

Report No.: TH-3530A

Test Time: 2022/7/1 18:53

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog:
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 0.204 A
 Power Factor: 0.971

Luminaire Description: VAP2323AB
 Lamp Description:
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 120.1 V
 Power: 23.82 W

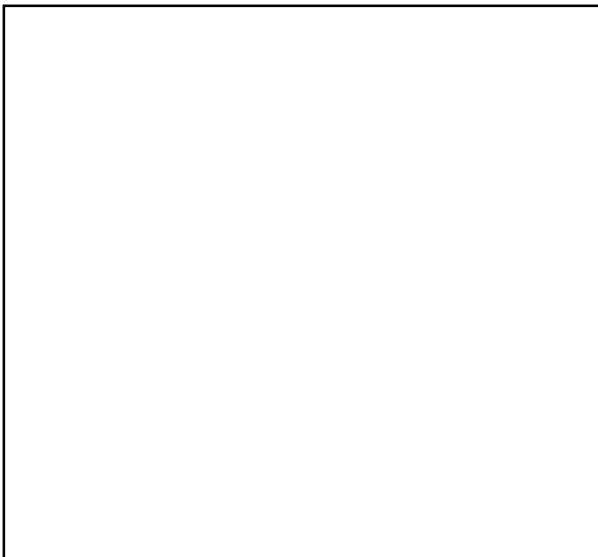
Photometric Results

CIE Class: Semi-Direct
 Measurement Flux: 1229.8 lm
 Downward Ratio: 87%
 Horizontal Diffuse Angle(50%): H42.7
 Vertical Diffuse Angle(50%): V41.6
 Luminaire Efficacy Rating (LER): 51.68
 Max. Intensity: 1770.48 cd
 S/MH(C0/C180): 0.68

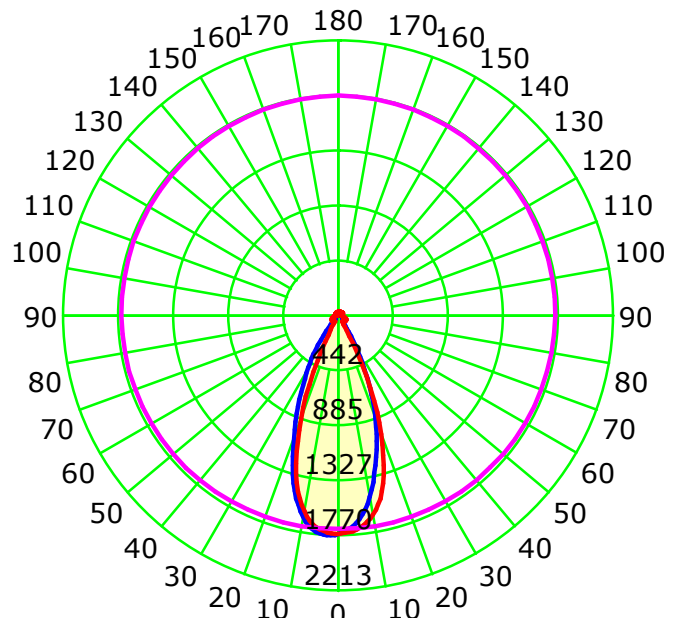
Total Rated Lamp Lumens: 1229.8 lm
 Efficiency: 100%
 Upward Ratio: 13%

C0r0 Intensity: 1758.03 cd
 Pos of Max. Intensity: H180 V3
 S/MH(C90/C270): 0.69

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

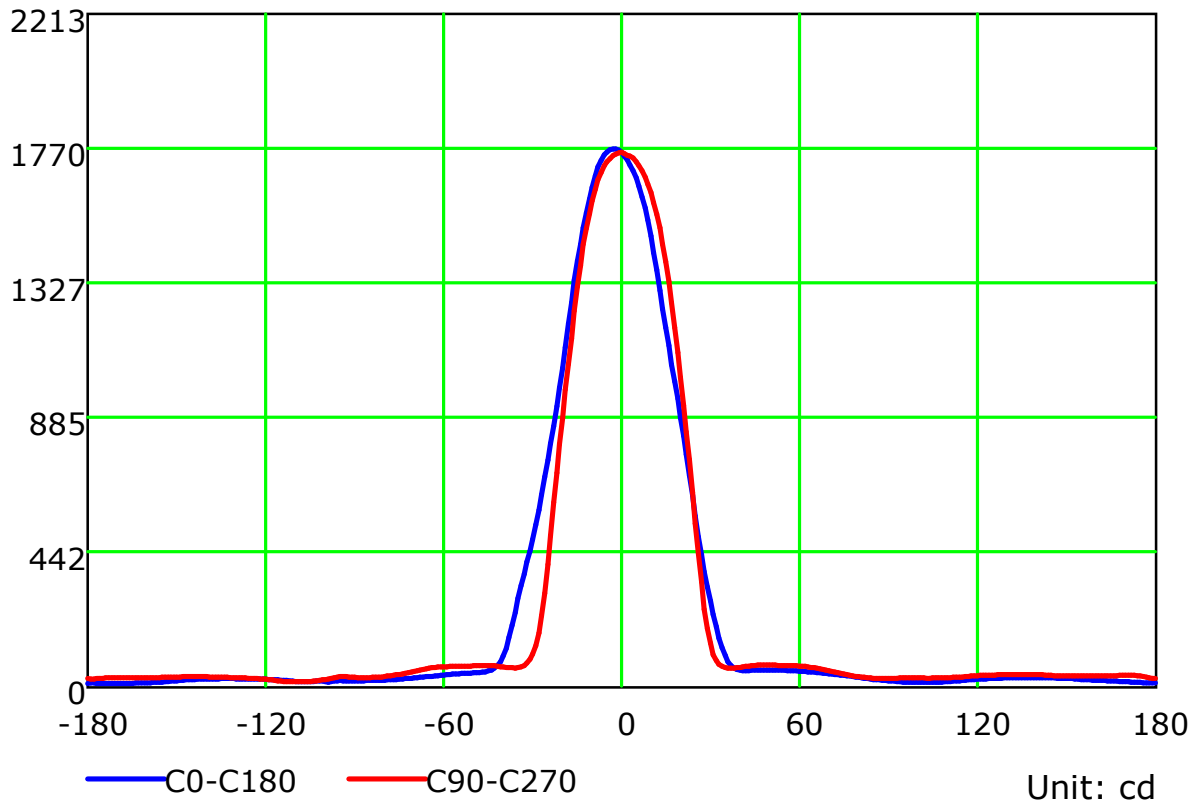
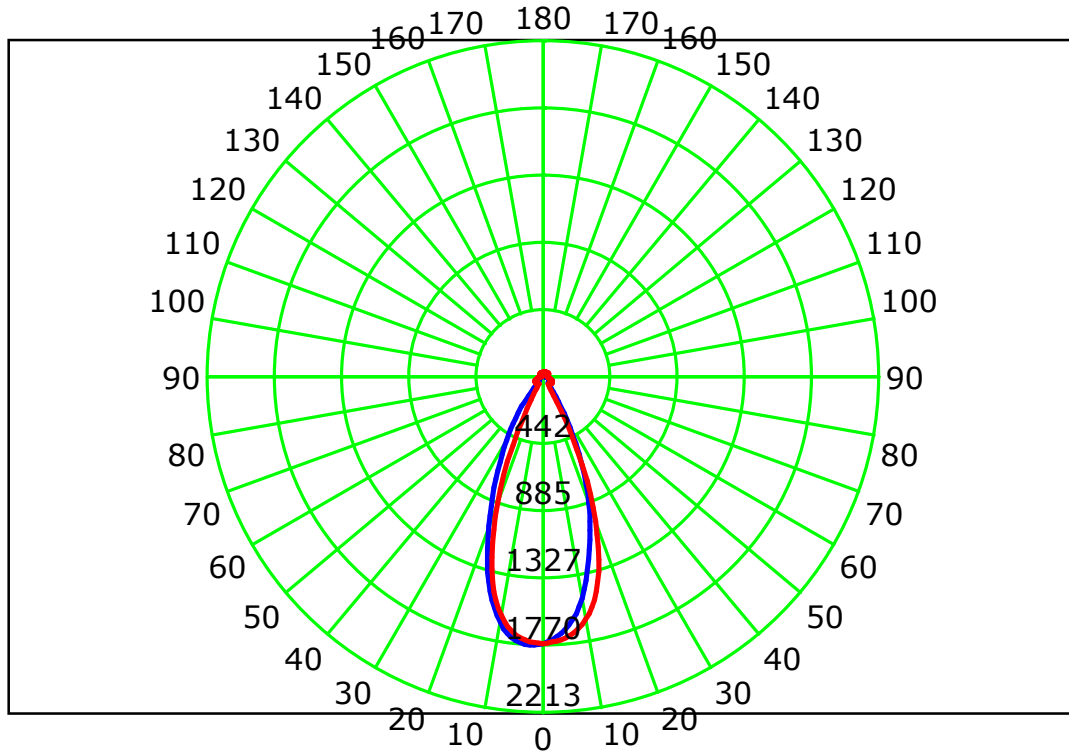
Average Diffuse Angle(50%): 42.1°

