



Luminaire Property

Luminaire Manufacturer: IDEA ILUMINACION

Luminaire Category:

Luminaire Description: SHHH MINI- 06.78.1218.__

Lamp Catalog:

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.125 A

Power Factor: 0.926

Lamp Description:

Lumens per Lamp:

Luminous Width (mm):

Voltage: 220.1 V

Power: 25.56 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1564.8 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H18.8

Vertical Diffuse Angle(50%): V18.5

Luminaire Efficacy Rating (LER): 61.27

Max. Intensity: 6078.32 cd

S/MH(C0/C180): 0.32

Total Rated Lamp Lumens: 1564.8 lm

Efficiency: 100%

Upward Ratio: 1%

C0r0 Intensity: 6078.32 cd

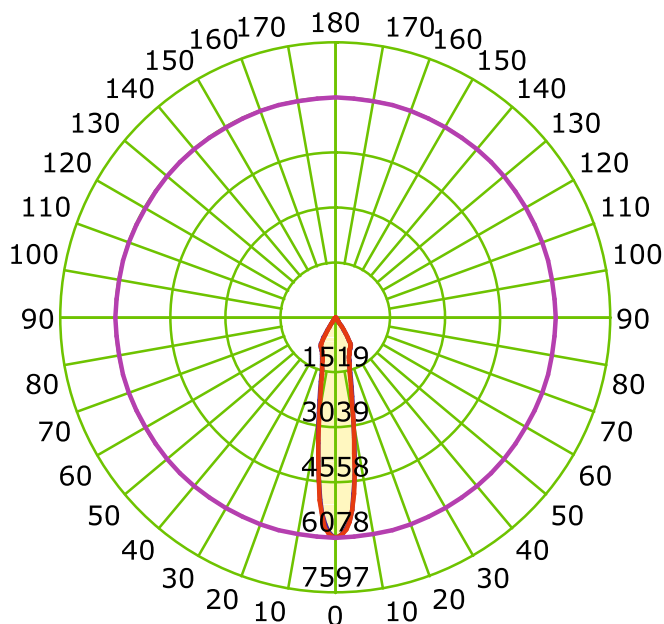
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.32

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 18.6°

— C0-C180 — C90-C270 — G0

C Plane (°): 0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Gamma Plane (°): 0.0-180.0: 1.0

Test Device: GPM-1800B

Distance: 8.508 m [K=1.0000]

Humidity: 65

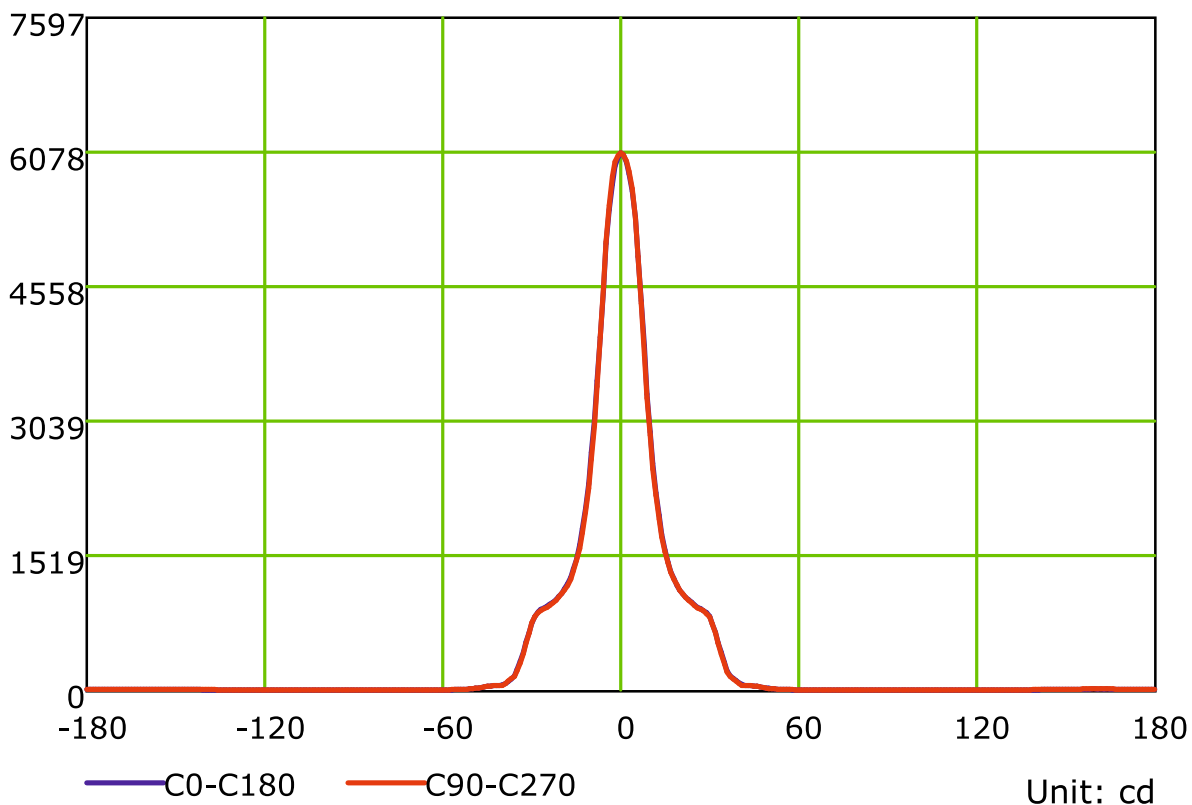
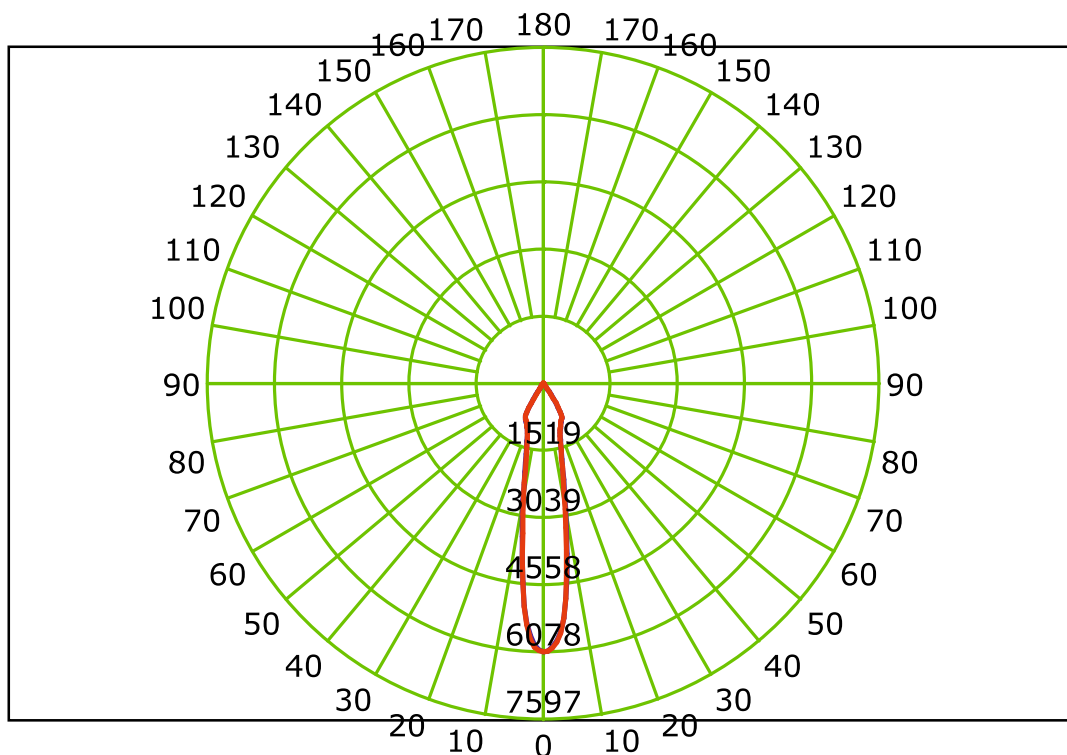
Inspector:



IDEA

/SHHH 2L (06.78.1218.__)

Luminous Intensity Distribution Curve



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Inspector:



Coefficients Of Utilization - Zonal Cavity Method

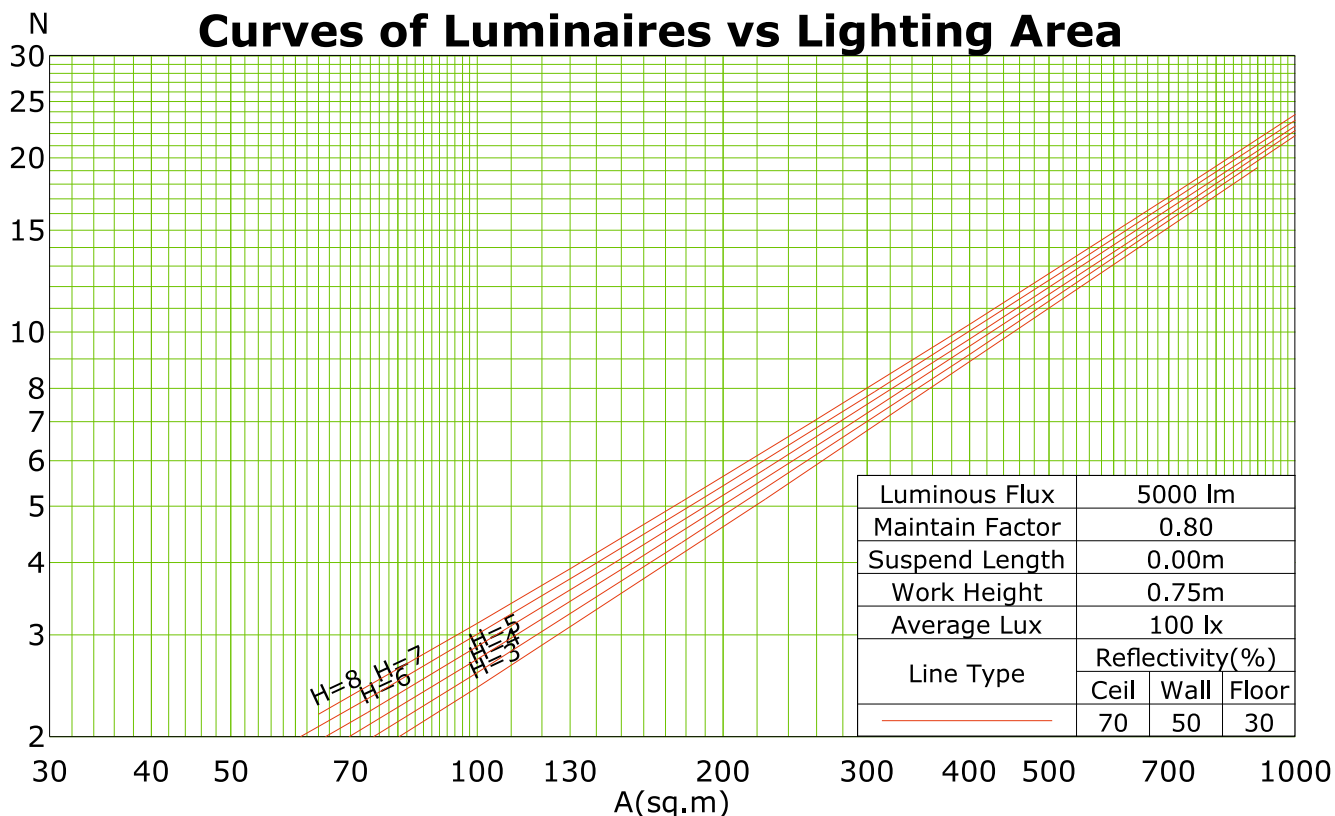
RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.14	1.12	1.09	1.07	1.11	1.09	1.07	1.06	1.05	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94
2	1.09	1.05	1.02	0.99	1.07	1.03	1.00	0.98	1.00	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.91	0.89
3	1.05	0.99	0.95	0.92	1.03	0.98	0.94	0.91	0.95	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.85
4	1.01	0.94	0.90	0.86	0.99	0.93	0.89	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.81
5	0.97	0.90	0.85	0.81	0.95	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.77
6	0.93	0.85	0.80	0.77	0.92	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.74
7	0.89	0.82	0.77	0.73	0.88	0.81	0.76	0.73	0.80	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.70
8	0.86	0.78	0.73	0.70	0.85	0.78	0.73	0.70	0.77	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.67
9	0.83	0.75	0.70	0.67	0.82	0.75	0.70	0.67	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.65
10	0.80	0.72	0.67	0.64	0.79	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62

Spacing Criteria (0-180): 0.32

Spacing Criteria (90-270): 0.32

Spacing Criteria (Diagonal): 0.36

Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.508 m [K=1.0000]

Humidity: 65

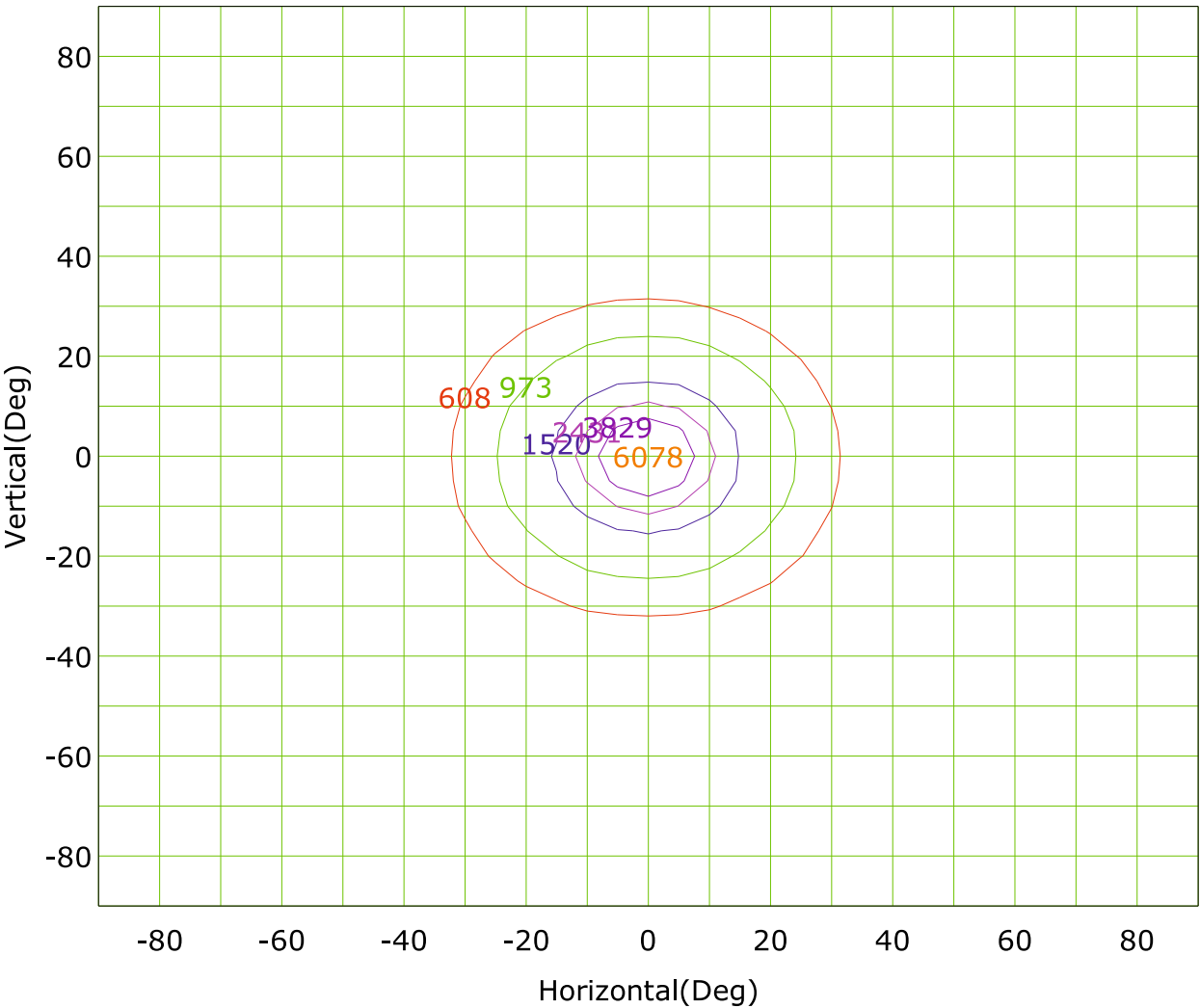
Inspector:



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Isocandela (rectangle)



Imax (100%): 6078 cd

- | | |
|-----------------|-----------------|
| (10%): 608 cd | (16%): 973 cd |
| (25%): 1520 cd | (40%): 2431 cd |
| (63%): 3829 cd | (100%): 6078 cd |

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
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Temperature: 26

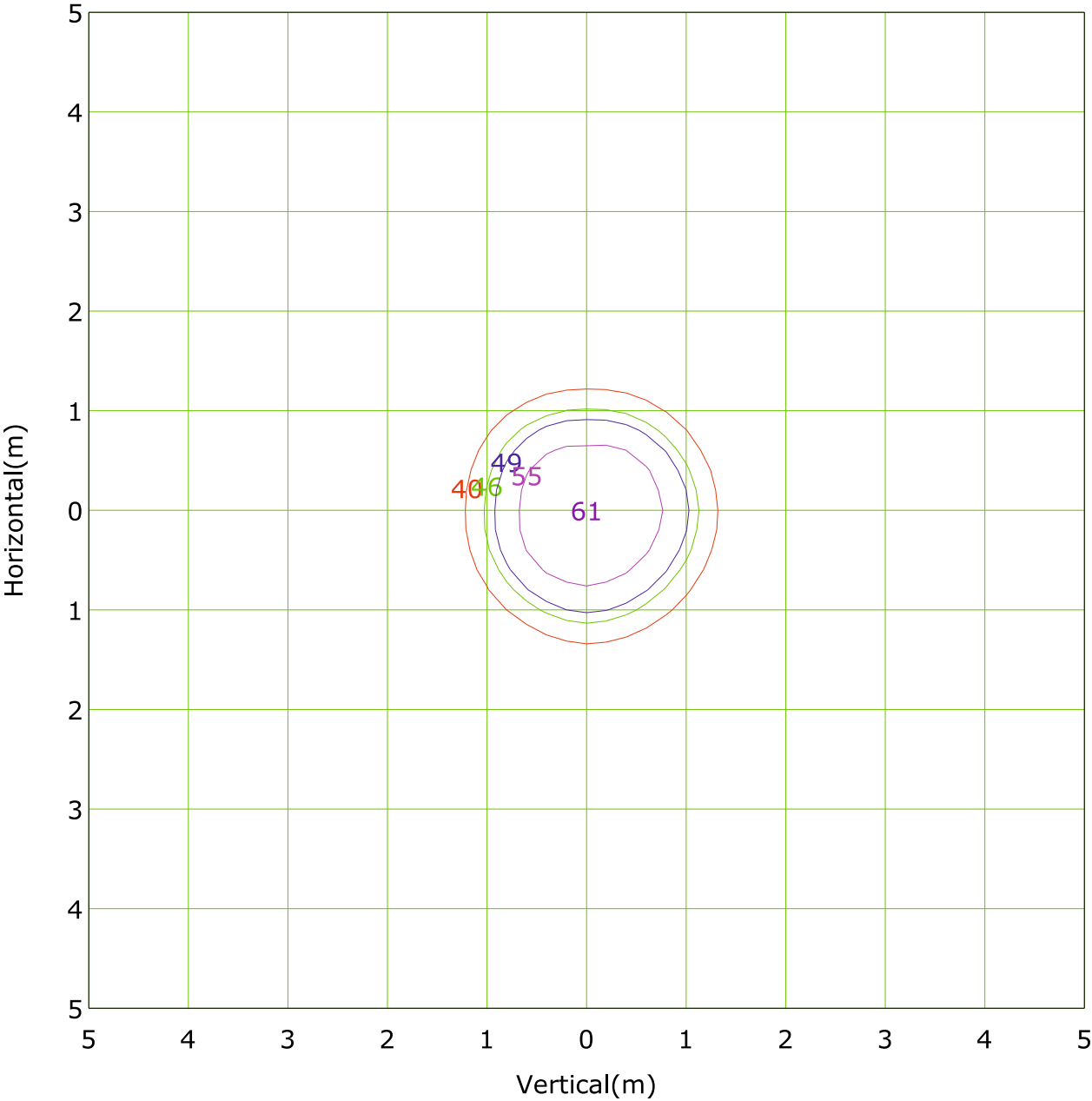
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:



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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 60.8 lx

(65%): 39.5 lx	(75%): 45.6 lx
(80%): 48.6 lx	(90%): 54.7 lx
(100%): 60.8 lx	

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Test Type: TYPE C
Temperature: 26

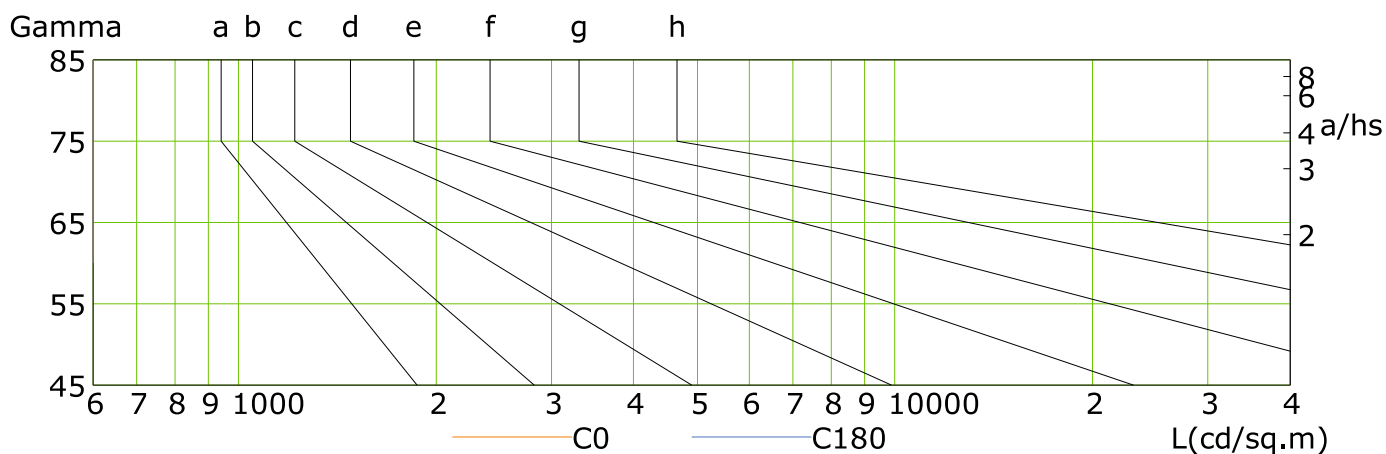
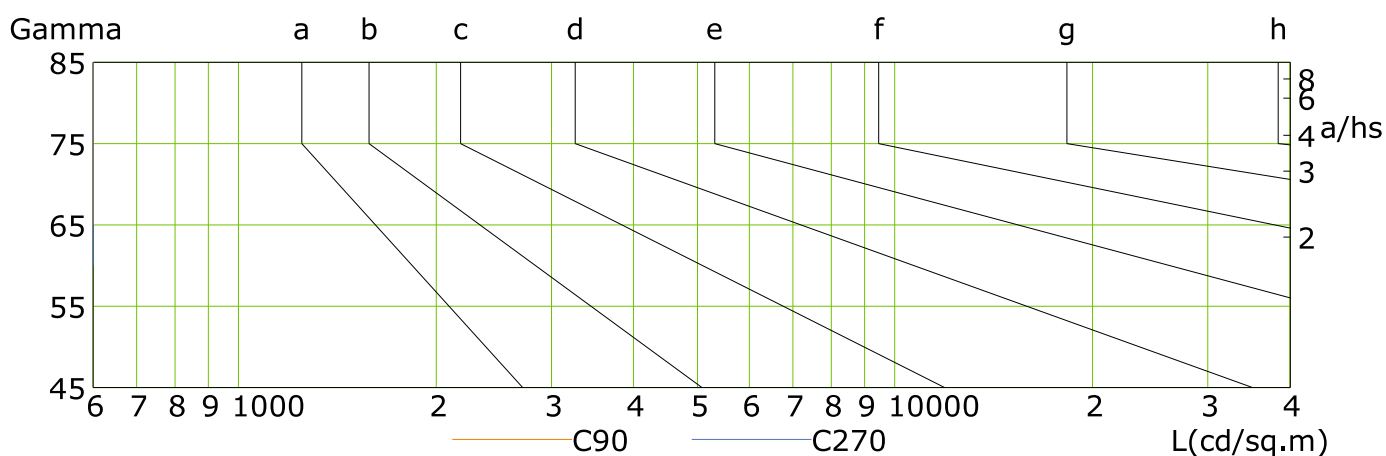
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:



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



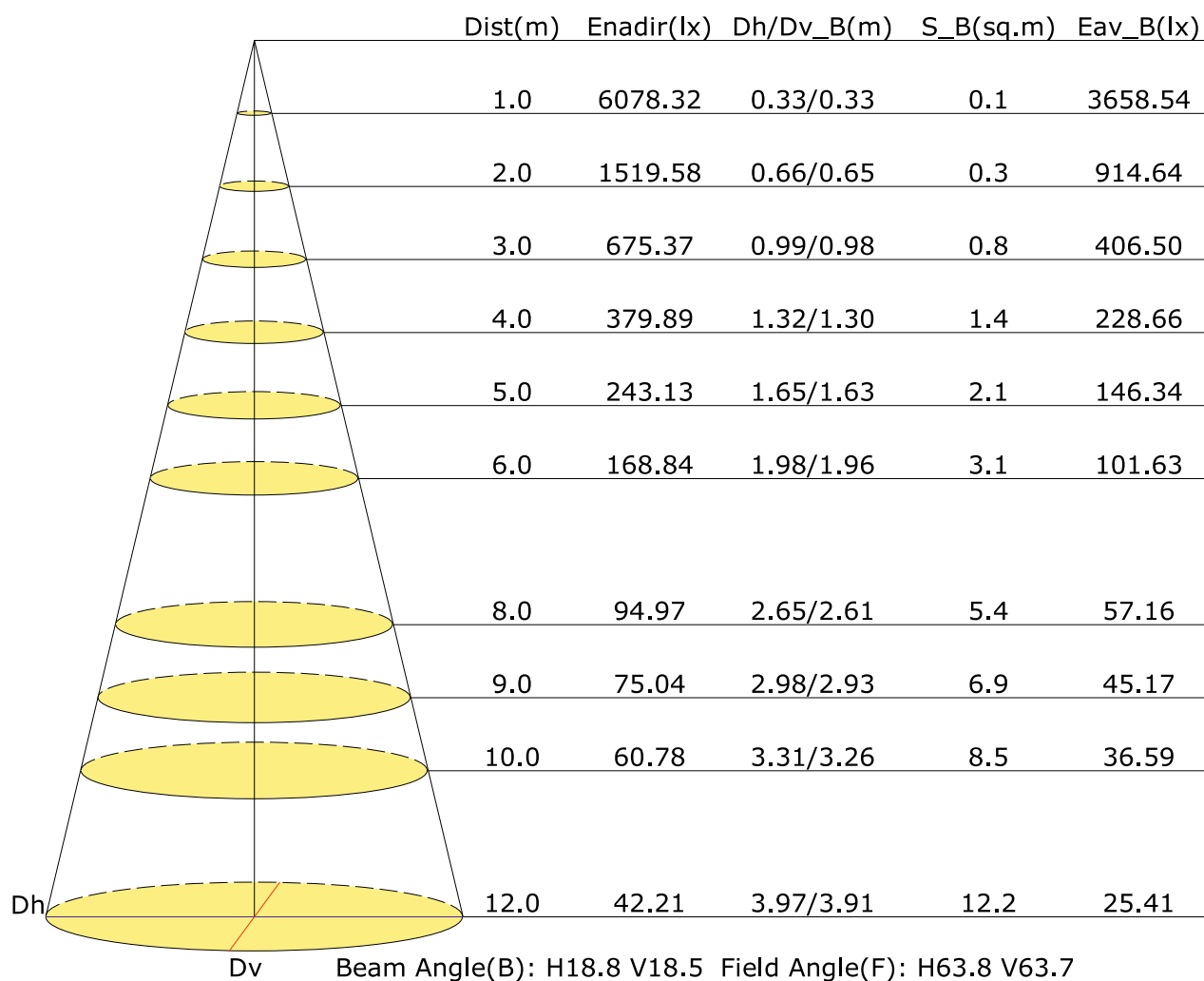
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	50	23	10	0	0	0	0	0	0
C90	49	22	11	6	0	0	0	0	0
C180	44	18	10	0	0	0	0	0	0
C270	47	19	10	0	0	0	0	0	0

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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

