

Report No.: TH-4464A

Test Time: 2023/8/29 17:57

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.000A
Power Factor: 0.000

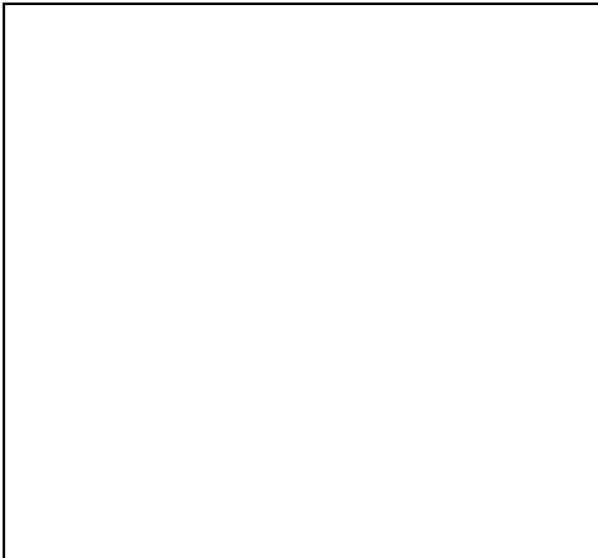
Luminaire Description: AN-SLV-80W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 0.000 V
Power: 0.000 W

Photometric Results

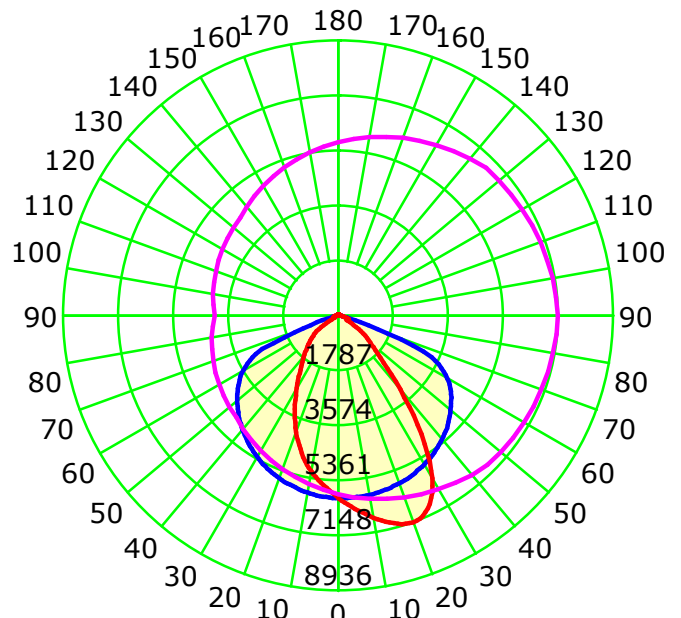
CIE Class: Direct
Measurement Flux: 13737.1 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H132.1
Vertical Diffuse Angle(50%): V66.5
Luminaire Efficacy Rating (LER): 13737.16
Max. Intensity: 7148.81 cd
S/MH(C0/C180): 1.37

Total Rated Lamp Lumens: 13737.1 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 5931.72 cd
Pos of Max. Intensity: H90 V20
S/MH(C90/C270): 1.13

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

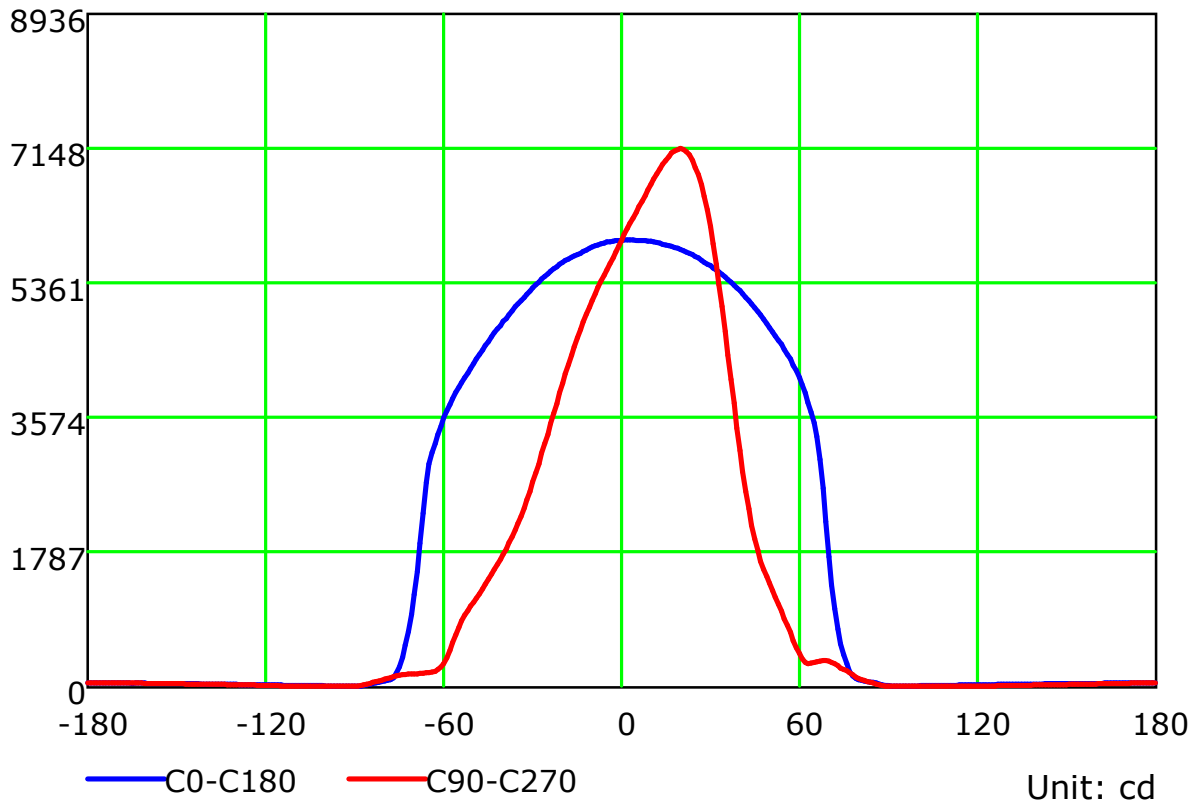
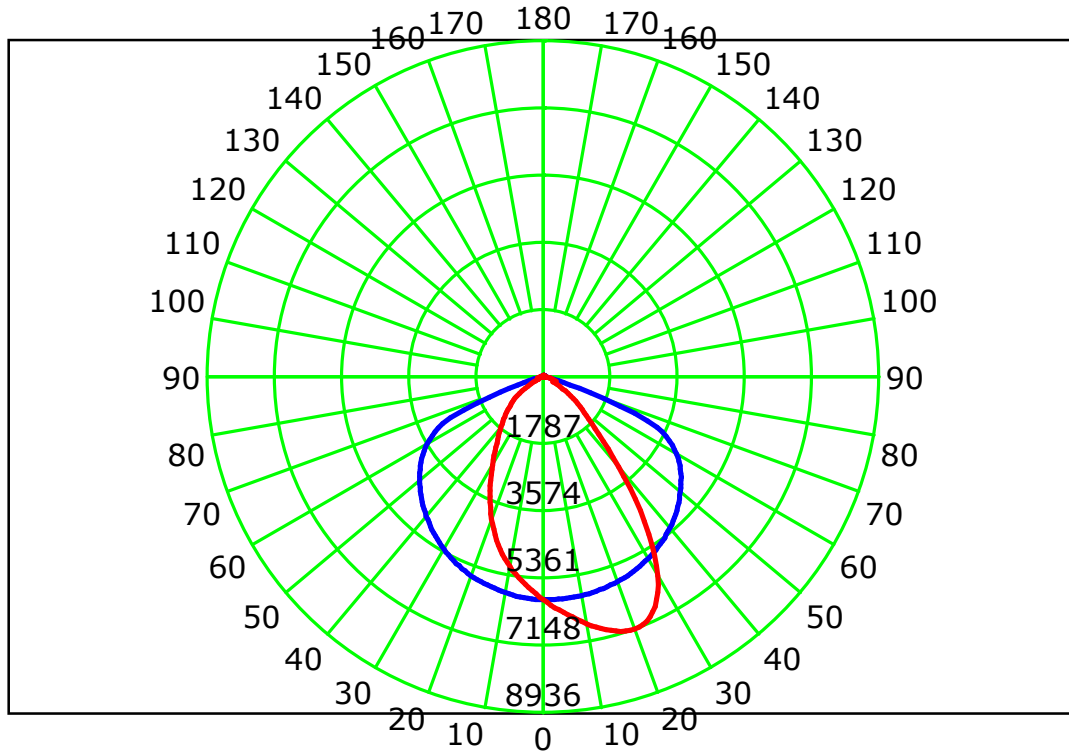
Average Diffuse Angle(50%): 97.0°

