

Report No.: TH-4104A

Test Time: 2023/3/3 11:42

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 2.097 A
Power Factor: 0.949

Luminaire Description: LSQC-500W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 249.4 V
Power: 497.6W

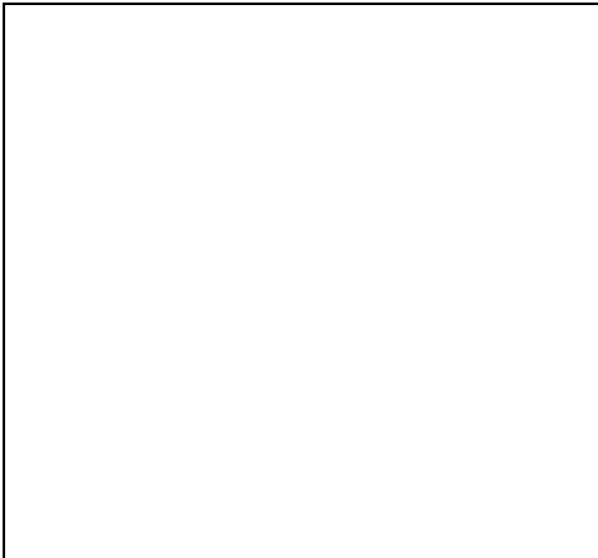
Photometric Results

CIE Class: Direct
Measurement Flux: 68014.4 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H29.3
Vertical Diffuse Angle(50%): V28.9
Luminaire Efficacy Rating (LER): 136.73
Max. Intensity: 211901.54 cd
S/MH(C0/C180): 0.49

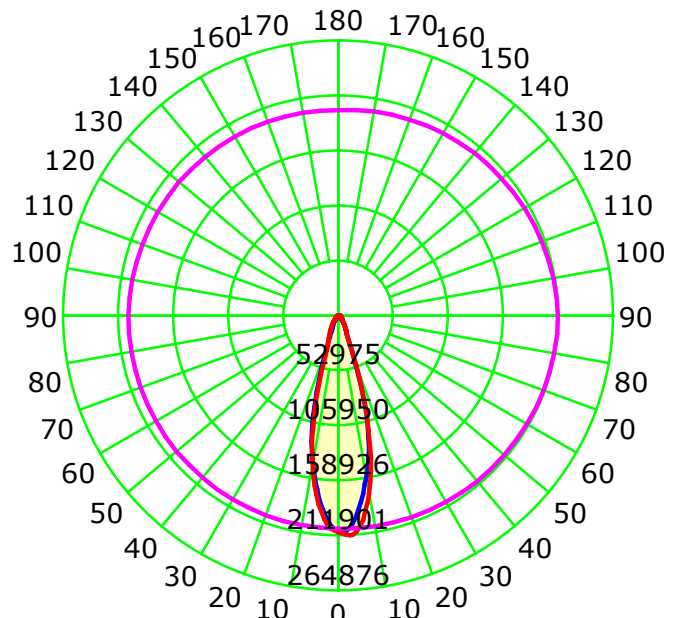
Total Rated Lamp Lumens: 68014.4 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 208708.03 cd
Pos of Max. Intensity: H90 V3
S/MH(C90/C270): 0.49

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

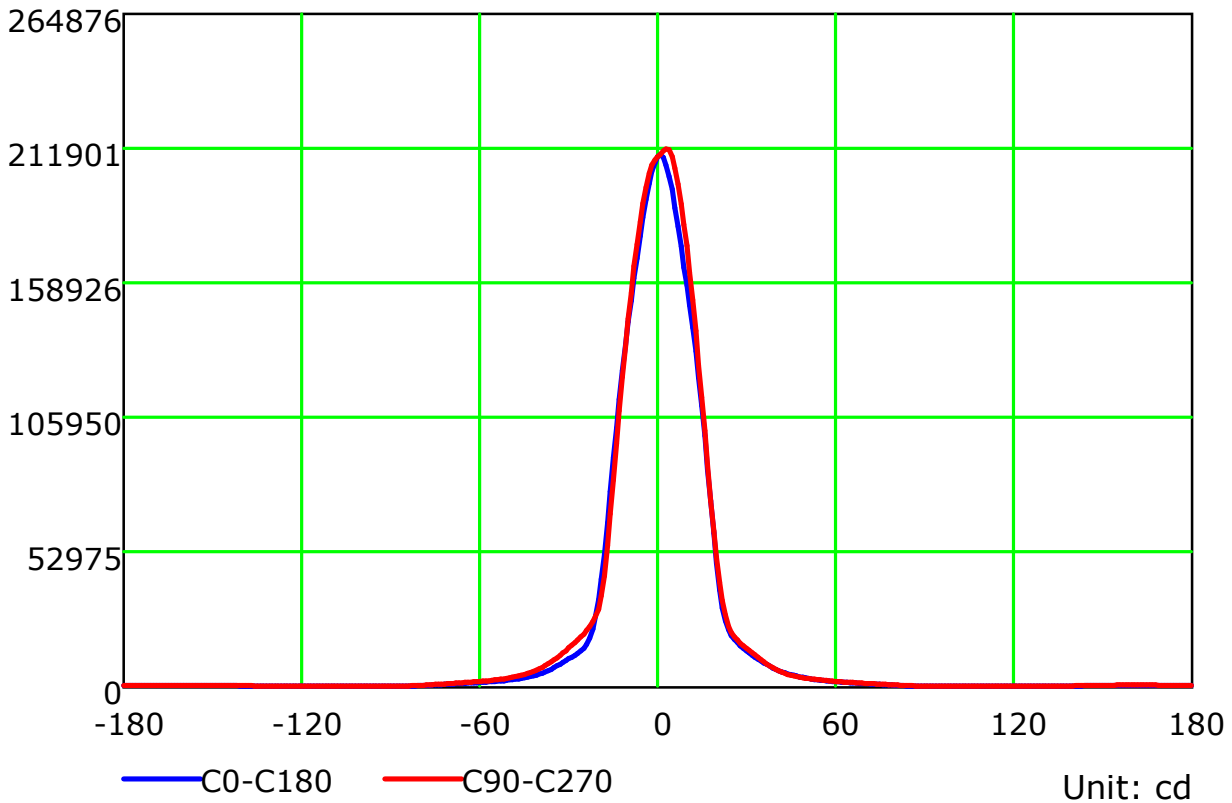
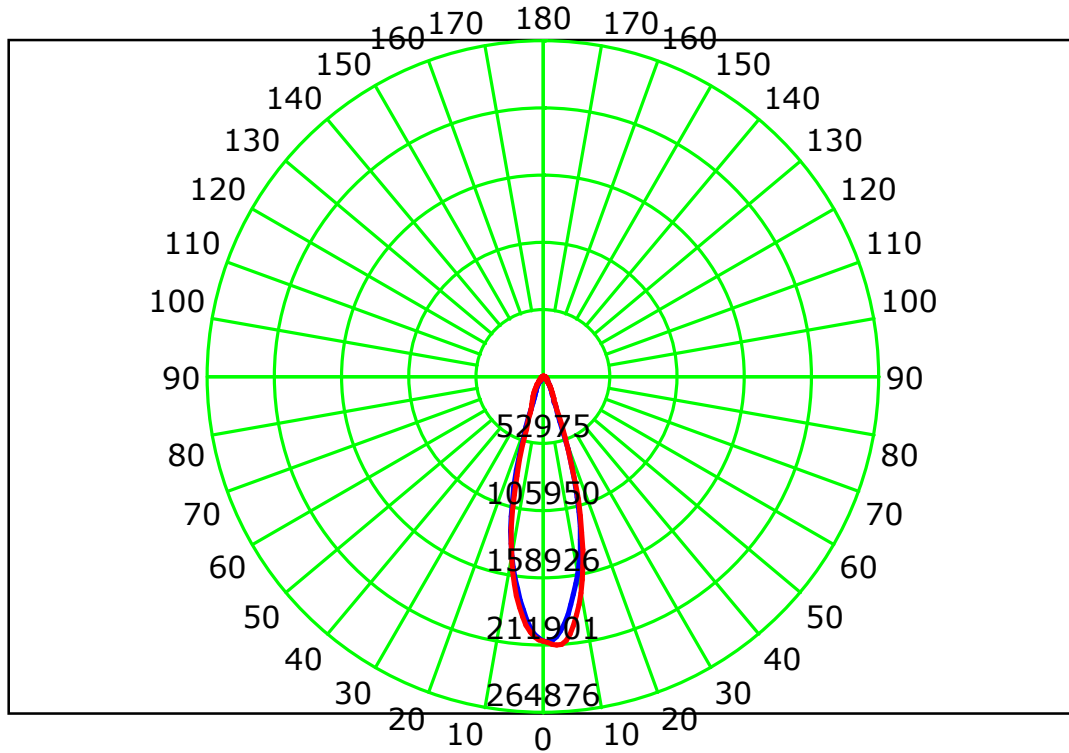
Average Diffuse Angle(50%): 29.0°

