

Report No.: TH-3499A

Test Time: 2022/6/25 11:20

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog:
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 0.389 A
 Power Factor: 0.986

Luminaire Description: VMC34247BL
 Lamp Description:
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 120.0 V
 Power: 46.10 W

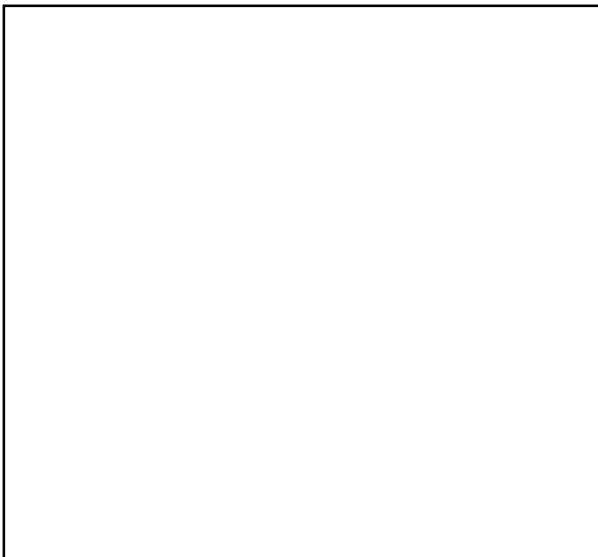
Photometric Results

CIE Class: Semi-Direct
 Measurement Flux: 3210.5 lm
 Downward Ratio: 65%
 Horizontal Diffuse Angle(50%): H35.4
 Vertical Diffuse Angle(50%): V34.7
 Luminaire Efficacy Rating (LER): 69.69
 Max. Intensity: 5413.1 cd
 S/MH(C0/C180): 0.59

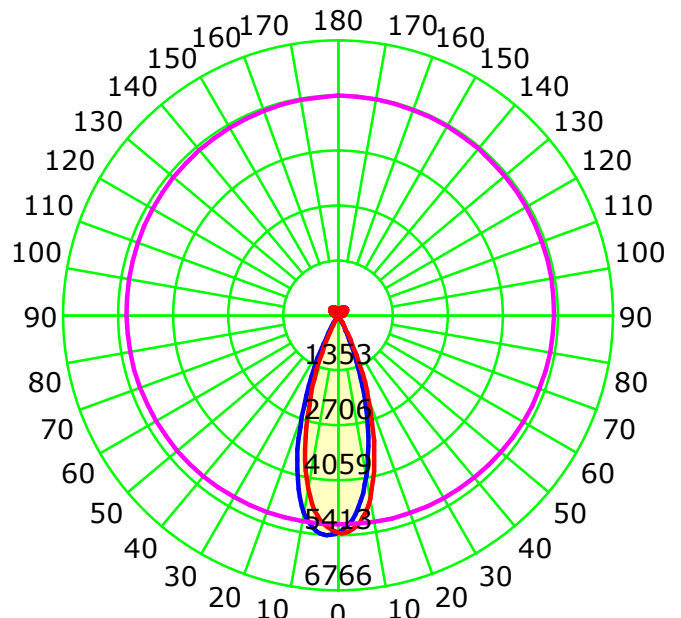
Total Rated Lamp Lumens: 3210.5 lm
 Efficiency: 100%
 Upward Ratio: 35%

C0r0 Intensity: 5343.44 cd
 Pos of Max. Intensity: H180 V3
 S/MH(C90/C270): 0.58

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

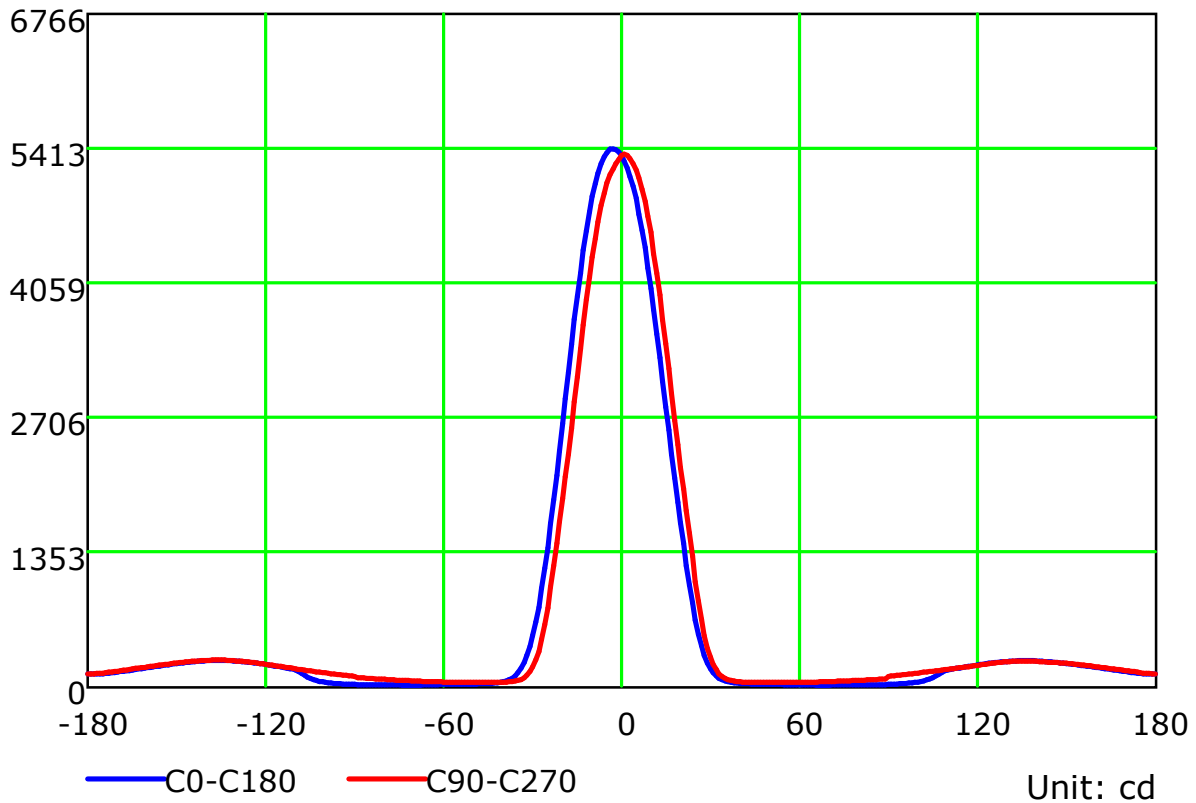
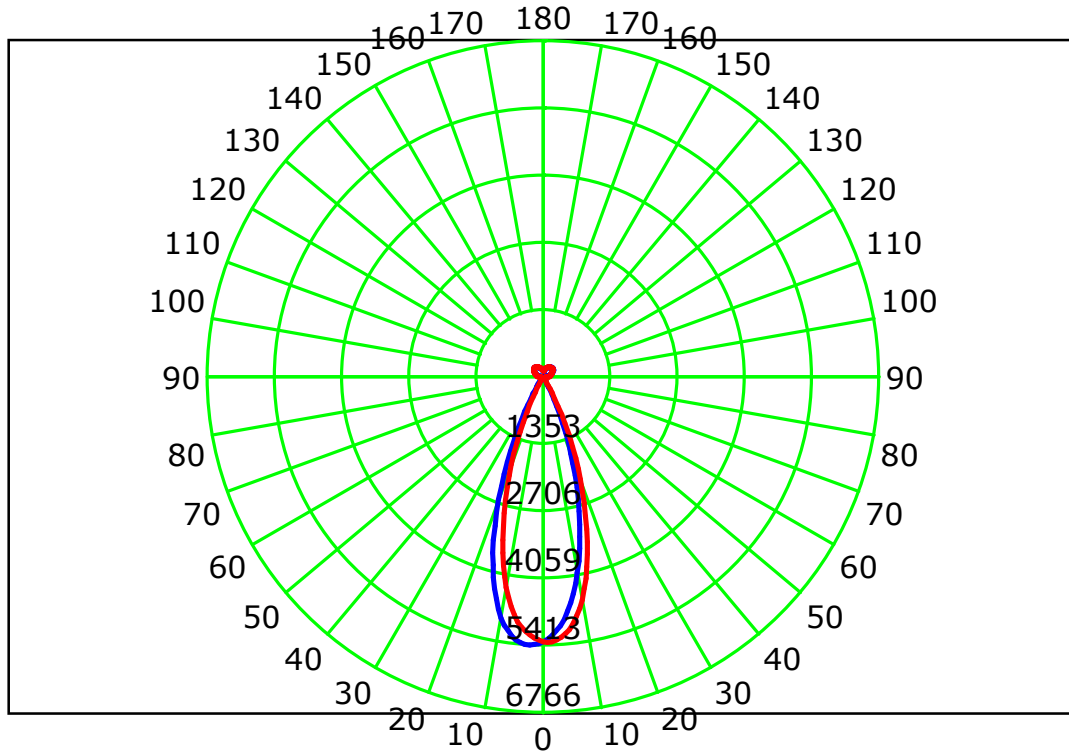
Average Diffuse Angle(50%): 35.0°

