

Report No.: TH-3500A

Test Time: 2022/6/26 09:30

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog:
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 0.196 A
 Power Factor: 0.989

Luminaire Description: VAP2313BL
 Lamp Description:
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 120.1 V
 Power: 23.30 W

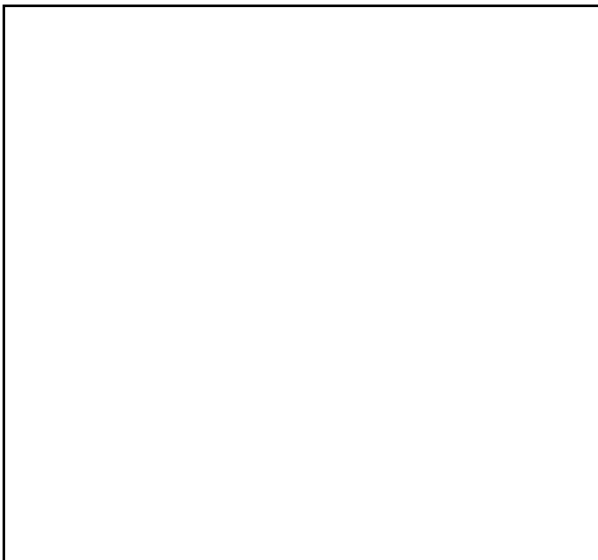
Photometric Results

CIE Class: Direct
 Measurement Flux: 1333.2 lm
 Downward Ratio: 97%
 Horizontal Diffuse Angle(50%): H39.4
 Vertical Diffuse Angle(50%): V39.2
 Luminaire Efficacy Rating (LER): 57.27
 Max. Intensity: 2351.72 cd
 S/MH(C0/C180): 0.64

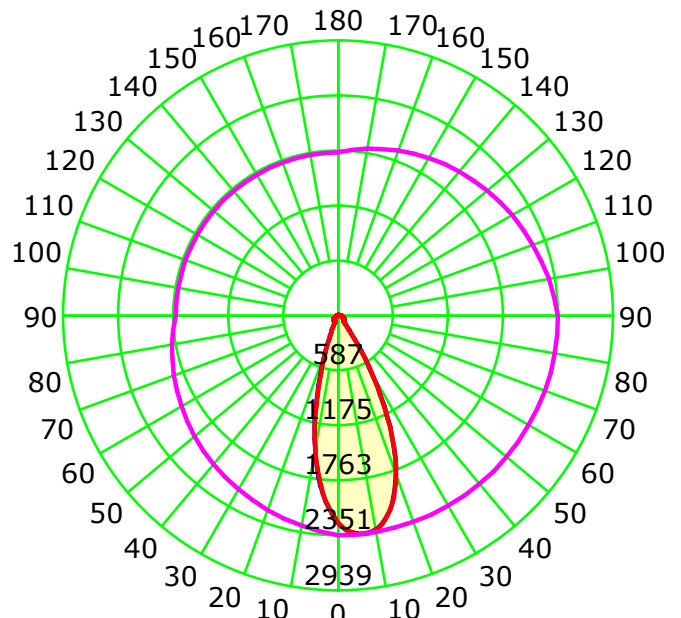
Total Rated Lamp Lumens: 1333.2 lm
 Efficiency: 100%
 Upward Ratio: 3%

C0r0 Intensity: 2215.5 cd
 Pos of Max. Intensity: H90 V7
 S/MH(C90/C270): 0.64

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

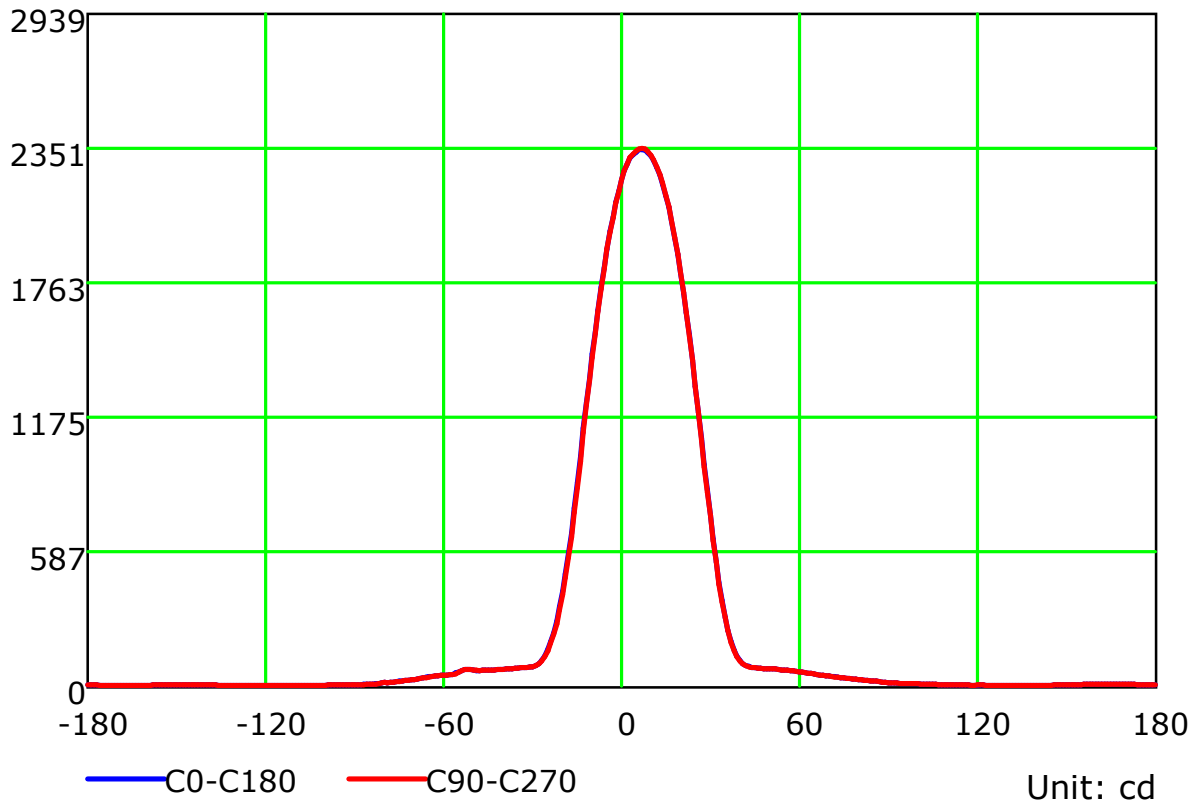
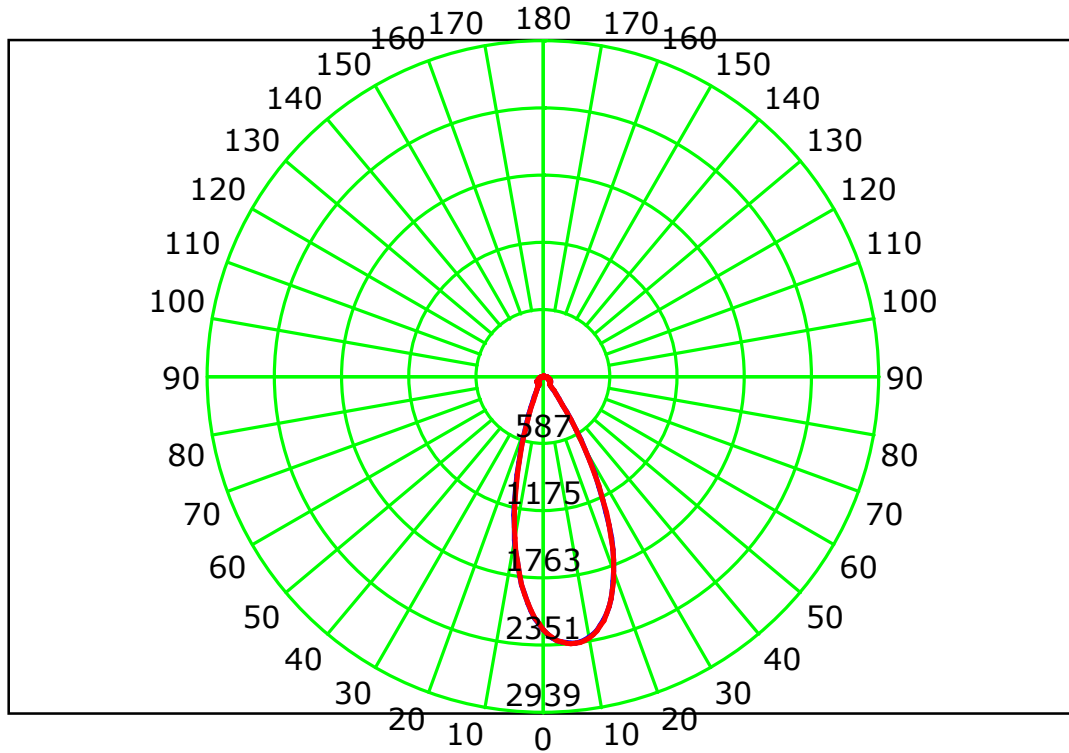
Average Diffuse Angle(50%): 38.7°