— C0-C180 — C90-C270 — G3

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



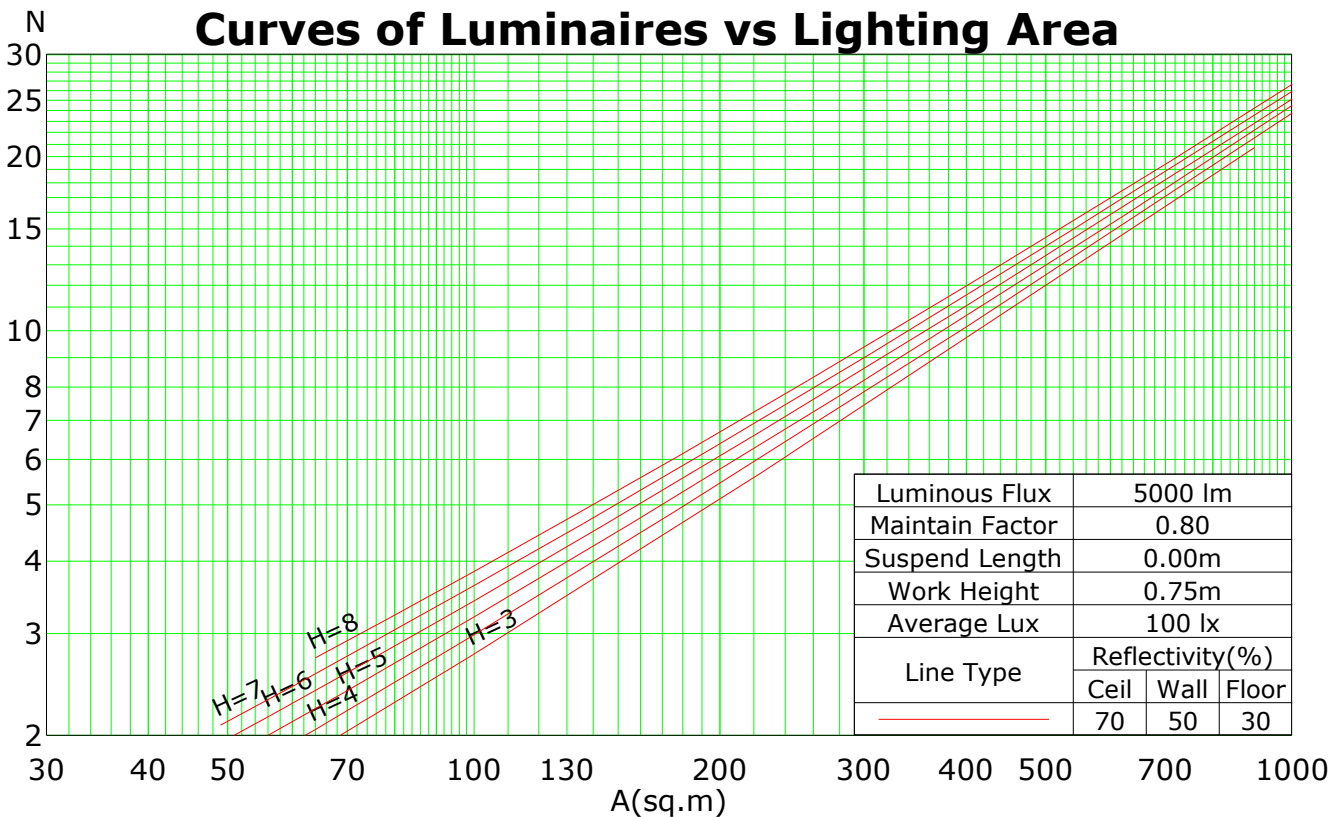
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 Inspector:

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	1.16	1.16	1.16	1.16	1.12	1.12	1.12	1.12	1.04	1.04	1.04	0.97	0.97	0.97	0.90	0.90	0.90	0.87
1	1.09	1.05	1.02	0.99	1.05	1.01	0.99	0.96	0.95	0.93	0.91	0.89	0.87	0.86	0.84	0.82	0.81	0.78
2	1.02	0.96	0.91	0.87	0.98	0.93	0.89	0.85	0.88	0.84	0.81	0.83	0.80	0.78	0.78	0.76	0.74	0.72
3	0.96	0.89	0.83	0.78	0.93	0.86	0.81	0.77	0.82	0.78	0.74	0.78	0.74	0.71	0.74	0.71	0.69	0.66
4	0.91	0.82	0.76	0.71	0.88	0.80	0.75	0.70	0.77	0.72	0.68	0.73	0.69	0.66	0.70	0.67	0.64	0.62
5	0.86	0.77	0.71	0.66	0.84	0.75	0.69	0.65	0.72	0.67	0.63	0.69	0.65	0.62	0.66	0.63	0.60	0.58
6	0.82	0.72	0.66	0.61	0.80	0.71	0.65	0.61	0.68	0.63	0.59	0.66	0.61	0.58	0.63	0.59	0.57	0.55
7	0.78	0.68	0.62	0.58	0.76	0.67	0.61	0.57	0.65	0.60	0.56	0.62	0.58	0.55	0.60	0.56	0.54	0.52
8	0.75	0.65	0.58	0.54	0.73	0.64	0.58	0.54	0.61	0.56	0.53	0.59	0.55	0.52	0.58	0.54	0.51	0.49
9	0.71	0.61	0.55	0.51	0.70	0.60	0.55	0.51	0.59	0.54	0.50	0.57	0.52	0.49	0.55	0.51	0.48	0.47
10	0.68	0.58	0.53	0.49	0.67	0.58	0.52	0.48	0.56	0.51	0.48	0.54	0.50	0.47	0.53	0.49	0.46	0.45