— 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



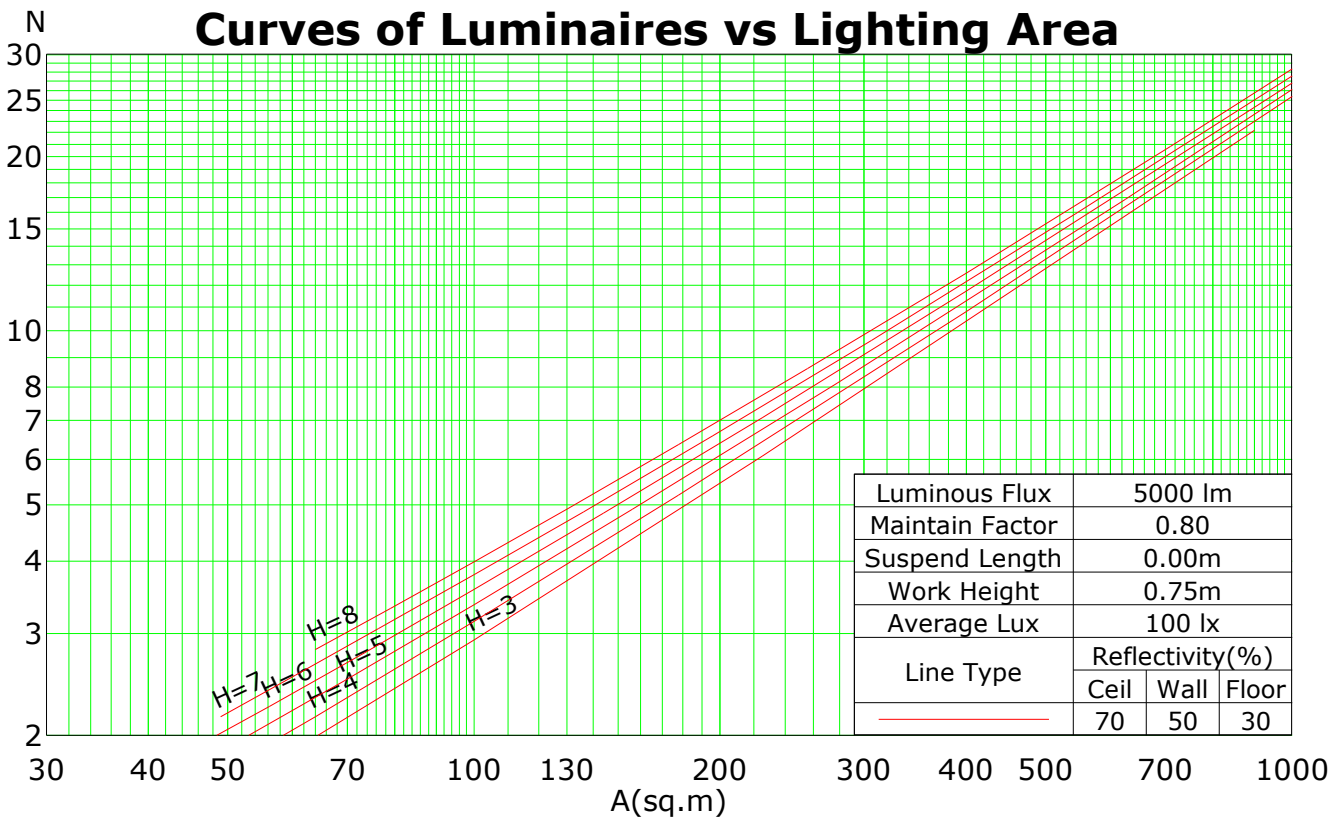
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 Inspector:

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	1.11	1.11	1.11	1.11	1.04	1.04	1.04	1.04	0.91	0.91	0.91	0.80	0.80	0.80	0.70	0.70	0.70	0.65
1	1.04	1.00	0.97	0.95	0.98	0.95	0.92	0.90	0.84	0.82	0.81	0.75	0.73	0.72	0.66	0.65	0.64	0.60
2	0.98	0.92	0.88	0.84	0.92	0.88	0.84	0.80	0.79	0.76	0.73	0.70	0.68	0.67	0.63	0.61	0.60	0.57
3	0.93	0.86	0.80	0.76	0.87	0.82	0.77	0.73	0.74	0.70	0.68	0.67	0.64	0.62	0.60	0.58	0.57	0.54
4	0.88	0.80	0.74	0.70	0.83	0.76	0.71	0.67	0.70	0.66	0.63	0.64	0.61	0.58	0.58	0.56	0.54	0.51
5	0.83	0.75	0.69	0.65	0.79	0.72	0.67	0.63	0.66	0.62	0.59	0.61	0.58	0.55	0.56	0.53	0.52	0.49
6	0.79	0.70	0.65	0.60	0.76	0.68	0.63	0.59	0.63	0.59	0.56	0.58	0.55	0.53	0.54	0.51	0.50	0.47
7	0.76	0.67	0.61	0.57	0.72	0.64	0.59	0.55	0.60	0.56	0.53	0.56	0.52	0.50	0.52	0.49	0.47	0.46
8	0.72	0.63	0.57	0.53	0.69	0.61	0.56	0.52	0.57	0.53	0.50	0.53	0.50	0.48	0.50	0.47	0.46	0.44
9	0.69	0.60	0.54	0.51	0.66	0.58	0.53	0.50	0.55	0.51	0.48	0.51	0.48	0.46	0.48	0.46	0.44	0.42
10	0.66	0.57	0.52	0.48	0.64	0.56	0.51	0.47	0.52	0.48	0.46	0.50	0.46	0.44	0.47	0.44	0.42	0.41