— C0-C180 — C90-C270 — G7

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

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

Luminous Intensity Distribution Curve



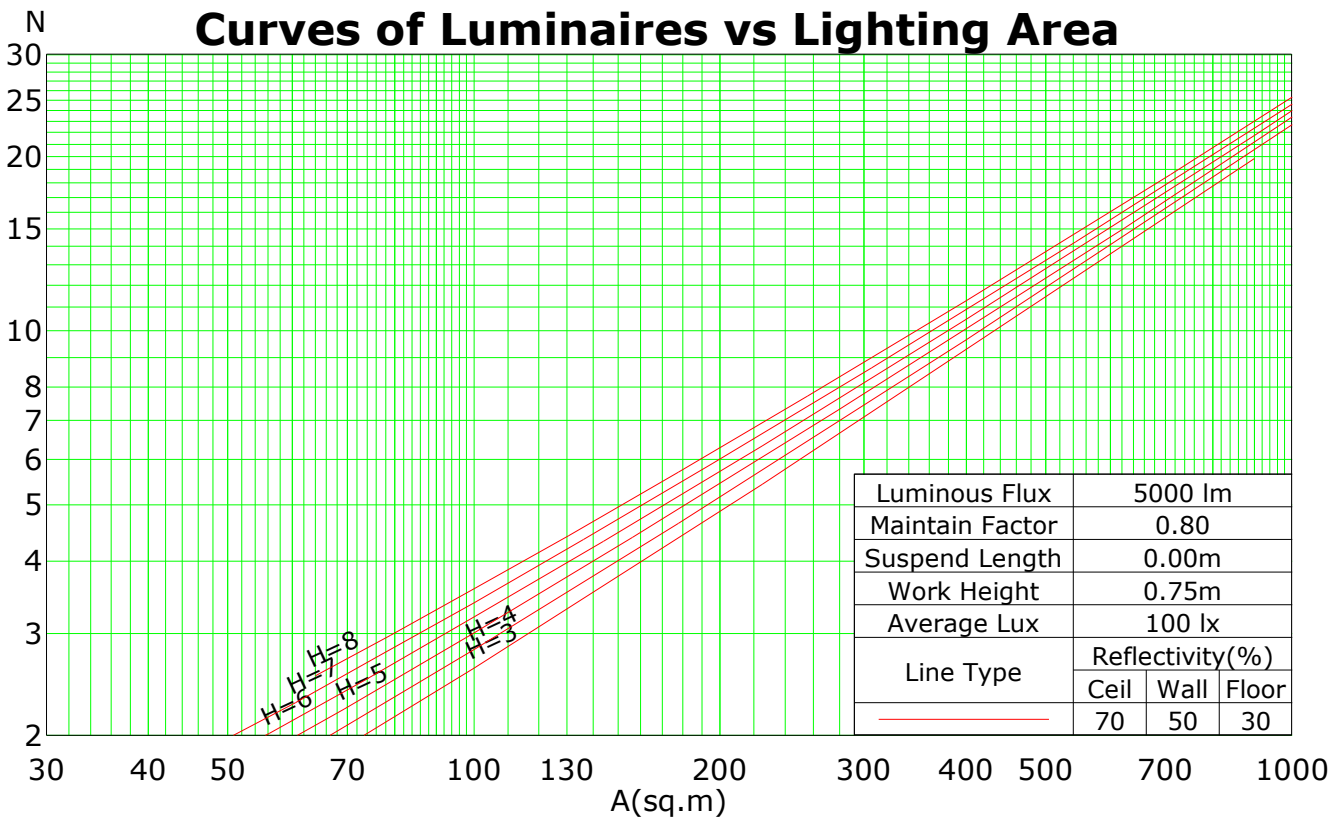
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 Inspector:

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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.97
1	1.12	1.08	1.05	1.03	1.09	1.06	1.03	1.01	1.01	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.88
2	1.05	1.00	0.95	0.92	1.03	0.98	0.94	0.90	0.94	0.91	0.88	0.91	0.88	0.86	0.87	0.85	0.83	0.81
3	1.00	0.93	0.87	0.83	0.98	0.91	0.86	0.82	0.88	0.84	0.80	0.85	0.82	0.79	0.83	0.80	0.77	0.75
4	0.95	0.87	0.81	0.76	0.93	0.85	0.80	0.76	0.83	0.78	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.70
5	0.90	0.81	0.75	0.71	0.88	0.80	0.75	0.70	0.78	0.73	0.69	0.76	0.72	0.68	0.74	0.71	0.68	0.66
6	0.86	0.77	0.71	0.66	0.84	0.76	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.62
7	0.82	0.73	0.66	0.62	0.80	0.72	0.66	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.67	0.63	0.60	0.59
8	0.78	0.69	0.63	0.59	0.77	0.68	0.62	0.58	0.67	0.62	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.56
9	0.75	0.65	0.60	0.56	0.74	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.57	0.54	0.53
10	0.72	0.62	0.57	0.53	0.71	0.62	0.56	0.53	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.51

