

Report No.: TH-3713A

Test Time: 2022/9/22 18:03

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.558 A
Power Factor: 0.977

Luminaire Description: 120W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 220.1 V
Power: 120 W

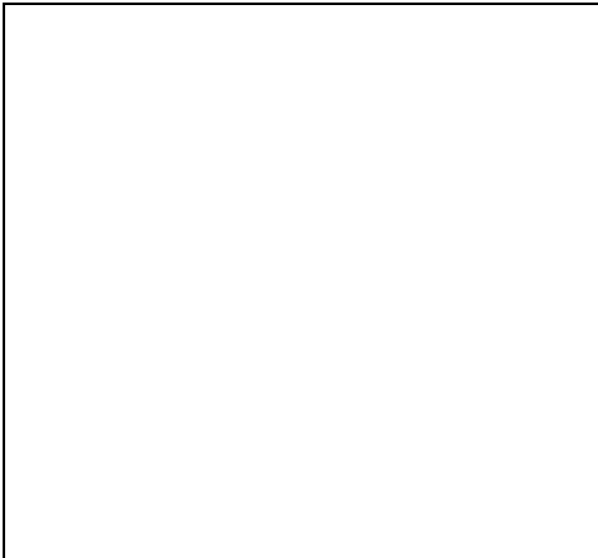
Photometric Results

CIE Class: Direct
Measurement Flux: 20548.4 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H152.1
Vertical Diffuse Angle(50%): V73.6
Luminaire Efficacy Rating (LER): 171.29
Max. Intensity: 9859.4 cd
S/MH(C0/C180): 1.81

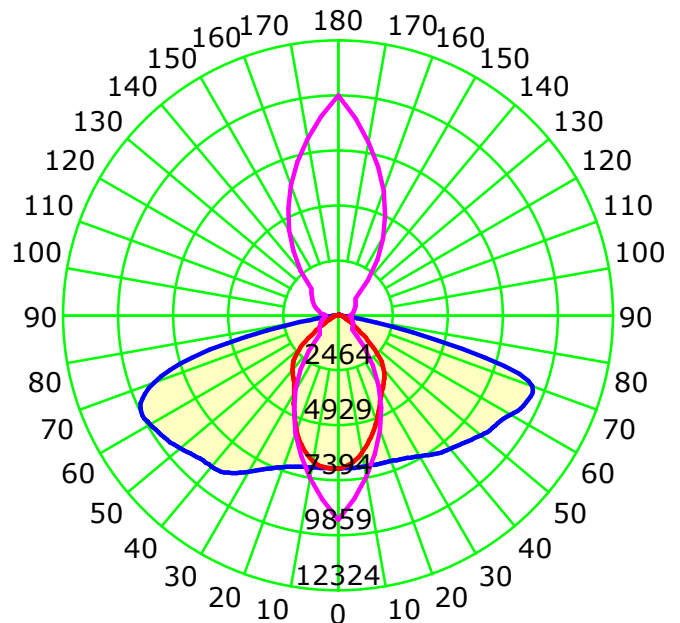
Total Rated Lamp Lumens: 20548.4 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 6854.75 cd
Pos of Max. Intensity: H180 V63
S/MH(C90/C270): 0.93