— 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: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

Luminous Intensity Distribution Curve



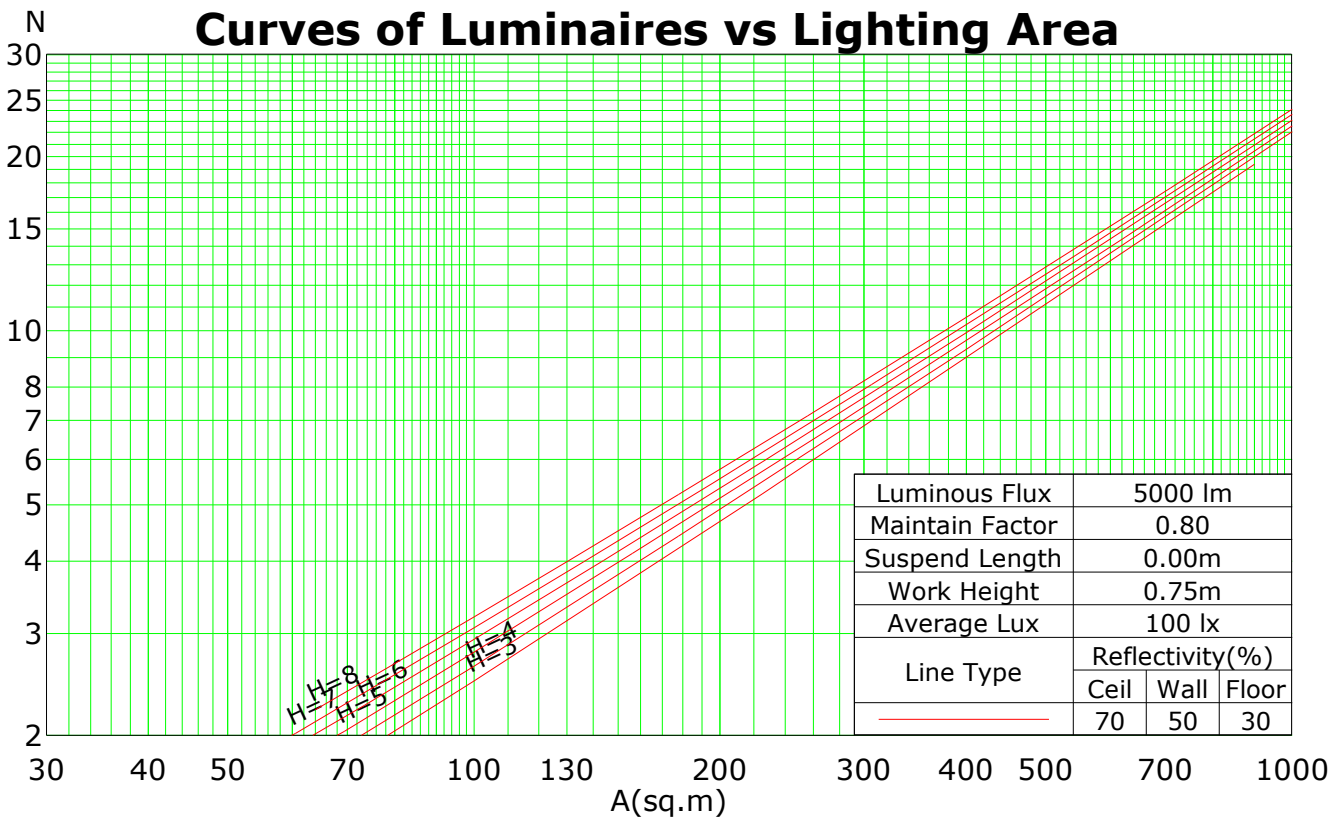
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Inspector:

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	1.19	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	1.13	1.11	1.08	1.06	1.11	1.08	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93
2	1.08	1.04	1.00	0.97	1.06	1.02	0.98	0.95	0.98	0.96	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.87
3	1.04	0.98	0.93	0.89	1.01	0.96	0.92	0.88	0.93	0.90	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.82
4	0.99	0.92	0.87	0.83	0.97	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.83	0.81	0.85	0.82	0.80	0.78
5	0.95	0.88	0.82	0.79	0.94	0.87	0.82	0.78	0.85	0.81	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.74
6	0.91	0.84	0.78	0.75	0.90	0.83	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.71
7	0.88	0.80	0.75	0.71	0.87	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.68
8	0.85	0.77	0.72	0.68	0.84	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.66
9	0.82	0.74	0.69	0.65	0.81	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.64	0.63
10	0.79	0.71	0.66	0.63	0.78	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61

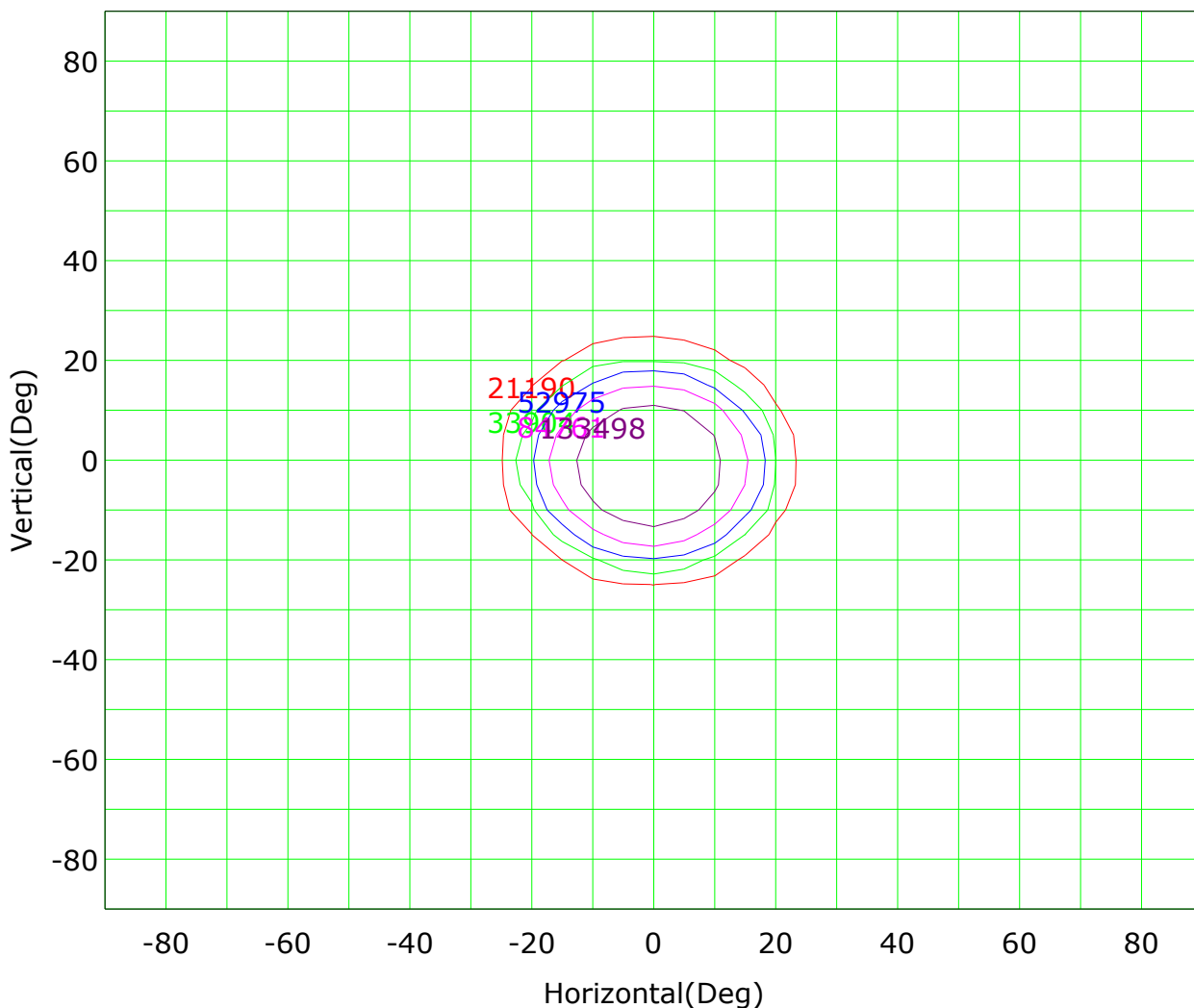
Spacing Criteria (0-180): 0.49
 Spacing Criteria (90-270): 0.49
 Spacing Criteria (Diagonal): 0.46