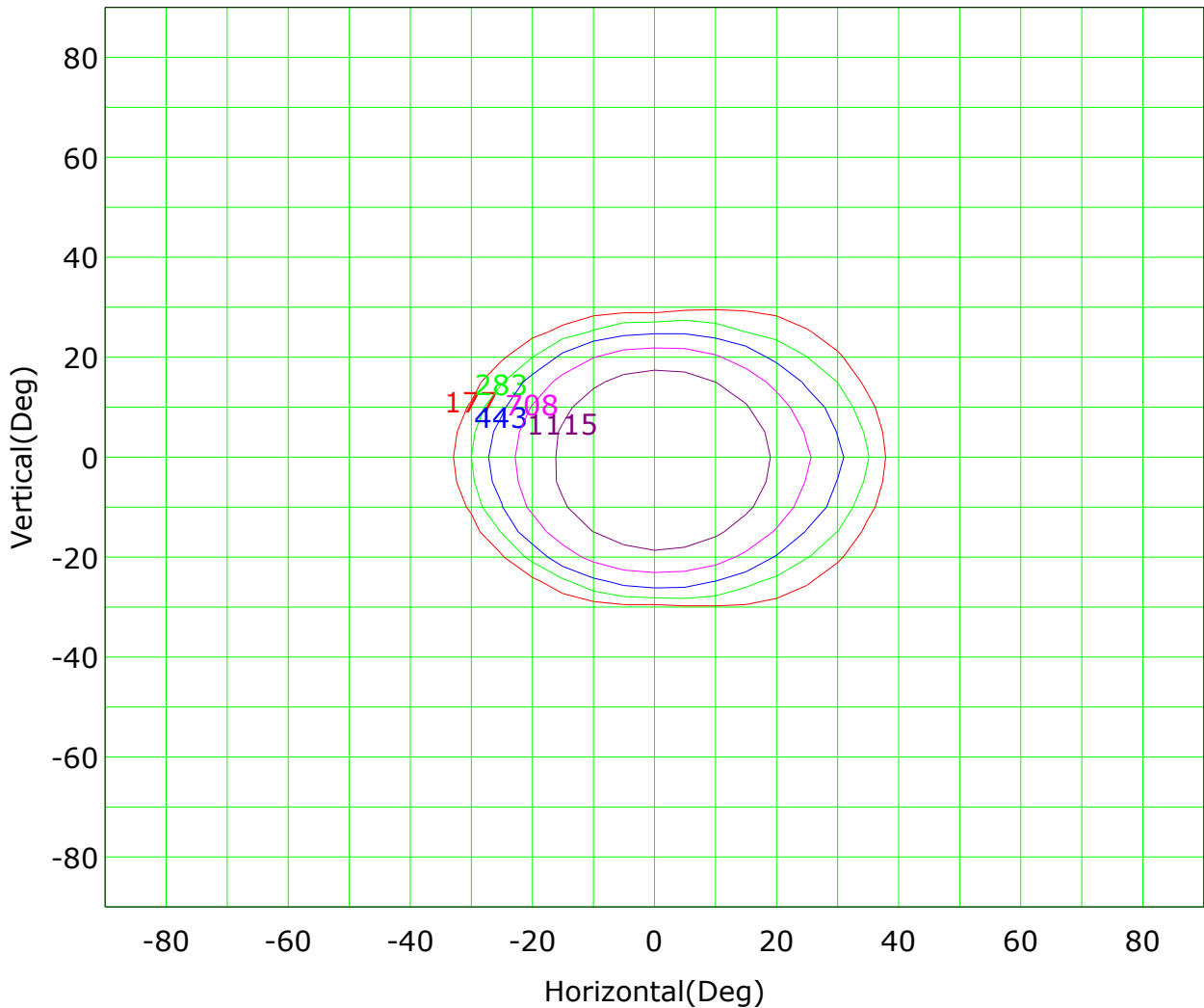
Spacing Criteria (0-180): 0.68
 Spacing Criteria (90-270): 0.69
 Spacing Criteria (Diagonal): 0.65



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 Test Device: GPM-1800B
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 Humidity: 65
 Inspector:

Isocandela (rectangle)



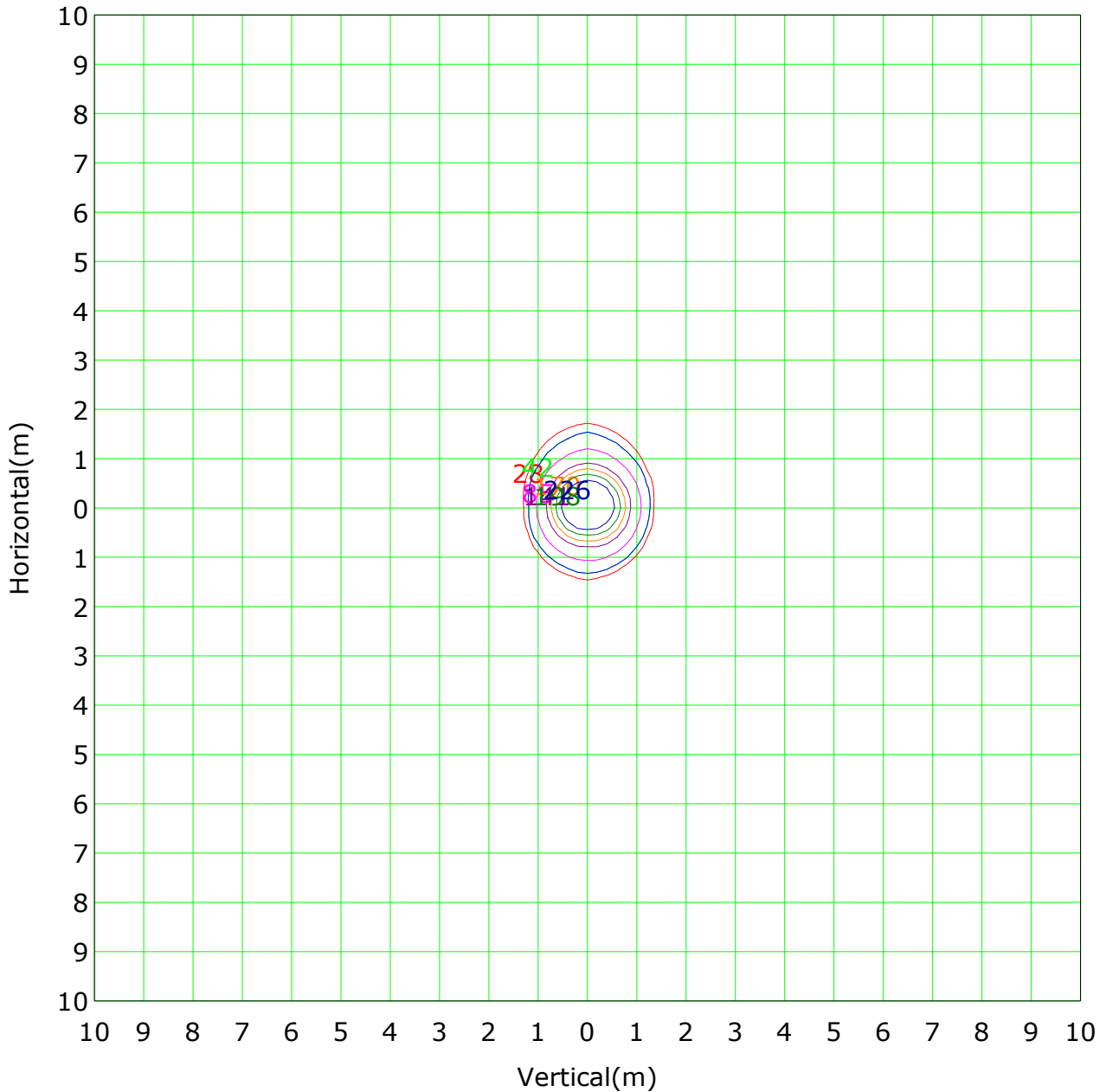
Imax (100%): 1770 cd

— (10%): 177 cd	— (16%): 283 cd
— (25%): 443 cd	— (40%): 708 cd
— (63%): 1115 cd	— (100%): 1770 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%): 282.7 lx	
— (10%): 28.3 lx	— (15%): 42.4 lx	— (30%): 84.8 lx	— (60%): 169.6 lx
— (15%): 42.4 lx	— (50%): 141.4 lx	— (80%): 226.2 lx	
— (50%): 141.4 lx	— (70%): 197.9 lx		