— C0-C180 — C90-C270 — G20

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Luminous Intensity Distribution Curve



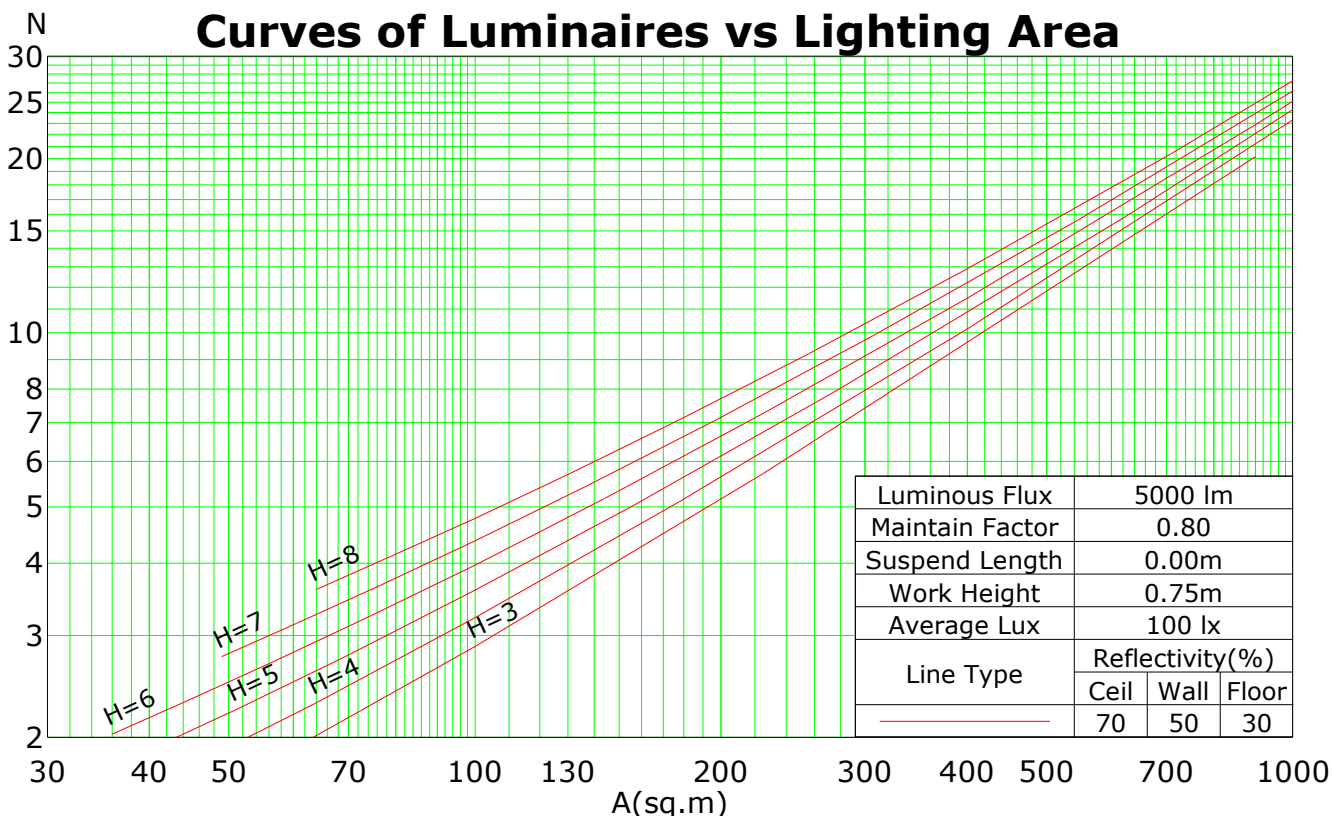
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Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.11	1.07	1.03	1.00	1.08	1.04	1.01	0.98	1.00	0.98	0.95	0.96	0.94	0.92	0.92	0.91	0.89	0.87
2	1.02	0.95	0.89	0.84	0.99	0.93	0.88	0.83	0.90	0.85	0.81	0.86	0.83	0.79	0.83	0.80	0.77	0.75
3	0.94	0.85	0.78	0.72	0.92	0.83	0.77	0.71	0.80	0.74	0.70	0.77	0.73	0.69	0.75	0.71	0.67	0.65
4	0.87	0.76	0.68	0.62	0.84	0.75	0.67	0.62	0.72	0.66	0.61	0.70	0.64	0.60	0.68	0.63	0.59	0.57
5	0.80	0.68	0.60	0.54	0.78	0.67	0.60	0.54	0.65	0.58	0.53	0.63	0.57	0.53	0.61	0.56	0.52	0.50
6	0.74	0.62	0.54	0.48	0.72	0.61	0.53	0.48	0.59	0.52	0.47	0.58	0.51	0.47	0.56	0.51	0.46	0.44
7	0.69	0.56	0.48	0.43	0.67	0.56	0.48	0.42	0.54	0.47	0.42	0.53	0.46	0.42	0.51	0.46	0.41	0.40
8	0.64	0.52	0.44	0.38	0.63	0.51	0.43	0.38	0.50	0.43	0.38	0.48	0.42	0.38	0.47	0.42	0.37	0.36
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.32
10	0.57	0.44	0.37	0.32	0.55	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.31	0.29

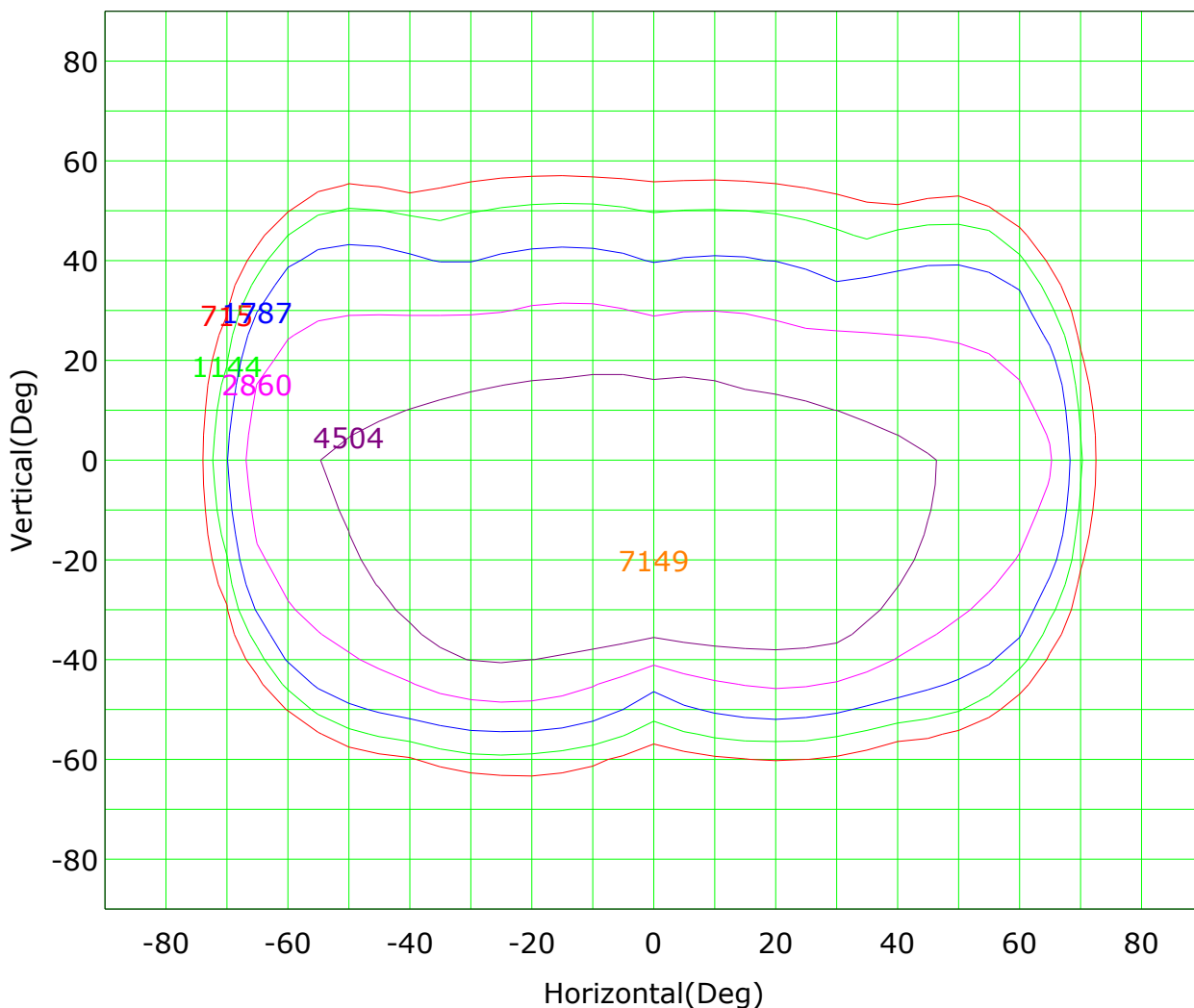
Spacing Criteria (0-180): 1.37
 Spacing Criteria (90-270): 1.13
 Spacing Criteria (Diagonal): 1.33