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: 8.607 m [K=1.0699]
 Humidity: 65
 Inspector:

Isocandela (rectangle)



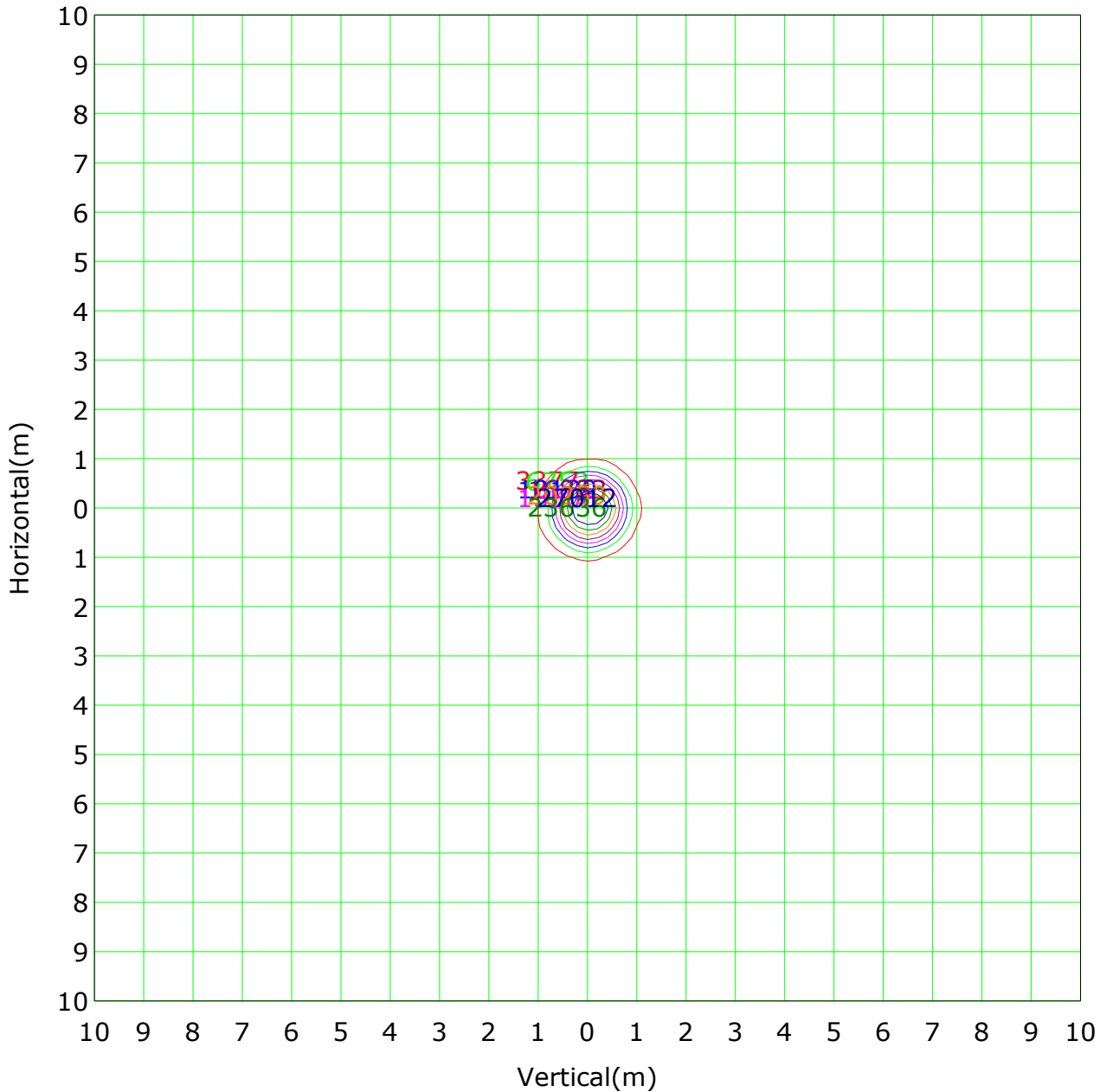
Imax (100%): 211902 cd

- | | |
|---------------------|---------------------|
| — (10%): 21190 cd | — (16%): 33904 cd |
| — (25%): 52975 cd | — (40%): 84761 cd |
| — (63%): 133498 cd | — (100%): 211902 cd |

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 2.5m		Max Lux(100%): 33765.0 lx	
— (10%):3376.5 lx	— (20%):6753.0 lx	— (30%):10129.5 lx	— (40%):13506.0 lx
— (50%):16882.5 lx	— (60%):20259.0 lx	— (70%):23635.5 lx	— (80%):27012.0 lx

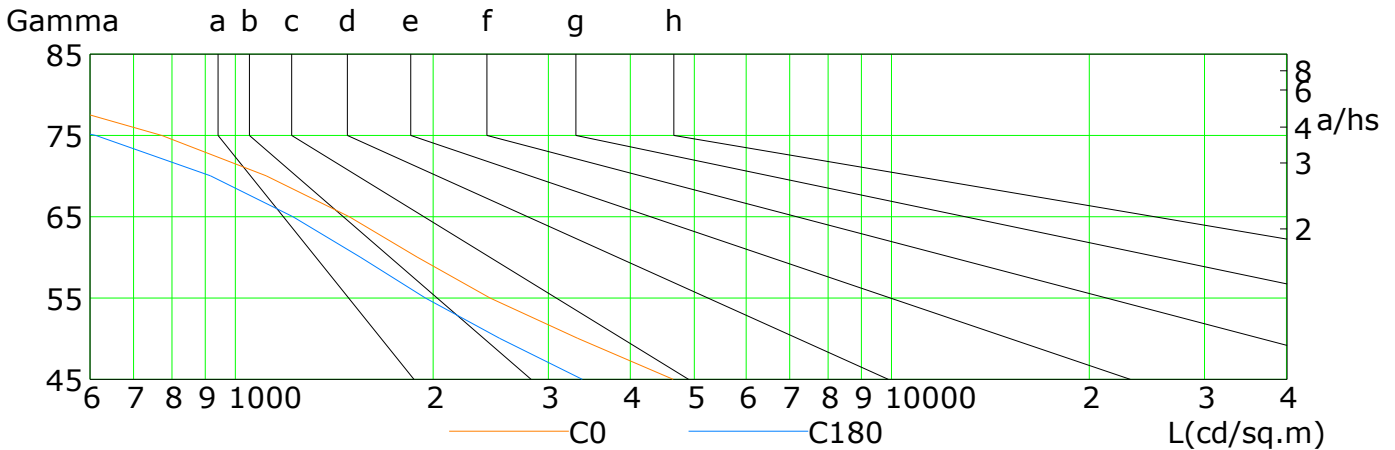
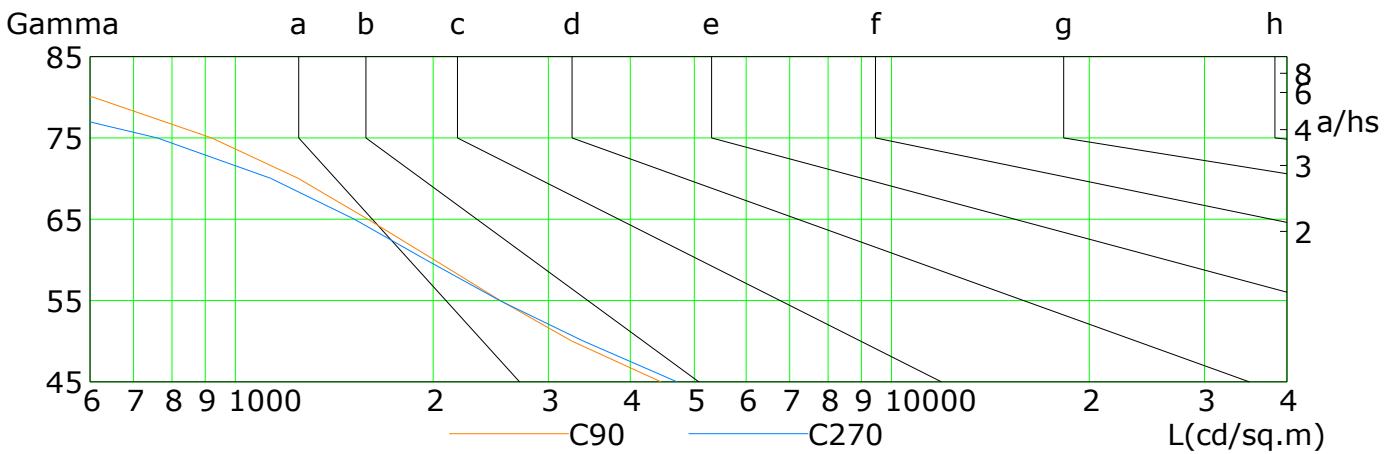
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Test Type: TYPE C
Temperature: 26
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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