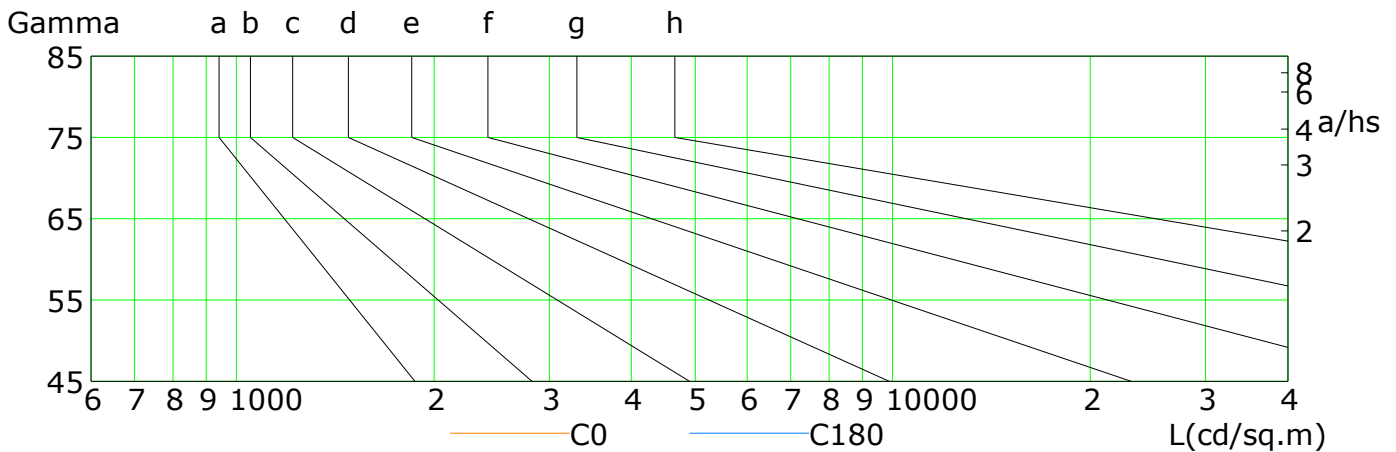
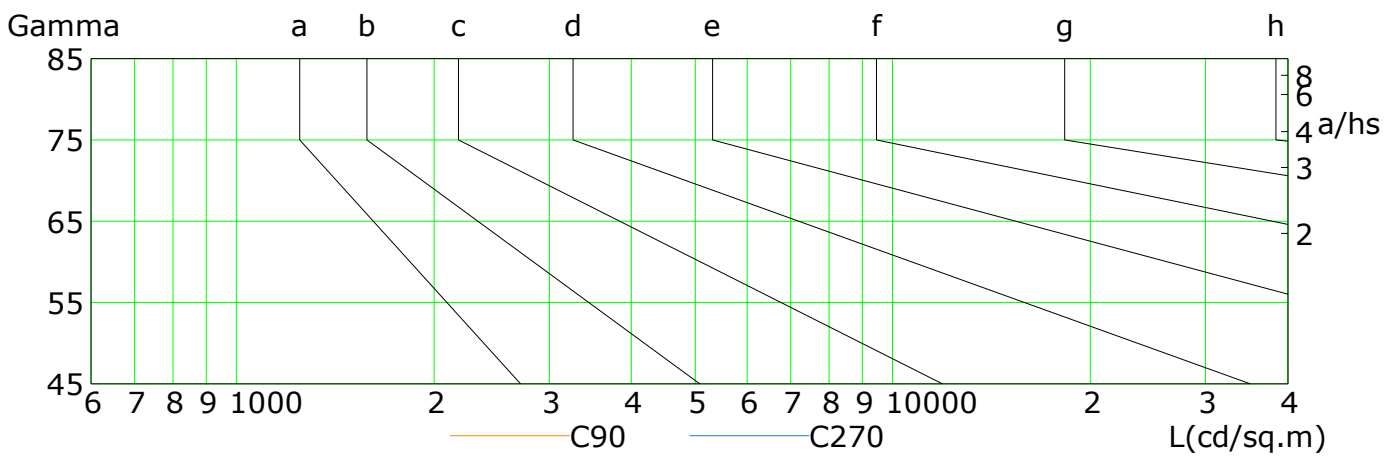
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 Humidity: 65
 Inspector:

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

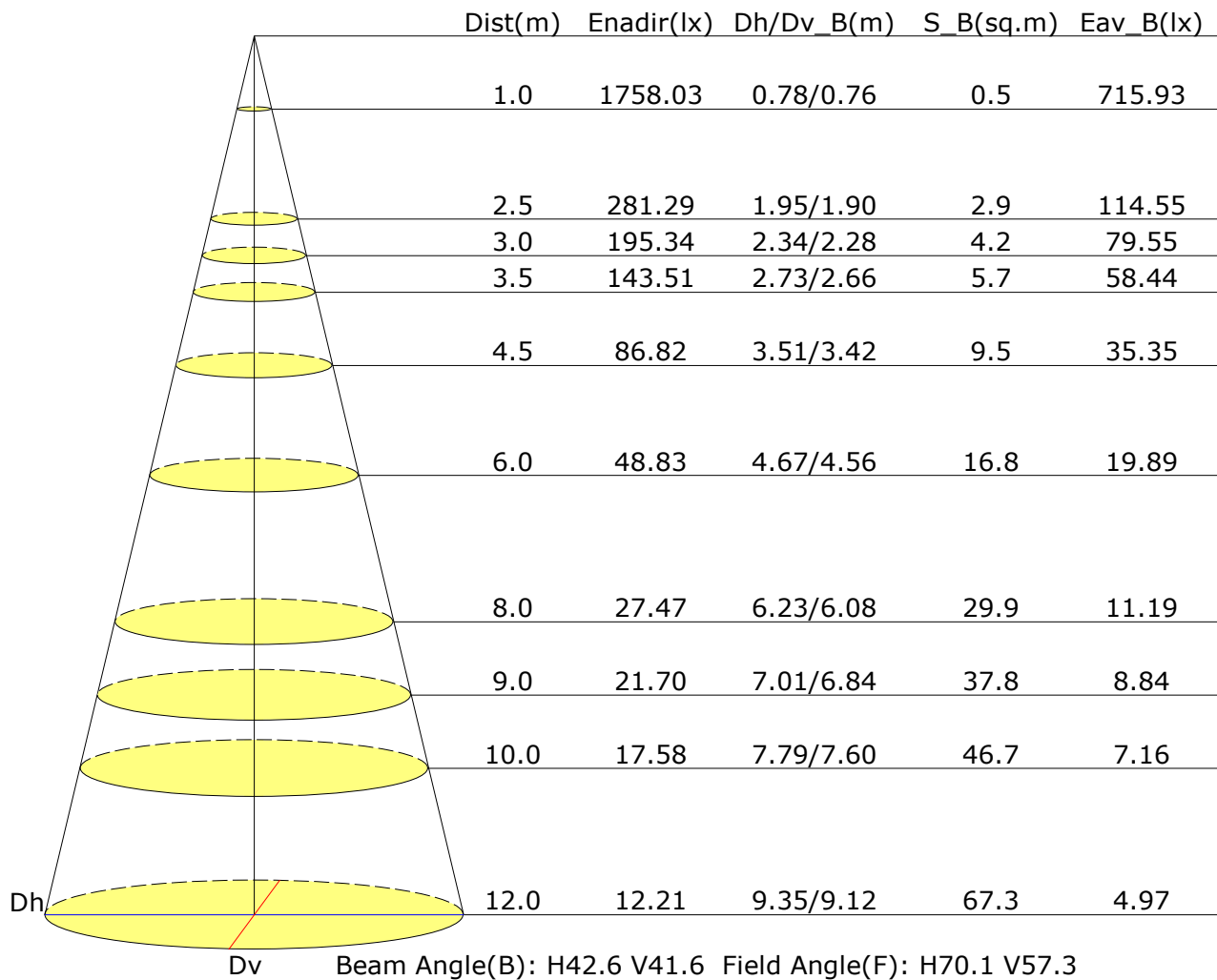


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	53	54	53	50	47	42	37	30	23
C90	69	70	69	67	62	52	40	32	27
C180	51	44	42	38	33	28	24	21	19
C270	70	68	67	65	59	49	40	33	29