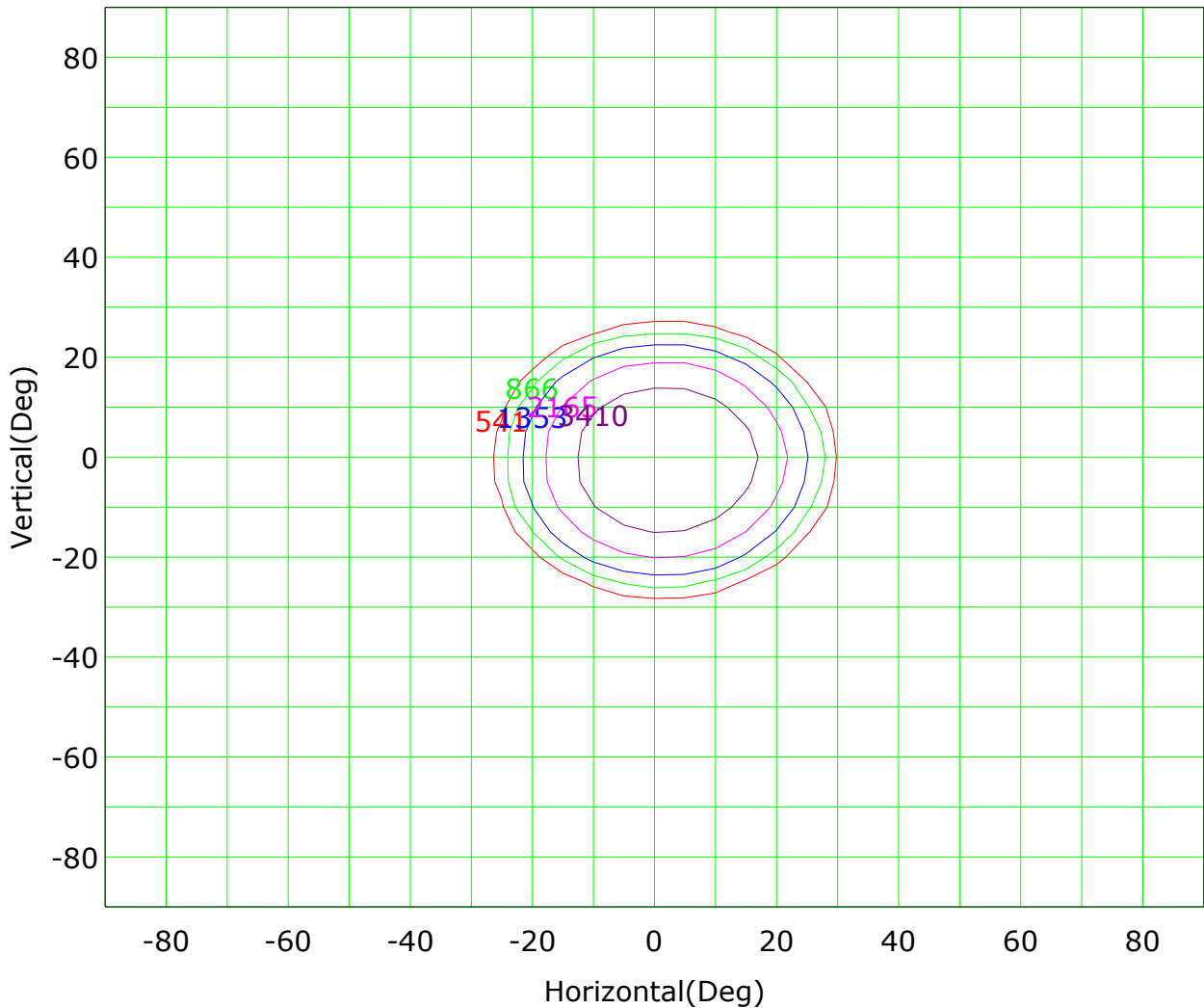
Spacing Criteria (0-180): 0.59
 Spacing Criteria (90-270): 0.58
 Spacing Criteria (Diagonal): 0.57



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

Isocandela (rectangle)



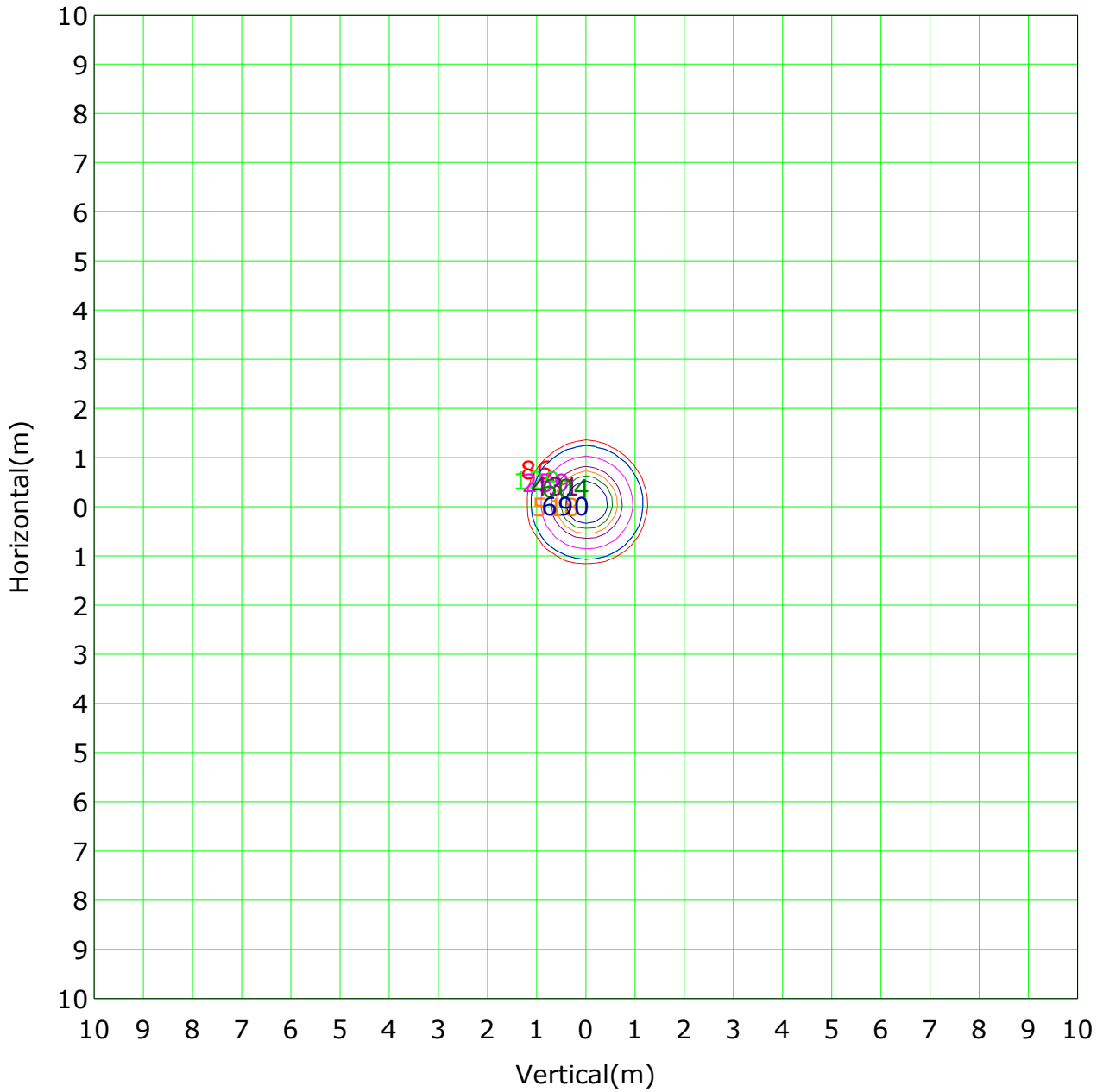
Imax (100%): 5413 cd

- | | |
|-------------------|-------------------|
| — (10%): 541 cd | — (16%): 866 cd |
| — (25%): 1353 cd | — (40%): 2165 cd |
| — (63%): 3410 cd | — (100%): 5413 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%): 862.5 lx	
<ul style="list-style-type: none"> — (10%): 86.3 lx — (15%): 129.4 lx — (50%): 431.3 lx — (70%): 603.8 lx 	<ul style="list-style-type: none"> — (15%): 129.4 lx — (30%): 258.8 lx — (60%): 517.5 lx — (80%): 690.0 lx 		