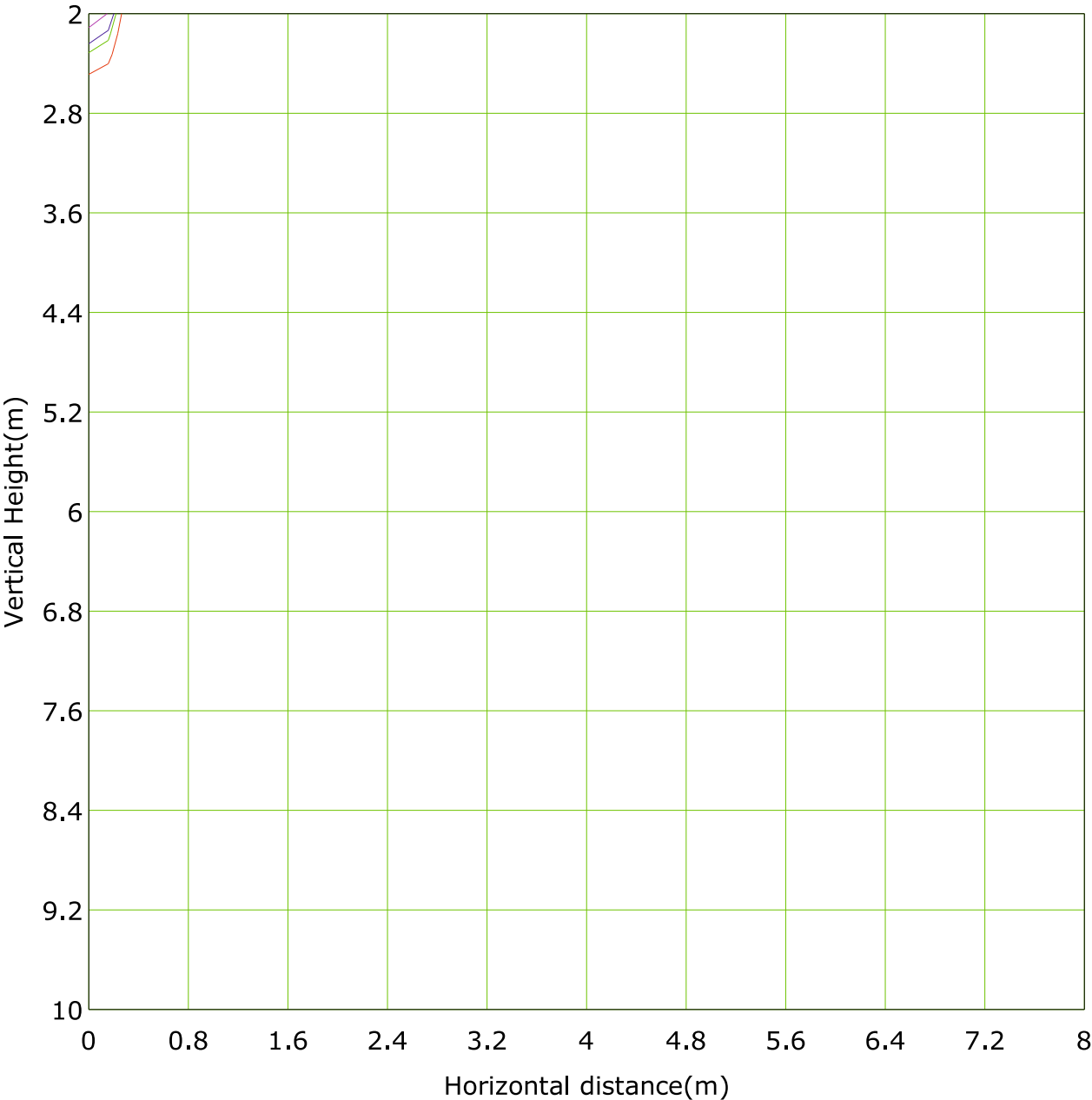


Illuminance at a Distance





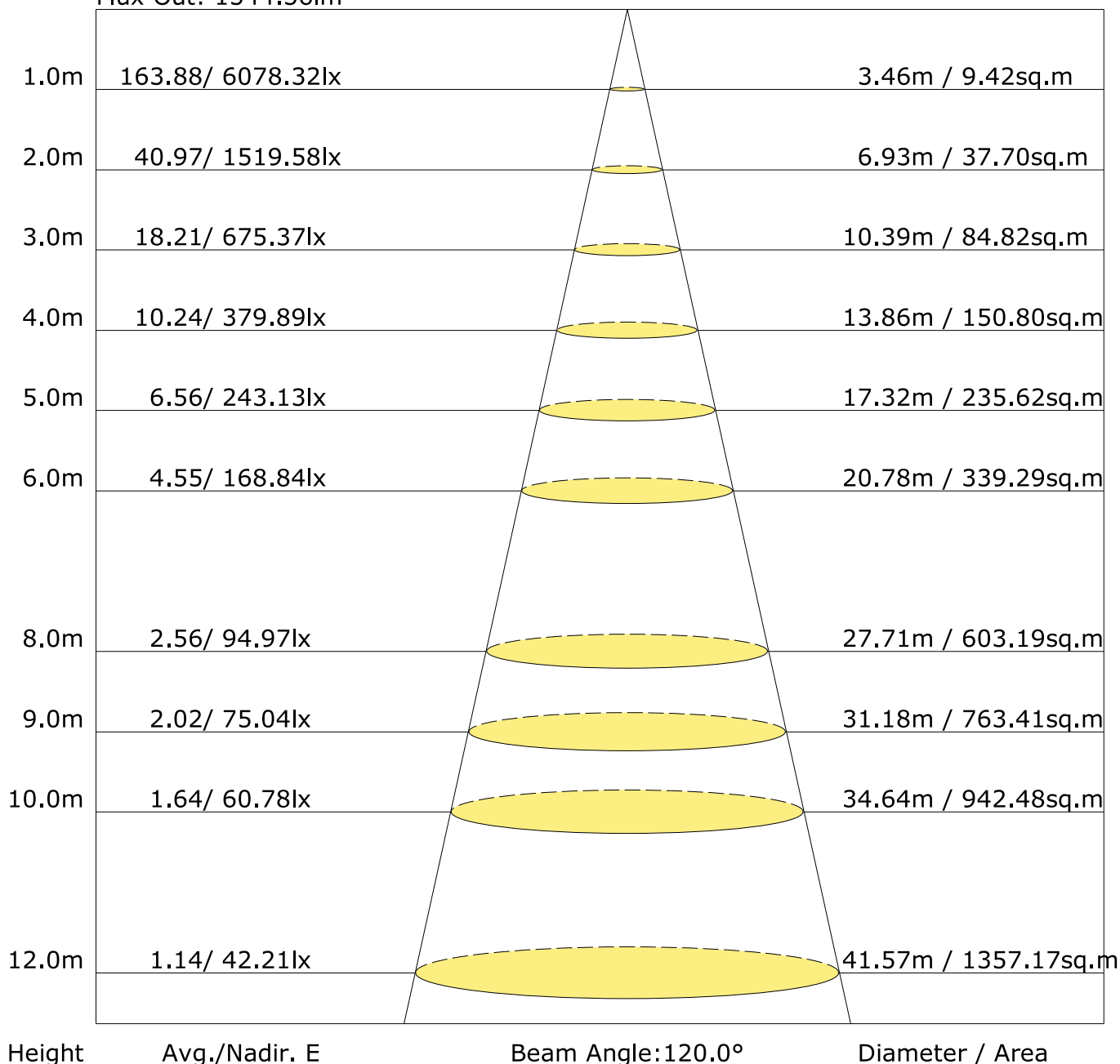
Vertical IsoLux Plot





The Average Illuminance Effective Figure

Flux Out: 1544.56lm



C Plane (°): 0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 8.508 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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 1565lm ($8\log(F/F_0) = 1.6$).



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	6063.3	5.8	5.8	0.37	0.37
1.0-2.0	6006.0	17.2	23.0	1.10	1.47
2.0-3.0	5890.5	28.2	51.2	1.80	3.27
3.0-4.0	5694.1	38.1	89.3	2.44	5.71
4.0-5.0	5386.8	46.3	135.7	2.96	8.67
5.0-6.0	4964.1	52.2	187.9	3.33	12.01
6.0-7.0	4461.9	55.4	243.3	3.54	15.55
7.0-8.0	3928.0	56.2	299.5	3.59	19.14
8.0-9.0	3419.4	55.4	354.9	3.54	22.68
9.0-10.0	2979.7	53.9	408.8	3.45	26.13
10.0-11.0	2603.4	52.0	460.9	3.32	29.45
11.0-12.0	2279.1	49.8	510.7	3.18	32.64
12.0-13.0	2007.9	47.7	558.3	3.05	35.68
13.0-14.0	1786.3	45.7	604.1	2.92	38.60
14.0-15.0	1607.5	44.1	648.2	2.82	41.42
15.0-16.0	1466.2	43.0	691.2	2.75	44.17
16.0-17.0	1354.4	42.2	733.4	2.70	46.87
17.0-18.0	1266.3	41.8	775.1	2.67	49.53
18.0-19.0	1196.2	41.6	816.7	2.66	52.19
19.0-20.0	1140.0	41.7	858.5	2.67	54.86
20.0-21.0	1094.5	42.0	900.5	2.69	57.55
21.0-22.0	1055.7	42.4	942.9	2.71	60.26
22.0-23.0	1022.2	42.9	985.8	2.74	63.00
23.0-24.0	991.7	43.4	1029.2	2.77	65.77
24.0-25.0	964.3	43.9	1073.1	2.80	68.57
25.0-26.0	941.3	44.4	1117.5	2.84	71.41
26.0-27.0	921.8	45.1	1162.6	2.88	74.30
27.0-28.0	902.0	45.7	1208.3	2.92	77.22
28.0-29.0	874.4	45.8	1254.0	2.92	80.14
29.0-30.0	826.2	44.6	1298.6	2.85	82.99
30.0-31.0	749.0	41.7	1340.3	2.66	85.65
31.0-32.0	648.9	37.2	1377.5	2.38	88.03
32.0-33.0	537.5	31.7	1409.2	2.02	90.05
33.0-34.0	423.0	25.6	1434.8	1.64	91.69
34.0-35.0	315.5	19.6	1454.4	1.25	92.94
35.0-36.0	227.0	14.5	1468.8	0.92	93.87