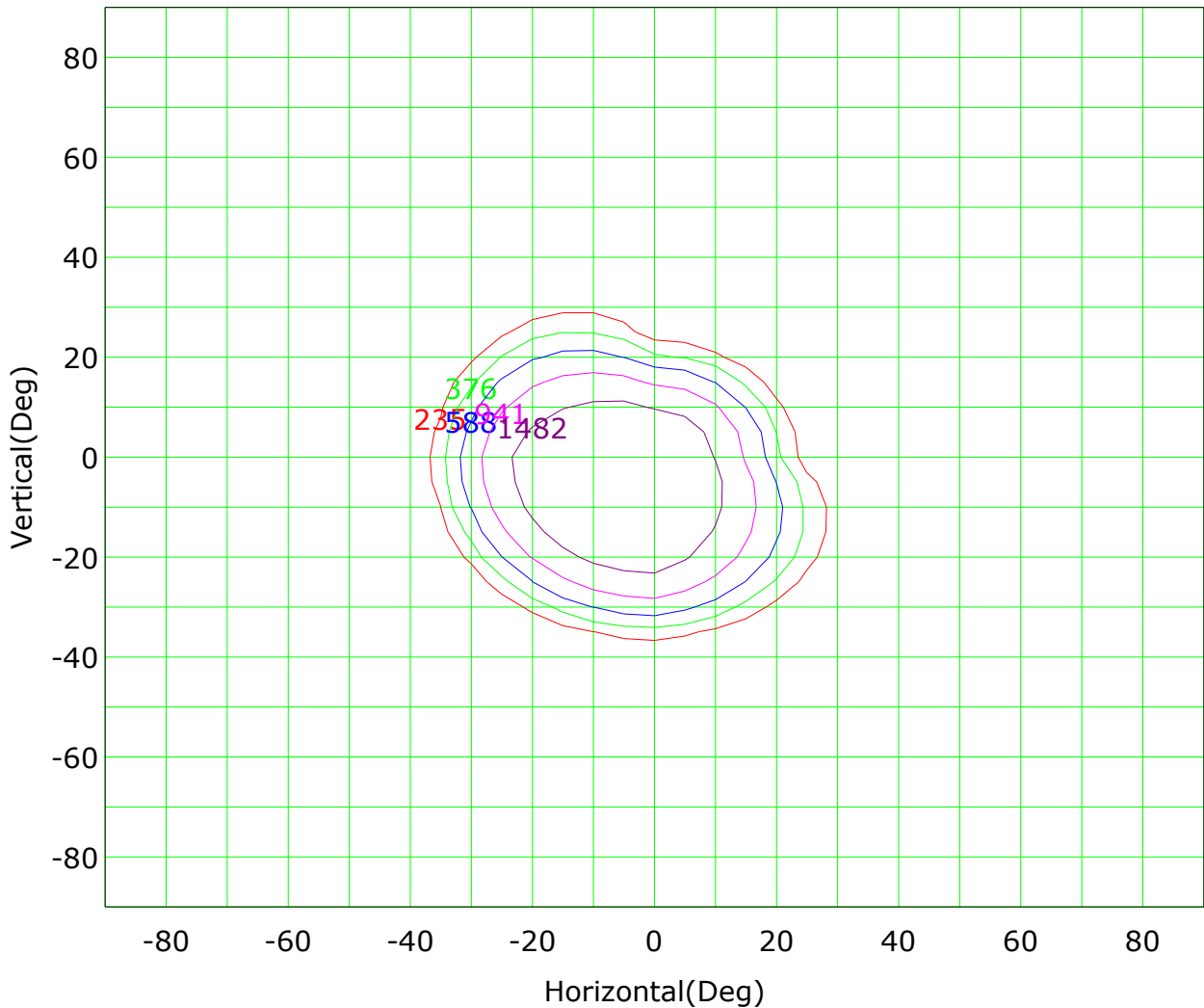
Spacing Criteria (0-180): 0.64
 Spacing Criteria (90-270): 0.64
 Spacing Criteria (Diagonal): 0.66



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 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

Isocandela (rectangle)



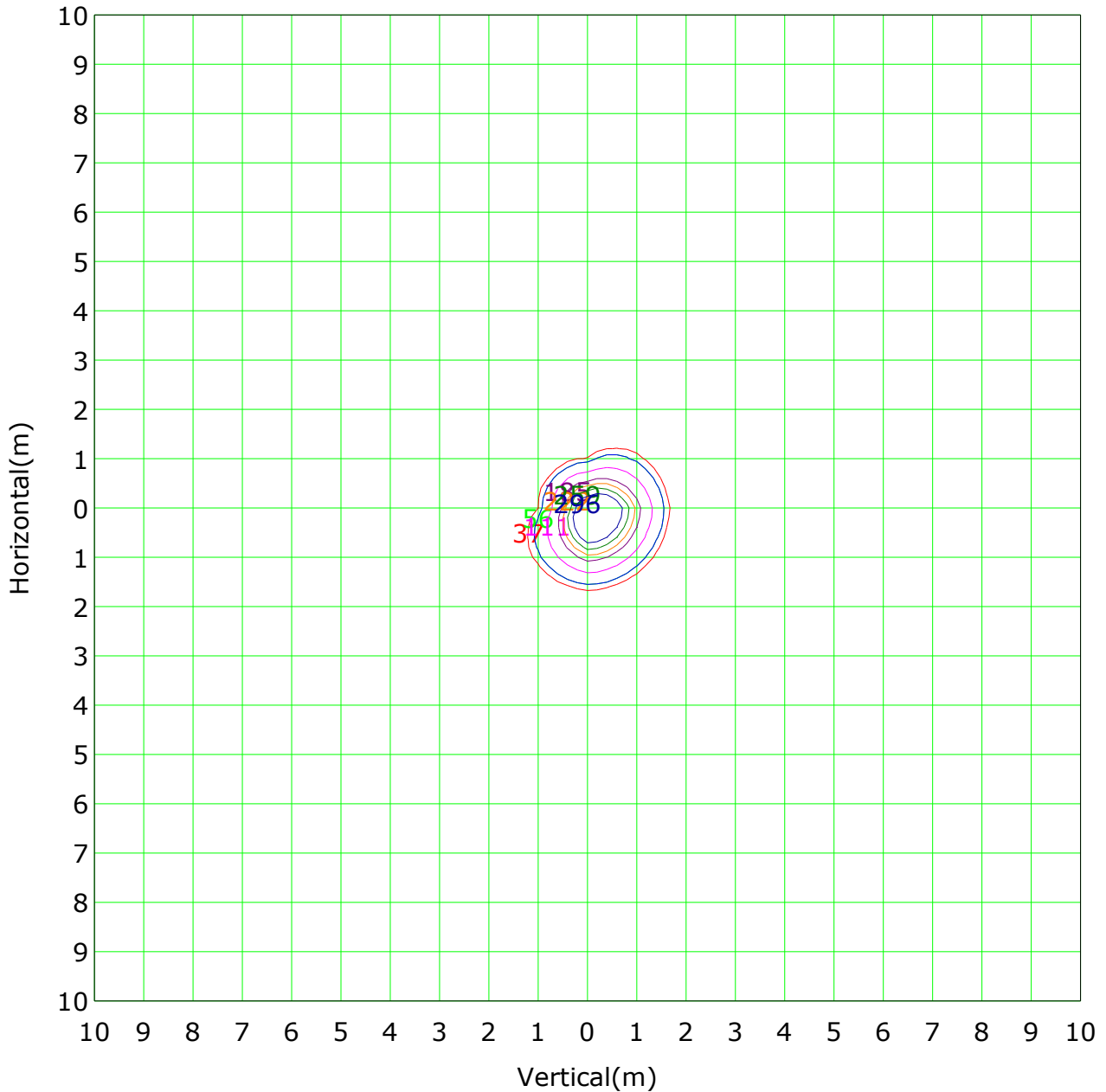
Imax (100%): 2352 cd

- | | |
|-------------------|-------------------|
| — (10%): 235 cd | — (16%): 376 cd |
| — (25%): 588 cd | — (40%): 941 cd |
| — (63%): 1482 cd | — (100%): 2352 cd |

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 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

IsoLux Plot



Mounting Height: 2.5m Max Lux(100%): 370.2 lx

— (10%): 37.0 lx	— (15%): 55.5 lx
— (15%): 55.5 lx	— (30%): 111.1 lx
— (50%): 185.1 lx	— (60%): 222.1 lx
— (70%): 259.2 lx	— (80%): 296.2 lx