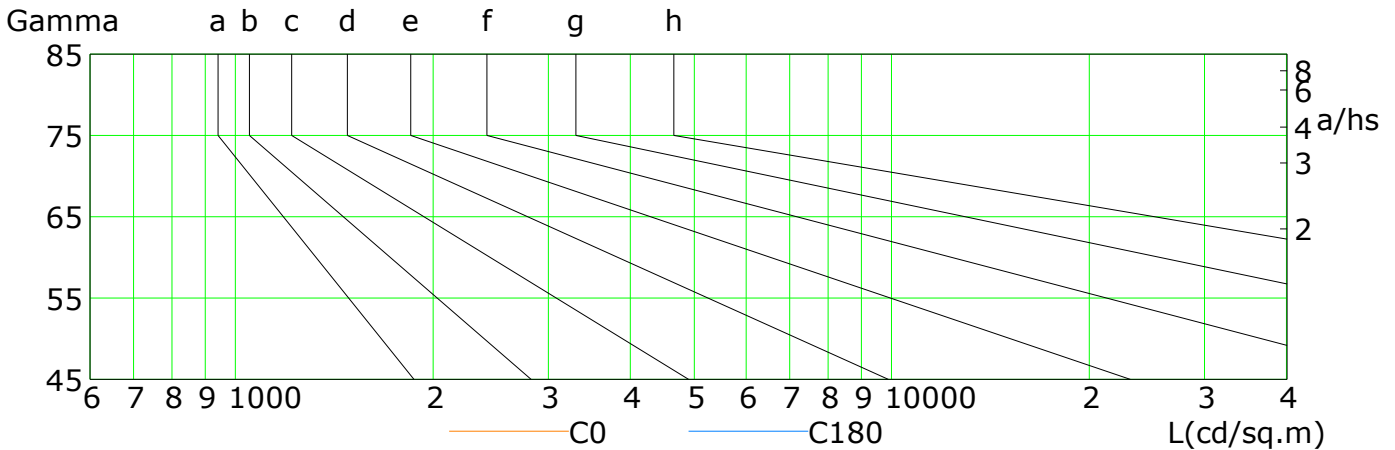
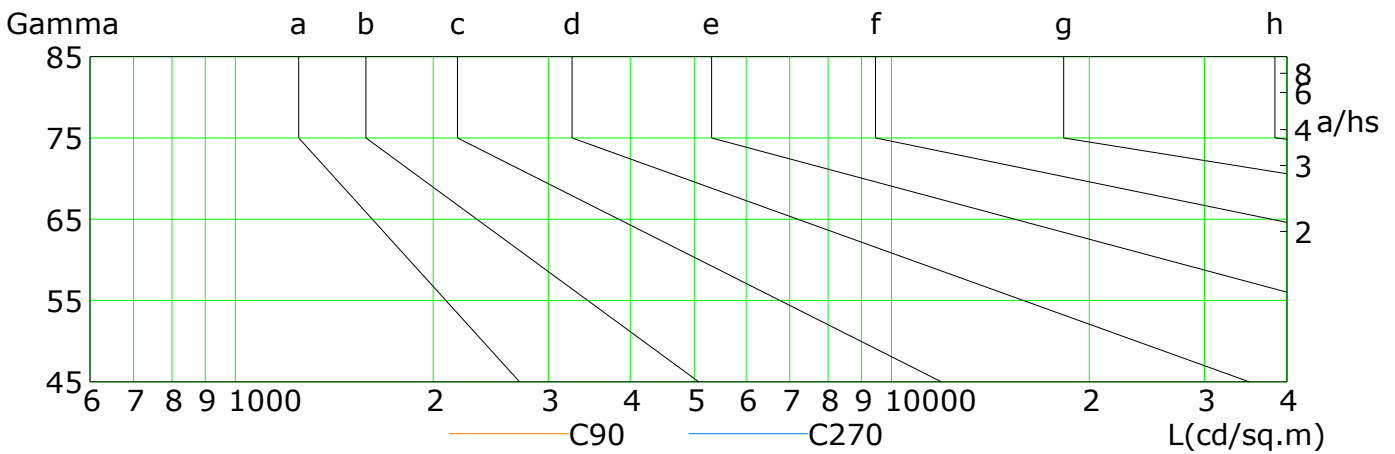
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 Humidity: 65
 Inspector:

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

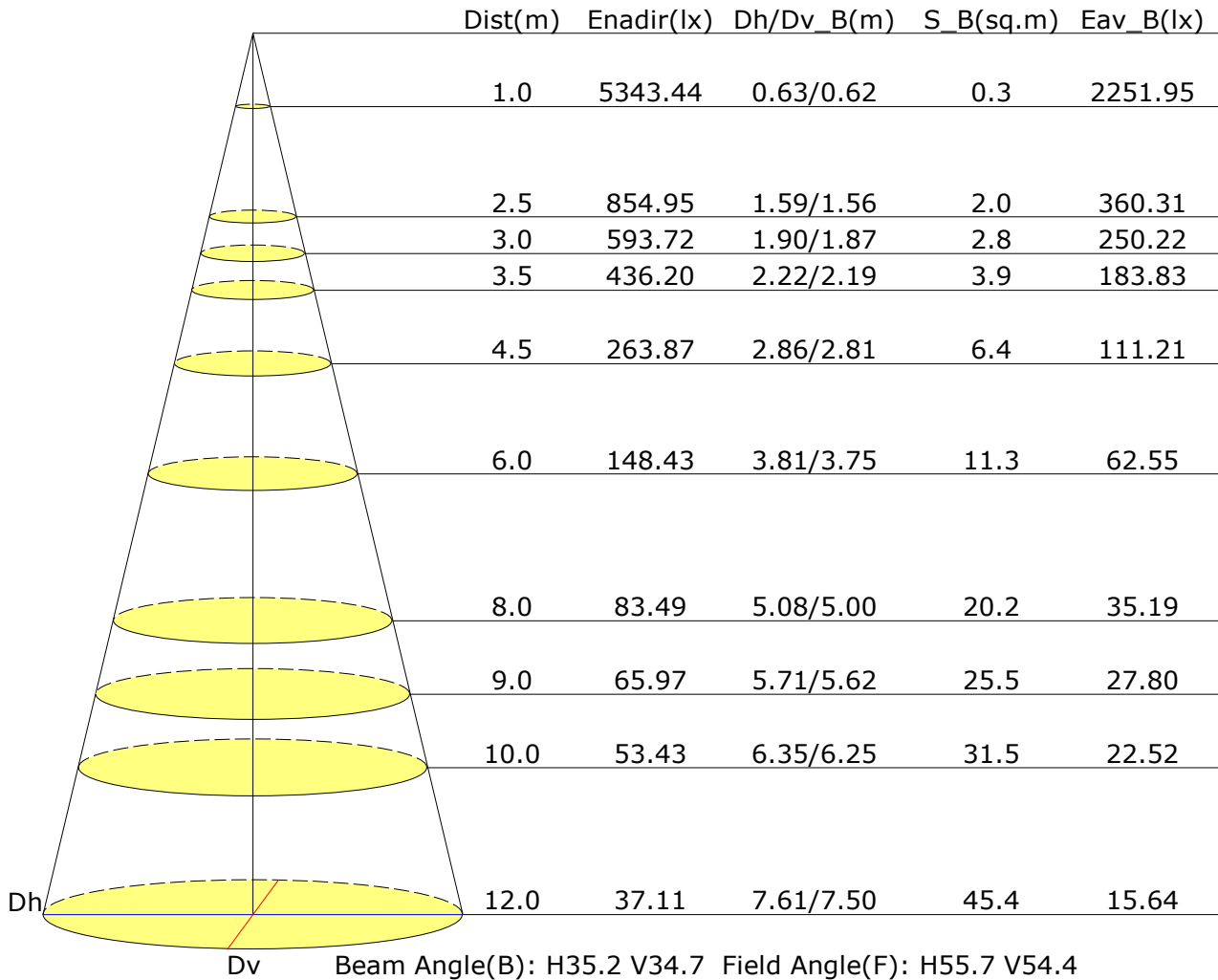


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	25	22	19	18	13	13	14	15	15
C90	40	40	42	42	44	48	54	61	68
C180	30	25	23	19	17	12	13	14	16
C270	40	43	43	45	49	56	62	71	80