C Plane (°):0.0-360.0: 45.0
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 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 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	166.4	10.9	1479.7	0.69	94.56
37.0-38.0	130.7	8.7	1488.4	0.56	95.12
38.0-39.0	103.6	7.1	1495.5	0.45	95.57
39.0-40.0	78.8	5.5	1501.0	0.35	95.92
40.0-41.0	62.5	4.4	1505.4	0.28	96.21
41.0-42.0	56.2	4.1	1509.5	0.26	96.47
42.0-43.0	54.5	4.0	1513.5	0.26	96.72
43.0-44.0	52.5	4.0	1517.5	0.25	96.98
44.0-45.0	49.3	3.8	1521.3	0.24	97.22
45.0-46.0	44.8	3.5	1524.8	0.22	97.44
46.0-47.0	39.1	3.1	1527.9	0.20	97.64
47.0-48.0	32.9	2.7	1530.6	0.17	97.81
48.0-49.0	27.4	2.3	1532.8	0.14	97.96
49.0-50.0	22.9	1.9	1534.7	0.12	98.08
50.0-51.0	19.3	1.6	1536.4	0.10	98.18
51.0-52.0	16.5	1.4	1537.8	0.09	98.27
52.0-53.0	14.4	1.3	1539.0	0.08	98.35
53.0-54.0	12.7	1.1	1540.2	0.07	98.42
54.0-55.0	11.1	1.0	1541.1	0.06	98.49
55.0-56.0	9.8	0.9	1542.0	0.06	98.54
56.0-57.0	8.7	0.8	1542.8	0.05	98.60
57.0-58.0	7.8	0.7	1543.5	0.05	98.64
58.0-59.0	6.5	0.6	1544.2	0.04	98.68
59.0-60.0	4.3	0.4	1544.6	0.03	98.71
60.0-61.0	1.9	0.2	1544.7	0.01	98.72
61.0-62.0	0.4	0.0	1544.8	0.00	98.72
62.0-63.0	0.0	0.0	1544.8	0.00	98.72
63.0-64.0	0.0	0.0	1544.8	0.00	98.72
64.0-65.0	0.0	0.0	1544.8	0.00	98.72
65.0-66.0	0.0	0.0	1544.8	0.00	98.72
66.0-67.0	0.0	0.0	1544.8	0.00	98.72
67.0-68.0	0.0	0.0	1544.8	0.00	98.72
68.0-69.0	0.0	0.0	1544.8	0.00	98.72
69.0-70.0	0.0	0.0	1544.8	0.00	98.72
70.0-71.0	0.0	0.0	1544.8	0.00	98.72
71.0-72.0	0.0	0.0	1544.8	0.00	98.72

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 Distance: 8.508 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	0.0	0.0	1544.8	0.00	98.72
73.0-74.0	0.0	0.0	1544.8	0.00	98.72
74.0-75.0	0.0	0.0	1544.8	0.00	98.72
75.0-76.0	0.0	0.0	1544.8	0.00	98.72
76.0-77.0	0.0	0.0	1544.8	0.00	98.72
77.0-78.0	0.0	0.0	1544.8	0.00	98.72
78.0-79.0	0.0	0.0	1544.8	0.00	98.72
79.0-80.0	0.0	0.0	1544.8	0.00	98.72
80.0-81.0	0.0	0.0	1544.8	0.00	98.72
81.0-82.0	0.0	0.0	1544.8	0.00	98.72
82.0-83.0	0.0	0.0	1544.8	0.00	98.72
83.0-84.0	0.0	0.0	1544.8	0.00	98.72
84.0-85.0	0.0	0.0	1544.8	0.00	98.72
85.0-86.0	0.0	0.0	1544.8	0.00	98.72
86.0-87.0	0.0	0.0	1544.8	0.00	98.72
87.0-88.0	0.0	0.0	1544.8	0.00	98.72
88.0-89.0	0.0	0.0	1544.8	0.00	98.72
89.0-90.0	0.0	0.0	1544.8	0.00	98.72
90.0-91.0	0.0	0.0	1544.8	0.00	98.72
91.0-92.0	0.0	0.0	1544.8	0.00	98.72
92.0-93.0	0.0	0.0	1544.8	0.00	98.72
93.0-94.0	0.0	0.0	1544.8	0.00	98.72
94.0-95.0	0.0	0.0	1544.8	0.00	98.72
95.0-96.0	0.0	0.0	1544.8	0.00	98.72
96.0-97.0	0.0	0.0	1544.8	0.00	98.72
97.0-98.0	0.0	0.0	1544.8	0.00	98.72
98.0-99.0	0.0	0.0	1544.8	0.00	98.72
99.0-100.0	0.0	0.0	1544.8	0.00	98.72
100.0-101.0	0.0	0.0	1544.8	0.00	98.72
101.0-102.0	0.0	0.0	1544.8	0.00	98.72
102.0-103.0	0.0	0.0	1544.8	0.00	98.72
103.0-104.0	0.0	0.0	1544.8	0.00	98.72
104.0-105.0	0.0	0.0	1544.8	0.00	98.72
105.0-106.0	0.0	0.0	1544.8	0.00	98.72
106.0-107.0	0.0	0.0	1544.8	0.00	98.72
107.0-108.0	0.0	0.0	1544.8	0.00	98.72

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 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	1544.8	0.00	98.72
109.0-110.0	0.0	0.0	1544.8	0.00	98.72
110.0-111.0	0.0	0.0	1544.8	0.00	98.72
111.0-112.0	0.0	0.0	1544.8	0.00	98.72
112.0-113.0	0.0	0.0	1544.8	0.00	98.72
113.0-114.0	0.0	0.0	1544.8	0.00	98.72
114.0-115.0	0.0	0.0	1544.8	0.00	98.72
115.0-116.0	0.0	0.0	1544.8	0.00	98.72
116.0-117.0	0.0	0.0	1544.8	0.00	98.72
117.0-118.0	0.0	0.0	1544.8	0.00	98.72
118.0-119.0	0.0	0.0	1544.8	0.00	98.72
119.0-120.0	0.0	0.0	1544.8	0.00	98.72
120.0-121.0	0.0	0.0	1544.8	0.00	98.72
121.0-122.0	0.0	0.0	1544.8	0.00	98.72
122.0-123.0	0.0	0.0	1544.8	0.00	98.72
123.0-124.0	0.0	0.0	1544.8	0.00	98.72
124.0-125.0	0.0	0.0	1544.8	0.00	98.72
125.0-126.0	0.0	0.0	1544.8	0.00	98.72
126.0-127.0	0.0	0.0	1544.8	0.00	98.72
127.0-128.0	0.0	0.0	1544.8	0.00	98.72
128.0-129.0	0.0	0.0	1544.8	0.00	98.72
129.0-130.0	0.7	0.1	1544.8	0.00	98.72
130.0-131.0	1.0	0.1	1544.9	0.01	98.73
131.0-132.0	0.7	0.1	1545.0	0.00	98.73
132.0-133.0	2.5	0.2	1545.2	0.01	98.75
133.0-134.0	4.0	0.3	1545.5	0.02	98.77
134.0-135.0	4.2	0.3	1545.8	0.02	98.79
135.0-136.0	5.0	0.4	1546.2	0.02	98.81
136.0-137.0	5.9	0.4	1546.7	0.03	98.84
137.0-138.0	6.6	0.5	1547.2	0.03	98.87
138.0-139.0	6.9	0.5	1547.7	0.03	98.90
139.0-140.0	7.3	0.5	1548.2	0.03	98.94
140.0-141.0	7.7	0.5	1548.7	0.03	98.97
141.0-142.0	8.1	0.5	1549.3	0.04	99.01
142.0-143.0	8.4	0.6	1549.8	0.04	99.04
143.0-144.0	8.8	0.6	1550.4	0.04	99.08