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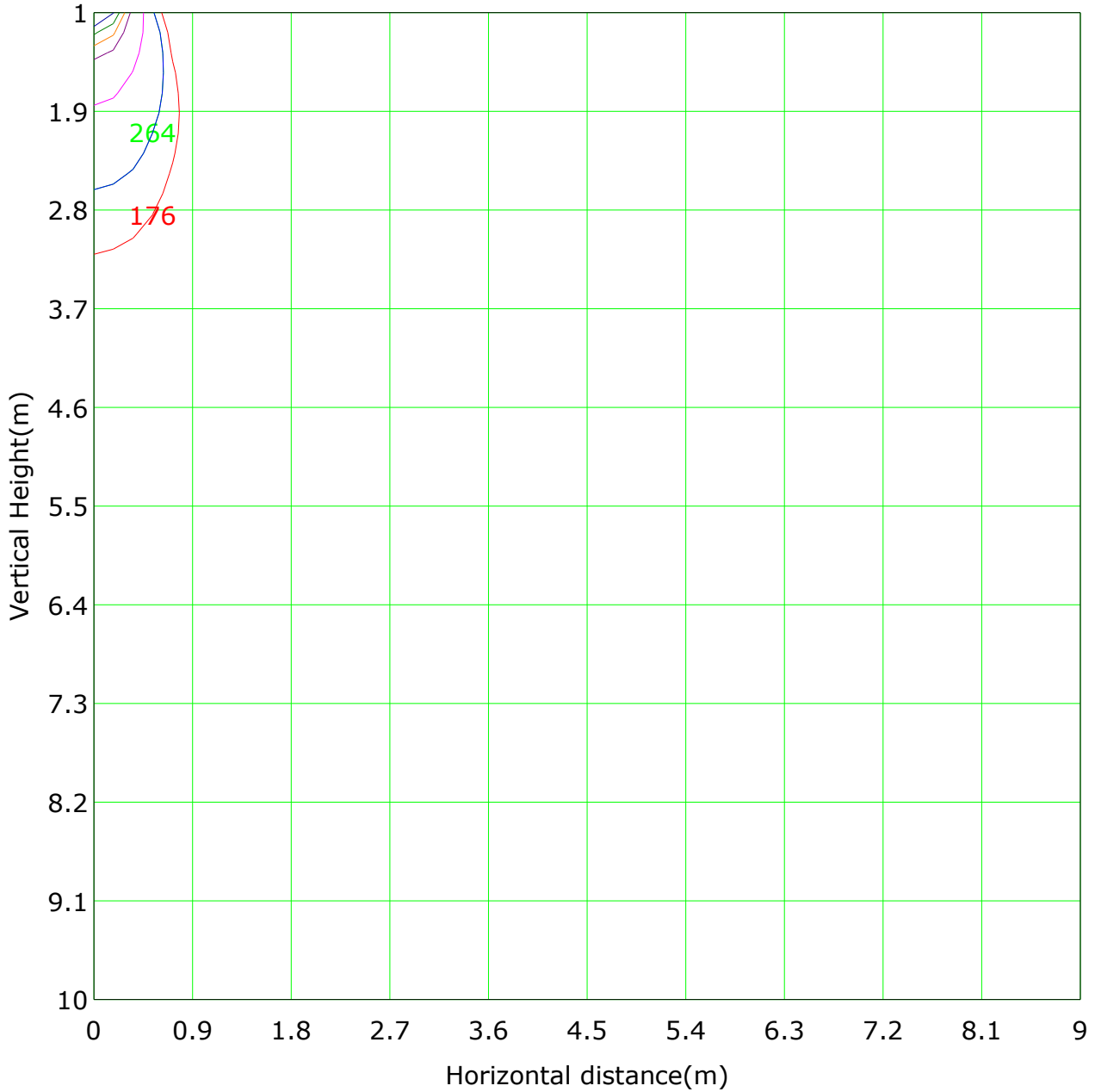
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
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 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:

Vertical IsoLux Plot

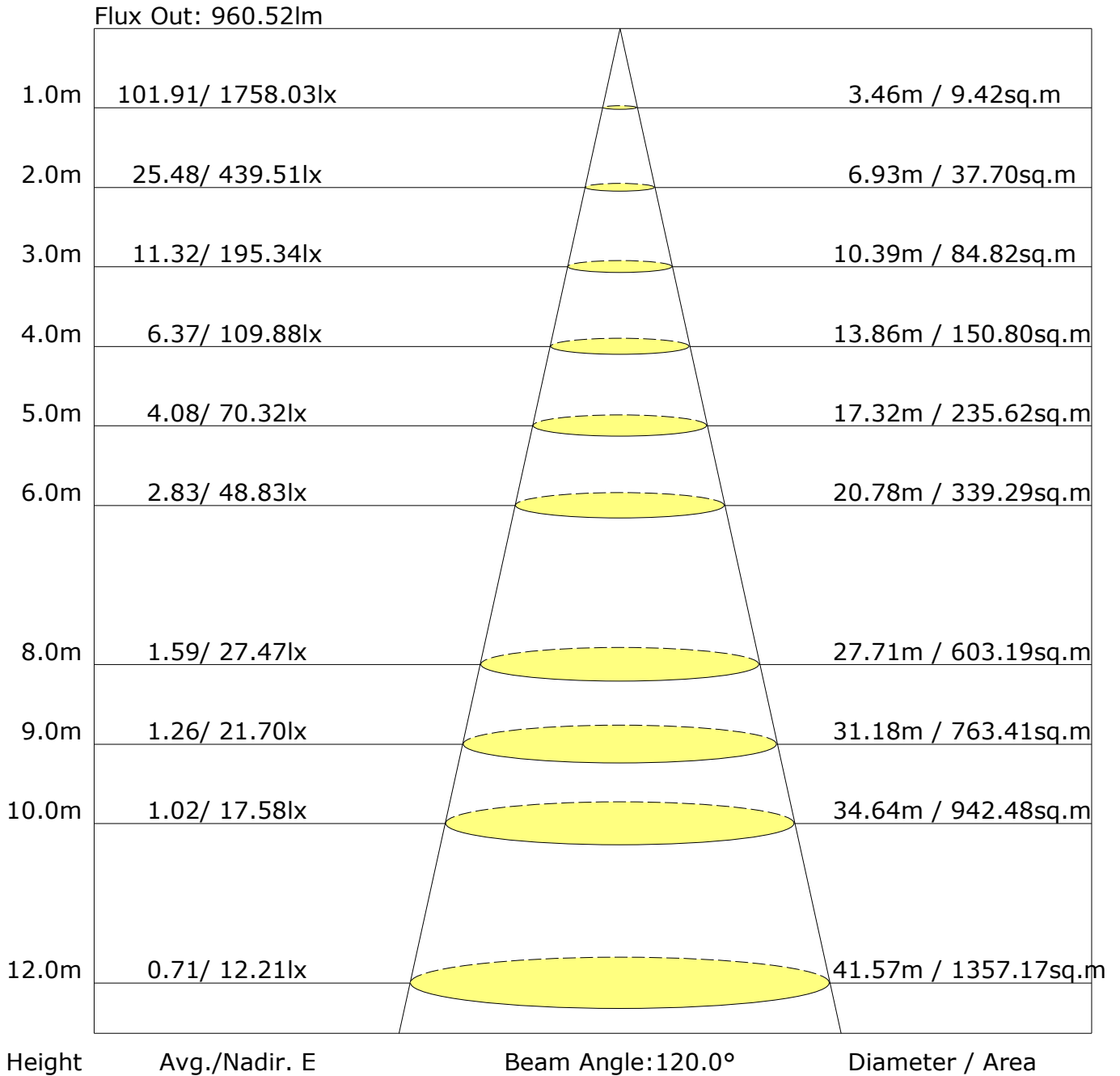


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 1758.0 lx
— (10%): 175.8 lx	— (15%): 263.7 lx	— (30%): 527.4 lx
— (15%): 263.7 lx	— (50%): 879.0 lx	— (60%): 1054.8 lx
— (50%): 879.0 lx	— (70%): 1230.6 lx	— (80%): 1406.4 lx
— (70%): 1230.6 lx		

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 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
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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	-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 1230lm ($8\log(F/F_0) = 0.7$).