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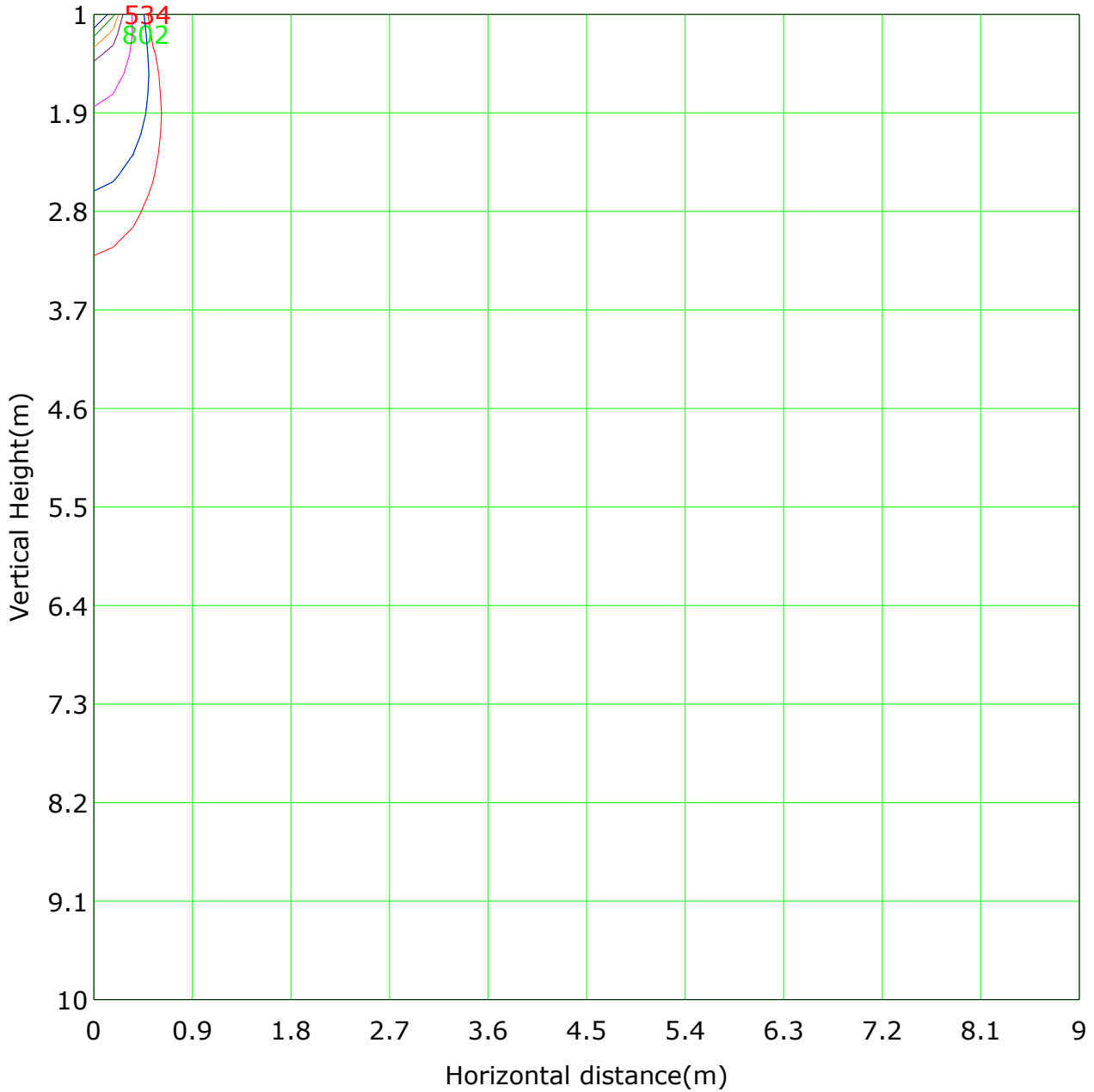
Illuminance at a Distance



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:

Vertical IsoLux Plot

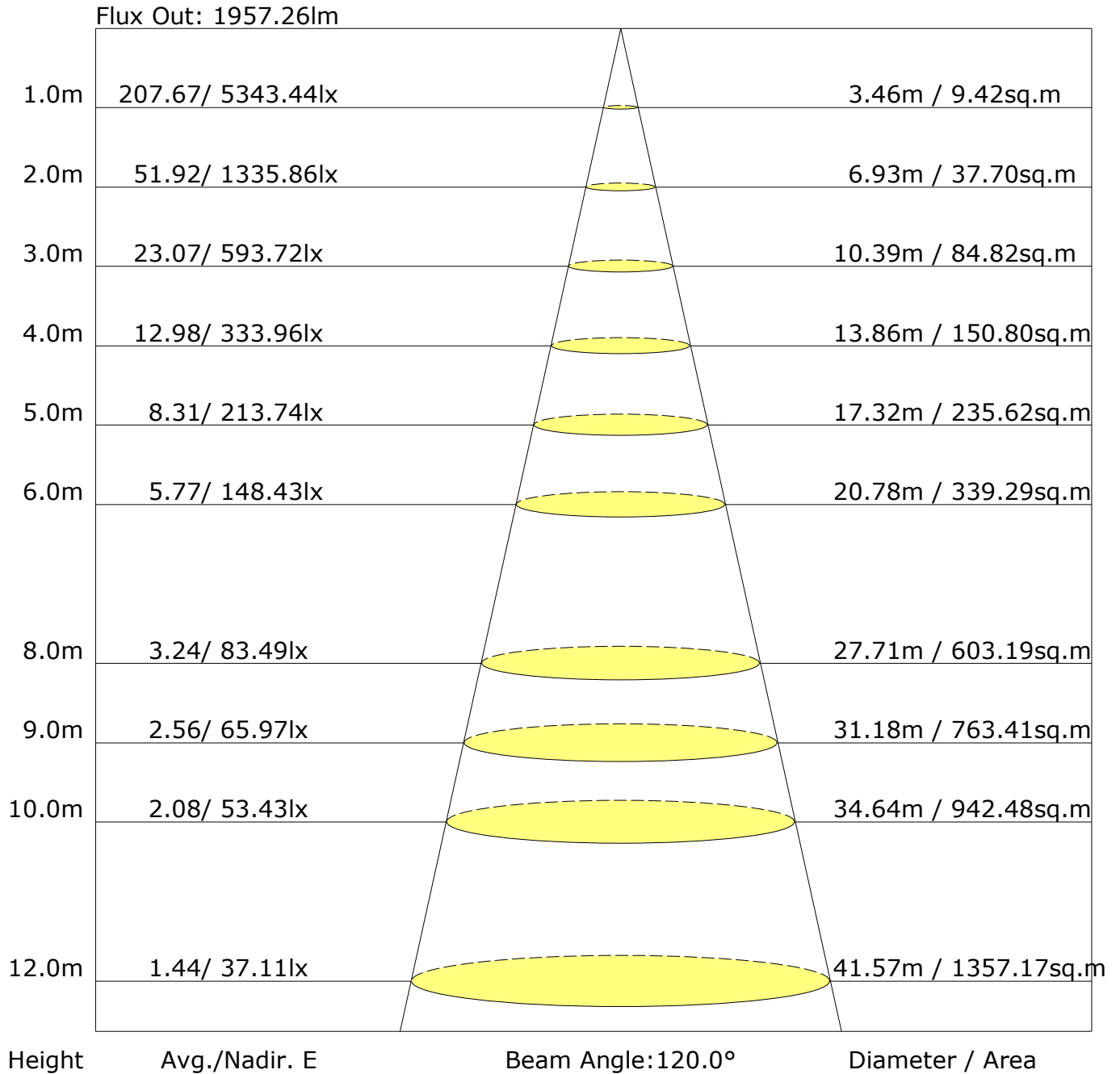


Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 5343.4 lx
 (10%): 534.3 lx (15%): 801.5 lx
 (15%): 801.5 lx (30%): 1603.0 lx
 (50%): 2671.7 lx (60%): 3206.1 lx
 (70%): 3740.4 lx (80%): 4274.7 lx

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 Test Device: GPM-1800B
 Distance: 8.508 m [K=1.0000]
 Humidity: 65
 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 3210lm (8log(F/F0) = 4.1).