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

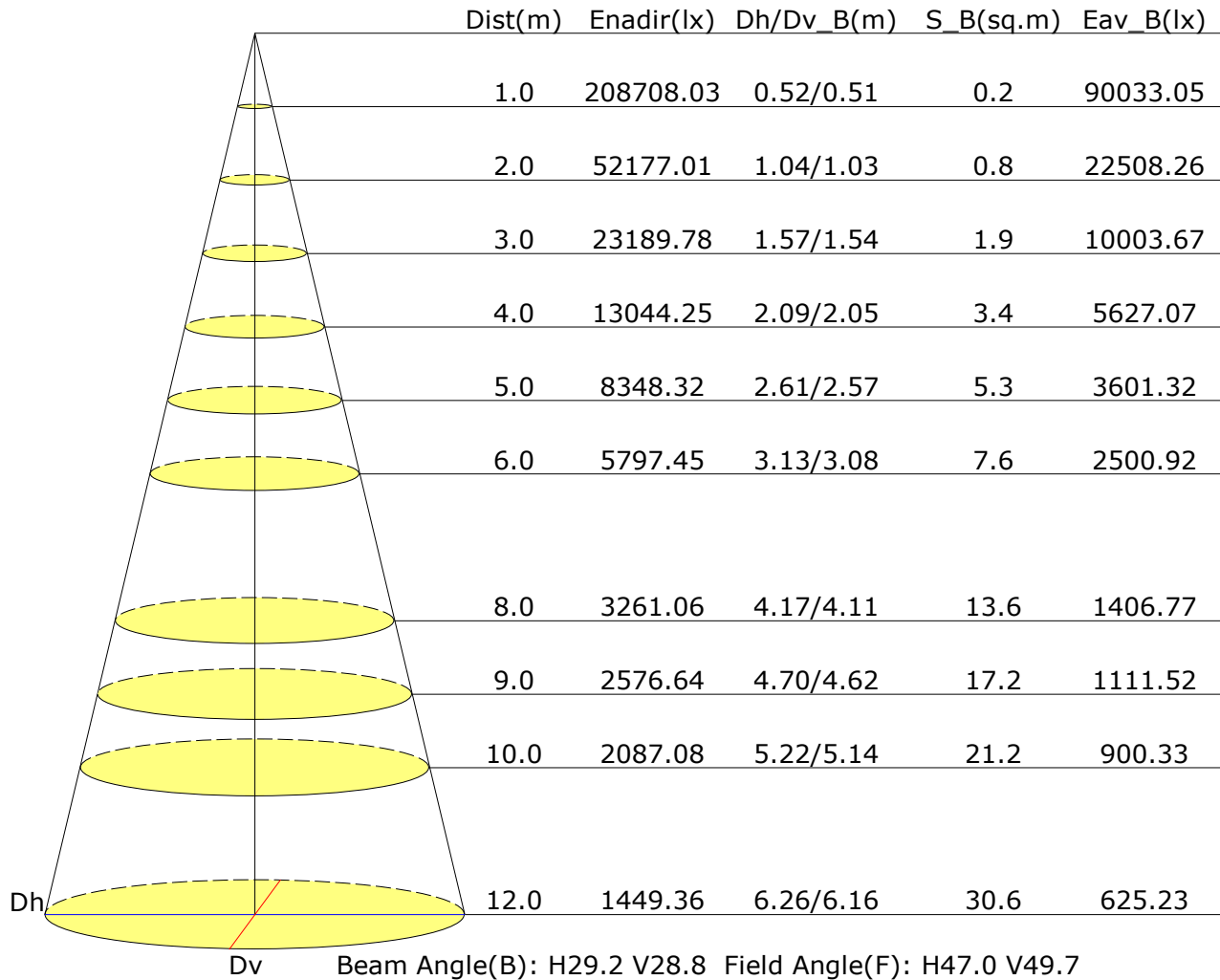


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4647	3322	2445	1893	1490	1115	773	469	188
C90	4452	3251	2536	2006	1590	1245	920	607	319
C180	3378	2528	1948	1551	1225	916	613	337	116
C270	4714	3385	2529	1948	1520	1130	760	422	172