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 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	1757.0	1.7	1.7	0.14	0.14
1.0-2.0	1753.6	5.0	6.7	0.41	0.55
2.0-3.0	1748.4	8.4	15.1	0.68	1.23
3.0-4.0	1740.8	11.7	26.7	0.95	2.17
4.0-5.0	1729.1	14.9	41.6	1.21	3.38
5.0-6.0	1714.3	18.0	59.6	1.47	4.85
6.0-7.0	1694.9	21.0	80.7	1.71	6.56
7.0-8.0	1670.6	23.9	104.6	1.94	8.50
8.0-9.0	1642.4	26.6	131.2	2.16	10.67
9.0-10.0	1607.2	29.1	160.3	2.37	13.03
10.0-11.0	1566.3	31.3	191.6	2.55	15.58
11.0-12.0	1521.8	33.3	224.9	2.71	18.28
12.0-13.0	1471.8	34.9	259.8	2.84	21.13
13.0-14.0	1415.1	36.2	296.0	2.95	24.07
14.0-15.0	1354.6	37.2	333.2	3.02	27.10
15.0-16.0	1291.0	37.8	371.0	3.08	30.17
16.0-17.0	1220.2	38.0	409.1	3.09	33.26
17.0-18.0	1146.2	37.8	446.8	3.07	36.34
18.0-19.0	1072.6	37.3	484.2	3.03	39.37
19.0-20.0	996.9	36.5	520.7	2.97	42.34
20.0-21.0	920.4	35.3	556.0	2.87	45.21
21.0-22.0	844.7	33.9	590.0	2.76	47.97
22.0-23.0	766.5	32.2	622.1	2.62	50.59
23.0-24.0	683.4	29.9	652.0	2.43	53.02
24.0-25.0	601.2	27.3	679.3	2.22	55.24
25.0-26.0	521.3	24.6	703.9	2.00	57.24
26.0-27.0	445.7	21.8	725.8	1.77	59.01
27.0-28.0	378.6	19.2	744.9	1.56	60.57
28.0-29.0	321.6	16.8	761.8	1.37	61.94
29.0-30.0	274.8	14.8	776.6	1.21	63.15
30.0-31.0	236.2	13.1	789.7	1.07	64.22
31.0-32.0	205.5	11.8	801.5	0.96	65.17
32.0-33.0	179.6	10.6	812.1	0.86	66.04
33.0-34.0	156.9	9.5	821.6	0.77	66.81
34.0-35.0	137.9	8.6	830.2	0.70	67.50
35.0-36.0	120.4	7.7	837.8	0.62	68.13

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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	104.9	6.8	844.7	0.56	68.68
37.0-38.0	92.2	6.2	850.8	0.50	69.18
38.0-39.0	81.3	5.6	856.4	0.45	69.64
39.0-40.0	73.0	5.1	861.5	0.41	70.05
40.0-41.0	67.7	4.8	866.3	0.39	70.44
41.0-42.0	64.4	4.7	871.0	0.38	70.82
42.0-43.0	62.6	4.6	875.6	0.38	71.20
43.0-44.0	61.6	4.6	880.2	0.38	71.58
44.0-45.0	61.0	4.7	884.9	0.38	71.96
45.0-46.0	60.4	4.7	889.7	0.38	72.34
46.0-47.0	59.9	4.8	894.4	0.39	72.73
47.0-48.0	59.6	4.8	899.2	0.39	73.12
48.0-49.0	59.3	4.9	904.1	0.40	73.52
49.0-50.0	59.0	4.9	909.0	0.40	73.92
50.0-51.0	58.8	5.0	914.0	0.40	74.32
51.0-52.0	58.5	5.0	919.0	0.41	74.73
52.0-53.0	58.3	5.1	924.1	0.41	75.14
53.0-54.0	58.1	5.1	929.2	0.42	75.56
54.0-55.0	57.8	5.2	934.4	0.42	75.98
55.0-56.0	57.5	5.2	939.6	0.42	76.40
56.0-57.0	57.1	5.2	944.8	0.42	76.83
57.0-58.0	56.7	5.2	950.0	0.43	77.25
58.0-59.0	56.1	5.2	955.3	0.43	77.68
59.0-60.0	55.4	5.2	960.5	0.43	78.10
60.0-61.0	54.6	5.2	965.7	0.42	78.53
61.0-62.0	53.8	5.2	970.9	0.42	78.95
62.0-63.0	52.9	5.1	976.1	0.42	79.37
63.0-64.0	51.9	5.1	981.2	0.41	79.78
64.0-65.0	50.7	5.0	986.2	0.41	80.19
65.0-66.0	49.4	4.9	991.1	0.40	80.59
66.0-67.0	48.0	4.8	995.9	0.39	80.98
67.0-68.0	46.6	4.7	1000.7	0.38	81.37
68.0-69.0	45.0	4.6	1005.3	0.37	81.74
69.0-70.0	43.4	4.5	1009.7	0.36	82.10
70.0-71.0	41.9	4.3	1014.0	0.35	82.46
71.0-72.0	40.3	4.2	1018.2	0.34	82.80

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 Test Device: GPM-1800B
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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	38.8	4.1	1022.3	0.33	83.13
73.0-74.0	37.4	3.9	1026.2	0.32	83.45
74.0-75.0	35.9	3.8	1030.0	0.31	83.76
75.0-76.0	34.4	3.7	1033.7	0.30	84.05
76.0-77.0	33.1	3.5	1037.2	0.29	84.34
77.0-78.0	31.8	3.4	1040.6	0.28	84.62
78.0-79.0	30.5	3.3	1043.9	0.27	84.88
79.0-80.0	29.4	3.2	1047.1	0.26	85.14
80.0-81.0	28.3	3.1	1050.1	0.25	85.39
81.0-82.0	27.4	3.0	1053.1	0.24	85.63
82.0-83.0	26.5	2.9	1056.0	0.23	85.87
83.0-84.0	25.7	2.8	1058.8	0.23	86.09
84.0-85.0	25.1	2.7	1061.5	0.22	86.32
85.0-86.0	24.6	2.7	1064.2	0.22	86.53
86.0-87.0	24.2	2.6	1066.8	0.22	86.75
87.0-88.0	23.8	2.6	1069.5	0.21	86.96
88.0-89.0	23.5	2.6	1072.0	0.21	87.17
89.0-90.0	23.2	2.5	1074.6	0.21	87.38
90.0-91.0	23.2	2.5	1077.1	0.21	87.58
91.0-92.0	23.2	2.5	1079.7	0.21	87.79
92.0-93.0	23.3	2.6	1082.2	0.21	88.00
93.0-94.0	23.5	2.6	1084.8	0.21	88.21
94.0-95.0	23.6	2.6	1087.4	0.21	88.42
95.0-96.0	23.3	2.5	1089.9	0.21	88.62
96.0-97.0	22.4	2.4	1092.3	0.20	88.82
97.0-98.0	21.4	2.3	1094.7	0.19	89.01
98.0-99.0	20.6	2.2	1096.9	0.18	89.19
99.0-100.0	20.3	2.2	1099.1	0.18	89.37
100.0-101.0	20.1	2.2	1101.3	0.18	89.55
101.0-102.0	19.7	2.1	1103.4	0.17	89.72
102.0-103.0	19.4	2.1	1105.4	0.17	89.89
103.0-104.0	19.0	2.0	1107.5	0.16	90.05
104.0-105.0	18.5	2.0	1109.4	0.16	90.21
105.0-106.0	18.1	1.9	1111.3	0.16	90.37
106.0-107.0	18.1	1.9	1113.2	0.15	90.52
107.0-108.0	18.2	1.9	1115.2	0.16	90.68