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

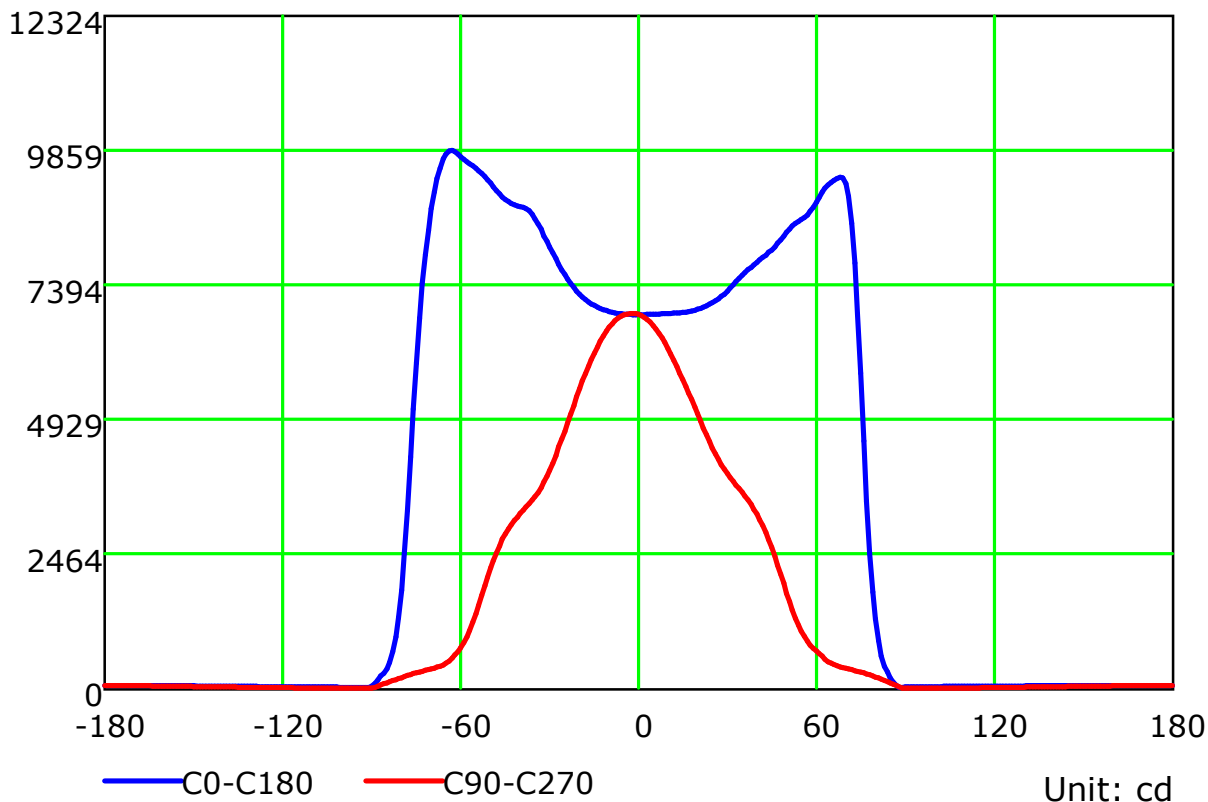
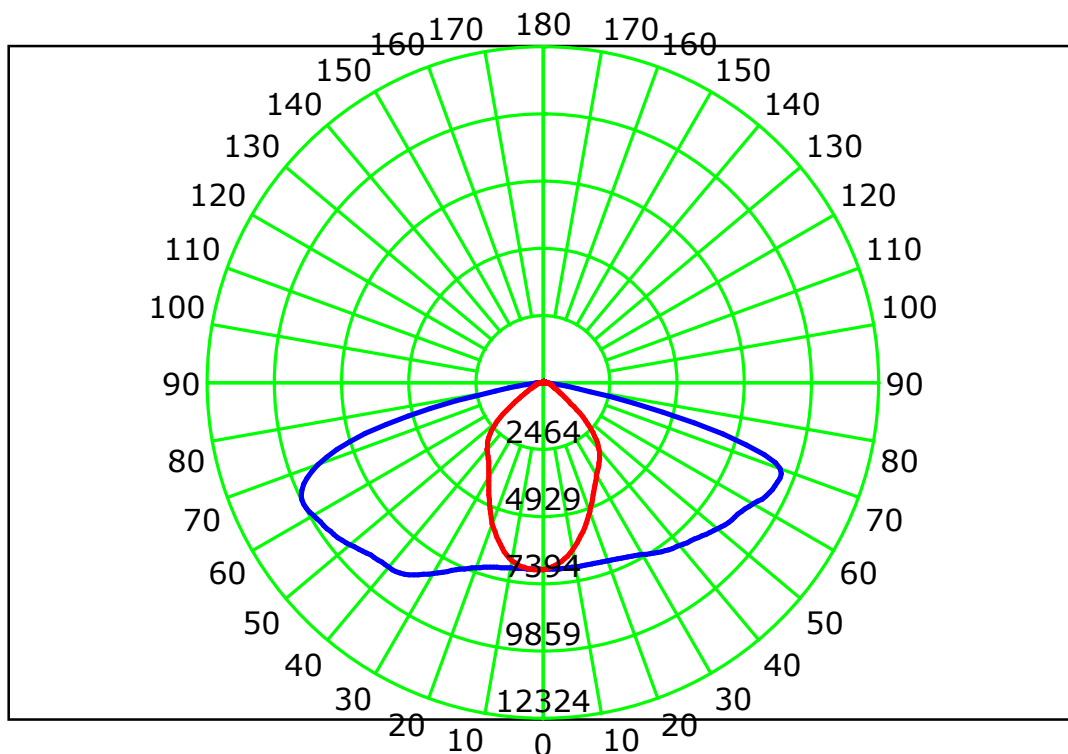
Average Diffuse Angle(50%): 112.7°

— C0-C180 — C90-C270 — G63

C Plane (°):0.0-360.0: 45.0
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=1.0000]
Humidity: 65
Inspector:

Luminous Intensity Distribution Curve



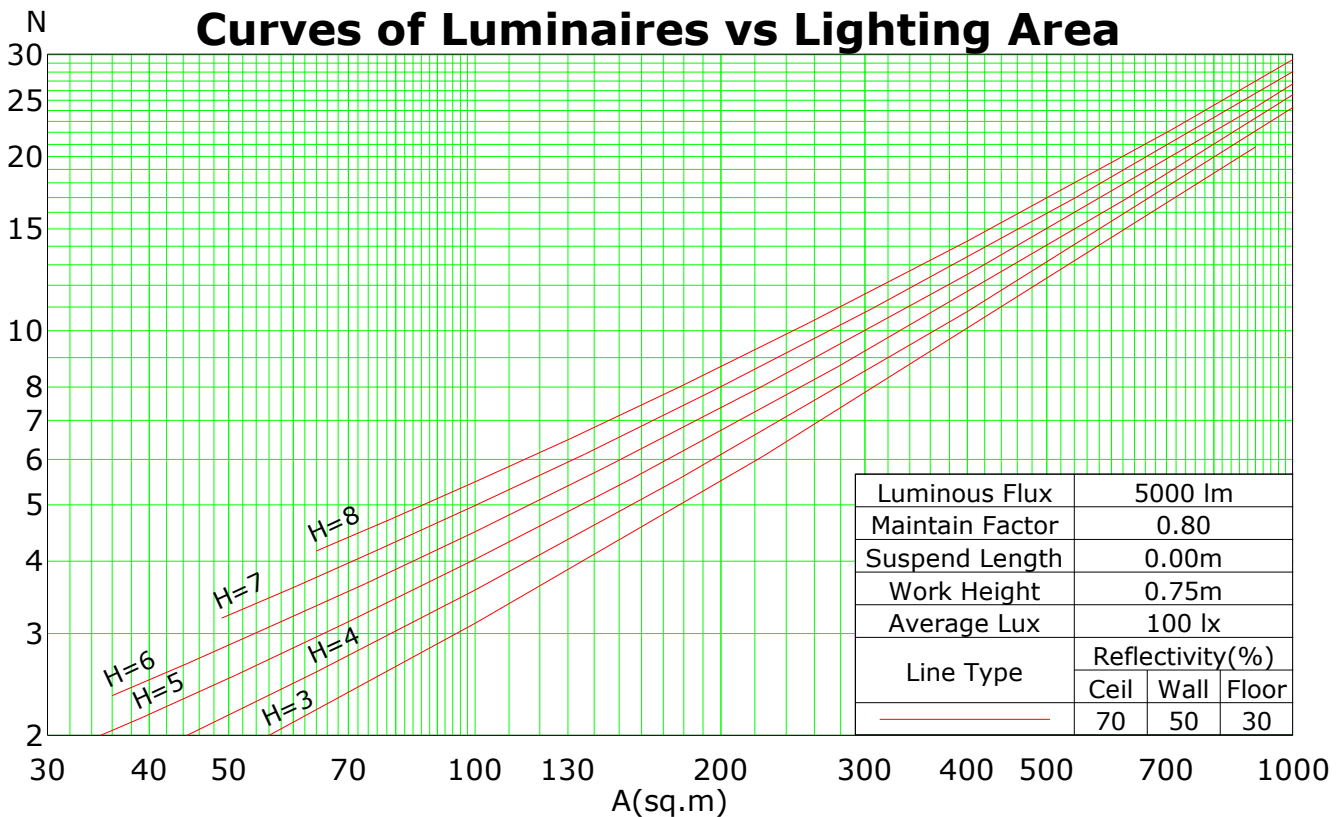
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Inspector:

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	1.19	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	1.08	1.03	0.99	0.95	1.06	1.01	0.97	0.94	0.97	0.93	0.90	0.93	0.90	0.87	0.89	0.87	0.85	0.83
2	0.98	0.89	0.82	0.76	0.95	0.87	0.81	0.76	0.84	0.78	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
3	0.89	0.78	0.70	0.63	0.86	0.76	0.69	0.62	0.73	0.67	0.61	0.70	0.65	0.60	0.68	0.63	0.59	0.56
4	0.81	0.69	0.60	0.53	0.79	0.67	0.59	0.52	0.65	0.57	0.51	0.62	0.56	0.51	0.60	0.54	0.50	0.48
5	0.74	0.61	0.52	0.45	0.72	0.60	0.51	0.45	0.58	0.50	0.44	0.56	0.49	0.44	0.54	0.48	0.43	0.41
6	0.69	0.55	0.46	0.39	0.67	0.54	0.45	0.39	0.52	0.44	0.38	0.50	0.43	0.38	0.49	0.42	0.38	0.36
7	0.64	0.50	0.41	0.34	0.62	0.49	0.40	0.34	0.47	0.39	0.34	0.46	0.39	0.34	0.44	0.38	0.33	0.31
8	0.59	0.45	0.37	0.31	0.57	0.44	0.36	0.30	0.43	0.36	0.30	0.42	0.35	0.30	0.41	0.34	0.30	0.28
9	0.55	0.41	0.33	0.27	0.54	0.41	0.33	0.27	0.40	0.32	0.27	0.38	0.32	0.27	0.37	0.31	0.27	0.25
10	0.52	0.38	0.30	0.25	0.50	0.38	0.30	0.25	0.37	0.29	0.25	0.36	0.29	0.24	0.35	0.29	0.24	0.22