C Plane (°):0.0-360.0: 45.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

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 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.0000]
 Humidity: 65
 Inspector:

Isocandela (rectangle)



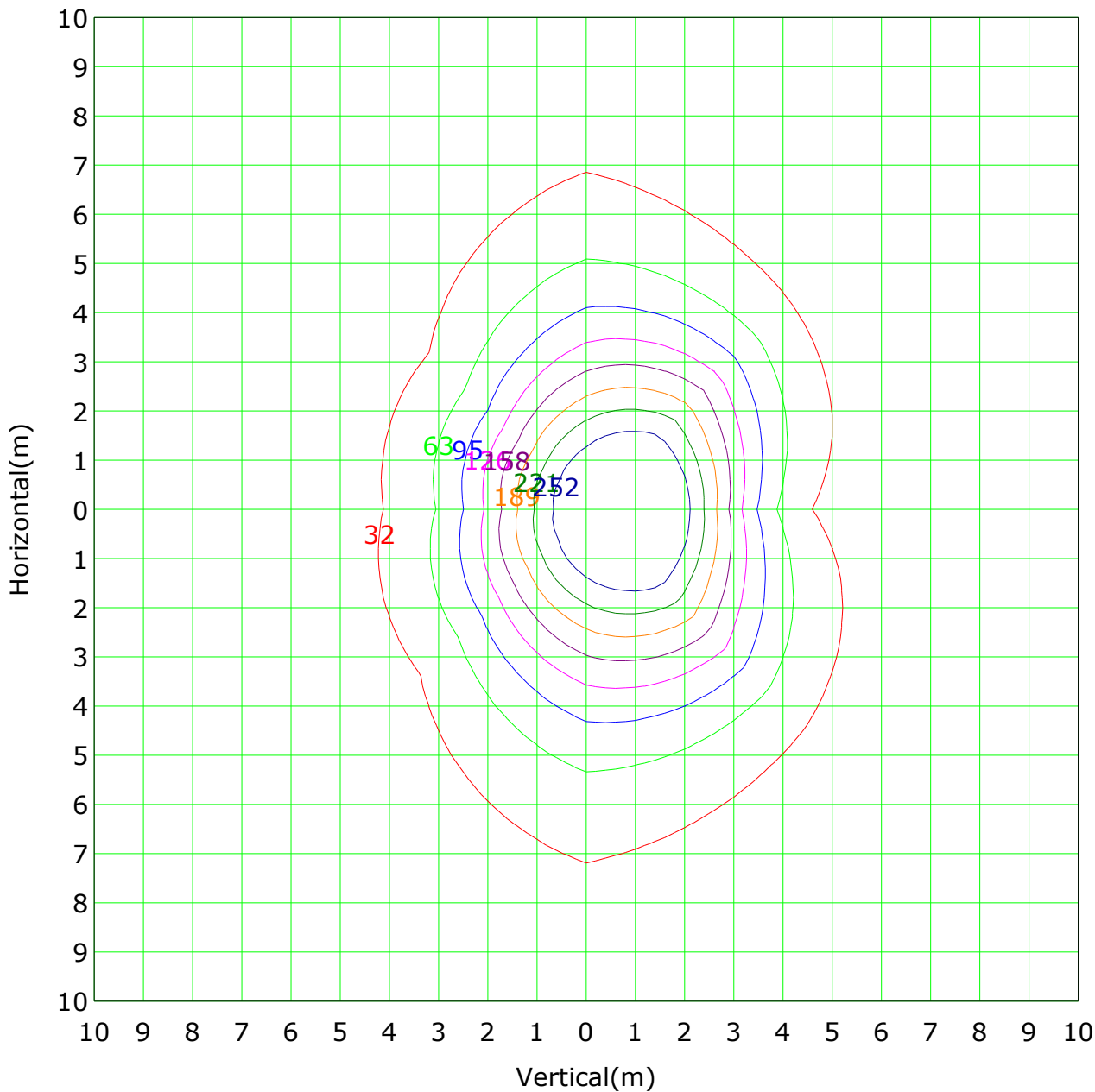
Imax (100%): 7149 cd

— (10%): 715 cd	— (16%): 1144 cd
— (25%): 1787 cd	— (40%): 2860 cd
— (63%): 4504 cd	— (100%): 7149 cd

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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: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 4.5m		Max Lux(100%): 315.1 lx	
<ul style="list-style-type: none"> — (10%): 31.5 lx — (30%): 94.5 lx — (50%): 157.5 lx — (70%): 220.6 lx 	<ul style="list-style-type: none"> — (20%): 63.0 lx — (40%): 126.0 lx — (60%): 189.1 lx — (80%): 252.1 lx 		

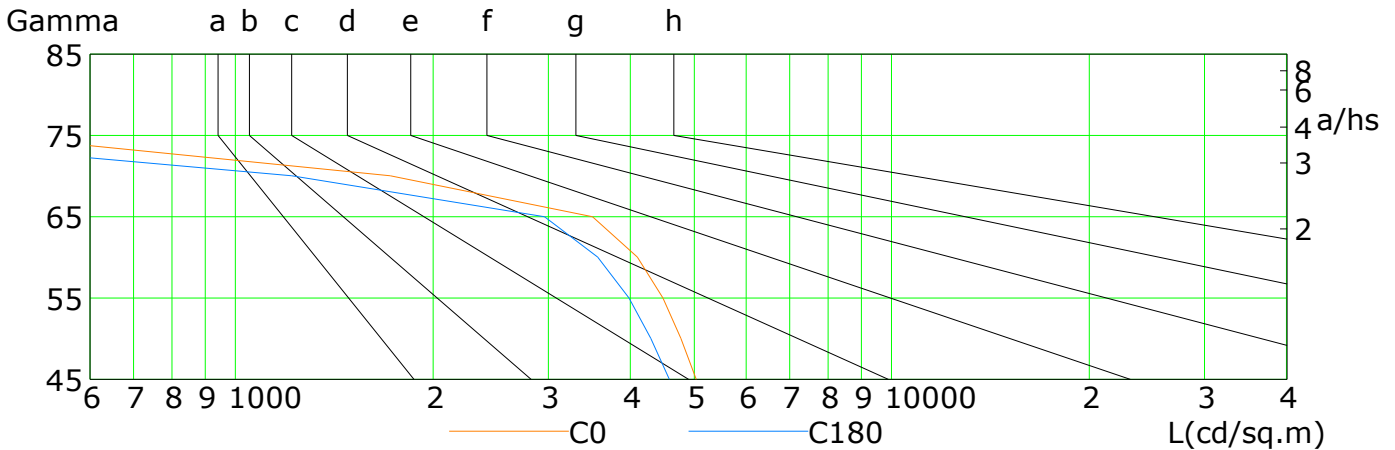
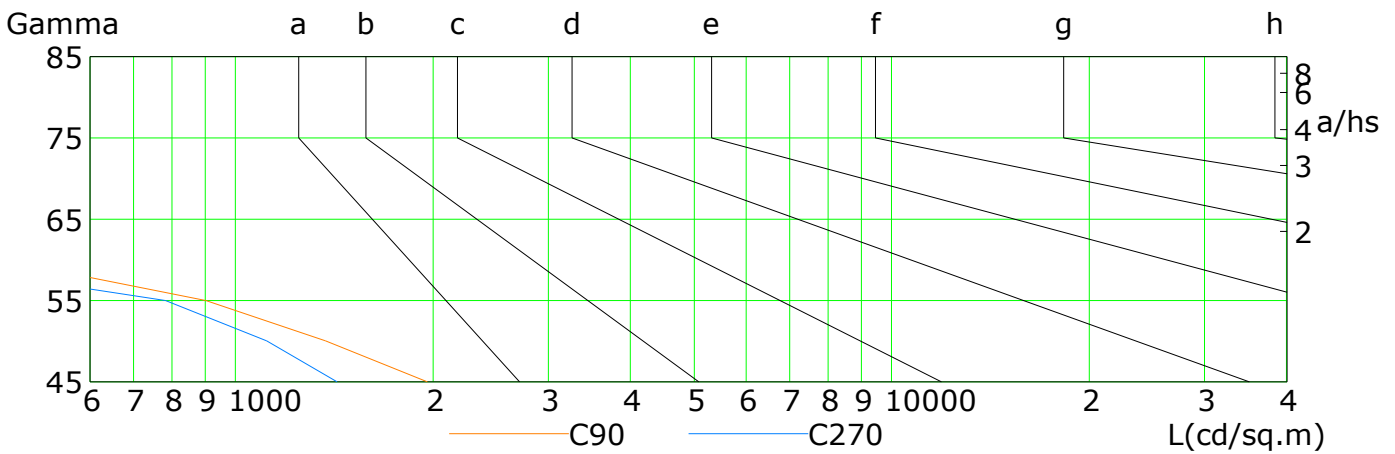
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 Test Lab: inventfine instruments
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 Temperature: 26
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 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.0000]
 Humidity: 65
 Inspector:

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

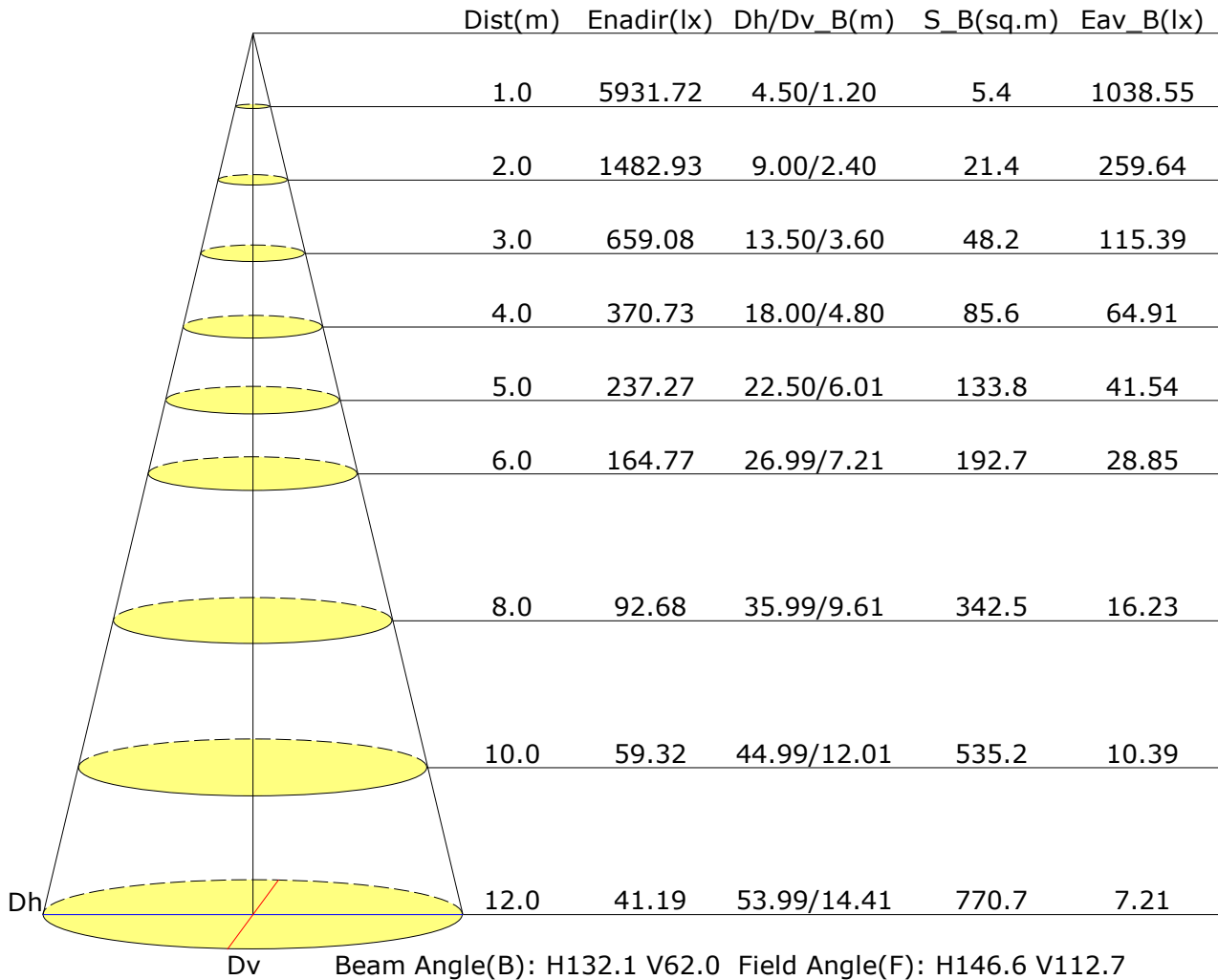


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5037	4770	4483	4102	3501	1722	424	88	51
C90	1961	1372	902	437	322	335	226	108	44
C180	4586	4297	3978	3569	2961	1218	257	69	28
C270	1428	1117	783	306	182	167	151	96	42

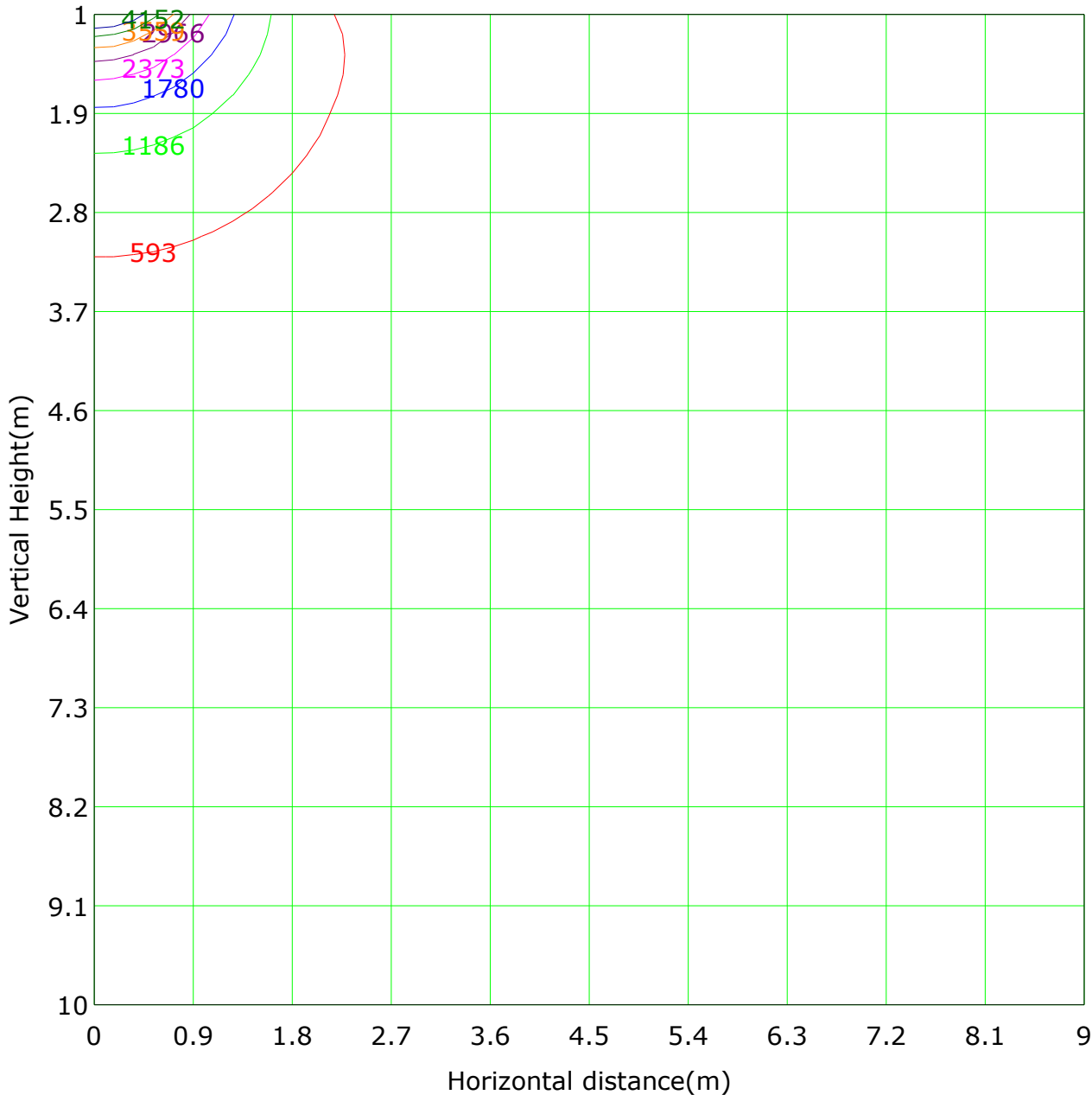
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Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