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Temperature: 26
Operator: Jacky

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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	5338.6	5.1	5.1	0.16	0.16
1.0-2.0	5320.5	15.3	20.4	0.48	0.63
2.0-3.0	5287.5	25.3	45.7	0.79	1.42
3.0-4.0	5240.9	35.1	80.8	1.09	2.52
4.0-5.0	5175.7	44.5	125.3	1.39	3.90
5.0-6.0	5089.7	53.5	178.8	1.67	5.57
6.0-7.0	4983.8	61.9	240.7	1.93	7.50
7.0-8.0	4854.6	69.5	310.1	2.16	9.66
8.0-9.0	4706.3	76.3	386.4	2.38	12.04
9.0-10.0	4542.9	82.2	468.6	2.56	14.60
10.0-11.0	4359.3	87.1	555.8	2.71	17.31
11.0-12.0	4153.4	90.8	646.6	2.83	20.14
12.0-13.0	3932.2	93.3	739.9	2.91	23.05
13.0-14.0	3699.7	94.7	834.6	2.95	26.00
14.0-15.0	3454.1	94.8	929.5	2.95	28.95
15.0-16.0	3206.6	94.0	1023.4	2.93	31.88
16.0-17.0	2959.6	92.2	1115.6	2.87	34.75
17.0-18.0	2701.2	89.1	1204.7	2.77	37.52
18.0-19.0	2446.0	85.1	1289.8	2.65	40.17
19.0-20.0	2209.6	80.9	1370.7	2.52	42.69
20.0-21.0	1979.5	76.0	1446.7	2.37	45.06
21.0-22.0	1750.5	70.4	1517.0	2.19	47.25
22.0-23.0	1525.7	64.0	1581.1	1.99	49.25
23.0-24.0	1306.1	57.1	1638.2	1.78	51.03
24.0-25.0	1087.5	49.5	1687.6	1.54	52.57
25.0-26.0	887.6	41.9	1729.5	1.31	53.87
26.0-27.0	717.4	35.1	1764.7	1.09	54.97
27.0-28.0	564.9	28.6	1793.3	0.89	55.86
28.0-29.0	438.8	23.0	1816.2	0.72	56.57
29.0-30.0	340.4	18.4	1834.6	0.57	57.14
30.0-31.0	262.1	14.6	1849.2	0.45	57.60
31.0-32.0	200.9	11.5	1860.7	0.36	57.96
32.0-33.0	154.4	9.1	1869.8	0.28	58.24
33.0-34.0	120.1	7.3	1877.1	0.23	58.47
34.0-35.0	94.9	5.9	1883.0	0.18	58.65
35.0-36.0	76.6	4.9	1887.8	0.15	58.80

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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	63.8	4.2	1892.0	0.13	58.93
37.0-38.0	54.4	3.6	1895.6	0.11	59.05
38.0-39.0	48.0	3.3	1898.9	0.10	59.15
39.0-40.0	43.7	3.0	1902.0	0.09	59.24
40.0-41.0	40.5	2.9	1904.8	0.09	59.33
41.0-42.0	38.2	2.8	1907.6	0.09	59.42
42.0-43.0	36.4	2.7	1910.3	0.08	59.50
43.0-44.0	35.0	2.6	1912.9	0.08	59.58
44.0-45.0	34.0	2.6	1915.6	0.08	59.67
45.0-46.0	33.4	2.6	1918.2	0.08	59.75
46.0-47.0	33.0	2.6	1920.8	0.08	59.83
47.0-48.0	32.9	2.7	1923.5	0.08	59.91
48.0-49.0	32.8	2.7	1926.1	0.08	60.00
49.0-50.0	32.6	2.7	1928.9	0.08	60.08
50.0-51.0	32.6	2.8	1931.6	0.09	60.17
51.0-52.0	32.5	2.8	1934.4	0.09	60.25
52.0-53.0	32.3	2.8	1937.2	0.09	60.34
53.0-54.0	32.0	2.8	1940.0	0.09	60.43
54.0-55.0	31.7	2.8	1942.9	0.09	60.52
55.0-56.0	31.4	2.8	1945.7	0.09	60.60
56.0-57.0	31.2	2.9	1948.5	0.09	60.69
57.0-58.0	31.1	2.9	1951.4	0.09	60.78
58.0-59.0	31.1	2.9	1954.3	0.09	60.87
59.0-60.0	31.1	2.9	1957.3	0.09	60.96
60.0-61.0	31.2	3.0	1960.2	0.09	61.06
61.0-62.0	31.3	3.0	1963.3	0.09	61.15
62.0-63.0	31.3	3.0	1966.3	0.09	61.25
63.0-64.0	31.2	3.1	1969.4	0.10	61.34
64.0-65.0	30.9	3.1	1972.4	0.10	61.44
65.0-66.0	30.7	3.1	1975.5	0.10	61.53
66.0-67.0	30.6	3.1	1978.5	0.10	61.63
67.0-68.0	30.7	3.1	1981.7	0.10	61.72
68.0-69.0	31.2	3.2	1984.8	0.10	61.82
69.0-70.0	31.9	3.3	1988.1	0.10	61.93
70.0-71.0	32.6	3.4	1991.5	0.10	62.03
71.0-72.0	33.2	3.5	1994.9	0.11	62.14

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

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	34.0	3.6	1998.5	0.11	62.25
73.0-74.0	34.8	3.7	2002.2	0.11	62.36
74.0-75.0	35.5	3.8	2005.9	0.12	62.48
75.0-76.0	36.2	3.8	2009.8	0.12	62.60
76.0-77.0	36.9	3.9	2013.7	0.12	62.72
77.0-78.0	37.8	4.1	2017.7	0.13	62.85
78.0-79.0	38.8	4.2	2021.9	0.13	62.98
79.0-80.0	39.8	4.3	2026.2	0.13	63.11
80.0-81.0	41.0	4.4	2030.6	0.14	63.25
81.0-82.0	42.3	4.6	2035.2	0.14	63.39
82.0-83.0	43.3	4.7	2039.9	0.15	63.54
83.0-84.0	43.9	4.8	2044.7	0.15	63.69
84.0-85.0	44.5	4.9	2049.6	0.15	63.84
85.0-86.0	45.2	4.9	2054.5	0.15	63.99
86.0-87.0	46.0	5.0	2059.6	0.16	64.15
87.0-88.0	47.0	5.2	2064.7	0.16	64.31
88.0-89.0	48.2	5.3	2070.0	0.16	64.48
89.0-90.0	55.4	6.1	2076.1	0.19	64.67
90.0-91.0	62.8	6.9	2083.0	0.21	64.88
91.0-92.0	64.8	7.1	2090.1	0.22	65.10
92.0-93.0	67.0	7.3	2097.4	0.23	65.33
93.0-94.0	69.4	7.6	2105.0	0.24	65.57
94.0-95.0	71.8	7.9	2112.8	0.24	65.81
95.0-96.0	74.4	8.1	2121.0	0.25	66.06
96.0-97.0	77.0	8.4	2129.4	0.26	66.33
97.0-98.0	79.7	8.7	2138.0	0.27	66.60
98.0-99.0	82.8	9.0	2147.0	0.28	66.87
99.0-100.0	86.5	9.4	2156.4	0.29	67.17
100.0-101.0	90.8	9.8	2166.1	0.31	67.47
101.0-102.0	95.7	10.3	2176.4	0.32	67.79
102.0-103.0	101.3	10.8	2187.3	0.34	68.13
103.0-104.0	107.8	11.5	2198.8	0.36	68.49
104.0-105.0	115.4	12.2	2211.0	0.38	68.87
105.0-106.0	124.4	13.1	2224.2	0.41	69.28
106.0-107.0	134.7	14.2	2238.3	0.44	69.72
107.0-108.0	146.1	15.3	2253.6	0.48	70.20