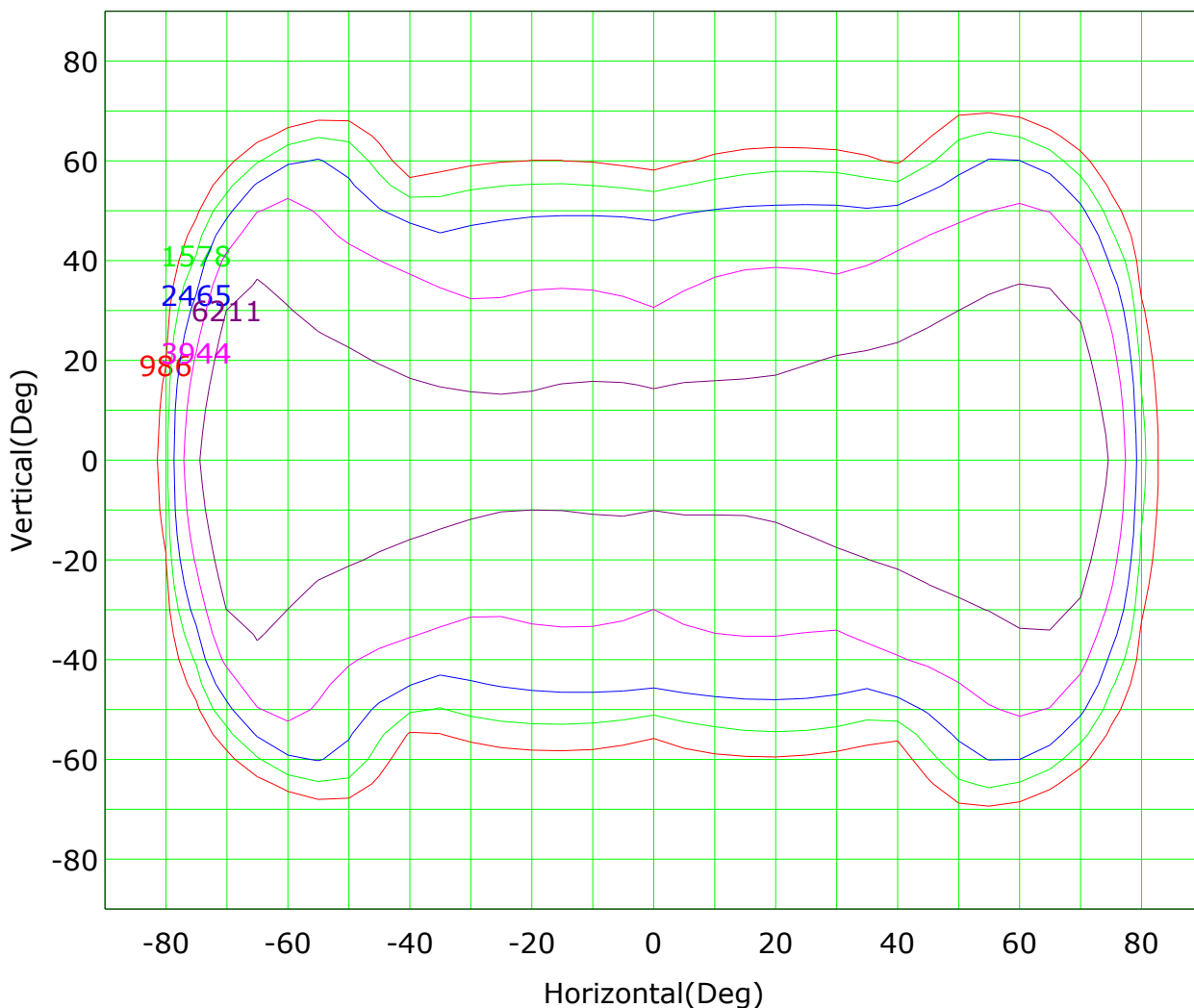
Spacing Criteria (0-180): 1.81
 Spacing Criteria (90-270): 0.93
 Spacing Criteria (Diagonal): 1.25



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 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

Isocandela (rectangle)



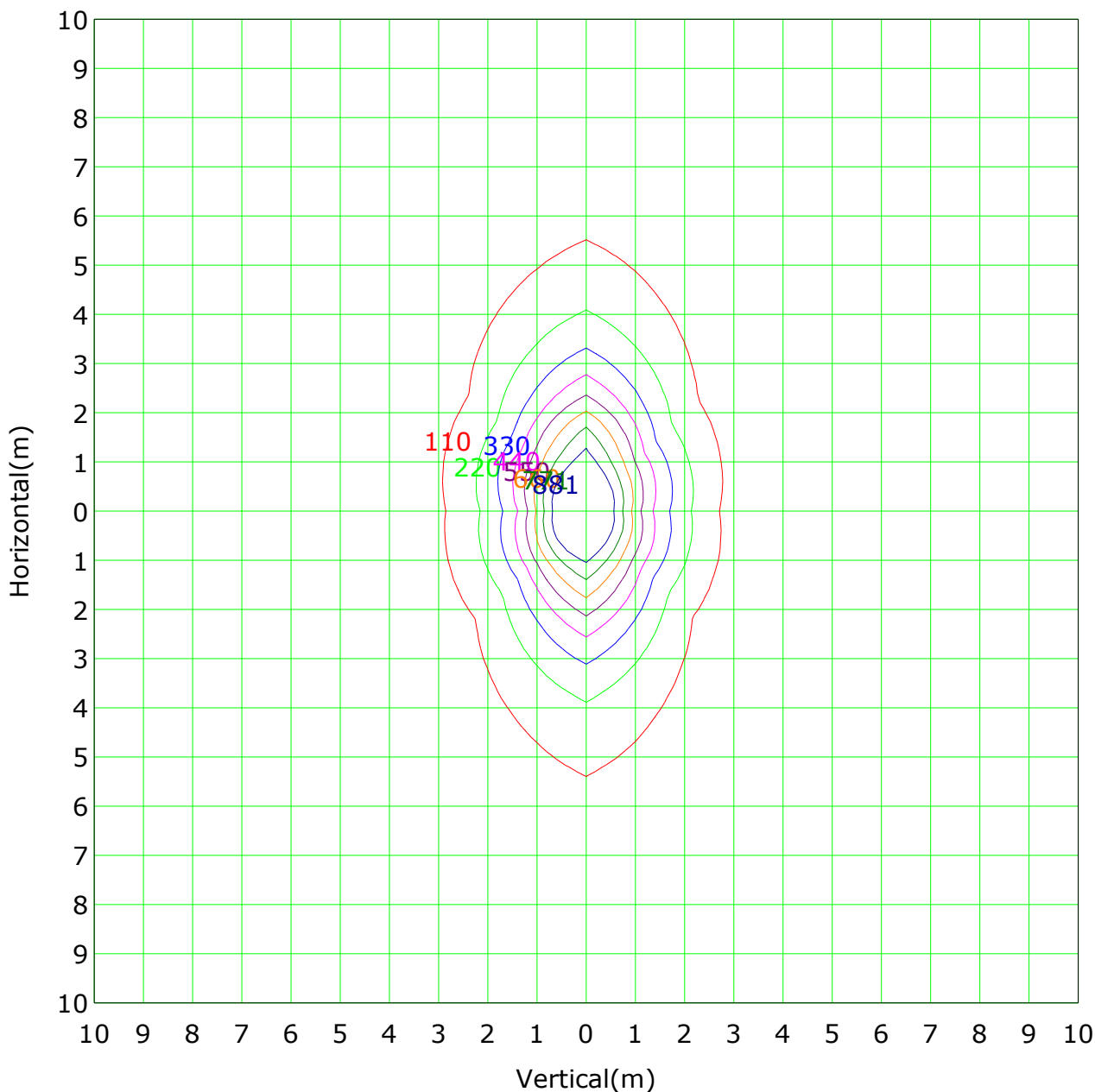
Imax (100%): 9859 cd

- | | |
|-------------------|-------------------|
| — (10%): 986 cd | — (16%): 1578 cd |
| — (25%): 2465 cd | — (40%): 3944 cd |
| — (63%): 6211 cd | — (100%): 9859 cd |