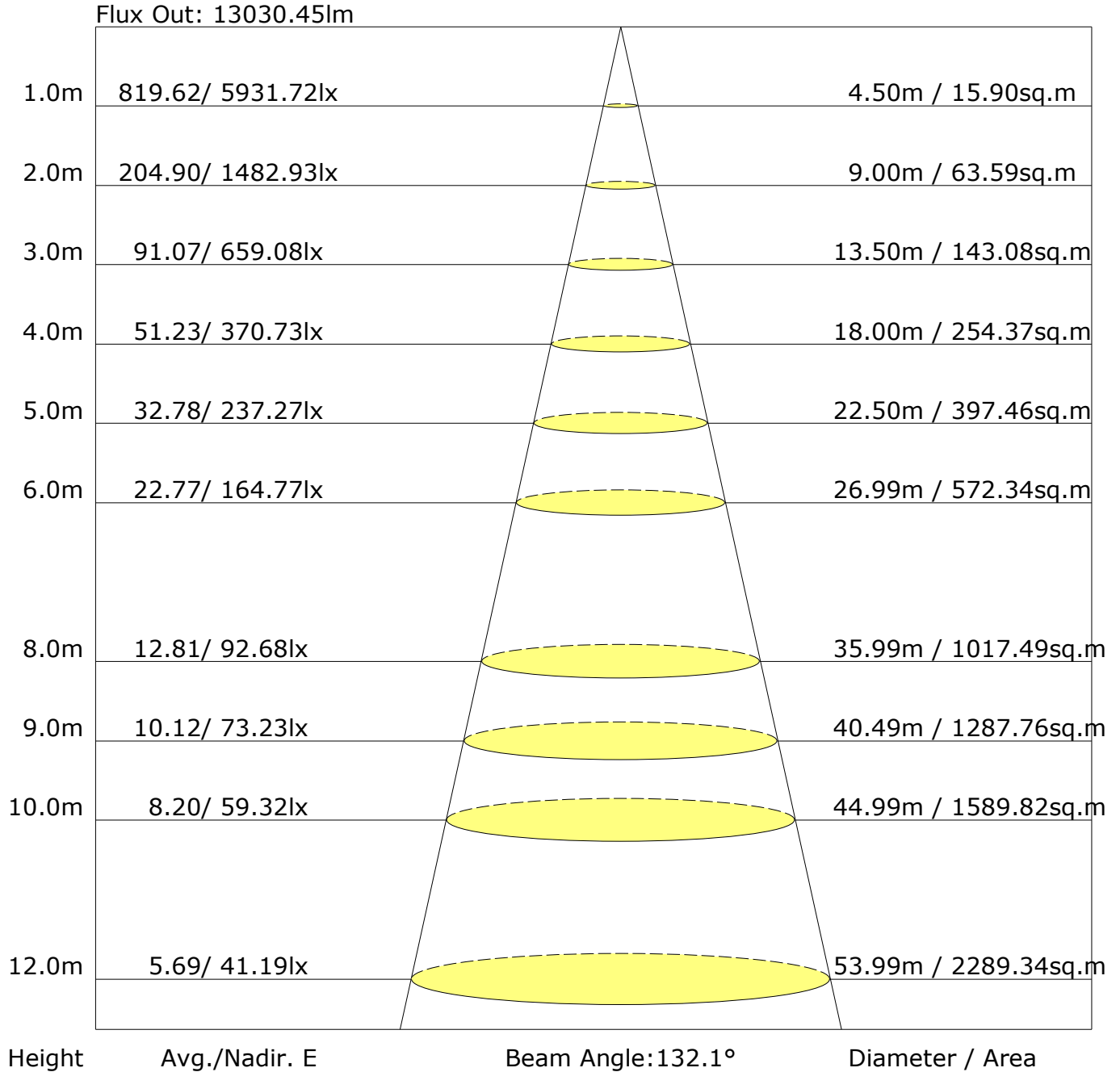


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 5931.7 lx
— (10%): 593.2 lx	— (20%): 1186.3 lx	
— (30%): 1779.5 lx	— (40%): 2372.7 lx	
— (50%): 2965.9 lx	— (60%): 3559.0 lx	
— (70%): 4152.2 lx	— (80%): 4745.4 lx	

C Plane (°): 0.0-360.0: 45.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.0000]
 Humidity: 65
 Inspector:

The Average Illuminance Effective Figure



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 13737lm ($8\log(F/F_0) = 9.1$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	5932.0	5.7	5.7	0.04	0.04
1.0-2.0	5931.5	17.0	22.7	0.12	0.17
2.0-3.0	5929.7	28.4	51.1	0.21	0.37
3.0-4.0	5926.5	39.7	90.7	0.29	0.66
4.0-5.0	5922.0	51.0	141.7	0.37	1.03
5.0-6.0	5917.5	62.2	203.9	0.45	1.48
6.0-7.0	5912.6	73.4	277.3	0.53	2.02
7.0-8.0	5907.6	84.6	361.9	0.62	2.63
8.0-9.0	5902.4	95.7	457.5	0.70	3.33
9.0-10.0	5895.0	106.7	564.2	0.78	4.11
10.0-11.0	5886.1	117.6	681.8	0.86	4.96
11.0-12.0	5875.6	128.5	810.3	0.94	5.90
12.0-13.0	5862.1	139.1	949.4	1.01	6.91
13.0-14.0	5846.9	149.7	1099.1	1.09	8.00
14.0-15.0	5830.4	160.1	1259.2	1.17	9.17
15.0-16.0	5812.0	170.3	1429.5	1.24	10.41
16.0-17.0	5790.6	180.3	1609.9	1.31	11.72
17.0-18.0	5763.7	190.1	1799.9	1.38	13.10
18.0-19.0	5734.5	199.5	1999.5	1.45	14.56
19.0-20.0	5704.0	208.8	2208.3	1.52	16.08
20.0-21.0	5667.9	217.7	2425.9	1.58	17.66
21.0-22.0	5626.5	226.1	2652.1	1.65	19.31
22.0-23.0	5583.0	234.3	2886.4	1.71	21.01
23.0-24.0	5534.0	242.0	3128.4	1.76	22.77
24.0-25.0	5477.7	249.1	3377.5	1.81	24.59
25.0-26.0	5418.6	255.8	3633.3	1.86	26.45
26.0-27.0	5354.5	262.0	3895.3	1.91	28.36
27.0-28.0	5283.8	267.5	4162.8	1.95	30.30
28.0-29.0	5209.4	272.6	4435.4	1.98	32.29
29.0-30.0	5129.2	277.0	4712.4	2.02	34.30
30.0-31.0	5042.2	280.6	4993.0	2.04	36.35
31.0-32.0	4950.9	283.7	5276.7	2.07	38.41
32.0-33.0	4855.8	286.1	5562.8	2.08	40.49
33.0-34.0	4756.0	287.9	5850.6	2.10	42.59
34.0-35.0	4650.5	288.9	6139.5	2.10	44.69
35.0-36.0	4543.2	289.3	6428.8	2.11	46.80

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Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
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	4433.7	289.2	6718.0	2.11	48.90
37.0-38.0	4319.1	288.3	7006.4	2.10	51.00
38.0-39.0	4200.0	286.7	7293.1	2.09	53.09
39.0-40.0	4081.6	284.7	7577.8	2.07	55.16
40.0-41.0	3962.5	282.2	7860.0	2.05	57.22
41.0-42.0	3840.5	279.1	8139.0	2.03	59.25
42.0-43.0	3719.8	275.6	8414.6	2.01	61.25
43.0-44.0	3600.5	271.8	8686.4	1.98	63.23
44.0-45.0	3479.5	267.4	8953.9	1.95	65.18
45.0-46.0	3356.1	262.5	9216.4	1.91	67.09
46.0-47.0	3235.0	257.3	9473.7	1.87	68.96
47.0-48.0	3114.8	251.8	9725.5	1.83	70.80
48.0-49.0	2996.1	246.1	9971.6	1.79	72.59
49.0-50.0	2881.8	240.3	10211.9	1.75	74.34
50.0-51.0	2764.6	233.9	10445.8	1.70	76.04
51.0-52.0	2646.5	227.1	10673.0	1.65	77.69
52.0-53.0	2532.5	220.3	10893.3	1.60	79.30
53.0-54.0	2418.3	213.2	11106.5	1.55	80.85
54.0-55.0	2302.7	205.6	11312.0	1.50	82.35
55.0-56.0	2189.9	197.9	11509.9	1.44	83.79
56.0-57.0	2079.1	190.1	11700.1	1.38	85.17
57.0-58.0	1966.1	181.8	11881.9	1.32	86.49
58.0-59.0	1855.6	173.5	12055.4	1.26	87.76
59.0-60.0	1747.9	165.2	12220.6	1.20	88.96
60.0-61.0	1639.5	156.5	12377.0	1.14	90.10
61.0-62.0	1532.6	147.7	12524.7	1.08	91.17
62.0-63.0	1427.6	138.9	12663.6	1.01	92.19
63.0-64.0	1325.0	130.0	12793.6	0.95	93.13
64.0-65.0	1224.0	121.2	12914.8	0.88	94.01
65.0-66.0	1119.1	111.7	13026.5	0.81	94.83
66.0-67.0	998.5	100.4	13126.9	0.73	95.56
67.0-68.0	863.7	87.5	13214.4	0.64	96.19
68.0-69.0	730.7	74.6	13288.9	0.54	96.74
69.0-70.0	605.7	62.2	13351.1	0.45	97.19
70.0-71.0	495.9	51.3	13402.4	0.37	97.56
71.0-72.0	405.0	42.1	13444.5	0.31	97.87