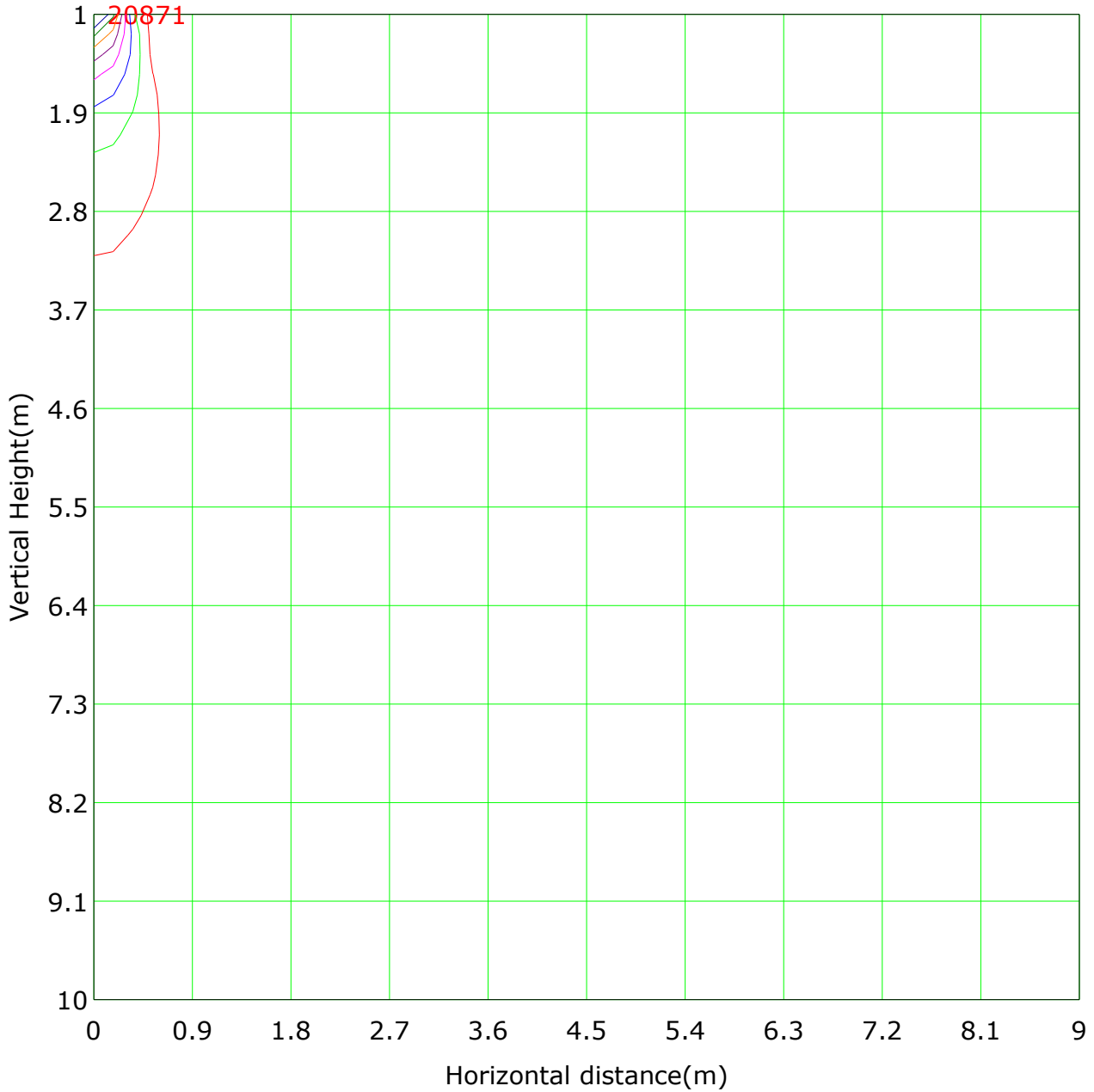
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Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

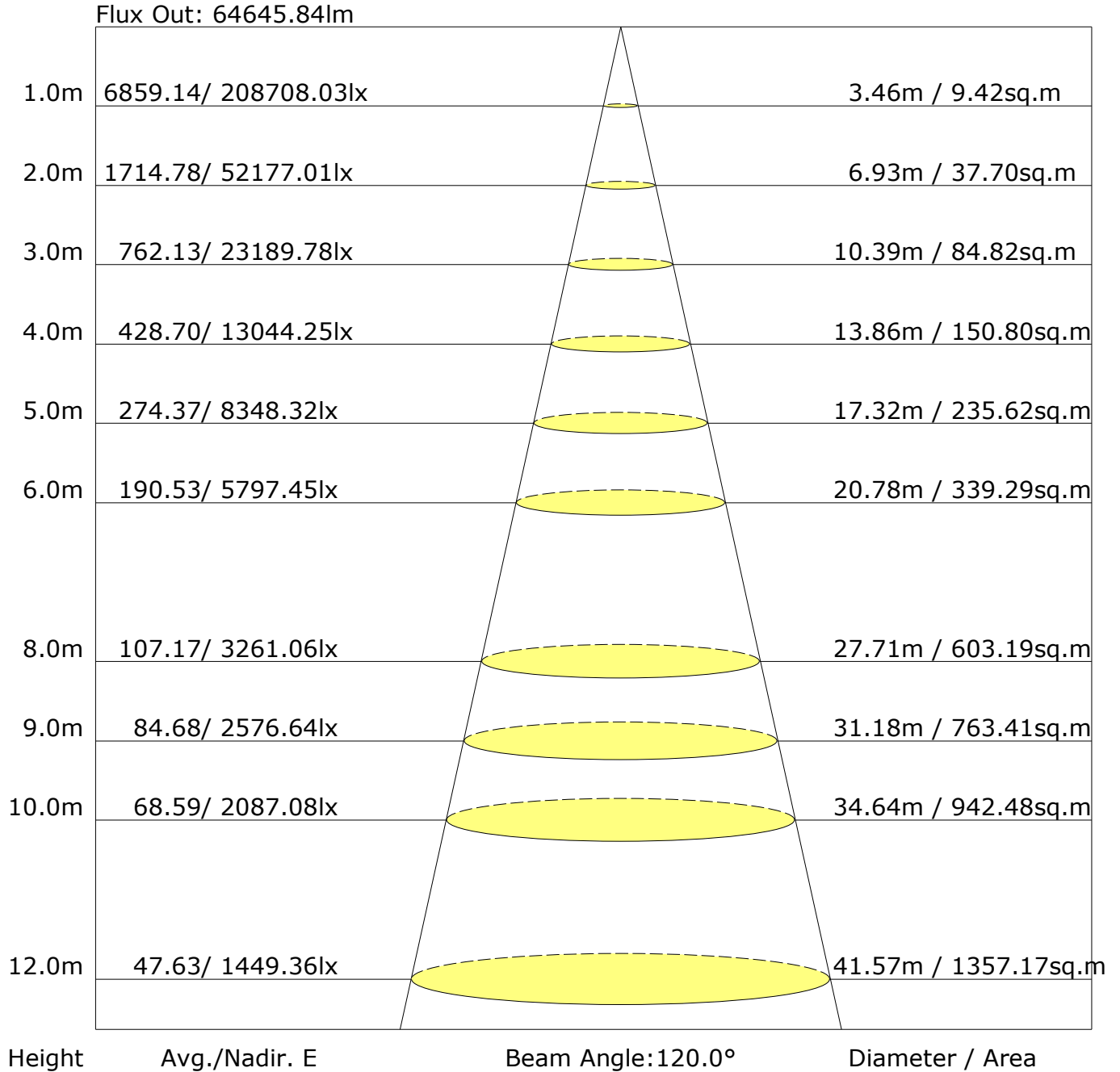


Lowest(m): 1.0m		Highest(m): 10.0m		Max Lux: 208708.0 lx	
— (10%):20870.8 lx	— (20%):41741.6 lx	— (30%):62612.4 lx	— (40%):83483.2 lx	— (50%):104354.0 lx	— (60%):125224.8 lx
— (70%):146095.6 lx	— (80%):166966.4 lx				

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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: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

The Average Illuminance Effective Figure



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: 8.607 m [K=1.0699]
 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 68014lm ($\log(F/F_0) = 14.7$).

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
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	208433.6	199.5	199.5	0.29	0.29
1.0-2.0	207578.9	595.9	795.3	0.88	1.17
2.0-3.0	205684.7	983.9	1779.2	1.45	2.62
3.0-4.0	202299.1	1354.3	3133.5	1.99	4.61
4.0-5.0	197580.6	1700.0	4833.5	2.50	7.11
5.0-6.0	191611.8	2013.9	6847.4	2.96	10.07
6.0-7.0	184436.5	2289.6	9137.0	3.37	13.43
7.0-8.0	176517.5	2526.6	11663.6	3.71	17.15
8.0-9.0	168028.0	2723.6	14387.2	4.00	21.15
9.0-10.0	159310.2	2883.4	17270.6	4.24	25.39
10.0-11.0	150211.1	3001.8	20272.4	4.41	29.81
11.0-12.0	140223.4	3065.7	23338.1	4.51	34.31
12.0-13.0	129232.7	3067.3	26405.4	4.51	38.82
13.0-14.0	117456.0	3006.9	29412.3	4.42	43.24
14.0-15.0	105231.5	2889.3	32301.6	4.25	47.49
15.0-16.0	92563.1	2712.6	35014.2	3.99	51.48
16.0-17.0	79709.9	2482.6	37496.8	3.65	55.13
17.0-18.0	66837.4	2204.0	39700.8	3.24	58.37
18.0-19.0	55153.8	1919.1	41619.9	2.82	61.19
19.0-20.0	45447.0	1663.6	43283.6	2.45	63.64
20.0-21.0	37279.2	1431.7	44715.2	2.10	65.74
21.0-22.0	30877.6	1241.0	45956.2	1.82	67.57
22.0-23.0	26178.0	1098.6	47054.8	1.62	69.18
23.0-24.0	22641.7	990.1	48044.9	1.46	70.64
24.0-25.0	20186.3	918.0	48962.8	1.35	71.99
25.0-26.0	18570.4	876.7	49839.6	1.29	73.28
26.0-27.0	17303.9	846.7	50686.2	1.24	74.52
27.0-28.0	16184.7	819.5	51505.8	1.20	75.73
28.0-29.0	15158.0	793.2	52298.9	1.17	76.89
29.0-30.0	14234.1	768.6	53067.6	1.13	78.02
30.0-31.0	13355.1	743.3	53810.9	1.09	79.12
31.0-32.0	12482.6	715.2	54526.1	1.05	80.17
32.0-33.0	11636.3	685.6	55211.7	1.01	81.18
33.0-34.0	10796.8	653.5	55865.2	0.96	82.14
34.0-35.0	9970.3	619.3	56484.5	0.91	83.05
35.0-36.0	9202.3	586.0	57070.5	0.86	83.91