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 2.5m		Max Lux(100%): 1100.7 lx	
<ul style="list-style-type: none"> — (10%): 110.1 lx — (30%): 330.2 lx — (50%): 550.4 lx — (70%): 770.5 lx 	<ul style="list-style-type: none"> — (20%): 220.1 lx — (40%): 440.3 lx — (60%): 660.4 lx — (80%): 880.6 lx 		

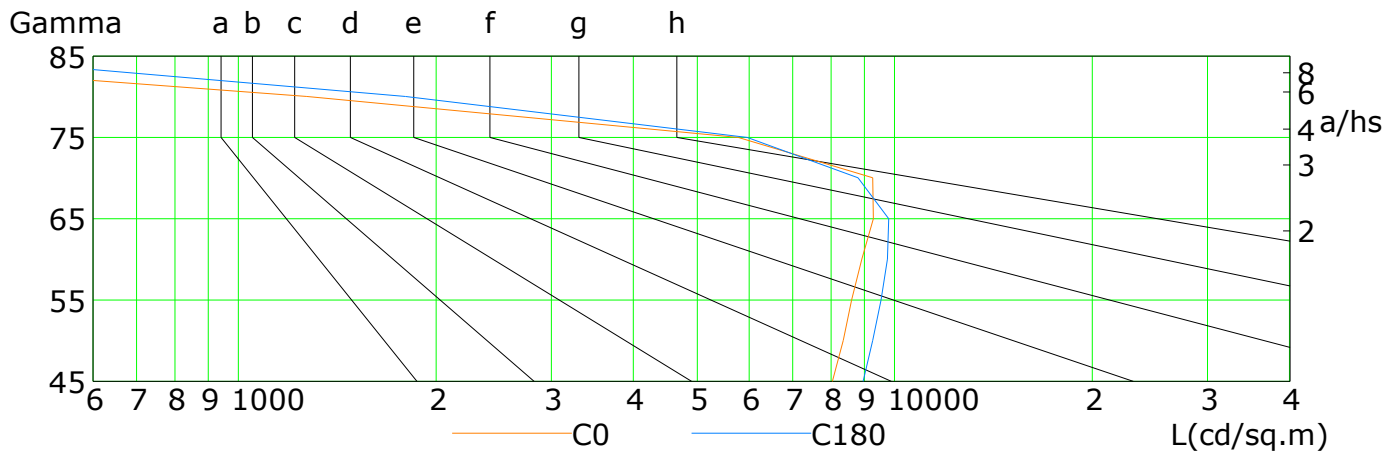
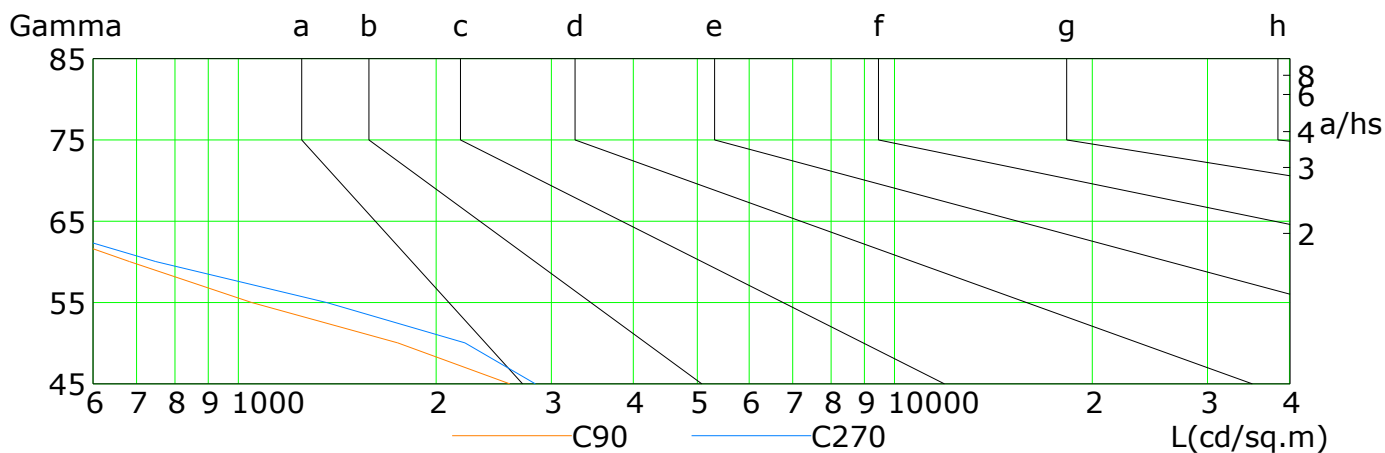
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 Distance: 8.607 m [K=1.0000]
 Humidity: 65
 Inspector:

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

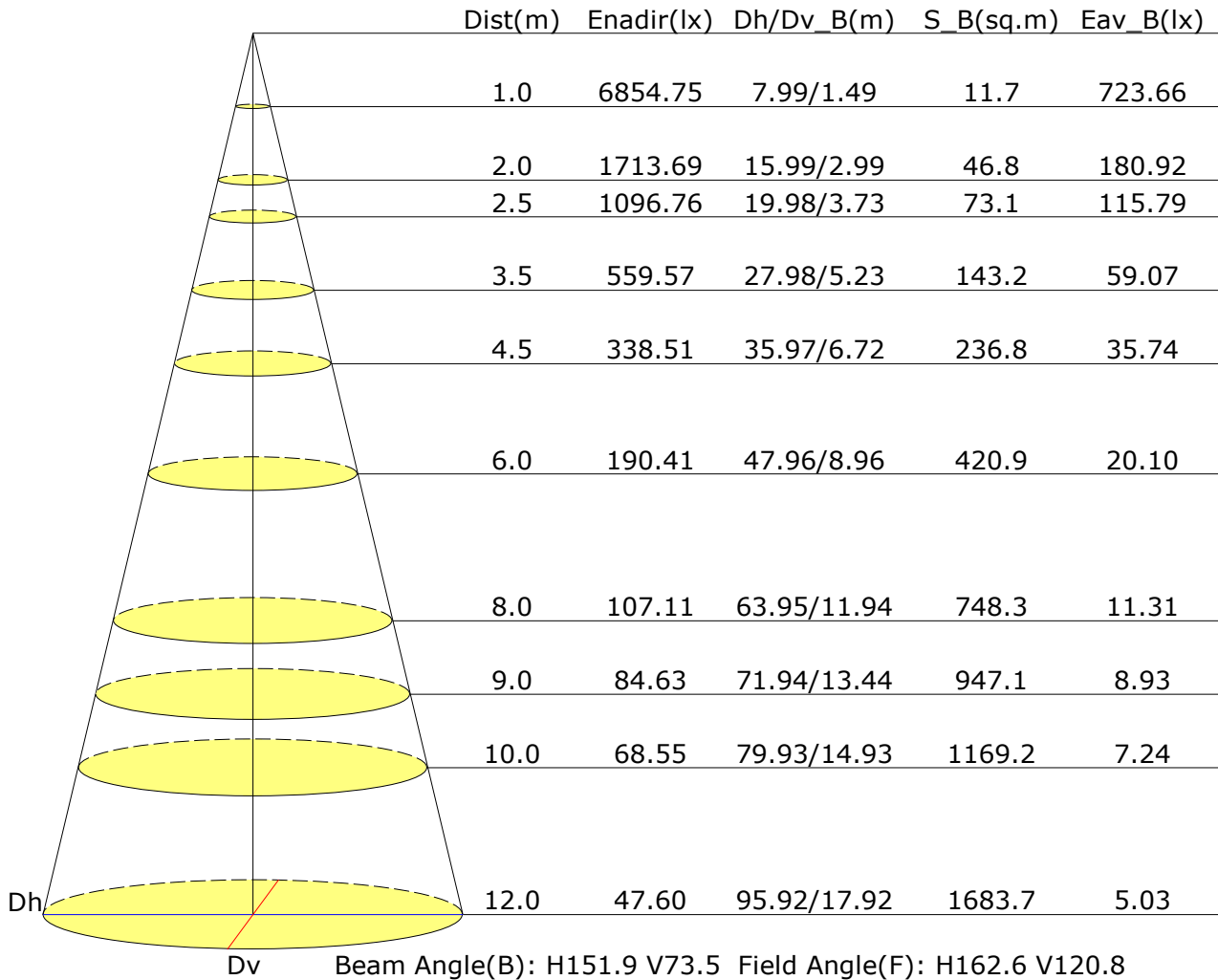


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8040	8360	8597	8911	9284	9256	5780	1271	196
C90	2590	1748	1049	683	458	369	300	209	100
C180	8959	9264	9534	9746	9796	8801	5968	1798	355
C270	2838	2212	1364	749	464	357	286	197	106