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Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.684 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	328.7	34.4	13478.9	0.25	98.12
73.0-74.0	266.5	28.0	13506.9	0.20	98.32
74.0-75.0	216.5	22.9	13529.8	0.17	98.49
75.0-76.0	176.7	18.8	13548.6	0.14	98.63
76.0-77.0	144.5	15.4	13564.0	0.11	98.74
77.0-78.0	118.6	12.7	13576.7	0.09	98.83
78.0-79.0	98.5	10.6	13587.3	0.08	98.91
79.0-80.0	82.6	8.9	13596.2	0.06	98.97
80.0-81.0	70.8	7.7	13603.8	0.06	99.03
81.0-82.0	61.8	6.7	13610.5	0.05	99.08
82.0-83.0	53.9	5.9	13616.4	0.04	99.12
83.0-84.0	45.7	5.0	13621.4	0.04	99.16
84.0-85.0	37.7	4.1	13625.5	0.03	99.19
85.0-86.0	30.2	3.3	13628.8	0.02	99.21
86.0-87.0	22.9	2.5	13631.3	0.02	99.23
87.0-88.0	14.4	1.6	13632.9	0.01	99.24
88.0-89.0	5.8	0.6	13633.5	0.00	99.25
89.0-90.0	1.6	0.2	13633.7	0.00	99.25
90.0-91.0	0.6	0.1	13633.7	0.00	99.25
91.0-92.0	0.0	0.0	13633.7	0.00	99.25
92.0-93.0	0.0	0.0	13633.7	0.00	99.25
93.0-94.0	0.0	0.0	13633.7	0.00	99.25
94.0-95.0	0.0	0.0	13633.7	0.00	99.25
95.0-96.0	0.0	0.0	13633.7	0.00	99.25
96.0-97.0	0.0	0.0	13633.7	0.00	99.25
97.0-98.0	0.5	0.1	13633.8	0.00	99.25
98.0-99.0	1.0	0.1	13633.9	0.00	99.25
99.0-100.0	1.5	0.2	13634.1	0.00	99.25
100.0-101.0	2.1	0.2	13634.3	0.00	99.25
101.0-102.0	2.3	0.2	13634.5	0.00	99.25
102.0-103.0	3.0	0.3	13634.8	0.00	99.26
103.0-104.0	3.7	0.4	13635.2	0.00	99.26
104.0-105.0	3.9	0.4	13635.7	0.00	99.26
105.0-106.0	4.2	0.4	13636.1	0.00	99.26
106.0-107.0	4.9	0.5	13636.6	0.00	99.27
107.0-108.0	5.7	0.6	13637.2	0.00	99.27

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 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	6.0	0.6	13637.8	0.00	99.28
109.0-110.0	6.4	0.7	13638.5	0.00	99.28
110.0-111.0	6.8	0.7	13639.2	0.01	99.29
111.0-112.0	7.6	0.8	13640.0	0.01	99.29
112.0-113.0	8.4	0.9	13640.8	0.01	99.30
113.0-114.0	8.9	0.9	13641.7	0.01	99.31
114.0-115.0	9.3	0.9	13642.6	0.01	99.31
115.0-116.0	10.8	1.1	13643.7	0.01	99.32
116.0-117.0	12.3	1.2	13644.9	0.01	99.33
117.0-118.0	12.9	1.3	13646.2	0.01	99.34
118.0-119.0	13.5	1.3	13647.5	0.01	99.35
119.0-120.0	14.0	1.3	13648.8	0.01	99.36
120.0-121.0	14.7	1.4	13650.2	0.01	99.37
121.0-122.0	15.4	1.4	13651.6	0.01	99.38
122.0-123.0	16.0	1.5	13653.1	0.01	99.39
123.0-124.0	16.5	1.5	13654.6	0.01	99.40
124.0-125.0	17.6	1.6	13656.2	0.01	99.41
125.0-126.0	18.7	1.7	13657.9	0.01	99.42
126.0-127.0	19.4	1.7	13659.6	0.01	99.44
127.0-128.0	20.0	1.7	13661.3	0.01	99.45
128.0-129.0	20.5	1.8	13663.1	0.01	99.46
129.0-130.0	21.2	1.8	13664.9	0.01	99.47
130.0-131.0	21.8	1.8	13666.7	0.01	99.49
131.0-132.0	22.4	1.8	13668.5	0.01	99.50
132.0-133.0	23.1	1.9	13670.4	0.01	99.51
133.0-134.0	23.7	1.9	13672.3	0.01	99.53
134.0-135.0	24.4	1.9	13674.2	0.01	99.54
135.0-136.0	25.1	1.9	13676.1	0.01	99.56
136.0-137.0	25.7	1.9	13678.1	0.01	99.57
137.0-138.0	26.3	1.9	13680.0	0.01	99.58
138.0-139.0	26.9	2.0	13682.0	0.01	99.60
139.0-140.0	27.5	2.0	13683.9	0.01	99.61
140.0-141.0	28.1	2.0	13685.9	0.01	99.63
141.0-142.0	28.7	2.0	13687.9	0.01	99.64
142.0-143.0	29.4	2.0	13689.8	0.01	99.66
143.0-144.0	30.0	2.0	13691.8	0.01	99.67

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 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	30.7	2.0	13693.7	0.01	99.68
145.0-146.0	31.3	1.9	13695.7	0.01	99.70
146.0-147.0	32.0	1.9	13697.6	0.01	99.71
147.0-148.0	32.6	1.9	13699.6	0.01	99.73
148.0-149.0	33.4	1.9	13701.5	0.01	99.74
149.0-150.0	34.0	1.9	13703.4	0.01	99.75
150.0-151.0	34.6	1.9	13705.2	0.01	99.77
151.0-152.0	35.4	1.9	13707.1	0.01	99.78
152.0-153.0	36.0	1.8	13708.9	0.01	99.79
153.0-154.0	36.5	1.8	13710.7	0.01	99.81
154.0-155.0	37.1	1.8	13712.4	0.01	99.82
155.0-156.0	37.8	1.7	13714.1	0.01	99.83
156.0-157.0	38.4	1.7	13715.8	0.01	99.85
157.0-158.0	38.9	1.6	13717.5	0.01	99.86
158.0-159.0	39.6	1.6	13719.0	0.01	99.87
159.0-160.0	40.3	1.5	13720.6	0.01	99.88
160.0-161.0	40.8	1.5	13722.1	0.01	99.89
161.0-162.0	41.4	1.4	13723.5	0.01	99.90
162.0-163.0	41.9	1.4	13724.9	0.01	99.91
163.0-164.0	42.4	1.3	13726.2	0.01	99.92
164.0-165.0	42.9	1.3	13727.5	0.01	99.93
165.0-166.0	43.4	1.2	13728.7	0.01	99.94
166.0-167.0	43.9	1.1	13729.8	0.01	99.95
167.0-168.0	44.3	1.1	13730.9	0.01	99.95
168.0-169.0	44.6	1.0	13731.8	0.01	99.96
169.0-170.0	44.9	0.9	13732.7	0.01	99.97
170.0-171.0	45.2	0.8	13733.6	0.01	99.97
171.0-172.0	45.5	0.7	13734.3	0.01	99.98
172.0-173.0	45.7	0.7	13734.9	0.00	99.98
173.0-174.0	45.9	0.6	13735.5	0.00	99.99
174.0-175.0	46.2	0.5	13736.0	0.00	99.99
175.0-176.0	46.4	0.4	13736.4	0.00	99.99
176.0-177.0	46.5	0.3	13736.7	0.00	100.00
177.0-178.0	46.6	0.2	13736.9	0.00	100.00
178.0-179.0	46.7	0.1	13737.1	0.00	100.00
179.0-180.0	46.9	0.0	13737.1	0.00	100.00