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	8479.2	553.1	57623.6	0.81	84.72
37.0-38.0	7794.1	520.3	58143.9	0.76	85.49
38.0-39.0	7164.5	489.1	58633.0	0.72	86.21
39.0-40.0	6596.8	460.1	59093.1	0.68	86.88
40.0-41.0	6071.8	432.4	59525.5	0.64	87.52
41.0-42.0	5595.3	406.6	59932.1	0.60	88.12
42.0-43.0	5186.3	384.2	60316.3	0.56	88.68
43.0-44.0	4814.4	363.4	60679.8	0.53	89.22
44.0-45.0	4466.6	343.3	61023.1	0.50	89.72
45.0-46.0	4158.1	325.2	61348.3	0.48	90.20
46.0-47.0	3892.2	309.6	61657.9	0.46	90.65
47.0-48.0	3639.1	294.2	61952.1	0.43	91.09
48.0-49.0	3410.7	280.1	62232.3	0.41	91.50
49.0-50.0	3215.2	268.1	62500.4	0.39	91.89
50.0-51.0	3031.0	256.5	62756.8	0.38	92.27
51.0-52.0	2858.1	245.3	63002.1	0.36	92.63
52.0-53.0	2701.3	235.0	63237.1	0.35	92.98
53.0-54.0	2559.5	225.6	63462.8	0.33	93.31
54.0-55.0	2428.3	216.8	63679.5	0.32	93.63
55.0-56.0	2306.4	208.4	63888.0	0.31	93.93
56.0-57.0	2193.3	200.6	64088.6	0.29	94.23
57.0-58.0	2085.5	192.9	64281.4	0.28	94.51
58.0-59.0	1984.5	185.6	64467.0	0.27	94.78
59.0-60.0	1892.8	178.8	64645.8	0.26	95.05
60.0-61.0	1809.0	172.7	64818.5	0.25	95.30
61.0-62.0	1727.2	166.5	64985.0	0.24	95.55
62.0-63.0	1646.0	160.1	65145.1	0.24	95.78
63.0-64.0	1568.5	153.9	65299.0	0.23	96.01
64.0-65.0	1493.5	147.8	65446.8	0.22	96.22
65.0-66.0	1417.2	141.4	65588.2	0.21	96.43
66.0-67.0	1343.1	135.1	65723.3	0.20	96.63
67.0-68.0	1273.3	129.0	65852.3	0.19	96.82
68.0-69.0	1202.8	122.7	65975.0	0.18	97.00
69.0-70.0	1134.5	116.5	66091.6	0.17	97.17
70.0-71.0	1068.4	110.4	66202.0	0.16	97.34
71.0-72.0	1001.1	104.1	66306.1	0.15	97.49

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
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	932.7	97.5	66403.7	0.14	97.63
73.0-74.0	865.6	91.0	66494.7	0.13	97.77
74.0-75.0	799.6	84.5	66579.2	0.12	97.89
75.0-76.0	734.3	78.0	66657.1	0.11	98.00
76.0-77.0	670.4	71.5	66728.6	0.11	98.11
77.0-78.0	608.8	65.2	66793.8	0.10	98.21
78.0-79.0	547.9	58.9	66852.7	0.09	98.29
79.0-80.0	487.6	52.6	66905.3	0.08	98.37
80.0-81.0	430.9	46.6	66951.9	0.07	98.44
81.0-82.0	375.1	40.7	66992.6	0.06	98.50
82.0-83.0	321.0	34.9	67027.5	0.05	98.55
83.0-84.0	269.3	29.3	67056.8	0.04	98.59
84.0-85.0	221.0	24.1	67080.9	0.04	98.63
85.0-86.0	178.8	19.5	67100.5	0.03	98.66
86.0-87.0	144.7	15.8	67116.3	0.02	98.68
87.0-88.0	113.2	12.4	67128.7	0.02	98.70
88.0-89.0	89.1	9.8	67138.5	0.01	98.71
89.0-90.0	72.4	7.9	67146.4	0.01	98.72
90.0-91.0	60.7	6.7	67153.1	0.01	98.73
91.0-92.0	57.5	6.3	67159.4	0.01	98.74
92.0-93.0	53.5	5.9	67165.2	0.01	98.75
93.0-94.0	49.5	5.4	67170.6	0.01	98.76
94.0-95.0	46.3	5.1	67175.7	0.01	98.77
95.0-96.0	43.9	4.8	67180.5	0.01	98.77
96.0-97.0	42.3	4.6	67185.1	0.01	98.78
97.0-98.0	39.9	4.3	67189.5	0.01	98.79
98.0-99.0	38.3	4.2	67193.6	0.01	98.79
99.0-100.0	37.5	4.1	67197.7	0.01	98.80
100.0-101.0	37.5	4.0	67201.7	0.01	98.81
101.0-102.0	37.5	4.0	67205.8	0.01	98.81
102.0-103.0	35.9	3.8	67209.6	0.01	98.82
103.0-104.0	27.1	2.9	67212.5	0.00	98.82
104.0-105.0	18.4	1.9	67214.4	0.00	98.82
105.0-106.0	8.8	0.9	67215.4	0.00	98.83
106.0-107.0	8.0	0.8	67216.2	0.00	98.83
107.0-108.0	8.0	0.8	67217.0	0.00	98.83

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: 8.607 m [K=1.0699]
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	67217.0	0.00	98.83
109.0-110.0	8.0	0.8	67217.9	0.00	98.83
110.0-111.0	16.0	1.6	67219.5	0.00	98.83
111.0-112.0	24.0	2.4	67222.0	0.00	98.83
112.0-113.0	31.9	3.2	67225.2	0.00	98.84
113.0-114.0	32.7	3.3	67228.5	0.00	98.84
114.0-115.0	34.3	3.4	67231.9	0.01	98.85
115.0-116.0	35.1	3.5	67235.4	0.01	98.85
116.0-117.0	35.1	3.4	67238.8	0.01	98.86
117.0-118.0	35.9	3.5	67242.3	0.01	98.86
118.0-119.0	36.7	3.5	67245.9	0.01	98.87
119.0-120.0	37.5	3.6	67249.4	0.01	98.88
120.0-121.0	39.1	3.7	67253.1	0.01	98.88
121.0-122.0	41.5	3.9	67257.0	0.01	98.89
122.0-123.0	50.8	4.7	67261.7	0.01	98.89
123.0-124.0	66.2	6.1	67267.8	0.01	98.90
124.0-125.0	76.1	6.9	67274.6	0.01	98.91
125.0-126.0	81.9	7.3	67282.0	0.01	98.92
126.0-127.0	89.4	7.9	67289.8	0.01	98.93
127.0-128.0	96.1	8.4	67298.2	0.01	98.95
128.0-129.0	103.6	8.9	67307.1	0.01	98.96
129.0-130.0	114.0	9.6	67316.7	0.01	98.97
130.0-131.0	123.6	10.3	67327.0	0.02	98.99
131.0-132.0	131.7	10.8	67337.9	0.02	99.01
132.0-133.0	140.5	11.4	67349.2	0.02	99.02
133.0-134.0	152.5	12.1	67361.3	0.02	99.04
134.0-135.0	166.0	13.0	67374.3	0.02	99.06
135.0-136.0	179.2	13.8	67388.1	0.02	99.08
136.0-137.0	193.3	14.6	67402.7	0.02	99.10
137.0-138.0	206.7	15.3	67418.0	0.02	99.12
138.0-139.0	220.8	16.0	67434.0	0.02	99.15
139.0-140.0	235.8	16.8	67450.8	0.02	99.17
140.0-141.0	250.6	17.5	67468.3	0.03	99.20
141.0-142.0	266.1	18.2	67486.5	0.03	99.22
142.0-143.0	282.7	18.9	67505.4	0.03	99.25
143.0-144.0	297.6	19.4	67524.8	0.03	99.28