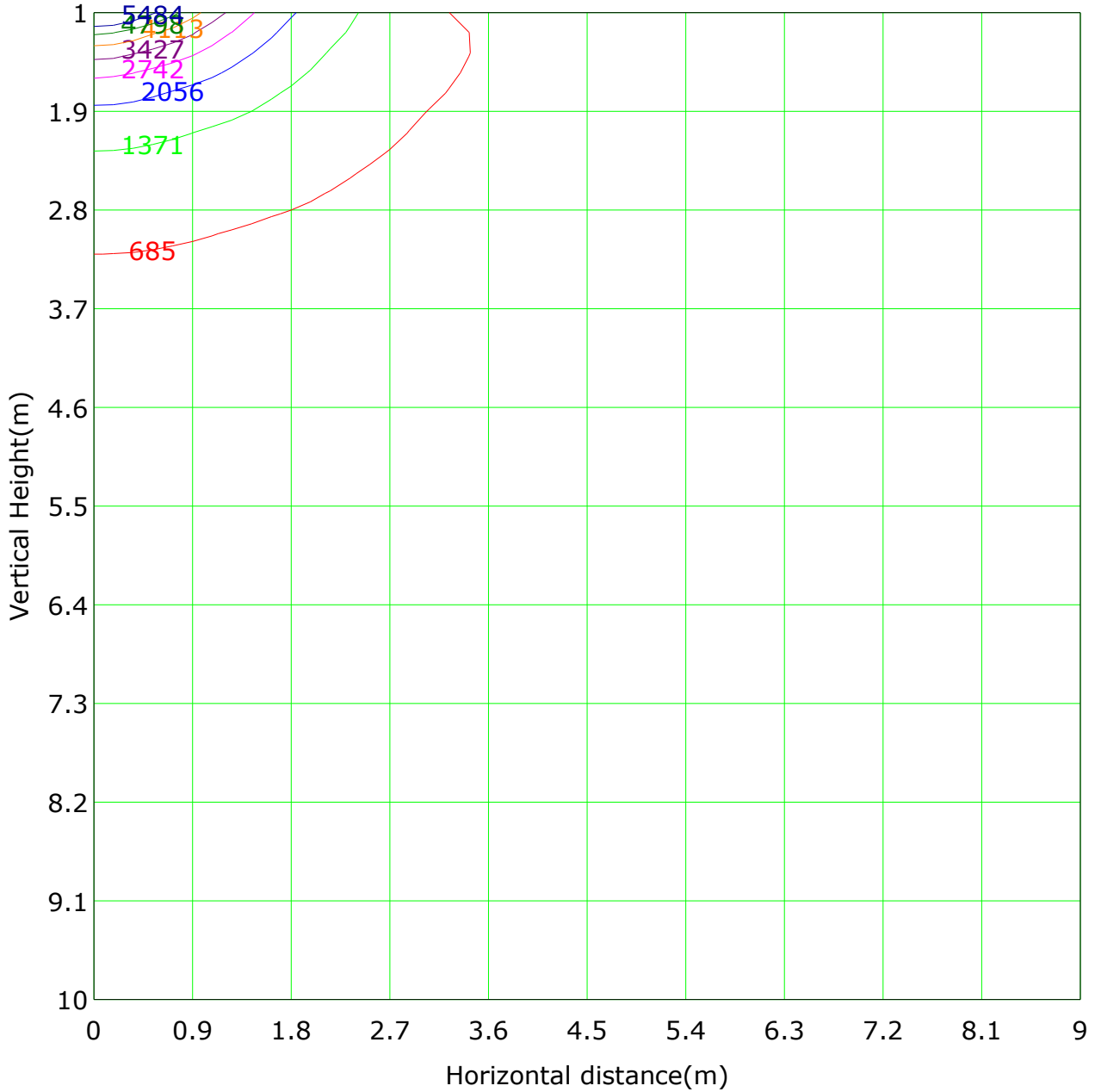
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Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