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 8953.85 lm

%lum = 65.2%

%lamp = 65.2%

cone flux(120°): 12220.56 lm

%lum = 89.0%

%lamp = 89.0%

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	
G1.0	5937.9	5989.8	6008.5	5980.5	5931.2	5874.6	5858.0	5877.6	5937.9	
G2.0	5937.0	6038.0	6089.8	6032.1	5928.3	5818.2	5774.8	5828.3	5937.0	
G3.0	5936.4	6097.8	6156.8	6090.0	5922.7	5759.5	5696.9	5768.7	5936.4	
G4.0	5937.0	6147.5	6223.3	6137.8	5911.2	5696.0	5621.9	5720.1	5937.0	
G5.0	5930.8	6192.7	6301.2	6179.6	5911.2	5636.9	5540.2	5665.2	5930.8	
G6.0	5929.3	6248.7	6379.1	6228.7	5897.7	5569.0	5467.3	5602.9	5929.3	
G7.0	5925.7	6293.9	6447.4	6279.2	5886.9	5506.1	5391.6	5548.6	5925.7	
G8.0	5928.7	6343.1	6526.5	6326.6	5868.8	5449.6	5306.9	5492.4	5928.7	
G9.0	5921.6	6401.4	6598.8	6375.6	5857.0	5384.8	5223.1	5433.8	5921.6	
G10.0	5915.0	6446.3	6678.2	6418.8	5840.4	5319.3	5131.5	5374.3	5915.0	
G11.0	5908.6	6494.6	6745.5	6464.9	5825.4	5254.2	5043.3	5316.4	5908.6	
G12.0	5904.8	6542.2	6809.5	6505.5	5802.4	5185.1	4951.4	5255.7	5904.8	
G13.0	5892.8	6587.0	6881.4	6547.2	5780.5	5108.6	4844.9	5195.1	5892.8	
G14.0	5879.8	6633.5	6938.6	6591.0	5760.8	5033.1	4741.5	5134.7	5879.8	
G15.0	5864.1	6680.6	6991.3	6636.0	5742.1	4953.0	4637.1	5068.6	5864.1	
G16.0	5861.7	6721.8	7041.8	6674.5	5726.1	4870.0	4517.7	5006.1	5861.7	
G17.0	5848.7	6760.3	7089.4	6703.8	5702.6	4787.1	4405.4	4932.2	5848.7	
G18.0	5830.8	6800.9	7114.9	6734.1	5683.4	4687.4	4275.5	4862.1	5830.8	
G19.0	5822.5	6838.7	7137.0	6762.7	5660.3	4597.2	4156.3	4787.6	5822.5	
G20.0	5810.5	6876.9	7148.8	6790.9	5639.2	4503.3	4031.5	4700.0	5810.5	
G21.0	5792.8	6906.9	7139.5	6815.3	5608.5	4398.1	3904.1	4620.0	5792.8	
G22.0	5773.4	6944.3	7109.4	6837.9	5579.7	4297.1	3758.7	4538.2	5773.4	
G23.0	5760.6	6973.3	7069.0	6860.4	5549.7	4194.0	3628.6	4453.3	5760.6	
G24.0	5737.6	6994.6	6993.8	6870.7	5514.9	4089.1	3495.1	4359.0	5737.6	
G25.0	5715.2	7011.6	6902.0	6871.8	5488.0	3975.2	3352.4	4271.5	5715.2	
G26.0	5696.4	7023.8	6801.1	6868.0	5448.8	3864.3	3228.5	4179.1	5696.4	
G27.0	5663.5	7032.9	6664.5	6856.0	5417.8	3755.7	3099.4	4072.8	5663.5	
G28.0	5638.0	7032.3	6513.5	6845.4	5377.7	3636.1	2960.3	3974.6	5638.0	
G29.0	5615.4	7026.6	6338.3	6822.9	5343.8	3524.5	2837.7	3863.7	5615.4	
G30.0	5594.4	7012.0	6113.4	6792.2	5301.4	3405.7	2715.8	3758.9	5594.4	
G31.0	5562.2	6986.6	5882.0	6751.6	5256.4	3296.9	2589.9	3655.3	5562.2	
G32.0	5536.8	6957.0	5608.8	6703.4	5216.3	3175.8	2481.0	3553.6	5536.8	
G33.0	5507.6	6921.9	5339.3	6644.0	5173.8	3064.2	2373.6	3435.8	5507.6	
G34.0	5472.9	6867.0	5052.5	6564.6	5129.5	2958.8	2262.2	3328.2	5472.9	
G35.0	5441.1	6814.8	4716.2	6480.7	5086.4	2845.9	2164.7	3222.9	5441.1	
G36.0	5408.7	6753.7	4403.3	6383.8	5048.0	2729.0	2077.1	3115.2	5408.7	

C Plane (°):0.0-360.0: 45.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.0000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	5373.7	6680.2	4084.7	6283.8	4993.4	2621.1	1989.7	2993.7	5373.7	
G38.0	5332.9	6580.9	3767.6	6151.9	4941.3	2515.4	1909.5	2886.2	5332.9	
G39.0	5293.9	6479.6	3431.1	6013.5	4891.4	2402.4	1827.2	2774.6	5293.9	
G40.0	5259.8	6366.2	3138.4	5865.6	4854.3	2298.2	1754.1	2654.6	5259.8	
G41.0	5219.9	6223.1	2853.7	5694.6	4799.5	2188.5	1685.6	2544.3	5219.9	
G42.0	5170.6	6089.3	2595.5	5489.6	4751.3	2090.8	1617.8	2434.8	5170.6	
G43.0	5130.9	5931.2	2362.4	5285.6	4700.9	1997.0	1549.2	2319.7	5130.9	
G44.0	5088.1	5761.1	2143.0	5070.9	4650.2	1908.9	1490.9	2218.5	5088.1	
G45.0	5036.7	5556.8	1961.3	4839.4	4586.4	1811.3	1428.1	2120.1	5036.7	
G46.0	4986.3	5355.2	1807.6	4572.9	4529.9	1727.0	1358.6	2019.7	4986.3	
G47.0	4936.2	5130.8	1660.0	4328.3	4475.0	1644.3	1295.3	1932.4	4936.2	
G48.0	4878.6	4884.1	1549.0	4073.4	4414.0	1556.4	1232.3	1845.9	4878.6	
G49.0	4823.8	4647.7	1457.2	3816.4	4356.2	1480.1	1169.5	1753.1	4823.8	
G50.0	4770.3	4398.9	1371.5	3559.8	4297.4	1412.7	1116.7	1677.9	4770.3	
G51.0	4712.9	4123.2	1276.1	3285.1	4229.1	1334.9	1067.2	1600.4	4712.9	
G52.0	4657.8	3871.0	1187.4	3041.9	4169.2	1265.4	1009.7	1512.8	4657.8	
G53.0	4600.0	3616.2	1095.8	2806.8	4103.1	1198.4	948.0	1436.7	4600.0	
G54.0	4546.7	3367.7	1002.3	2563.9	4040.1	1128.5	874.7	1363.2	4546.7	
G55.0	4482.7	3100.8	901.5	2357.0	3978.0	1067.0	783.3	1286.1	4482.7	
G56.0	4413.2	2872.3	808.8	2166.3	3909.8	1003.6	688.4	1219.8	4413.2	
G57.0	4350.1	2650.0	715.3	1962.3	3828.8	939.3	586.5	1151.4	4350.1	
G58.0	4271.8	2425.6	611.3	1789.9	3750.7	866.0	482.6	1075.4	4271.8	
G59.0	4197.5	2234.5	518.9	1625.1	3667.3	792.9	378.2	1001.3	4197.5	
G60.0	4102.2	2050.9	437.4	1461.1	3568.9	704.5	306.2	919.7	4102.2	
G61.0	4008.6	1847.6	371.5	1287.2	3456.1	618.8	261.1	830.8	4008.6	
G62.0	3902.1	1663.1	323.4	1129.5	3348.2	524.1	224.0	725.4	3902.1	
G63.0	3774.4	1478.8	305.6	974.0	3233.4	415.3	198.1	622.4	3774.4	
G64.0	3645.9	1296.7	310.4	821.0	3108.4	323.1	187.4	505.8	3645.9	
G65.0	3501.5	1096.6	322.0	660.6	2961.4	255.7	182.4	405.4	3501.5	
G66.0	3323.2	921.2	330.6	526.9	2707.2	212.4	179.8	319.3	3323.2	
G67.0	3014.4	759.7	340.1	412.4	2302.2	193.4	175.8	256.6	3014.4	
G68.0	2631.3	596.2	348.9	312.0	1902.2	182.0	172.3	218.7	2631.3	
G69.0	2194.6	467.0	347.2	245.9	1531.5	171.6	169.7	200.4	2194.6	
G70.0	1721.6	362.6	334.8	205.9	1217.9	163.4	167.4	189.4	1721.6	
G71.0	1346.3	273.5	317.5	176.4	957.5	155.1	165.3	180.2	1346.3	
G72.0	1033.0	216.4	298.6	156.6	725.4	145.2	162.6	170.1	1033.0	
G73.0	759.8	180.3	274.4	141.3	545.0	132.7	158.8	159.3	759.8	