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: 8.607 m [K=1.0699]
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	312.5	19.9	67544.7	0.03	99.31
145.0-146.0	328.9	20.4	67565.1	0.03	99.34
146.0-147.0	345.2	20.9	67586.0	0.03	99.37
147.0-148.0	358.7	21.1	67607.1	0.03	99.40
148.0-149.0	372.1	21.3	67628.5	0.03	99.43
149.0-150.0	387.7	21.6	67650.0	0.03	99.46
150.0-151.0	401.1	21.7	67671.7	0.03	99.50
151.0-152.0	411.5	21.5	67693.2	0.03	99.53
152.0-153.0	421.2	21.3	67714.5	0.03	99.56
153.0-154.0	429.5	21.0	67735.6	0.03	99.59
154.0-155.0	437.0	20.6	67756.2	0.03	99.62
155.0-156.0	444.5	20.2	67776.4	0.03	99.65
156.0-157.0	448.8	19.6	67796.0	0.03	99.68
157.0-158.0	454.8	19.1	67815.1	0.03	99.71
158.0-159.0	457.9	18.4	67833.5	0.03	99.73
159.0-160.0	457.3	17.6	67851.1	0.03	99.76
160.0-161.0	458.1	16.8	67867.8	0.02	99.78
161.0-162.0	456.6	15.9	67883.7	0.02	99.81
162.0-163.0	455.1	15.0	67898.7	0.02	99.83
163.0-164.0	452.1	14.1	67912.8	0.02	99.85
164.0-165.0	448.4	13.1	67926.0	0.02	99.87
165.0-166.0	444.6	12.2	67938.2	0.02	99.89
166.0-167.0	436.4	11.2	67949.3	0.02	99.90
167.0-168.0	429.8	10.2	67959.5	0.01	99.92
168.0-169.0	423.9	9.3	67968.8	0.01	99.93
169.0-170.0	415.6	8.3	67977.1	0.01	99.95
170.0-171.0	408.2	7.4	67984.5	0.01	99.96
171.0-172.0	400.7	6.5	67991.0	0.01	99.97
172.0-173.0	394.0	5.6	67996.6	0.01	99.97
173.0-174.0	388.0	4.8	68001.5	0.01	99.98
174.0-175.0	381.3	4.0	68005.5	0.01	99.99
175.0-176.0	376.0	3.2	68008.7	0.00	99.99
176.0-177.0	373.0	2.5	68011.2	0.00	100.00
177.0-178.0	370.2	1.8	68013.0	0.00	100.00
178.0-179.0	368.0	1.1	68014.0	0.00	100.00
179.0-180.0	371.0	0.4	68014.4	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: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 61023.07 lm

%lum = 89.7%

%lamp = 89.7%

cone flux(120°): 64645.84 lm

%lum = 95.0%

%lamp = 95.0%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	208708.0	208708.0	208708.0	208708.0	208708.0					
G1.0	209408.9	209519.2	206290.8	207417.9	209408.9					
G2.0	208487.3	211103.2	203023.5	205380.4	208487.3					
G3.0	205369.1	211901.5	198128.3	202084.7	205369.1					
G4.0	200959.5	211480.0	191820.2	196649.4	200959.5					
G5.0	195777.2	208720.8	184822.3	190415.7	195777.2					
G6.0	188464.7	204128.6	177443.5	183121.7	188464.7					
G7.0	181290.2	198022.6	168707.1	174314.0	181290.2					
G8.0	173475.4	189962.2	160837.1	165531.9	173475.4					
G9.0	165219.1	182004.0	152111.8	155082.8	165219.1					
G10.0	157983.9	173579.5	143579.5	144921.1	157983.9					
G11.0	150345.7	163015.4	134545.1	133718.3	150345.7					
G12.0	141272.7	152285.3	124600.1	122004.5	141272.7					
G13.0	131956.8	140181.9	113071.1	108489.6	131956.8					
G14.0	121802.0	126469.0	101878.8	95798.6	121802.0					
G15.0	110554.5	113790.8	90200.8	81357.6	110554.5					
G16.0	98832.4	100735.8	76922.3	68111.0	98832.4					
G17.0	85509.7	87489.1	64543.5	55535.0	85509.7					
G18.0	73147.4	73086.5	51866.6	43521.0	73147.4					
G19.0	60542.3	61238.6	42131.2	35697.0	60542.3					
G20.0	48461.4	50808.6	34211.6	30485.2	48461.4					
G21.0	37854.1	41062.0	27726.9	27623.8	37854.1					
G22.0	30916.8	33857.5	22489.5	25490.5	30916.8					
G23.0	25900.2	28038.9	19034.7	23695.8	25900.2					
G24.0	22202.5	23625.5	16639.5	21996.8	22202.5					
G25.0	20083.3	21281.5	15005.9	20655.6	20083.3					
G26.0	18493.8	19640.0	13935.2	19467.6	18493.8					
G27.0	17169.3	18266.8	13057.7	18400.9	17169.3					
G28.0	16015.8	17072.5	12224.3	17270.4	16015.8					
G29.0	14912.1	15967.5	11540.0	16261.3	14912.1					
G30.0	14023.5	15073.3	10855.7	15239.4	14023.5					
G31.0	13206.7	14211.1	10116.1	14115.3	13206.7					
G32.0	12351.3	13278.6	9437.3	13144.5	12351.3					
G33.0	11578.6	12365.2	8741.9	12192.8	11578.6					
G34.0	10723.2	11381.6	8079.7	11311.4	10723.2					
G35.0	9983.7	10487.5	7384.3	10410.8	9983.7					
G36.0	9277.3	9644.4	6799.3	9631.6	9277.3					

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: 8.607 m [K=1.0699]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	8615.0	8763.0	6225.3	8877.9	8615.0					
G38.0	7914.1	8015.7	5734.1	8207.3	7914.1					
G39.0	7312.5	7351.4	5237.4	7543.0	7312.5					
G40.0	6766.2	6731.9	4851.1	6981.0	6766.2					
G41.0	6236.3	6112.4	4470.3	6425.3	6236.3					
G42.0	5789.3	5626.9	4155.7	5946.3	5789.3					
G43.0	5386.4	5192.6	3874.3	5518.4	5386.4					
G44.0	5016.7	4790.3	3620.4	5116.0	5016.7					
G45.0	4646.9	4451.7	3377.6	4713.6	4646.9					
G46.0	4343.4	4164.3	3173.4	4394.3	4343.4					
G47.0	4056.4	3902.5	2996.8	4106.8	4056.4					
G48.0	3769.4	3647.0	2814.6	3819.4	3769.4					
G49.0	3537.6	3442.6	2665.6	3589.5	3537.6					
G50.0	3322.4	3251.0	2527.7	3385.1	3322.4					
G51.0	3118.2	3084.9	2384.2	3174.3	3118.2					
G52.0	2914.0	2918.9	2268.3	3001.9	2914.0					
G53.0	2748.4	2784.7	2157.9	2816.7	2748.4					
G54.0	2599.4	2663.4	2042.0	2663.4	2599.4					
G55.0	2444.9	2535.6	1948.2	2529.3	2444.9					
G56.0	2317.9	2414.3	1859.9	2401.5	2317.9					
G57.0	2196.5	2312.1	1777.1	2267.4	2196.5					
G58.0	2086.1	2197.1	1688.8	2158.8	2086.1					
G59.0	1975.8	2101.3	1611.5	2056.6	1975.8					
G60.0	1893.0	2005.5	1550.8	1948.0	1893.0					
G61.0	1810.2	1916.1	1490.1	1858.6	1810.2					
G62.0	1721.9	1826.7	1418.4	1775.6	1721.9					
G63.0	1644.6	1743.6	1357.6	1679.8	1644.6					
G64.0	1567.4	1667.0	1291.4	1596.7	1567.4					
G65.0	1490.1	1590.4	1225.2	1520.1	1490.1					
G66.0	1401.8	1520.1	1159.0	1430.7	1401.8					
G67.0	1330.1	1449.8	1092.7	1360.4	1330.1					
G68.0	1258.3	1379.6	1032.0	1283.8	1258.3					
G69.0	1181.0	1309.3	971.3	1207.1	1181.0					
G70.0	1114.8	1245.5	916.1	1130.5	1114.8					
G71.0	1043.1	1188.0	855.4	1053.9	1043.1					
G72.0	971.3	1124.1	789.2	983.6	971.3					
G73.0	905.1	1047.5	734.0	907.0	905.1					