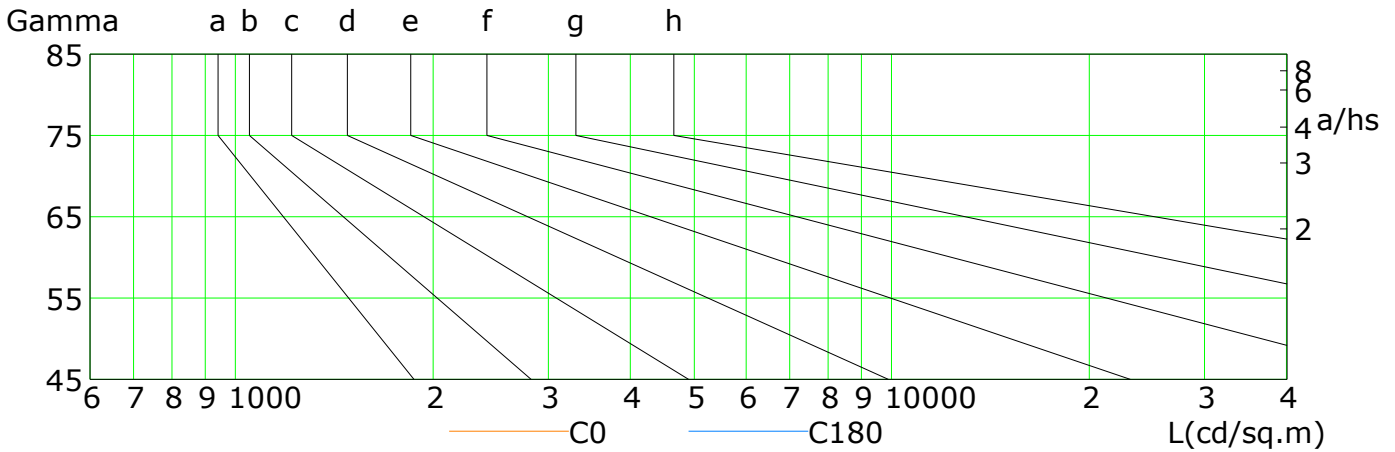
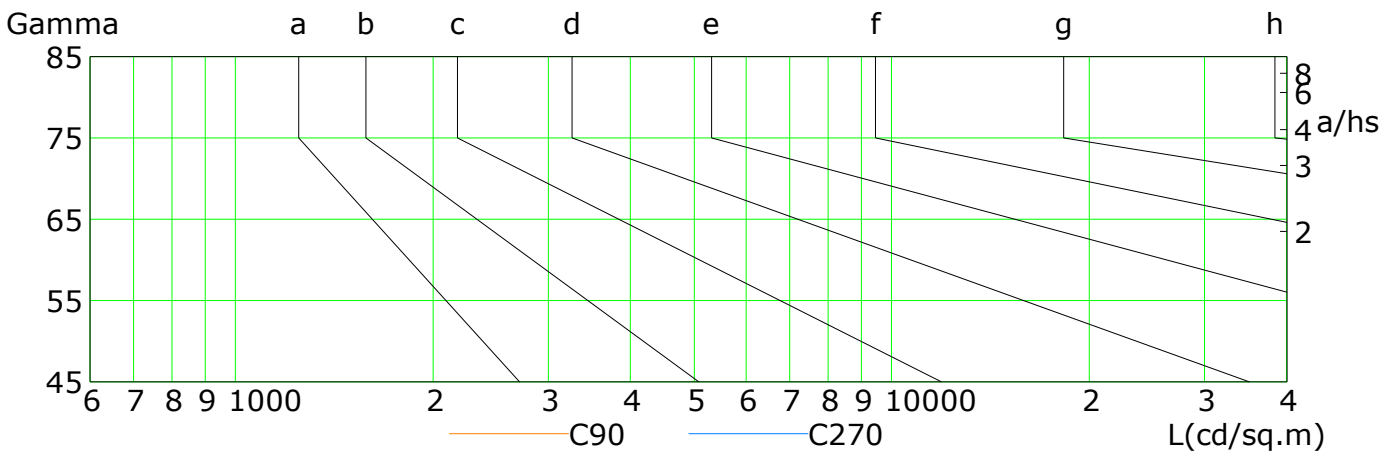
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 Humidity: 65
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

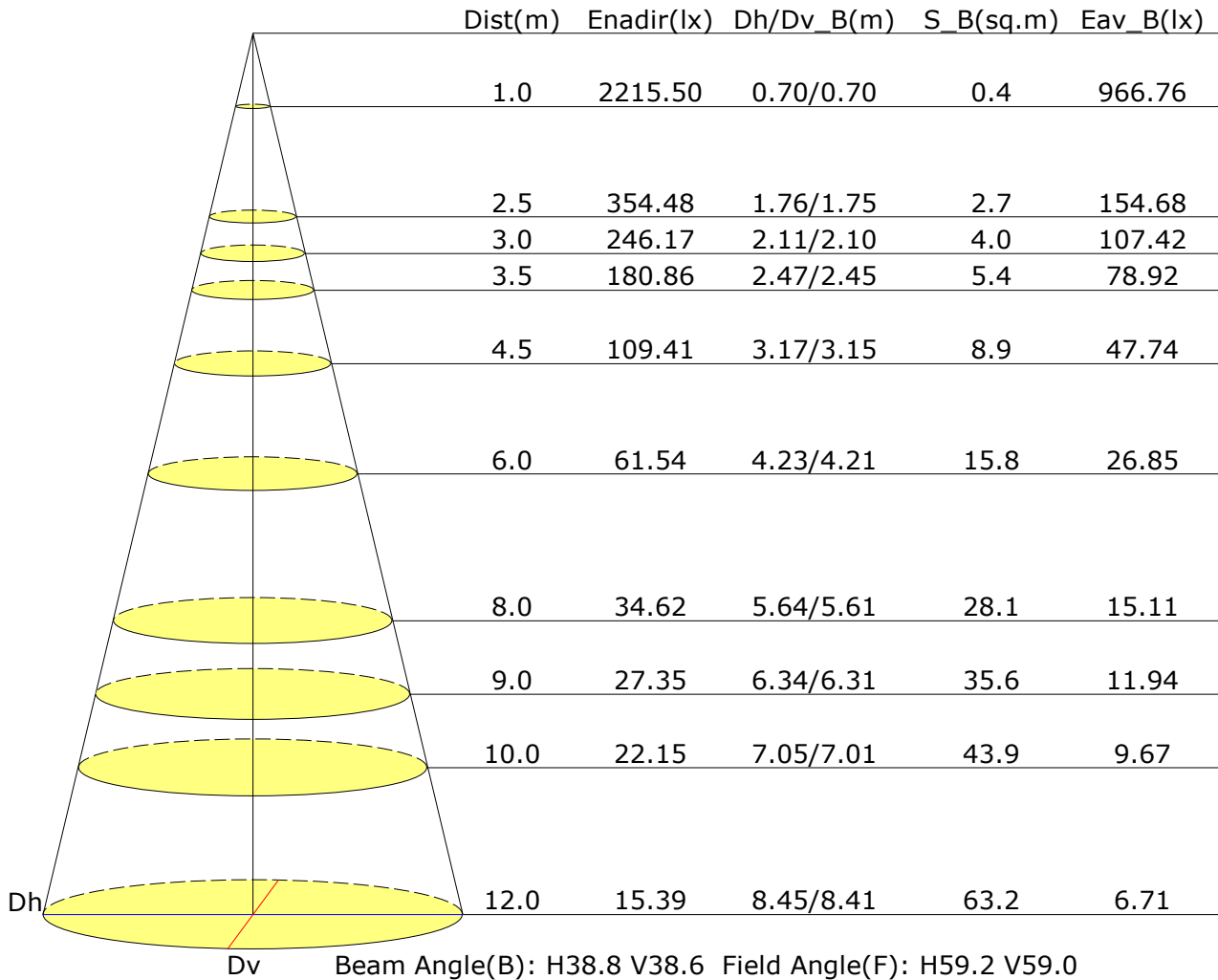


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	82	76	71	64	55	45	37	30	24
C90	82	76	71	64	54	45	37	29	24
C180	71	71	63	49	42	30	23	17	10
C270	71	71	62	49	42	29	22	17	10