C Plane (°):0.0-360.0: 45.0
 Test Lab: inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.0000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	568.2	158.9	245.9	125.5	391.2	121.5	154.8	145.7	568.2	
G75.0	424.3	138.4	225.7	115.1	256.6	111.1	150.6	130.5	424.3	
G76.0	301.4	122.8	210.8	108.4	171.5	100.2	141.3	118.5	301.4	
G77.0	196.0	114.3	183.4	98.3	117.9	91.5	128.3	108.0	196.0	
G78.0	136.5	104.2	153.5	81.3	90.9	79.7	116.9	96.8	136.5	
G79.0	104.3	87.9	127.6	63.4	77.2	66.3	106.3	82.9	104.3	
G80.0	87.5	70.0	107.6	52.4	69.1	54.3	95.6	69.5	87.5	
G81.0	79.4	58.3	89.3	46.1	61.4	47.6	84.9	58.9	79.4	
G82.0	72.9	52.0	76.9	40.4	53.5	41.6	74.6	51.0	72.9	
G83.0	65.3	44.8	65.3	32.8	45.2	36.6	64.2	44.8	65.3	
G84.0	58.6	36.8	53.7	27.2	36.0	29.8	53.1	37.1	58.6	
G85.0	51.2	30.2	43.6	22.9	27.7	23.9	41.9	30.1	51.2	
G86.0	43.3	24.9	32.0	17.7	20.0	18.2	32.2	24.2	43.3	
G87.0	32.8	19.4	23.2	12.4	12.4	12.7	22.7	18.1	32.8	
G88.0	24.1	13.5	13.5	0.0	0.0	0.0	13.5	12.0	24.1	
G89.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	
G90.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G98.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	
G99.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	
G100.0	8.5	0.0	0.0	0.0	7.5	0.0	0.0	0.0	8.5	
G101.0	8.7	0.0	0.0	0.0	8.7	0.0	0.0	0.0	8.7	
G102.0	9.8	0.0	0.0	0.0	9.2	0.0	0.0	0.0	9.8	
G103.0	10.5	0.0	0.0	0.0	9.6	8.2	0.0	0.0	10.5	
G104.0	11.3	0.0	0.0	0.0	10.4	8.9	0.0	0.0	11.3	
G105.0	11.9	0.0	0.0	0.0	10.7	9.7	0.0	0.0	11.9	
G106.0	12.4	0.0	0.0	0.0	11.9	10.4	0.0	0.0	12.4	
G107.0	13.0	0.0	0.0	0.0	12.2	11.4	0.0	7.8	13.0	
G108.0	13.7	0.0	0.0	0.0	13.2	11.0	0.0	8.8	13.7	
G109.0	14.7	0.0	0.0	0.0	13.6	12.3	0.0	9.1	14.7	
G110.0	15.4	0.0	0.0	0.0	13.7	13.1	0.0	10.3	15.4	

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	15.8	0.0	0.0	0.0	14.9	13.9	0.0	11.0	15.8	
G112.0	16.4	0.0	0.0	7.8	15.3	14.4	0.0	11.8	16.4	
G113.0	16.8	0.0	0.0	8.6	16.0	15.6	0.0	12.6	16.8	
G114.0	17.5	0.0	0.0	9.0	16.6	16.3	0.0	13.0	17.5	
G115.0	18.4	0.0	0.0	9.7	17.1	17.3	0.0	13.7	18.4	
G116.0	19.0	7.6	0.0	10.3	17.7	17.5	9.1	14.7	19.0	
G117.0	19.4	8.0	0.0	10.7	18.3	18.4	10.1	15.4	19.4	
G118.0	20.1	8.7	0.0	11.6	18.6	19.4	11.2	16.6	20.1	
G119.0	20.7	8.7	0.0	12.4	19.6	19.7	12.0	16.2	20.7	
G120.0	21.7	9.7	0.0	12.8	20.0	20.5	13.1	17.7	21.7	
G121.0	22.4	9.9	0.0	13.5	20.5	21.8	14.1	18.3	22.4	
G122.0	22.8	10.8	0.0	14.5	21.5	22.2	15.2	19.2	22.8	
G123.0	22.8	11.6	0.0	14.7	22.2	23.0	16.0	19.4	22.8	
G124.0	23.7	12.0	0.0	15.2	22.8	23.4	17.1	20.0	23.7	
G125.0	24.5	12.9	7.8	16.0	23.0	23.9	17.9	21.2	24.5	
G126.0	25.0	13.5	8.4	16.2	23.5	24.7	19.0	21.9	25.0	
G127.0	25.6	14.2	8.8	17.3	24.1	25.2	20.4	22.5	25.6	
G128.0	26.4	14.4	9.5	17.7	24.7	25.6	20.6	22.9	26.4	
G129.0	26.7	15.2	9.7	18.1	25.0	26.8	21.5	23.4	26.7	
G130.0	27.1	15.8	10.7	19.2	26.0	27.3	22.7	24.0	27.1	
G131.0	27.1	16.3	11.4	19.8	25.8	27.5	23.4	24.4	27.1	
G132.0	27.7	16.9	12.0	20.6	26.6	28.7	24.4	25.5	27.7	
G133.0	28.4	17.3	12.9	21.2	27.3	28.8	25.1	26.5	28.4	
G134.0	29.2	18.2	13.1	21.9	27.9	29.4	26.1	26.5	29.2	
G135.0	29.7	19.0	14.3	22.9	28.4	30.6	26.7	27.1	29.7	
G136.0	29.9	19.5	15.0	23.2	29.2	30.8	27.4	27.6	29.9	
G137.0	30.3	20.1	15.8	23.8	30.3	31.5	28.2	28.0	30.3	
G138.0	30.7	21.1	16.6	24.6	30.7	31.9	28.9	28.2	30.7	
G139.0	31.4	21.3	17.1	25.3	31.6	33.0	29.1	29.1	31.4	
G140.0	32.2	22.4	17.9	25.3	32.2	33.2	30.1	29.3	32.2	
G141.0	32.8	22.6	18.5	26.5	32.8	33.6	30.8	29.9	32.8	
G142.0	33.1	23.4	19.4	26.9	33.3	34.5	31.4	30.3	33.1	
G143.0	34.1	24.1	20.0	27.4	34.1	34.9	32.2	31.0	34.1	
G144.0	34.6	24.7	20.6	28.4	34.6	35.9	32.4	31.6	34.6	
G145.0	34.8	25.2	21.5	28.8	35.6	36.4	32.9	33.1	34.8	
G146.0	35.4	26.2	21.5	29.9	35.8	36.8	33.7	33.7	35.4	
G147.0	36.1	27.1	22.9	30.5	36.5	37.4	33.7	34.3	36.1	

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	36.9	27.5	24.2	30.7	36.9	38.7	34.3	34.7	36.9	
G149.0	37.5	28.5	24.9	31.2	37.6	39.3	35.2	35.6	37.5	
G150.0	37.5	29.0	25.5	31.8	38.0	39.9	35.8	35.8	37.5	
G151.0	38.2	30.0	26.3	33.0	38.4	40.6	36.6	36.8	38.2	
G152.0	38.8	30.4	27.2	33.3	39.5	41.6	37.1	38.1	38.8	
G153.0	39.2	30.8	28.0	34.1	39.7	41.8	37.3	38.7	39.2	
G154.0	39.7	31.5	28.4	34.9	39.9	42.3	38.1	39.2	39.7	
G155.0	39.5	32.3	29.3	35.6	40.5	43.1	38.7	40.2	39.5	
G156.0	40.1	33.2	30.5	36.4	41.0	44.2	39.2	40.8	40.1	
G157.0	39.9	33.8	31.2	37.1	41.0	44.2	40.2	41.7	39.9	
G158.0	40.9	33.8	31.8	37.7	41.4	44.0	40.8	42.7	40.9	
G159.0	41.4	34.7	32.4	37.9	42.2	46.1	42.3	43.4	41.4	
G160.0	41.6	36.3	33.3	38.3	42.4	46.1	42.1	44.2	41.6	
G161.0	42.0	36.4	34.1	39.2	42.7	46.9	42.5	44.8	42.0	
G162.0	41.8	37.0	35.0	40.4	42.9	47.5	43.6	45.0	41.8	
G163.0	42.7	37.2	36.0	41.0	43.1	47.6	44.0	45.5	42.7	
G164.0	42.7	38.3	36.9	41.3	43.5	48.4	44.8	45.9	42.7	
G165.0	43.3	39.3	37.7	42.1	42.4	48.4	45.5	46.5	43.3	
G166.0	43.1	40.1	38.5	42.9	43.7	48.2	46.1	47.1	43.1	
G167.0	43.5	40.6	39.6	43.2	43.9	48.8	46.5	47.2	43.5	
G168.0	43.7	41.2	40.0	43.4	44.2	48.8	46.8	46.9	43.7	
G169.0	44.0	41.8	40.8	44.2	44.4	48.8	47.4	47.4	44.0	
G170.0	44.0	42.1	41.5	43.6	44.4	48.4	47.8	47.8	44.0	
G171.0	44.2	42.3	42.1	45.1	44.4	48.4	48.0	48.2	44.2	
G172.0	44.4	43.3	42.7	45.9	44.2	48.0	48.2	48.2	44.4	
G173.0	44.4	43.7	43.6	45.7	44.4	48.0	48.4	47.8	44.4	
G174.0	44.6	44.0	44.2	46.5	44.2	48.0	48.6	47.8	44.6	
G175.0	44.8	45.0	45.5	46.7	44.4	48.0	49.3	48.2	44.8	
G176.0	44.4	45.0	45.5	47.1	44.6	47.6	48.8	48.2	44.4	
G177.0	44.8	45.4	45.7	47.4	44.6	47.3	48.8	48.2	44.8	
G178.0	44.8	45.7	46.8	47.4	44.4	47.3	48.6	47.6	44.8	
G179.0	45.2	46.7	46.8	47.6	44.8	47.5	48.6	47.6	45.2	
G180.0	45.2	47.1	46.8	47.8	44.8	47.5	48.4	47.4	45.2	

C Plane (°):0.0-360.0: 45.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 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