.8					
G51.0	9.7	0.0	0.0	7.9	9.7					
G52.0	8.0	0.0	0.0	5.9	8.0					
G53.0	6.7	0.0	0.0	0.0	6.7					
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:



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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	0.0	0.0	0.0	0.0	0.0					
G154.0	0.0	0.0	0.0	0.0	0.0					
G155.0	0.0	0.0	0.0	0.0	0.0					
G156.0	0.0	0.0	0.0	0.0	0.0					
G157.0	0.0	0.0	0.0	0.0	0.0					
G158.0	0.0	0.0	0.0	0.0	0.0					
G159.0	0.0	0.0	0.0	0.0	0.0					
G160.0	0.0	0.0	0.0	0.0	0.0					
G161.0	0.0	0.0	0.0	0.0	0.0					
G162.0	0.0	0.0	0.0	0.0	0.0					
G163.0	0.0	0.0	0.0	0.0	0.0					
G164.0	0.0	0.0	0.0	0.0	0.0					
G165.0	0.0	0.0	0.0	0.0	0.0					
G166.0	0.0	0.0	0.0	0.0	0.0					
G167.0	0.0	0.0	0.0	0.0	0.0					
G168.0	0.0	0.0	0.0	0.0	0.0					
G169.0	0.0	0.0	0.0	0.0	0.0					
G170.0	0.0	0.0	0.0	0.0	0.0					
G171.0	0.0	0.0	0.0	0.0	0.0					
G172.0	0.0	0.0	0.0	0.0	0.0					
G173.0	0.0	0.0	0.0	0.0	0.0					
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