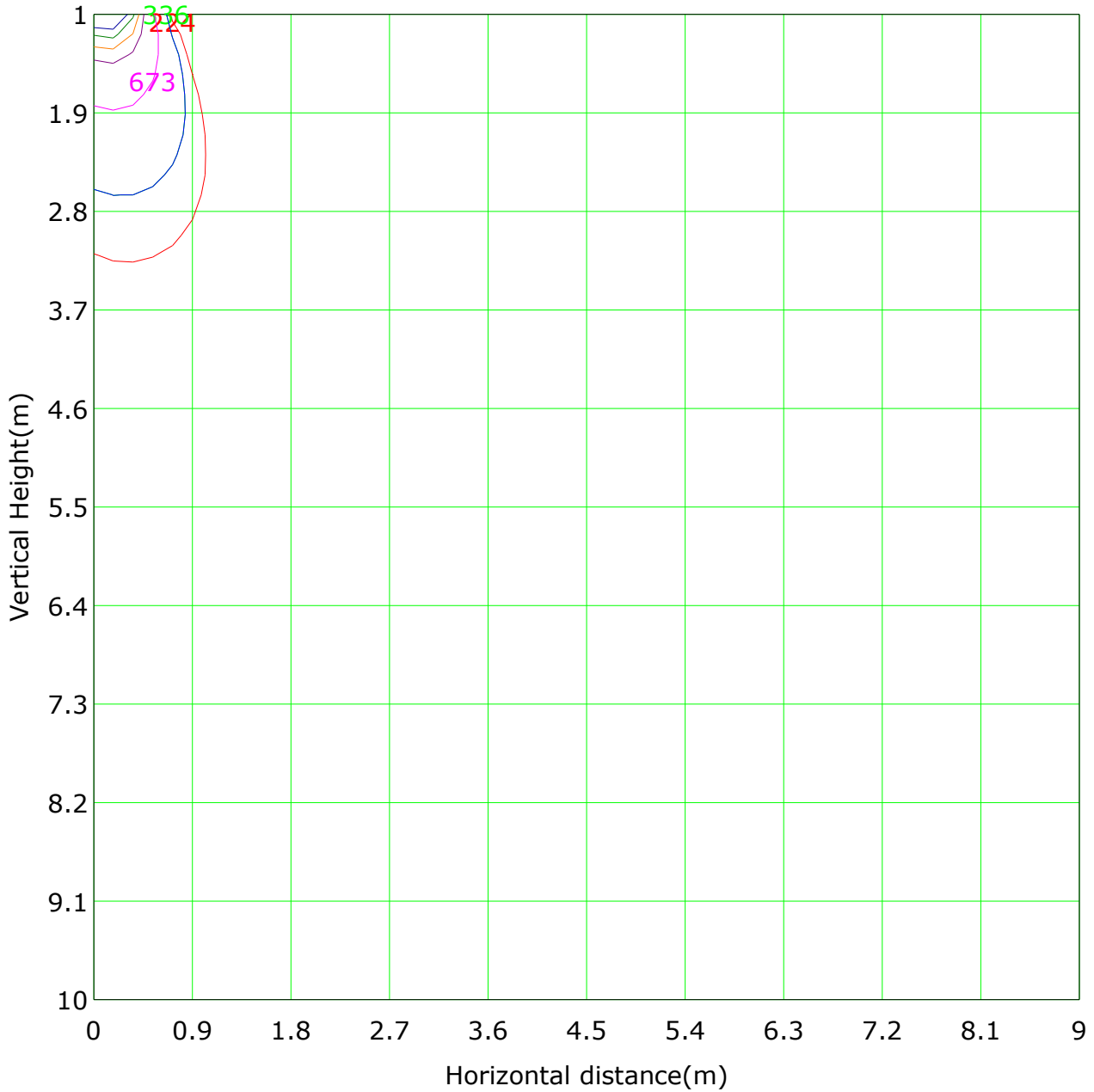
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 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

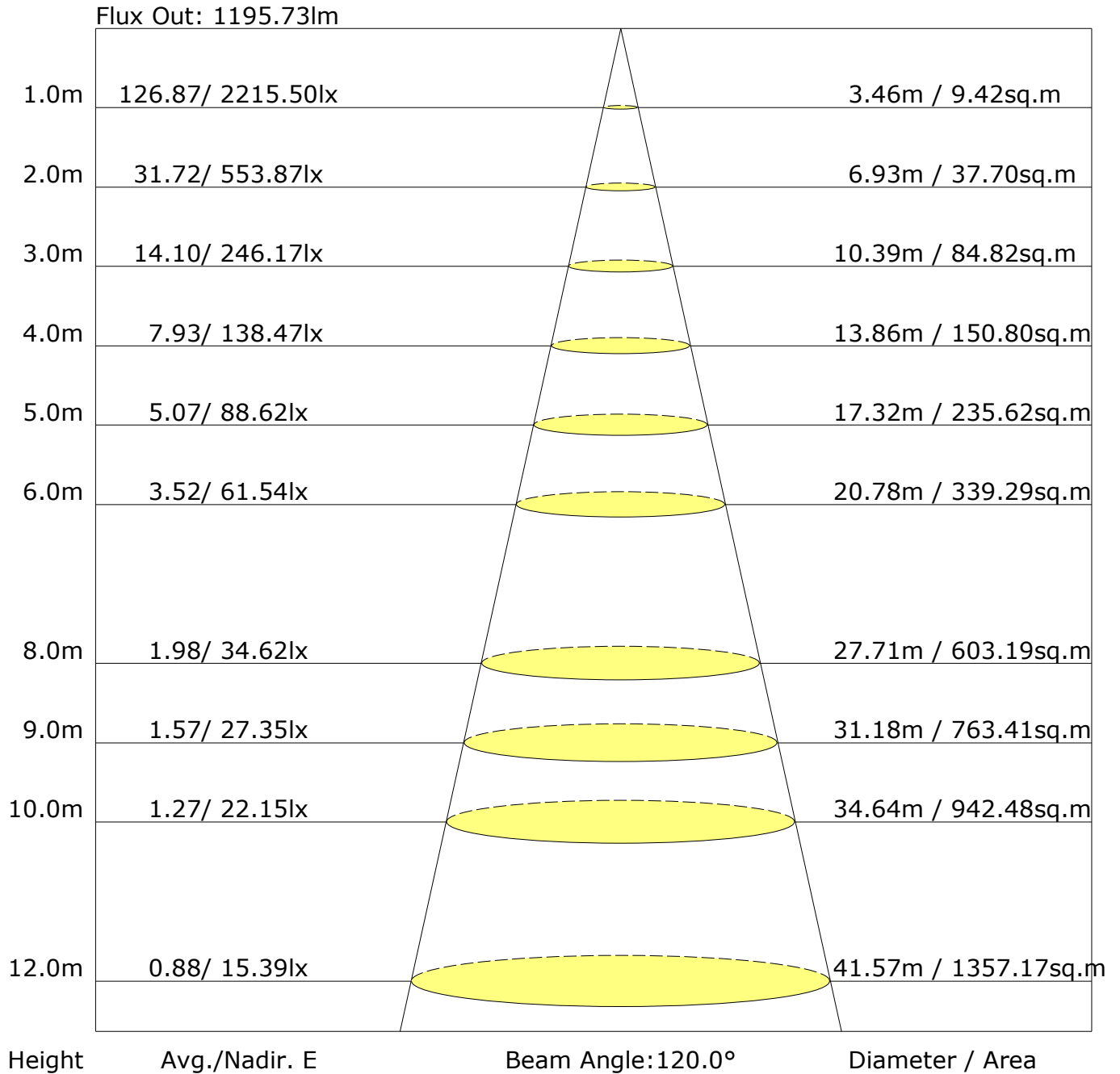


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 2242.7 lx
— (10%): 224.3 lx	— (15%): 336.4 lx	— (30%): 672.8 lx
— (15%): 336.4 lx	— (50%): 1121.3 lx	— (60%): 1345.6 lx
— (50%): 1121.3 lx	— (70%): 1569.9 lx	— (80%): 1794.2 lx
— (70%): 1569.9 lx		

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 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:

The Average Illuminance Effective Figure



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 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

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 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										
S=1.5H										
S=2.0H										

Calculate in accordance with CIE Pub.117. The table is revised with 1333lm ($8\log(F/F_0) = 1.0$).