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	18.5	1.9	1117.1	0.16	90.83
109.0-110.0	19.0	2.0	1119.0	0.16	90.99
110.0-111.0	19.4	2.0	1121.0	0.16	91.16
111.0-112.0	19.9	2.0	1123.1	0.17	91.32
112.0-113.0	20.5	2.1	1125.1	0.17	91.49
113.0-114.0	21.1	2.1	1127.3	0.17	91.66
114.0-115.0	21.8	2.2	1129.4	0.18	91.84
115.0-116.0	22.6	2.2	1131.7	0.18	92.02
116.0-117.0	23.6	2.3	1134.0	0.19	92.21
117.0-118.0	24.6	2.4	1136.4	0.19	92.40
118.0-119.0	25.4	2.4	1138.8	0.20	92.60
119.0-120.0	26.1	2.5	1141.3	0.20	92.81
120.0-121.0	26.7	2.5	1143.8	0.21	93.01
121.0-122.0	27.2	2.5	1146.4	0.21	93.22
122.0-123.0	27.7	2.6	1149.0	0.21	93.43
123.0-124.0	28.1	2.6	1151.5	0.21	93.63
124.0-125.0	28.5	2.6	1154.1	0.21	93.84
125.0-126.0	28.9	2.6	1156.7	0.21	94.05
126.0-127.0	29.1	2.6	1159.2	0.21	94.26
127.0-128.0	29.4	2.6	1161.8	0.21	94.47
128.0-129.0	29.7	2.5	1164.3	0.21	94.68
129.0-130.0	29.9	2.5	1166.9	0.21	94.88
130.0-131.0	30.1	2.5	1169.4	0.20	95.09
131.0-132.0	30.3	2.5	1171.9	0.20	95.29
132.0-133.0	30.5	2.5	1174.4	0.20	95.49
133.0-134.0	30.6	2.4	1176.8	0.20	95.69
134.0-135.0	30.7	2.4	1179.2	0.20	95.88
135.0-136.0	30.8	2.4	1181.6	0.19	96.08
136.0-137.0	30.8	2.3	1183.9	0.19	96.27
137.0-138.0	30.8	2.3	1186.2	0.19	96.45
138.0-139.0	30.8	2.2	1188.4	0.18	96.63
139.0-140.0	30.7	2.2	1190.6	0.18	96.81
140.0-141.0	30.6	2.1	1192.7	0.17	96.99
141.0-142.0	30.5	2.1	1194.8	0.17	97.16
142.0-143.0	30.4	2.0	1196.8	0.17	97.32
143.0-144.0	30.2	2.0	1198.8	0.16	97.48

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	29.9	1.9	1200.7	0.15	97.64
145.0-146.0	29.6	1.8	1202.6	0.15	97.78
146.0-147.0	29.3	1.8	1204.3	0.14	97.93
147.0-148.0	28.9	1.7	1206.0	0.14	98.07
148.0-149.0	28.4	1.6	1207.7	0.13	98.20
149.0-150.0	27.9	1.6	1209.2	0.13	98.33
150.0-151.0	27.6	1.5	1210.7	0.12	98.45
151.0-152.0	27.3	1.4	1212.1	0.12	98.56
152.0-153.0	26.9	1.4	1213.5	0.11	98.67
153.0-154.0	26.4	1.3	1214.8	0.11	98.78
154.0-155.0	25.9	1.2	1216.0	0.10	98.88
155.0-156.0	25.4	1.2	1217.2	0.09	98.97
156.0-157.0	24.8	1.1	1218.2	0.09	99.06
157.0-158.0	24.4	1.0	1219.3	0.08	99.14
158.0-159.0	24.2	1.0	1220.2	0.08	99.22
159.0-160.0	24.0	0.9	1221.2	0.07	99.30
160.0-161.0	23.8	0.9	1222.0	0.07	99.37
161.0-162.0	23.7	0.8	1222.9	0.07	99.44
162.0-163.0	23.5	0.8	1223.6	0.06	99.50
163.0-164.0	23.3	0.7	1224.4	0.06	99.56
164.0-165.0	23.0	0.7	1225.0	0.05	99.61
165.0-166.0	22.8	0.6	1225.7	0.05	99.66
166.0-167.0	22.7	0.6	1226.2	0.05	99.71
167.0-168.0	22.7	0.5	1226.8	0.04	99.75
168.0-169.0	22.7	0.5	1227.3	0.04	99.79
169.0-170.0	22.6	0.5	1227.7	0.04	99.83
170.0-171.0	22.6	0.4	1228.1	0.03	99.86
171.0-172.0	22.5	0.4	1228.5	0.03	99.89
172.0-173.0	22.4	0.3	1228.8	0.03	99.92
173.0-174.0	22.0	0.3	1229.1	0.02	99.94
174.0-175.0	21.5	0.2	1229.3	0.02	99.96
175.0-176.0	20.7	0.2	1229.5	0.01	99.98
176.0-177.0	20.0	0.1	1229.6	0.01	99.99
177.0-178.0	19.3	0.1	1229.7	0.01	99.99
178.0-179.0	18.7	0.1	1229.8	0.00	100.00
179.0-180.0	18.3	0.0	1229.8	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°): 884.94 lm

%lum = 72.0%
%lamp = 72.0%

cone flux(120°): 960.52 lm

%lum = 78.1%
%lamp = 78.1%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	1758.0	1758.0	1758.0	1758.0	1758.0					
G1.0	1747.1	1754.2	1766.2	1756.6	1747.1					
G2.0	1733.9	1748.6	1770.4	1751.9	1733.9					
G3.0	1717.7	1746.8	1770.5	1747.7	1717.7					
G4.0	1697.8	1740.7	1767.1	1738.3	1697.8					
G5.0	1673.9	1728.2	1758.5	1727.8	1673.9					
G6.0	1647.6	1714.7	1749.6	1714.3	1647.6					
G7.0	1612.4	1697.7	1731.7	1691.4	1612.4					
G8.0	1576.0	1676.6	1711.1	1667.8	1576.0					
G9.0	1534.7	1653.7	1681.7	1637.5	1534.7					
G10.0	1481.8	1626.4	1643.3	1598.8	1481.8					
G11.0	1428.0	1591.5	1604.8	1556.1	1428.0					
G12.0	1371.1	1555.3	1559.1	1508.1	1371.1					
G13.0	1304.0	1510.9	1510.9	1455.0	1304.0					
G14.0	1242.1	1455.8	1455.7	1386.3	1242.1					
G15.0	1181.2	1399.0	1400.1	1316.1	1181.2					
G16.0	1122.3	1334.0	1338.1	1236.9	1122.3					
G17.0	1059.9	1263.3	1262.6	1144.5	1059.9					
G18.0	1003.8	1180.4	1193.1	1062.2	1003.8					
G19.0	947.9	1100.1	1115.4	977.7	947.9					
G20.0	884.8	1016.5	1047.7	884.8	884.8					
G21.0	825.1	924.5	982.4	797.1	825.1					
G22.0	764.8	838.8	921.9	702.8	764.8					
G23.0	694.5	746.9	857.0	605.1	694.5					
G24.0	629.1	637.7	800.4	496.2	629.1					
G25.0	562.7	536.2	745.2	401.6	562.7					
G26.0	492.0	436.5	689.8	306.2	492.0					
G27.0	433.1	344.1	631.3	232.4	433.1					
G28.0	377.7	254.4	580.9	175.0	377.7					
G29.0	327.7	190.3	532.2	134.8	327.7					
G30.0	281.4	141.2	484.4	106.6	281.4					
G31.0	236.1	105.2	445.3	89.2	236.1					
G32.0	197.6	85.4	409.0	76.6	197.6					
G33.0	158.4	72.8	369.0	67.8	158.4					
G34.0	126.9	65.5	331.2	63.4	126.9					
G35.0	101.5	62.5	290.3	61.5	101.5					
G36.0	81.1	61.1	244.0	61.1	81.1					