C Plane (°):0.0-360.0: 45.0
 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: 8.508 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	9.2	0.6	1551.0	0.04	99.12
145.0-146.0	9.4	0.6	1551.6	0.04	99.15
146.0-147.0	9.9	0.6	1552.2	0.04	99.19
147.0-148.0	10.4	0.6	1552.8	0.04	99.23
148.0-149.0	10.6	0.6	1553.4	0.04	99.27
149.0-150.0	11.0	0.6	1554.0	0.04	99.31
150.0-151.0	11.4	0.6	1554.6	0.04	99.35
151.0-152.0	11.7	0.6	1555.2	0.04	99.39
152.0-153.0	12.0	0.6	1555.8	0.04	99.43
153.0-154.0	12.3	0.6	1556.4	0.04	99.47
154.0-155.0	12.5	0.6	1557.0	0.04	99.50
155.0-156.0	12.8	0.6	1557.6	0.04	99.54
156.0-157.0	13.1	0.6	1558.2	0.04	99.58
157.0-158.0	13.2	0.6	1558.7	0.04	99.61
158.0-159.0	13.2	0.5	1559.3	0.03	99.65
159.0-160.0	13.4	0.5	1559.8	0.03	99.68
160.0-161.0	13.4	0.5	1560.3	0.03	99.71
161.0-162.0	13.5	0.5	1560.7	0.03	99.74
162.0-163.0	13.6	0.4	1561.2	0.03	99.77
163.0-164.0	13.6	0.4	1561.6	0.03	99.80
164.0-165.0	13.5	0.4	1562.0	0.03	99.82
165.0-166.0	13.5	0.4	1562.4	0.02	99.85
166.0-167.0	13.4	0.3	1562.7	0.02	99.87
167.0-168.0	13.3	0.3	1563.0	0.02	99.89
168.0-169.0	13.2	0.3	1563.3	0.02	99.91
169.0-170.0	13.1	0.3	1563.6	0.02	99.92
170.0-171.0	13.0	0.2	1563.8	0.02	99.94
171.0-172.0	12.9	0.2	1564.0	0.01	99.95
172.0-173.0	12.8	0.2	1564.2	0.01	99.96
173.0-174.0	12.7	0.2	1564.4	0.01	99.97
174.0-175.0	12.5	0.1	1564.5	0.01	99.98
175.0-176.0	12.3	0.1	1564.6	0.01	99.99
176.0-177.0	12.4	0.1	1564.7	0.01	99.99
177.0-178.0	12.4	0.1	1564.8	0.00	100.00
178.0-179.0	12.3	0.0	1564.8	0.00	100.00
179.0-180.0	12.5	0.0	1564.8	0.00	100.00

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

IDEA

/SHHH 2L (06.78.1218.__)



Zonal Lumen (Continue 5)

cone flux(90°): 1521.30 lm

%lum = 97.2%

%lamp = 97.2%

cone flux(120°): 1544.56 lm

%lum = 98.7%

%lamp = 98.7%

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:



Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	6078.3	6078.3	6078.3	6078.3	6078.3	6078.3	6078.3	6078.3	6078.3	
G1.0	6050.4	6066.5	6055.1	6044.4	6026.4	6049.4	6045.4	6048.5	6050.4	
G2.0	5965.6	5964.9	5982.3	5969.3	5920.4	5967.8	5970.3	5969.6	5965.6	
G3.0	5834.0	5828.3	5865.6	5837.1	5718.6	5810.5	5804.4	5839.0	5834.0	
G4.0	5638.3	5593.3	5667.5	5608.6	5429.8	5536.7	5483.0	5611.6	5638.3	
G5.0	5341.6	5277.8	5331.2	5219.3	5049.2	5112.0	5070.8	5218.3	5341.6	
G6.0	4899.1	4817.9	4903.1	4741.4	4508.7	4640.6	4551.2	4742.6	4899.1	
G7.0	4401.3	4319.0	4375.6	4200.1	3991.3	4118.3	3989.5	4191.0	4401.3	
G8.0	3887.9	3806.2	3786.2	3676.2	3500.0	3566.1	3430.4	3609.4	3887.9	
G9.0	3346.3	3320.2	3299.7	3167.4	3060.3	3120.3	2990.0	3144.3	3346.3	
G10.0	2922.6	2859.7	2885.5	2783.0	2685.7	2731.6	2611.8	2747.4	2922.6	
G11.0	2564.1	2520.6	2499.8	2456.3	2331.5	2358.8	2286.4	2410.0	2564.1	
G12.0	2230.1	2221.9	2205.2	2141.8	2054.5	2072.8	2013.5	2098.3	2230.1	
G13.0	1976.5	1969.0	1934.9	1897.1	1828.8	1832.2	1776.5	1873.8	1976.5	
G14.0	1762.4	1739.4	1732.3	1697.4	1643.6	1629.4	1604.8	1683.0	1762.4	
G15.0	1589.8	1575.2	1569.3	1540.5	1481.6	1486.4	1470.0	1515.0	1589.8	
G16.0	1442.3	1443.8	1438.2	1406.2	1369.5	1380.0	1352.6	1398.3	1442.3	
G17.0	1339.7	1335.8	1332.1	1308.9	1279.9	1281.7	1256.3	1305.2	1339.7	
G18.0	1259.2	1258.5	1254.3	1230.7	1201.2	1210.3	1184.6	1223.2	1259.2	
G19.0	1186.7	1193.0	1189.3	1163.2	1145.0	1149.2	1129.1	1162.2	1186.7	
G20.0	1135.3	1140.5	1131.9	1112.6	1099.4	1097.8	1093.3	1112.3	1135.3	
G21.0	1091.0	1091.8	1090.3	1072.7	1062.0	1057.3	1052.5	1071.6	1091.0	
G22.0	1053.3	1057.1	1050.4	1034.7	1025.9	1031.1	1018.3	1032.0	1053.3	
G23.0	1021.5	1022.6	1017.9	1002.7	996.2	1000.7	988.8	1001.5	1021.5	
G24.0	992.1	988.8	984.9	973.2	970.1	972.2	959.9	973.5	992.1	
G25.0	963.0	960.6	957.4	947.5	949.7	949.2	939.3	947.1	963.0	
G26.0	938.5	935.6	931.8	926.8	931.8	929.8	923.0	929.0	938.5	
G27.0	920.7	922.3	914.3	910.1	912.1	906.9	901.2	914.9	920.7	
G28.0	902.1	904.1	897.6	889.7	883.7	881.5	876.2	894.9	902.1	
G29.0	879.1	882.2	867.3	861.8	838.5	830.4	838.0	863.3	879.1	
G30.0	835.2	837.6	826.5	799.6	757.7	741.3	761.8	799.3	835.2	
G31.0	750.5	767.7	752.4	708.6	656.6	636.4	648.7	703.9	750.5	
G32.0	652.5	662.9	646.9	596.8	544.3	524.0	533.5	596.7	652.5	
G33.0	537.2	555.2	533.3	483.8	433.8	410.6	419.5	469.3	537.2	
G34.0	429.9	430.1	411.3	362.0	326.8	295.4	308.7	360.9	429.9	
G35.0	315.1	321.5	298.1	263.3	233.3	212.7	217.1	261.4	315.1	
G36.0	224.3	228.8	207.4	184.1	164.9	158.8	158.4	183.1	224.3	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:



Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	164.2	164.6	155.0	138.7	128.0	123.6	134.5	144.5	164.2	
G38.0	135.1	136.2	129.4	114.3	97.2	94.2	107.5	123.9	135.1	
G39.0	111.1	112.4	105.5	84.2	73.0	66.6	75.2	92.5	111.1	
G40.0	86.1	82.9	72.8	60.6	58.3	56.0	56.7	67.5	86.1	
G41.0	65.1	63.4	55.6	54.4	52.7	53.4	55.8	57.8	65.1	
G42.0	57.6	56.4	54.8	54.0	52.5	53.0	55.7	57.3	57.6	
G43.0	56.8	55.5	54.1	52.4	51.0	51.6	53.9	55.5	56.8	
G44.0	53.4	53.5	52.2	49.5	48.2	49.3	50.5	52.9	53.4	
G45.0	49.9	50.5	48.9	45.3	44.4	45.0	46.8	48.4	49.9	
G46.0	45.2	46.1	44.5	40.3	39.0	39.0	40.6	43.6	45.2	
G47.0	39.4	41.2	37.4	33.5	32.4	33.2	33.0	37.0	39.4	
G48.0	33.0	35.7	31.0	27.7	26.8	26.9	27.0	30.9	33.0	
G49.0	27.4	29.9	26.2	23.3	22.5	22.6	22.7	25.1	27.4	
G50.0	23.2	24.2	21.7	19.7	18.4	19.5	19.1	20.7	23.2	
G51.0	18.9	20.6	17.9	17.3	16.1	16.9	16.1	18.1	18.9	
G52.0	15.8	17.2	15.7	15.2	14.2	14.6	14.2	15.7	15.8	
G53.0	13.2	15.1	13.5	13.4	12.4	13.3	12.7	13.8	13.2	
G54.0	11.3	13.2	12.3	11.9	11.2	11.8	11.1	12.3	11.3	
G55.0	10.4	11.5	10.6	10.6	9.7	10.2	9.8	10.2	10.4	
G56.0	8.7	10.2	9.8	9.5	7.9	9.1	8.9	9.4	8.7	
G57.0	8.0	9.3	8.9	8.3	7.1	8.0	7.8	8.6	8.0	
G58.0	7.2	8.2	7.5	7.6	6.7	7.0	7.1	7.3	7.2	
G59.0	6.3	7.3	6.8	6.9	5.5	0.0	5.9	6.3	6.3	
G60.0	0.0	6.3	5.9	5.9	0.0	0.0	0.0	5.9	0.0	
G61.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:



Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

**Candlepower Table (Continue 3)**

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G118.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G130.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5	0.0	0.0	
G131.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	
G132.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	
G133.0	0.0	5.6	5.7	5.7	0.0	5.8	6.0	5.7	0.0	
G134.0	0.0	6.2	5.7	0.0	0.0	5.9	6.3	5.9	0.0	
G135.0	0.0	5.9	6.0	5.7	0.0	6.6	6.4	6.9	0.0	
G136.0	0.0	6.5	6.1	5.9	5.5	6.2	6.1	6.6	0.0	
G137.0	5.5	6.9	6.7	6.3	5.9	7.0	7.2	6.3	5.5	
G138.0	6.3	6.7	6.8	6.8	6.0	7.0	7.5	7.2	6.3	
G139.0	6.5	7.3	7.4	7.0	6.1	7.4	7.6	7.2	6.5	
G140.0	6.7	7.8	7.6	7.2	7.1	7.8	7.6	7.6	6.7	
G141.0	7.2	8.1	8.1	8.1	7.1	8.0	8.5	8.1	7.2	
G142.0	7.4	8.4	8.3	8.4	7.4	8.7	8.7	8.4	7.4	
G143.0	7.9	8.8	8.9	8.8	7.5	8.7	9.1	8.7	7.9	
G144.0	9.1	9.5	9.3	8.8	7.9	8.8	9.7	9.5	9.1	
G145.0	9.5	9.2	9.7	9.7	7.9	9.1	9.8	9.7	9.5	
G146.0	9.7	9.6	9.6	10.4	7.9	9.6	9.7	9.8	9.7	
G147.0	10.2	10.8	10.6	10.6	8.7	10.3	10.2	10.4	10.2	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

**Candlepower Table (Continue 4)**

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	10.8	11.7	11.3	11.0	8.9	10.2	10.1	9.8	10.8	
G149.0	10.9	12.2	11.6	12.0	8.9	10.0	10.5	10.5	10.9	
G150.0	12.0	12.6	12.3	12.3	9.0	10.2	10.5	10.9	12.0	
G151.0	12.0	13.2	12.8	12.7	10.0	10.3	10.9	11.2	12.0	
G152.0	12.4	13.3	13.1	13.0	10.0	10.6	10.8	11.5	12.4	
G153.0	13.2	14.1	13.5	13.4	9.8	10.7	11.1	11.6	13.2	
G154.0	13.2	14.3	13.8	13.9	10.2	10.7	11.3	11.5	13.2	
G155.0	13.5	14.8	14.2	14.5	10.6	10.8	11.5	11.7	13.5	
G156.0	13.9	14.7	14.9	14.8	10.6	11.0	11.6	11.9	13.9	
G157.0	14.3	15.2	14.9	15.2	10.1	11.4	12.2	12.4	14.3	
G158.0	14.0	15.1	15.3	15.0	10.5	11.4	11.9	11.9	14.0	
G159.0	14.6	15.4	15.3	15.3	10.8	11.5	11.9	11.9	14.6	
G160.0	15.0	15.0	15.3	15.3	10.9	11.7	12.0	12.3	15.0	
G161.0	14.4	15.0	15.4	15.3	11.2	11.8	12.0	12.3	14.4	
G162.0	14.9	15.2	15.3	15.5	11.2	11.5	12.3	12.8	14.9	
G163.0	14.3	15.5	15.2	15.7	11.3	12.1	12.6	12.6	14.3	
G164.0	14.6	15.1	14.9	15.2	11.0	11.9	12.3	13.1	14.6	
G165.0	14.2	15.1	14.7	14.8	11.4	12.4	12.7	13.3	14.2	
G166.0	14.4	14.8	14.5	14.5	11.4	12.4	12.7	13.4	14.4	
G167.0	13.9	13.9	14.3	14.1	11.7	12.5	12.8	13.0	13.9	
G168.0	13.6	14.0	14.2	13.7	12.0	12.8	12.7	13.0	13.6	
G169.0	13.8	13.6	13.9	13.8	11.9	12.5	13.1	13.1	13.8	
G170.0	13.1	13.7	13.8	13.5	12.1	12.4	13.1	12.8	13.1	
G171.0	13.4	13.5	13.5	13.0	11.3	12.5	13.0	13.1	13.4	
G172.0	12.8	13.3	13.8	12.8	11.4	12.6	12.8	13.5	12.8	
G173.0	12.8	13.3	13.6	12.8	11.6	12.2	12.8	12.8	12.8	
G174.0	12.7	13.5	13.0	12.8	11.4	12.4	12.8	12.3	12.7	
G175.0	12.1	13.2	12.6	12.3	11.7	11.9	12.6	12.7	12.1	
G176.0	12.1	12.9	12.8	12.6	10.2	12.4	12.6	12.8	12.1	
G177.0	12.4	12.6	12.7	12.7	11.2	12.2	12.8	13.3	12.4	
G178.0	11.7	12.8	12.3	12.1	11.2	12.1	12.7	13.0	11.7	
G179.0	12.4	12.9	12.2	12.7	11.2	12.1	13.1	13.1	12.4	
G180.0	12.3	13.2	12.3	12.7	10.9	12.6	12.8	12.8	12.3	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:



LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	-1.#J
L 0-180(75) av	-1.#J
L 0-180(85) av	-1.#J
L 90-270(65) av	-1.#J
L 90-270(75) av	-1.#J
L 90-270(85) av	-1.#J
L 45(65) av	-1.#J
L 45(75) av	-1.#J
L 45(85) av	-1.#J

Standard: GB/T 29293-2012