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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

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2213.2	2.1	2.1	0.16	0.16
1.0-2.0	2206.2	6.3	8.5	0.48	0.63
2.0-3.0	2191.9	10.5	18.9	0.79	1.42
3.0-4.0	2170.1	14.5	33.5	1.09	2.51
4.0-5.0	2141.7	18.4	51.9	1.38	3.89
5.0-6.0	2107.6	22.2	74.0	1.66	5.55
6.0-7.0	2067.6	25.7	99.7	1.93	7.48
7.0-8.0	2020.0	28.9	128.6	2.17	9.65
8.0-9.0	1968.1	31.9	160.5	2.39	12.04
9.0-10.0	1912.7	34.6	195.1	2.60	14.64
10.0-11.0	1852.2	37.0	232.2	2.78	17.41
11.0-12.0	1786.7	39.1	271.2	2.93	20.34
12.0-13.0	1715.3	40.7	311.9	3.05	23.40
13.0-14.0	1637.4	41.9	353.8	3.14	26.54
14.0-15.0	1555.6	42.7	396.6	3.20	29.75
15.0-16.0	1473.8	43.2	439.8	3.24	32.99
16.0-17.0	1390.8	43.3	483.1	3.25	36.23
17.0-18.0	1307.8	43.1	526.2	3.23	39.47
18.0-19.0	1227.0	42.7	568.9	3.20	42.67
19.0-20.0	1148.6	42.0	610.9	3.15	45.83
20.0-21.0	1071.0	41.1	652.1	3.09	48.91
21.0-22.0	994.5	40.0	692.0	3.00	51.91
22.0-23.0	919.9	38.6	730.6	2.90	54.80
23.0-24.0	845.3	37.0	767.6	2.77	57.58
24.0-25.0	771.7	35.1	802.7	2.63	60.21
25.0-26.0	700.1	33.1	835.7	2.48	62.69
26.0-27.0	630.7	30.9	866.6	2.31	65.00
27.0-28.0	564.1	28.6	895.2	2.14	67.15
28.0-29.0	502.6	26.3	921.5	1.97	69.12
29.0-30.0	444.6	24.0	945.5	1.80	70.92
30.0-31.0	389.7	21.7	967.2	1.63	72.55
31.0-32.0	338.5	19.4	986.6	1.45	74.00
32.0-33.0	290.2	17.1	1003.7	1.28	75.28
33.0-34.0	247.0	14.9	1018.6	1.12	76.40
34.0-35.0	209.0	13.0	1031.6	0.97	77.38
35.0-36.0	176.1	11.2	1042.8	0.84	78.22

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 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	148.8	9.7	1052.5	0.73	78.95
37.0-38.0	126.7	8.5	1061.0	0.63	79.58
38.0-39.0	110.2	7.5	1068.5	0.56	80.15
39.0-40.0	98.1	6.8	1075.3	0.51	80.66
40.0-41.0	89.6	6.4	1081.7	0.48	81.14
41.0-42.0	84.2	6.1	1087.8	0.46	81.60
42.0-43.0	81.0	6.0	1093.8	0.45	82.05
43.0-44.0	78.8	5.9	1099.8	0.45	82.49
44.0-45.0	77.2	5.9	1105.7	0.45	82.94
45.0-46.0	76.0	5.9	1111.7	0.45	83.38
46.0-47.0	75.1	6.0	1117.6	0.45	83.83
47.0-48.0	74.1	6.0	1123.6	0.45	84.28
48.0-49.0	73.7	6.0	1129.7	0.45	84.74
49.0-50.0	73.7	6.1	1135.8	0.46	85.20
50.0-51.0	74.2	6.3	1142.1	0.47	85.67
51.0-52.0	75.1	6.4	1148.5	0.48	86.15
52.0-53.0	74.9	6.5	1155.1	0.49	86.64
53.0-54.0	72.4	6.4	1161.4	0.48	87.12
54.0-55.0	68.7	6.1	1167.6	0.46	87.58
55.0-56.0	65.4	5.9	1173.5	0.44	88.02
56.0-57.0	62.5	5.7	1179.2	0.43	88.45
57.0-58.0	60.3	5.6	1184.8	0.42	88.87
58.0-59.0	58.9	5.5	1190.3	0.41	89.28
59.0-60.0	57.5	5.4	1195.7	0.41	89.69
60.0-61.0	56.0	5.3	1201.1	0.40	90.09
61.0-62.0	54.4	5.2	1206.3	0.39	90.49
62.0-63.0	52.9	5.1	1211.5	0.39	90.87
63.0-64.0	51.2	5.0	1216.5	0.38	91.25
64.0-65.0	49.2	4.9	1221.4	0.37	91.61
65.0-66.0	46.9	4.7	1226.0	0.35	91.96
66.0-67.0	44.5	4.5	1230.5	0.34	92.30
67.0-68.0	42.5	4.3	1234.8	0.32	92.62
68.0-69.0	40.4	4.1	1238.9	0.31	92.93
69.0-70.0	38.2	3.9	1242.9	0.29	93.23
70.0-71.0	36.7	3.8	1246.7	0.28	93.51
71.0-72.0	35.3	3.7	1250.3	0.28	93.79

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Test Device: GPM-1800B
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	33.8	3.5	1253.9	0.27	94.05
73.0-74.0	32.1	3.4	1257.2	0.25	94.31
74.0-75.0	30.3	3.2	1260.5	0.24	94.55
75.0-76.0	28.7	3.0	1263.5	0.23	94.77
76.0-77.0	27.2	2.9	1266.4	0.22	94.99
77.0-78.0	25.9	2.8	1269.2	0.21	95.20
78.0-79.0	24.3	2.6	1271.8	0.20	95.40
79.0-80.0	23.5	2.5	1274.3	0.19	95.59
80.0-81.0	22.6	2.4	1276.8	0.18	95.77
81.0-82.0	21.1	2.3	1279.0	0.17	95.94
82.0-83.0	19.5	2.1	1281.2	0.16	96.10
83.0-84.0	18.1	2.0	1283.1	0.15	96.25
84.0-85.0	17.2	1.9	1285.0	0.14	96.39
85.0-86.0	16.5	1.8	1286.8	0.14	96.52
86.0-87.0	15.1	1.7	1288.5	0.12	96.65
87.0-88.0	13.7	1.5	1290.0	0.11	96.76
88.0-89.0	12.9	1.4	1291.4	0.11	96.87
89.0-90.0	12.3	1.3	1292.7	0.10	96.97
90.0-91.0	11.7	1.3	1294.0	0.10	97.06
91.0-92.0	11.2	1.2	1295.3	0.09	97.16
92.0-93.0	10.8	1.2	1296.4	0.09	97.24
93.0-94.0	10.2	1.1	1297.6	0.08	97.33
94.0-95.0	9.7	1.1	1298.6	0.08	97.41
95.0-96.0	9.4	1.0	1299.6	0.08	97.48
96.0-97.0	9.3	1.0	1300.6	0.08	97.56
97.0-98.0	9.3	1.0	1301.7	0.08	97.64
98.0-99.0	9.5	1.0	1302.7	0.08	97.71
99.0-100.0	9.2	1.0	1303.7	0.07	97.79
100.0-101.0	8.5	0.9	1304.6	0.07	97.86
101.0-102.0	8.1	0.9	1305.5	0.07	97.92
102.0-103.0	7.7	0.8	1306.3	0.06	97.98
103.0-104.0	7.5	0.8	1307.1	0.06	98.04
104.0-105.0	7.3	0.8	1307.9	0.06	98.10
105.0-106.0	7.0	0.7	1308.6	0.06	98.16
106.0-107.0	6.6	0.7	1309.3	0.05	98.21
107.0-108.0	6.2	0.7	1310.0	0.05	98.26