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	68.4	60.7	201.7	61.1	68.4					
G38.0	60.7	60.9	162.2	61.6	60.7					
G39.0	55.3	61.5	125.9	62.5	55.3					
G40.0	52.9	62.5	99.6	63.9	52.9					
G41.0	52.1	63.7	81.2	65.3	52.1					
G42.0	52.1	65.4	68.6	66.9	52.1					
G43.0	52.4	67.1	60.1	68.1	52.4					
G44.0	52.7	68.5	54.6	69.1	52.7					
G45.0	53.0	69.3	50.9	69.5	53.0					
G46.0	53.1	69.7	48.4	69.3	53.1					
G47.0	53.3	69.8	46.9	69.0	53.3					
G48.0	53.4	69.7	45.9	68.5	53.4					
G49.0	53.6	69.7	45.1	68.1	53.6					
G50.0	53.9	69.7	44.3	67.7	53.9					
G51.0	53.9	69.7	43.4	67.4	53.9					
G52.0	54.0	69.6	43.0	67.1	54.0					
G53.0	53.9	69.5	42.6	66.8	53.9					
G54.0	53.4	69.4	42.3	66.7	53.4					
G55.0	53.0	69.3	42.0	66.5	53.0					
G56.0	52.6	69.3	41.3	66.2	52.6					
G57.0	52.1	69.1	40.7	65.9	52.1					
G58.0	51.5	68.7	39.7	65.6	51.5					
G59.0	50.8	68.1	38.8	65.3	50.8					
G60.0	50.1	67.4	37.8	64.8	50.1					
G61.0	49.5	66.7	36.7	64.1	49.5					
G62.0	48.8	65.7	35.6	63.4	48.8					
G63.0	48.2	64.7	34.7	62.3	48.2					
G64.0	47.4	63.2	33.6	61.1	47.4					
G65.0	46.6	61.7	32.6	59.5	46.6					
G66.0	45.8	59.9	31.7	57.5	45.8					
G67.0	44.9	58.0	30.8	55.6	44.9					
G68.0	43.9	56.1	29.8	53.4	43.9					
G69.0	42.9	54.2	28.7	51.4	42.9					
G70.0	41.8	51.9	27.6	49.2	41.8					
G71.0	40.8	49.6	26.6	47.4	40.8					
G72.0	39.8	47.2	25.8	45.3	39.8					
G73.0	38.8	44.9	25.3	43.5	38.8					

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	37.7	42.7	24.6	41.6	37.7					
G75.0	36.6	40.4	23.6	39.9	36.6					
G76.0	35.3	38.5	22.9	38.3	35.3					
G77.0	34.0	36.7	22.3	36.6	34.0					
G78.0	32.6	34.9	21.8	35.1	32.6					
G79.0	31.2	33.3	21.4	33.7	31.2					
G80.0	29.8	31.8	21.0	32.6	29.8					
G81.0	28.5	30.6	20.6	31.6	28.5					
G82.0	27.0	29.5	20.3	30.8	27.0					
G83.0	25.7	28.6	19.8	30.1	25.7					
G84.0	24.3	27.8	19.6	29.7	24.3					
G85.0	23.1	27.2	19.5	29.5	23.1					
G86.0	22.1	26.7	19.3	29.4	22.1					
G87.0	21.4	26.5	18.8	29.3	21.4					
G88.0	20.5	26.3	18.5	29.1	20.5					
G89.0	19.7	26.1	18.3	29.3	19.7					
G90.0	18.8	25.8	18.3	29.5	18.8					
G91.0	18.0	26.1	18.5	30.4	18.0					
G92.0	16.9	26.4	18.5	31.1	16.9					
G93.0	15.9	27.0	18.7	31.9	15.9					
G94.0	15.2	27.6	18.8	32.6	15.2					
G95.0	14.6	28.0	19.0	33.1	14.6					
G96.0	13.9	28.4	18.9	30.4	13.9					
G97.0	13.4	28.7	17.5	27.9	13.4					
G98.0	13.3	28.7	15.2	26.1	13.3					
G99.0	13.3	28.7	14.7	24.7	13.3					
G100.0	13.3	28.4	16.5	22.8	13.3					
G101.0	13.2	27.7	17.5	21.1	13.2					
G102.0	13.2	27.4	17.6	19.9	13.2					
G103.0	13.4	27.3	17.4	18.9	13.4					
G104.0	13.4	27.3	16.7	17.6	13.4					
G105.0	13.3	27.4	15.7	16.2	13.3					
G106.0	13.6	27.5	15.1	16.0	13.6					
G107.0	14.1	27.8	14.8	15.8	14.1					
G108.0	14.7	28.1	15.0	15.6	14.7					
G109.0	15.3	28.5	15.7	15.4	15.3					
G110.0	15.9	28.8	16.7	15.4	15.9					

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 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	16.4	29.2	17.5	15.5	16.4					
G112.0	17.0	29.5	18.4	15.8	17.0					
G113.0	17.8	29.9	19.2	16.2	17.8					
G114.0	18.7	30.1	20.1	16.5	18.7					
G115.0	19.6	30.7	21.0	17.4	19.6					
G116.0	20.4	31.8	21.6	18.6	20.4					
G117.0	21.3	33.0	22.2	20.0	21.3					
G118.0	22.2	34.0	22.7	21.3	22.2					
G119.0	22.9	34.8	23.1	22.4	22.9					
G120.0	23.5	35.5	23.3	23.2	23.5					
G121.0	24.1	36.1	23.6	24.1	24.1					
G122.0	24.6	36.6	23.8	24.8	24.6					
G123.0	25.1	37.1	23.9	25.6	25.1					
G124.0	25.6	37.4	24.1	26.2	25.6					
G125.0	26.0	37.7	24.3	26.7	26.0					
G126.0	26.5	37.9	24.5	27.1	26.5					
G127.0	26.8	38.0	24.6	27.5	26.8					
G128.0	27.2	38.3	24.8	28.0	27.2					
G129.0	27.5	38.4	25.0	28.4	27.5					
G130.0	27.9	38.5	25.1	28.7	27.9					
G131.0	28.2	38.5	25.3	29.0	28.2					
G132.0	28.5	38.5	25.4	29.3	28.5					
G133.0	28.8	38.5	25.5	29.6	28.8					
G134.0	29.0	38.4	25.5	29.9	29.0					
G135.0	29.1	38.3	25.4	30.3	29.1					
G136.0	29.1	38.3	25.2	30.6	29.1					
G137.0	29.0	38.2	25.0	31.0	29.0					
G138.0	28.8	38.2	24.9	31.3	28.8					
G139.0	28.6	38.3	24.7	31.5	28.6					
G140.0	28.4	38.2	24.4	31.8	28.4					
G141.0	28.2	38.1	24.2	31.9	28.2					
G142.0	28.1	38.1	23.8	31.9	28.1					
G143.0	28.0	37.7	23.5	32.2	28.0					
G144.0	27.9	36.8	23.1	32.5	27.9					
G145.0	27.8	35.9	22.5	32.8	27.8					
G146.0	27.5	35.2	22.0	33.0	27.5					
G147.0	27.3	34.8	21.3	33.0	27.3					

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 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	27.2	34.5	20.5	32.3	27.2					
G149.0	27.0	34.4	19.7	31.3	27.0					
G150.0	26.7	34.4	18.8	31.1	26.7					
G151.0	26.2	34.6	18.0	30.9	26.2					
G152.0	25.8	34.7	17.2	30.9	25.8					
G153.0	25.2	34.8	15.9	30.9	25.2					
G154.0	24.2	34.9	15.0	30.9	24.2					
G155.0	23.1	34.9	14.3	30.2	23.1					
G156.0	22.3	34.9	13.8	29.3	22.3					
G157.0	21.7	34.8	13.3	28.6	21.7					
G158.0	21.3	34.7	12.9	28.3	21.3					
G159.0	20.9	34.7	12.6	28.1	20.9					
G160.0	20.5	34.6	12.3	28.2	20.5					
G161.0	20.2	34.5	12.1	28.2	20.2					
G162.0	19.8	34.6	11.7	28.3	19.8					
G163.0	19.3	34.9	11.3	28.2	19.3					
G164.0	18.8	34.8	10.8	28.1	18.8					
G165.0	18.3	34.8	10.4	27.9	18.3					
G166.0	17.7	35.0	10.0	28.0	17.7					
G167.0	17.3	35.5	9.6	28.2	17.3					
G168.0	16.8	35.9	9.5	28.4	16.8					
G169.0	16.3	36.3	9.4	28.7	16.3					
G170.0	15.8	36.4	9.5	28.9	15.8					
G171.0	15.1	36.4	9.7	29.1	15.1					
G172.0	14.4	36.5	9.9	29.3	14.4					
G173.0	13.7	36.2	10.0	29.1	13.7					
G174.0	13.3	35.7	10.0	28.3	13.3					
G175.0	12.7	34.7	10.0	27.1	12.7					
G176.0	12.3	33.0	10.1	25.9	12.3					
G177.0	11.9	30.9	10.5	25.3	11.9					
G178.0	11.2	28.7	10.9	25.0	11.2					
G179.0	10.7	27.0	10.7	25.2	10.7					
G180.0	10.6	25.6	10.5	26.1	10.6					

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:

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