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	157.4	16.4	2270.0	0.51	70.71
109.0-110.0	166.8	17.2	2287.2	0.54	71.24
110.0-111.0	173.5	17.8	2305.0	0.56	71.80
111.0-112.0	178.6	18.2	2323.3	0.57	72.37
112.0-113.0	182.9	18.5	2341.8	0.58	72.94
113.0-114.0	187.4	18.8	2360.6	0.59	73.53
114.0-115.0	192.0	19.2	2379.8	0.60	74.13
115.0-116.0	196.7	19.5	2399.3	0.61	74.73
116.0-117.0	201.4	19.8	2419.0	0.62	75.35
117.0-118.0	206.1	20.0	2439.1	0.62	75.97
118.0-119.0	210.8	20.3	2459.4	0.63	76.61
119.0-120.0	215.6	20.6	2480.0	0.64	77.25
120.0-121.0	220.2	20.8	2500.8	0.65	77.89
121.0-122.0	224.6	21.0	2521.8	0.65	78.55
122.0-123.0	228.9	21.2	2543.0	0.66	79.21
123.0-124.0	233.0	21.3	2564.3	0.66	79.87
124.0-125.0	236.8	21.4	2585.7	0.67	80.54
125.0-126.0	240.4	21.5	2607.1	0.67	81.21
126.0-127.0	243.8	21.5	2628.6	0.67	81.88
127.0-128.0	246.7	21.5	2650.1	0.67	82.55
128.0-129.0	249.3	21.4	2671.5	0.67	83.21
129.0-130.0	251.6	21.3	2692.8	0.66	83.88
130.0-131.0	253.8	21.2	2713.9	0.66	84.53
131.0-132.0	255.8	21.0	2735.0	0.65	85.19
132.0-133.0	257.5	20.8	2755.8	0.65	85.84
133.0-134.0	258.9	20.6	2776.4	0.64	86.48
134.0-135.0	260.0	20.3	2796.7	0.63	87.11
135.0-136.0	260.6	20.0	2816.7	0.62	87.74
136.0-137.0	260.8	19.7	2836.4	0.61	88.35
137.0-138.0	260.5	19.3	2855.7	0.60	88.95
138.0-139.0	259.7	18.9	2874.6	0.59	89.54
139.0-140.0	258.4	18.4	2893.0	0.57	90.11
140.0-141.0	256.8	17.9	2910.9	0.56	90.67
141.0-142.0	254.8	17.4	2928.3	0.54	91.21
142.0-143.0	252.4	16.9	2945.2	0.52	91.74
143.0-144.0	249.9	16.3	2961.5	0.51	92.24

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	247.3	15.8	2977.2	0.49	92.73
145.0-146.0	244.8	15.2	2992.4	0.47	93.21
146.0-147.0	242.2	14.7	3007.1	0.46	93.66
147.0-148.0	239.6	14.1	3021.2	0.44	94.10
148.0-149.0	236.9	13.6	3034.8	0.42	94.53
149.0-150.0	234.0	13.0	3047.8	0.41	94.93
150.0-151.0	230.7	12.5	3060.2	0.39	95.32
151.0-152.0	227.3	11.9	3072.1	0.37	95.69
152.0-153.0	223.9	11.3	3083.5	0.35	96.04
153.0-154.0	220.3	10.8	3094.2	0.34	96.38
154.0-155.0	216.5	10.2	3104.5	0.32	96.70
155.0-156.0	212.7	9.7	3114.1	0.30	97.00
156.0-157.0	208.7	9.1	3123.3	0.28	97.28
157.0-158.0	204.5	8.6	3131.9	0.27	97.55
158.0-159.0	200.4	8.1	3139.9	0.25	97.80
159.0-160.0	196.2	7.5	3147.4	0.23	98.04
160.0-161.0	192.0	7.0	3154.5	0.22	98.26
161.0-162.0	188.0	6.5	3161.0	0.20	98.46
162.0-163.0	183.9	6.1	3167.1	0.19	98.65
163.0-164.0	179.7	5.6	3172.7	0.17	98.82
164.0-165.0	175.3	5.1	3177.8	0.16	98.98
165.0-166.0	170.8	4.7	3182.5	0.15	99.13
166.0-167.0	166.4	4.3	3186.8	0.13	99.26
167.0-168.0	162.2	3.8	3190.6	0.12	99.38
168.0-169.0	158.1	3.5	3194.1	0.11	99.49
169.0-170.0	153.9	3.1	3197.1	0.10	99.58
170.0-171.0	149.8	2.7	3199.9	0.08	99.67
171.0-172.0	145.7	2.4	3202.2	0.07	99.74
172.0-173.0	141.8	2.0	3204.2	0.06	99.81
173.0-174.0	138.1	1.7	3206.0	0.05	99.86
174.0-175.0	134.5	1.4	3207.4	0.04	99.90
175.0-176.0	131.7	1.1	3208.5	0.04	99.94
176.0-177.0	129.6	0.9	3209.4	0.03	99.97
177.0-178.0	128.1	0.6	3210.0	0.02	99.98
178.0-179.0	126.9	0.4	3210.3	0.01	100.00
179.0-180.0	126.3	0.1	3210.5	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°): 1915.56 lm

%lum = 59.7%
%lamp = 59.7%

cone flux(120°): 1957.26 lm

%lum = 61.0%
%lamp = 61.0%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	5343.4	5343.4	5343.4	5343.4	5343.4					
G1.0	5289.7	5356.5	5379.2	5309.6	5289.7					
G2.0	5216.7	5347.7	5400.4	5264.8	5216.7					
G3.0	5134.7	5312.3	5413.1	5210.2	5134.7					
G4.0	5035.0	5262.2	5408.3	5151.1	5035.0					
G5.0	4910.6	5197.5	5372.9	5067.8	4910.6					
G6.0	4751.7	5120.0	5330.8	4966.2	4751.7					
G7.0	4591.8	5006.7	5262.3	4841.1	4591.8					
G8.0	4416.3	4878.8	5162.1	4678.1	4416.3					
G9.0	4210.4	4735.0	5064.8	4504.9	4210.4					
G10.0	4006.0	4570.0	4934.2	4317.6	4006.0					
G11.0	3794.1	4355.2	4778.0	4119.6	3794.1					
G12.0	3544.4	4156.9	4584.7	3894.3	3544.4					
G13.0	3307.7	3940.4	4391.2	3638.1	3307.7					
G14.0	3070.3	3690.7	4161.7	3397.3	3070.3					
G15.0	2812.6	3453.3	3928.4	3118.6	2812.6					
G16.0	2578.2	3201.8	3695.3	2864.2	2578.2					
G17.0	2339.1	2947.6	3447.3	2603.3	2339.1					
G18.0	2098.5	2675.1	3160.8	2337.9	2098.5					
G19.0	1853.3	2430.0	2899.6	2112.6	1853.3					
G20.0	1646.1	2200.3	2643.9	1891.3	1646.1					
G21.0	1439.8	1989.2	2366.9	1658.9	1439.8					
G22.0	1217.6	1769.4	2121.6	1440.9	1217.6					
G23.0	1020.2	1545.7	1875.7	1214.3	1020.2					
G24.0	839.3	1311.1	1640.2	1002.6	839.3					
G25.0	667.4	1051.4	1396.6	791.4	667.4					
G26.0	524.0	859.7	1186.0	624.6	524.0					
G27.0	407.4	670.5	991.1	476.2	407.4					
G28.0	311.2	511.7	797.7	353.6	311.2					
G29.0	236.3	381.2	648.6	270.0	236.3					
G30.0	180.2	295.2	512.4	199.2	180.2					
G31.0	135.9	219.6	405.0	149.4	135.9					
G32.0	106.1	167.8	309.6	114.0	106.1					
G33.0	81.2	128.6	240.0	88.3	81.2					
G34.0	65.8	101.2	185.3	70.9	65.8					
G35.0	55.0	81.0	138.6	61.1	55.0					
G36.0	47.4	69.1	106.3	54.1	47.4					