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

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

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	6.0	0.6	1310.6	0.05	98.31
109.0-110.0	5.8	0.6	1311.2	0.04	98.35
110.0-111.0	5.5	0.6	1311.7	0.04	98.39
111.0-112.0	5.3	0.5	1312.3	0.04	98.43
112.0-113.0	5.2	0.5	1312.8	0.04	98.47
113.0-114.0	5.0	0.5	1313.3	0.04	98.51
114.0-115.0	4.9	0.5	1313.8	0.04	98.55
115.0-116.0	4.7	0.5	1314.3	0.04	98.58
116.0-117.0	4.6	0.5	1314.7	0.03	98.62
117.0-118.0	4.6	0.4	1315.2	0.03	98.65
118.0-119.0	4.5	0.4	1315.6	0.03	98.68
119.0-120.0	4.5	0.4	1316.0	0.03	98.72
120.0-121.0	4.6	0.4	1316.5	0.03	98.75
121.0-122.0	4.8	0.4	1316.9	0.03	98.78
122.0-123.0	4.7	0.4	1317.4	0.03	98.81
123.0-124.0	4.4	0.4	1317.8	0.03	98.84
124.0-125.0	4.2	0.4	1318.1	0.03	98.87
125.0-126.0	4.1	0.4	1318.5	0.03	98.90
126.0-127.0	4.1	0.4	1318.9	0.03	98.93
127.0-128.0	4.1	0.4	1319.2	0.03	98.95
128.0-129.0	4.1	0.4	1319.6	0.03	98.98
129.0-130.0	4.2	0.4	1319.9	0.03	99.01
130.0-131.0	4.2	0.3	1320.3	0.03	99.03
131.0-132.0	4.2	0.3	1320.6	0.03	99.06
132.0-133.0	4.3	0.3	1321.0	0.03	99.09
133.0-134.0	4.4	0.3	1321.3	0.03	99.11
134.0-135.0	4.4	0.3	1321.7	0.03	99.14
135.0-136.0	4.5	0.3	1322.0	0.03	99.16
136.0-137.0	4.7	0.4	1322.4	0.03	99.19
137.0-138.0	4.8	0.4	1322.7	0.03	99.22
138.0-139.0	5.0	0.4	1323.1	0.03	99.24
139.0-140.0	5.1	0.4	1323.5	0.03	99.27
140.0-141.0	5.3	0.4	1323.8	0.03	99.30
141.0-142.0	5.5	0.4	1324.2	0.03	99.33
142.0-143.0	5.6	0.4	1324.6	0.03	99.36
143.0-144.0	5.8	0.4	1324.9	0.03	99.38

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 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	5.9	0.4	1325.3	0.03	99.41
145.0-146.0	6.1	0.4	1325.7	0.03	99.44
146.0-147.0	6.2	0.4	1326.1	0.03	99.47
147.0-148.0	6.3	0.4	1326.4	0.03	99.50
148.0-149.0	6.4	0.4	1326.8	0.03	99.52
149.0-150.0	6.5	0.4	1327.2	0.03	99.55
150.0-151.0	6.6	0.4	1327.5	0.03	99.58
151.0-152.0	6.8	0.4	1327.9	0.03	99.60
152.0-153.0	6.9	0.3	1328.2	0.03	99.63
153.0-154.0	7.0	0.3	1328.6	0.03	99.66
154.0-155.0	7.1	0.3	1328.9	0.03	99.68
155.0-156.0	7.1	0.3	1329.2	0.02	99.71
156.0-157.0	7.2	0.3	1329.5	0.02	99.73
157.0-158.0	7.3	0.3	1329.9	0.02	99.75
158.0-159.0	7.3	0.3	1330.1	0.02	99.77
159.0-160.0	7.4	0.3	1330.4	0.02	99.80
160.0-161.0	7.4	0.3	1330.7	0.02	99.82
161.0-162.0	7.4	0.3	1331.0	0.02	99.83
162.0-163.0	7.5	0.2	1331.2	0.02	99.85
163.0-164.0	7.5	0.2	1331.4	0.02	99.87
164.0-165.0	7.4	0.2	1331.7	0.02	99.89
165.0-166.0	7.4	0.2	1331.9	0.02	99.90
166.0-167.0	7.3	0.2	1332.1	0.01	99.92
167.0-168.0	7.2	0.2	1332.2	0.01	99.93
168.0-169.0	7.2	0.2	1332.4	0.01	99.94
169.0-170.0	7.1	0.1	1332.5	0.01	99.95
170.0-171.0	7.0	0.1	1332.6	0.01	99.96
171.0-172.0	6.9	0.1	1332.8	0.01	99.97
172.0-173.0	6.8	0.1	1332.9	0.01	99.98
173.0-174.0	6.7	0.1	1332.9	0.01	99.98
174.0-175.0	6.6	0.1	1333.0	0.01	99.99
175.0-176.0	6.6	0.1	1333.1	0.00	99.99
176.0-177.0	6.6	0.0	1333.1	0.00	100.00
177.0-178.0	6.6	0.0	1333.1	0.00	100.00
178.0-179.0	6.5	0.0	1333.2	0.00	100.00
179.0-180.0	6.5	0.0	1333.2	0.00	100.00

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

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

Zonal Lumen (Continue 5)