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: 8.607 m [K=1.0699]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	838.9	983.6	678.8	830.3	838.9					
G75.0	772.6	919.7	612.6	760.1	772.6					
G76.0	706.4	855.9	557.4	689.8	706.4					
G77.0	640.2	792.0	502.2	619.5	640.2					
G78.0	579.5	734.5	447.0	555.7	579.5					
G79.0	518.8	670.6	391.8	485.4	518.8					
G80.0	469.1	606.8	336.7	421.5	469.1					
G81.0	413.9	549.3	292.5	357.7	413.9					
G82.0	353.2	485.4	248.3	300.2	353.2					
G83.0	292.5	434.3	198.7	255.5	292.5					
G84.0	237.3	376.8	154.5	204.4	237.3					
G85.0	187.6	319.3	115.9	172.4	187.6					
G86.0	143.5	268.3	82.8	140.5	143.5					
G87.0	110.4	223.5	60.7	127.7	110.4					
G88.0	82.8	185.2	0.0	115.0	82.8					
G89.0	55.2	166.1	0.0	108.6	55.2					
G90.0	0.0	140.5	0.0	108.6	0.0					
G91.0	0.0	127.7	0.0	108.6	0.0					
G92.0	0.0	121.4	0.0	102.2	0.0					
G93.0	0.0	121.4	0.0	83.0	0.0					
G94.0	0.0	115.0	0.0	76.6	0.0					
G95.0	0.0	115.0	0.0	63.9	0.0					
G96.0	0.0	102.2	0.0	70.3	0.0					
G97.0	0.0	89.4	0.0	76.6	0.0					
G98.0	0.0	76.6	0.0	76.6	0.0					
G99.0	0.0	76.6	0.0	76.6	0.0					
G100.0	0.0	76.6	0.0	70.3	0.0					
G101.0	0.0	83.0	0.0	70.3	0.0					
G102.0	0.0	83.0	0.0	63.9	0.0					
G103.0	0.0	76.6	0.0	63.9	0.0					
G104.0	0.0	76.6	0.0	0.0	0.0					
G105.0	0.0	70.3	0.0	0.0	0.0					
G106.0	0.0	0.0	0.0	0.0	0.0					
G107.0	0.0	63.9	0.0	0.0	0.0					
G108.0	0.0	0.0	0.0	0.0	0.0					
G109.0	0.0	0.0	0.0	0.0	0.0					
G110.0	0.0	63.9	0.0	0.0	0.0					

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: 8.607 m [K=1.0699]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	0.0	0.0	0.0	63.9	0.0					
G112.0	0.0	63.9	0.0	63.9	0.0					
G113.0	0.0	63.9	0.0	63.9	0.0					
G114.0	0.0	70.3	0.0	63.9	0.0					
G115.0	0.0	70.3	0.0	70.3	0.0					
G116.0	0.0	70.3	0.0	70.3	0.0					
G117.0	0.0	70.3	0.0	70.3	0.0					
G118.0	0.0	76.6	0.0	70.3	0.0					
G119.0	0.0	70.3	0.0	76.6	0.0					
G120.0	0.0	76.6	0.0	76.6	0.0					
G121.0	0.0	76.6	0.0	83.0	0.0					
G122.0	0.0	83.0	0.0	89.4	0.0					
G123.0	55.2	83.0	0.0	95.8	55.2					
G124.0	55.2	83.0	55.2	102.2	55.2					
G125.0	55.2	89.4	66.2	102.2	55.2					
G126.0	66.2	89.4	71.7	115.0	66.2					
G127.0	66.2	102.2	82.8	121.4	66.2					
G128.0	71.7	108.6	88.3	127.7	71.7					
G129.0	77.3	115.0	99.3	140.5	77.3					
G130.0	88.3	121.4	110.4	159.7	88.3					
G131.0	93.8	127.7	121.4	166.1	93.8					
G132.0	99.3	134.1	132.5	178.8	99.3					
G133.0	110.4	134.1	143.5	191.6	110.4					
G134.0	121.4	153.3	154.5	210.8	121.4					
G135.0	132.5	166.1	165.6	223.5	132.5					
G136.0	149.0	178.8	182.1	236.3	149.0					
G137.0	160.1	191.6	193.2	255.5	160.1					
G138.0	176.6	210.8	204.2	261.9	176.6					
G139.0	187.6	223.5	220.8	281.0	187.6					
G140.0	198.7	242.7	231.8	300.2	198.7					
G141.0	220.8	255.5	248.3	306.6	220.8					
G142.0	231.8	281.0	259.4	325.7	231.8					
G143.0	248.3	300.2	270.4	344.9	248.3					
G144.0	259.4	313.0	287.0	357.7	259.4					
G145.0	275.9	338.5	298.0	370.4	275.9					
G146.0	292.5	351.3	314.6	389.6	292.5					
G147.0	309.1	376.8	325.6	402.4	309.1					

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: 8.607 m [K=1.0699]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	320.1	389.6	331.1	415.2	320.1					
G149.0	342.2	408.8	342.2	427.9	342.2					
G150.0	358.7	427.9	353.2	440.7	358.7					
G151.0	375.3	447.1	358.7	447.1	375.3					
G152.0	386.3	459.9	364.3	453.5	386.3					
G153.0	397.4	472.6	369.8	466.3	397.4					
G154.0	402.9	485.4	375.3	466.3	402.9					
G155.0	413.9	504.6	375.3	472.6	413.9					
G156.0	425.0	511.0	380.8	472.6	425.0					
G157.0	436.0	523.7	375.3	466.3	436.0					
G158.0	441.5	530.1	386.3	479.0	441.5					
G159.0	441.5	536.5	375.3	472.6	441.5					
G160.0	447.0	542.9	369.8	472.6	447.0					
G161.0	447.0	549.3	369.8	466.3	447.0					
G162.0	447.0	542.9	364.3	466.3	447.0					
G163.0	447.0	542.9	364.3	466.3	447.0					
G164.0	441.5	536.5	358.7	459.9	441.5					
G165.0	441.5	536.5	358.7	453.5	441.5					
G166.0	436.0	530.1	353.2	447.1	436.0					
G167.0	425.0	517.3	342.2	440.7	425.0					
G168.0	425.0	511.0	336.7	440.7	425.0					
G169.0	413.9	498.2	331.1	434.3	413.9					
G170.0	408.4	491.8	325.6	421.5	408.4					
G171.0	397.4	479.0	320.1	421.5	397.4					
G172.0	391.8	472.6	314.6	408.8	391.8					
G173.0	380.8	459.9	314.6	408.8	380.8					
G174.0	375.3	447.1	309.1	408.8	375.3					
G175.0	369.8	440.7	303.5	396.0	369.8					
G176.0	364.3	434.3	303.5	396.0	364.3					
G177.0	358.7	427.9	303.5	396.0	358.7					
G178.0	347.7	421.5	303.5	402.4	347.7					
G179.0	342.2	421.5	309.1	396.0	342.2					
G180.0	347.7	427.9	314.6	408.8	347.7					

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: 8.607 m [K=1.0699]
 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