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	41.3	60.6	82.8	48.5	41.3					
G38.0	37.6	54.1	65.0	45.2	37.6					
G39.0	34.6	49.9	54.9	42.8	34.6					
G40.0	31.9	46.5	47.4	41.5	31.9					
G41.0	30.1	44.8	41.5	40.7	30.1					
G42.0	27.8	43.0	37.5	39.9	27.8					
G43.0	26.6	41.9	34.5	39.7	26.6					
G44.0	25.6	40.7	31.5	39.3	25.6					
G45.0	24.8	40.4	29.7	39.6	24.8					
G46.0	24.1	40.0	28.2	40.3	24.1					
G47.0	23.5	39.7	27.2	41.0	23.5					
G48.0	23.1	40.3	26.0	41.9	23.1					
G49.0	22.6	40.6	25.3	42.2	22.6					
G50.0	21.8	40.4	25.5	42.6	21.8					
G51.0	20.9	41.0	25.0	43.3	20.9					
G52.0	20.5	41.4	24.5	43.2	20.5					
G53.0	20.0	41.7	23.7	43.2	20.0					
G54.0	19.4	41.5	23.3	42.9	19.4					
G55.0	18.9	41.5	22.7	43.2	18.9					
G56.0	18.7	41.5	21.9	42.8	18.7					
G57.0	18.9	41.4	21.2	42.9	18.9					
G58.0	18.7	41.4	20.7	43.5	18.7					
G59.0	18.6	41.5	20.1	44.0	18.6					
G60.0	18.5	41.8	19.4	44.5	18.5					
G61.0	18.6	41.8	19.4	45.2	18.6					
G62.0	18.1	42.1	19.2	46.2	18.1					
G63.0	16.8	42.5	18.9	47.0	16.8					
G64.0	14.5	43.3	18.2	48.0	14.5					
G65.0	13.1	44.0	16.8	48.9	13.1					
G66.0	12.5	44.7	14.9	50.3	12.5					
G67.0	12.2	45.5	13.1	51.3	12.2					
G68.0	12.2	46.5	12.5	52.5	12.2					
G69.0	12.6	47.3	12.2	54.0	12.6					
G70.0	12.7	48.2	12.3	55.5	12.7					
G71.0	13.1	49.5	12.2	56.9	13.1					
G72.0	13.4	50.4	12.3	58.1	13.4					
G73.0	13.8	51.9	12.7	59.5	13.8					

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	13.7	52.9	12.9	61.0	13.7					
G75.0	13.7	54.3	13.3	62.4	13.7					
G76.0	13.4	55.5	13.4	64.0	13.4					
G77.0	13.4	56.5	13.6	65.8	13.4					
G78.0	13.7	58.3	13.7	67.8	13.7					
G79.0	14.2	59.9	13.7	69.5	14.2					
G80.0	15.2	61.0	14.0	71.0	15.2					
G81.0	16.4	62.6	15.2	72.5	16.4					
G82.0	16.1	64.3	16.7	74.3	16.1					
G83.0	15.5	65.5	17.4	76.3	15.5					
G84.0	14.9	66.2	17.1	78.4	14.9					
G85.0	14.6	67.7	16.4	80.5	14.6					
G86.0	14.6	69.2	15.9	82.6	14.6					
G87.0	14.6	71.3	15.2	84.8	14.6					
G88.0	15.2	73.3	14.9	86.9	15.2					
G89.0	15.3	75.5	15.5	89.1	15.3					
G90.0	22.0	102.2	21.1	102.3	22.0					
G91.0	22.9	105.2	21.8	105.1	22.9					
G92.0	24.1	108.4	22.8	108.2	24.1					
G93.0	25.6	111.7	24.0	111.4	25.6					
G94.0	27.3	114.7	25.6	114.7	27.3					
G95.0	29.4	117.7	27.1	118.0	29.4					
G96.0	31.1	121.0	29.4	121.2	31.1					
G97.0	32.7	124.3	31.6	124.6	32.7					
G98.0	35.1	127.5	33.4	128.2	35.1					
G99.0	39.0	131.1	36.0	131.9	39.0					
G100.0	43.5	134.4	40.5	135.8	43.5					
G101.0	49.1	138.3	45.1	139.8	49.1					
G102.0	55.9	141.9	51.4	143.8	55.9					
G103.0	64.6	145.7	59.2	148.1	64.6					
G104.0	74.9	149.4	68.4	152.0	74.9					
G105.0	87.1	153.3	81.4	156.3	87.1					
G106.0	103.8	156.8	95.6	160.8	103.8					
G107.0	121.7	160.9	113.1	165.1	121.7					
G108.0	139.3	164.4	134.7	169.5	139.3					
G109.0	156.2	168.4	152.8	174.0	156.2					
G110.0	166.3	172.3	166.0	178.4	166.3					

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 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	171.6	176.1	174.4	183.3	171.6					
G112.0	176.0	180.4	179.2	187.7	176.0					
G113.0	180.4	184.1	184.1	191.6	180.4					
G114.0	185.0	187.9	189.7	196.3	185.0					
G115.0	190.1	191.8	194.8	200.6	190.1					
G116.0	194.9	195.7	200.4	205.3	194.9					
G117.0	199.8	199.7	205.4	210.1	199.8					
G118.0	204.9	204.1	210.5	214.3	204.9					
G119.0	210.0	208.1	216.2	218.6	210.0					
G120.0	215.7	212.1	221.1	222.8	215.7					
G121.0	220.8	216.1	226.0	227.0	220.8					
G122.0	225.4	220.4	230.0	231.5	225.4					
G123.0	229.3	224.5	234.0	236.0	229.3					
G124.0	233.4	228.6	237.8	240.0	233.4					
G125.0	237.0	232.4	241.7	243.8	237.0					
G126.0	240.2	236.0	244.8	247.6	240.2					
G127.0	243.5	239.7	247.6	250.9	243.5					
G128.0	246.3	242.4	250.4	253.1	246.3					
G129.0	248.9	245.0	252.7	255.5	248.9					
G130.0	251.3	247.4	254.7	257.7	251.3					
G131.0	253.2	249.6	256.9	259.9	253.2					
G132.0	255.1	251.5	258.6	261.7	255.1					
G133.0	256.8	253.2	260.0	263.2	256.8					
G134.0	258.1	254.4	261.2	264.5	258.1					
G135.0	259.1	255.0	262.1	265.3	259.1					
G136.0	259.8	255.2	262.6	265.7	259.8					
G137.0	259.9	254.9	262.6	265.6	259.9					
G138.0	259.7	254.3	261.9	265.1	259.7					
G139.0	258.7	253.3	260.8	264.1	258.7					
G140.0	257.2	251.8	258.9	262.8	257.2					
G141.0	255.3	250.1	257.1	260.9	255.3					
G142.0	253.0	248.2	254.8	258.8	253.0					
G143.0	250.6	245.9	251.7	256.5	250.6					
G144.0	247.9	243.9	248.6	253.8	247.9					
G145.0	245.3	242.1	245.5	251.4	245.3					
G146.0	242.2	240.5	242.3	248.9	242.2					
G147.0	239.5	238.8	239.4	246.1	239.5					

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:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	236.8	237.0	236.3	243.3	236.8					
G149.0	233.9	234.9	233.2	240.1	233.9					
G150.0	230.5	232.7	229.7	236.6	230.5					
G151.0	227.3	230.1	225.7	232.7	227.3					
G152.0	223.9	227.5	222.0	229.1	223.9					
G153.0	220.4	224.7	218.2	225.2	220.4					
G154.0	216.4	221.8	213.9	221.5	216.4					
G155.0	212.6	218.7	210.0	217.5	212.6					
G156.0	208.6	215.3	205.6	213.3	208.6					
G157.0	204.7	211.3	201.4	209.2	204.7					
G158.0	200.2	207.5	197.2	205.0	200.2					
G159.0	196.0	203.7	193.0	200.8	196.0					
G160.0	191.9	199.5	188.2	196.7	191.9					
G161.0	187.8	195.9	183.8	192.5	187.8					
G162.0	183.4	192.3	179.3	188.7	183.4					
G163.0	179.2	188.5	174.5	184.9	179.2					
G164.0	174.9	184.3	170.3	180.7	174.9					
G165.0	170.1	180.0	166.0	175.9	170.1					
G166.0	165.7	175.6	161.1	171.7	165.7					
G167.0	161.4	171.6	156.6	167.4	161.4					
G168.0	157.0	167.7	152.5	163.3	157.0					
G169.0	152.4	164.1	148.4	159.2	152.4					
G170.0	148.3	160.5	144.0	154.6	148.3					
G171.0	144.0	156.1	140.0	150.7	144.0					
G172.0	139.5	152.1	136.1	147.2	139.5					
G173.0	135.7	148.6	132.9	142.5	135.7					
G174.0	132.3	143.9	130.5	138.1	132.3					
G175.0	129.6	139.0	128.6	134.4	129.6					
G176.0	127.7	135.0	127.5	131.6	127.7					
G177.0	126.2	131.9	126.8	130.2	126.2					
G178.0	125.6	130.1	126.5	127.4	125.6					
G179.0	125.7	127.8	126.5	125.9	125.7					
G180.0	126.2	126.2	126.2	126.2	126.2					

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:

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