cone flux(90°): 1105.71 lm

%lum = 82.9%

%lamp = 82.9%

cone flux(120°): 1195.73 lm

%lum = 89.7%

%lamp = 89.7%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	2215.5	2215.5	2215.5	2215.5	2215.5					
G1.0	2254.2	2255.3	2167.6	2166.2	2254.2					
G2.0	2286.9	2285.0	2118.4	2115.9	2286.9					
G3.0	2310.3	2312.6	2054.2	2052.0	2310.3					
G4.0	2325.2	2328.4	1990.7	1986.9	2325.2					
G5.0	2336.4	2340.6	1910.8	1914.1	2336.4					
G6.0	2347.1	2350.9	1833.0	1827.8	2347.1					
G7.0	2347.1	2351.7	1744.7	1738.4	2347.1					
G8.0	2345.2	2349.5	1645.1	1638.5	2345.2					
G9.0	2333.2	2339.1	1550.8	1543.4	2333.2					
G10.0	2319.6	2323.4	1454.8	1437.2	2319.6					
G11.0	2298.8	2302.6	1344.9	1336.7	2298.8					
G12.0	2269.0	2272.7	1238.9	1229.8	2269.0					
G13.0	2235.2	2239.0	1129.1	1108.9	2235.2					
G14.0	2197.4	2201.0	1005.2	983.6	2197.4					
G15.0	2146.9	2149.7	891.2	869.7	2146.9					
G16.0	2094.4	2097.0	781.0	760.4	2094.4					
G17.0	2033.7	2036.5	670.9	652.9	2033.7					
G18.0	1961.0	1963.4	580.4	563.4	1961.0					
G19.0	1889.4	1891.9	490.7	475.9	1889.4					
G20.0	1810.8	1812.9	415.7	401.9	1810.8					
G21.0	1720.8	1723.1	347.5	335.2	1720.8					
G22.0	1633.4	1635.3	288.3	272.5	1633.4					
G23.0	1537.8	1529.5	235.1	226.9	1537.8					
G24.0	1423.9	1425.2	195.7	188.6	1423.9					
G25.0	1311.2	1312.5	162.4	154.0	1311.2					
G26.0	1198.4	1199.6	133.7	129.4	1198.4					
G27.0	1084.4	1074.2	114.3	111.3	1084.4					
G28.0	970.1	959.2	100.5	98.6	970.1					
G29.0	860.8	850.3	91.0	90.1	860.8					
G30.0	745.6	745.6	86.7	86.4	745.6					
G31.0	646.7	637.4	84.6	84.6	646.7					
G32.0	544.1	544.0	83.3	83.3	544.1					
G33.0	455.1	446.8	82.4	82.3	455.1					
G34.0	376.8	369.1	81.5	81.5	376.8					
G35.0	301.3	301.3	80.2	80.2	301.3					
G36.0	243.6	243.6	79.4	79.5	243.6					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 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	196.5	192.4	77.9	77.7	196.5					
G38.0	159.3	156.2	76.6	76.7	159.3					
G39.0	131.7	129.8	75.6	75.6	131.7					
G40.0	112.0	110.7	74.7	74.8	112.0					
G41.0	99.0	98.0	73.9	74.0	99.0					
G42.0	91.3	90.9	73.2	73.3	91.3					
G43.0	87.1	86.6	72.6	72.7	87.1					
G44.0	83.9	83.8	71.9	71.9	83.9					
G45.0	81.8	81.8	71.3	71.3	81.8					
G46.0	80.4	80.3	70.7	70.7	80.4					
G47.0	79.0	78.9	70.2	70.2	79.0					
G48.0	77.9	77.8	69.5	69.6	77.9					
G49.0	77.0	77.0	69.6	70.8	77.0					
G50.0	76.3	76.4	71.1	71.0	76.3					
G51.0	76.0	76.1	73.3	73.2	76.0					
G52.0	76.3	76.7	74.4	75.1	76.3					
G53.0	75.1	74.4	74.3	73.1	75.1					
G54.0	72.7	72.5	69.1	67.9	72.7					
G55.0	71.4	71.3	62.8	62.0	71.4					
G56.0	70.3	70.2	59.6	55.8	70.3					
G57.0	69.3	69.1	53.1	52.7	69.3					
G58.0	68.0	67.7	51.4	51.3	68.0					
G59.0	66.3	66.1	50.4	50.1	66.3					
G60.0	64.3	64.1	49.4	49.3	64.3					
G61.0	62.3	61.9	48.4	48.1	62.3					
G62.0	60.6	60.1	47.2	46.9	60.6					
G63.0	58.6	58.1	46.0	45.8	58.6					
G64.0	56.6	56.4	44.4	43.9	56.6					
G65.0	54.6	54.5	42.0	41.5	54.6					
G66.0	52.3	52.0	39.6	39.0	52.3					
G67.0	50.0	49.5	37.2	36.5	50.0					
G68.0	48.8	48.3	35.2	34.8	48.8					
G69.0	46.6	46.4	32.0	31.2	46.6					
G70.0	45.1	45.0	29.9	29.5	45.1					
G71.0	43.7	43.6	28.5	28.1	43.7					
G72.0	42.6	41.9	27.1	26.9	42.6					
G73.0	40.3	39.9	26.0	25.7	40.3					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 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	38.4	38.1	24.5	23.8	38.4					
G75.0	36.8	36.6	22.6	22.0	36.8					
G76.0	35.5	35.3	20.5	20.1	35.5					
G77.0	34.3	34.1	19.2	18.8	34.3					
G78.0	32.8	32.6	17.8	17.3	32.8					
G79.0	31.2	30.9	16.2	15.9	31.2					
G80.0	29.7	29.5	17.4	17.4	29.7					
G81.0	28.5	28.4	15.2	14.5	28.5					
G82.0	27.4	27.2	13.9	13.4	27.4					
G83.0	26.0	25.9	11.7	10.7	26.0					
G84.0	24.8	24.8	10.5	10.4	24.8					
G85.0	23.6	23.6	10.2	10.0	23.6					
G86.0	22.9	22.9	9.4	9.3	22.9					
G87.0	20.2	19.8	8.5	8.3	20.2					
G88.0	18.5	18.4	8.0	7.9	18.5					
G89.0	17.5	17.5	7.7	7.6	17.5					
G90.0	16.8	16.7	7.3	7.2	16.8					
G91.0	16.1	16.0	6.9	6.8	16.1					
G92.0	15.4	15.3	6.6	6.6	15.4					
G93.0	14.6	14.5	6.5	6.5	14.6					
G94.0	13.4	13.4	6.3	6.3	13.4					
G95.0	12.7	12.8	6.1	6.1	12.7					
G96.0	12.5	12.7	6.1	6.1	12.5					
G97.0	12.4	12.5	5.9	6.0	12.4					
G98.0	12.8	13.2	5.8	5.8	12.8					
G99.0	13.7	13.2	5.7	5.7	13.7					
G100.0	12.1	12.0	5.5	5.5	12.1					
G101.0	11.2	11.2	5.4	5.4	11.2					
G102.0	10.6	10.6	5.2	5.2	10.6					
G103.0	10.2	10.2	5.0	5.0	10.2					
G104.0	9.9	10.0	4.9	4.8	9.9					
G105.0	9.7	9.7	4.8	4.7	9.7					
G106.0	9.3	9.0	4.6	4.5	9.3					
G107.0	8.3	8.3	4.5	4.3	8.3					
G108.0	7.9	7.9	4.4	4.2	7.9					
G109.0	7.6	7.6	4.2	4.1	7.6					
G110.0	7.2	7.2	4.1	4.0	7.2					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 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	6.9	7.0	4.0	3.9	6.9					
G112.0	6.6	6.7	3.9	3.8	6.6					
G113.0	6.4	6.5	3.8	3.8	6.4					
G114.0	6.2	6.3	3.7	3.6	6.2					
G115.0	5.9	5.9	3.7	3.6	5.9					
G116.0	5.8	5.8	3.6	3.6	5.8					
G117.0	5.6	5.7	3.6	3.5	5.6					
G118.0	5.5	5.6	3.6	3.5	5.5					
G119.0	5.4	5.5	3.6	3.6	5.4					
G120.0	5.5	5.6	3.6	3.6	5.5					
G121.0	5.7	6.0	3.6	3.6	5.7					
G122.0	5.9	5.9	3.6	3.6	5.9					
G123.0	5.6	5.4	3.6	3.6	5.6					
G124.0	4.7	4.7	3.7	3.8	4.7					
G125.0	4.4	4.4	3.8	3.8	4.4					
G126.0	4.3	4.2	3.9	4.0	4.3					
G127.0	4.2	4.2	4.0	4.1	4.2					
G128.0	4.0	4.0	4.2	4.2	4.0					
G129.0	4.0	4.0	4.3	4.3	4.0					
G130.0	3.8	3.9	4.4	4.5	3.8					
G131.0	3.8	3.8	4.6	4.6	3.8					
G132.0	3.7	3.8	4.8	4.8	3.7					
G133.0	3.7	3.8	4.9	5.0	3.7					
G134.0	3.7	3.7	5.1	5.1	3.7					
G135.0	3.7	3.8	5.2	5.3	3.7					
G136.0	3.7	3.8	5.4	5.4	3.7					
G137.0	3.8	3.9	5.6	5.6	3.8					
G138.0	3.9	4.1	5.7	5.8	3.9					
G139.0	4.1	4.2	5.9	6.0	4.1					
G140.0	4.3	4.4	6.1	6.1	4.3					
G141.0	4.5	4.6	6.2	6.3	4.5					
G142.0	4.7	4.8	6.3	6.4	4.7					
G143.0	4.9	5.0	6.4	6.5	4.9					
G144.0	5.1	5.3	6.5	6.5	5.1					
G145.0	5.3	5.5	6.5	6.5	5.3					
G146.0	5.6	5.8	6.5	6.6	5.6					
G147.0	5.9	6.0	6.5	6.5	5.9					

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

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

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	6.2	6.3	6.5	6.6	6.2					
G149.0	6.4	6.5	6.5	6.5	6.4					
G150.0	6.7	6.8	6.4	6.4	6.7					
G151.0	7.0	7.1	6.3	6.3	7.0					
G152.0	7.3	7.5	6.3	6.3	7.3					
G153.0	7.6	7.7	6.2	6.2	7.6					
G154.0	7.9	8.0	6.1	6.1	7.9					
G155.0	8.2	8.3	6.0	6.0	8.2					
G156.0	8.4	8.5	5.9	5.9	8.4					
G157.0	8.7	8.8	5.7	5.8	8.7					
G158.0	8.9	9.0	5.6	5.7	8.9					
G159.0	9.2	9.2	5.5	5.6	9.2					
G160.0	9.4	9.4	5.5	5.4	9.4					
G161.0	9.6	9.6	5.2	5.3	9.6					
G162.0	9.7	9.7	5.2	5.2	9.7					
G163.0	9.8	9.9	5.1	5.1	9.8					
G164.0	9.9	10.0	4.9	5.0	9.9					
G165.0	9.9	10.0	4.8	4.8	9.9					
G166.0	9.9	10.0	4.8	4.8	9.9					
G167.0	9.8	9.9	4.7	4.7	9.8					
G168.0	9.7	9.7	4.6	4.7	9.7					
G169.0	9.6	9.6	4.6	4.6	9.6					
G170.0	9.4	9.4	4.6	4.7	9.4					
G171.0	9.1	9.1	4.7	4.8	9.1					
G172.0	8.9	8.8	4.8	4.8	8.9					
G173.0	8.6	8.6	4.9	4.9	8.6					
G174.0	8.4	8.3	5.0	5.0	8.4					
G175.0	8.1	8.0	5.1	5.2	8.1					
G176.0	7.8	7.7	5.5	5.4	7.8					
G177.0	7.6	7.5	5.7	5.8	7.6					
G178.0	7.3	7.3	5.9	6.0	7.3					
G179.0	6.9	6.7	6.2	6.1	6.9					
G180.0	6.5	6.4	6.5	6.5	6.5					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.508 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