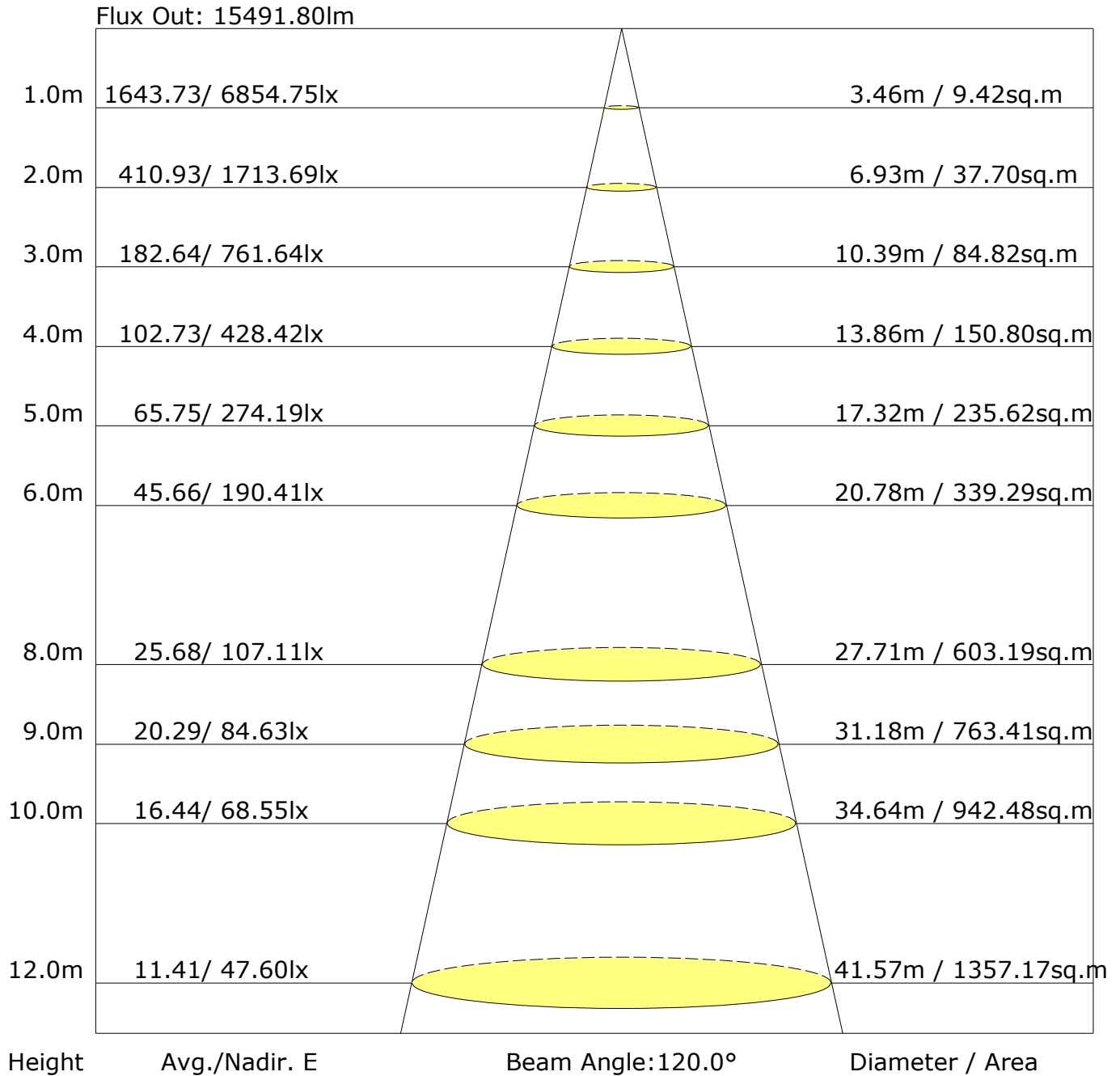


Lowest(m): 1.0m		Highest(m): 10.0m		Max Lux: 6854.7 lx	
— (10%): 685.5 lx		— (20%): 1370.9 lx			
— (30%): 2056.4 lx		— (40%): 2741.9 lx			
— (50%): 3427.4 lx		— (60%): 4112.8 lx			
— (70%): 4798.3 lx		— (80%): 5483.8 lx			

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Test Type: TYPE C
Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 45.0
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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=1.0000]
Humidity: 65
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-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 20548lm ($8\log(F/F_0) = 10.5$).

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	6855.1	6.6	6.6	0.03	0.03
1.0-2.0	6853.2	19.7	26.2	0.10	0.13
2.0-3.0	6848.0	32.8	59.0	0.16	0.29
3.0-4.0	6839.9	45.8	104.8	0.22	0.51
4.0-5.0	6826.0	58.7	163.5	0.29	0.80
5.0-6.0	6805.6	71.5	235.0	0.35	1.14
6.0-7.0	6783.1	84.2	319.2	0.41	1.55
7.0-8.0	6757.8	96.7	416.0	0.47	2.02
8.0-9.0	6726.6	109.0	525.0	0.53	2.55
9.0-10.0	6690.8	121.1	646.1	0.59	3.14
10.0-11.0	6651.2	132.9	779.0	0.65	3.79
11.0-12.0	6608.6	144.5	923.5	0.70	4.49
12.0-13.0	6561.8	155.7	1079.3	0.76	5.25
13.0-14.0	6511.5	166.7	1245.9	0.81	6.06
14.0-15.0	6458.1	177.3	1423.3	0.86	6.93
15.0-16.0	6399.0	187.5	1610.8	0.91	7.84
16.0-17.0	6341.4	197.5	1808.3	0.96	8.80
17.0-18.0	6285.5	207.3	2015.6	1.01	9.81
18.0-19.0	6225.7	216.6	2232.2	1.05	10.86
19.0-20.0	6165.4	225.7	2457.9	1.10	11.96
20.0-21.0	6104.3	234.4	2692.3	1.14	13.10
21.0-22.0	6040.9	242.8	2935.1	1.18	14.28
22.0-23.0	5977.8	250.9	3186.0	1.22	15.50
23.0-24.0	5914.7	258.6	3444.6	1.26	16.76
24.0-25.0	5852.7	266.2	3710.7	1.30	18.06
25.0-26.0	5794.7	273.6	3984.3	1.33	19.39
26.0-27.0	5738.9	280.8	4265.1	1.37	20.76
27.0-28.0	5682.0	287.7	4552.8	1.40	22.16
28.0-29.0	5626.1	294.4	4847.2	1.43	23.59
29.0-30.0	5572.5	300.9	5148.1	1.46	25.05
30.0-31.0	5520.8	307.3	5455.4	1.50	26.55
31.0-32.0	5469.5	313.4	5768.8	1.53	28.07
32.0-33.0	5418.0	319.2	6088.0	1.55	29.63
33.0-34.0	5368.6	324.9	6413.0	1.58	31.21
34.0-35.0	5317.6	330.3	6743.3	1.61	32.82
35.0-36.0	5266.6	335.4	7078.6	1.63	34.45

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Test Device: GPM-1800B
Distance: 8.607 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	5214.0	340.1	7418.7	1.66	36.10
37.0-38.0	5155.7	344.2	7762.9	1.67	37.78
38.0-39.0	5091.0	347.5	8110.5	1.69	39.47
39.0-40.0	5025.8	350.6	8461.0	1.71	41.18
40.0-41.0	4962.5	353.4	8814.5	1.72	42.90
41.0-42.0	4897.6	355.9	9170.3	1.73	44.63
42.0-43.0	4831.4	357.9	9528.3	1.74	46.37
43.0-44.0	4764.0	359.6	9887.9	1.75	48.12
44.0-45.0	4696.1	361.0	10248.8	1.76	49.88
45.0-46.0	4625.6	361.8	10610.6	1.76	51.64
46.0-47.0	4552.7	362.1	10972.8	1.76	53.40
47.0-48.0	4478.4	362.1	11334.9	1.76	55.16
48.0-49.0	4404.6	361.8	11696.6	1.76	56.92
49.0-50.0	4328.3	360.9	12057.5	1.76	58.68
50.0-51.0	4246.3	359.3	12416.8	1.75	60.43
51.0-52.0	4161.8	357.2	12774.0	1.74	62.17
52.0-53.0	4073.5	354.4	13128.4	1.72	63.89
53.0-54.0	3979.5	350.8	13479.2	1.71	65.60
54.0-55.0	3884.7	346.8	13826.0	1.69	67.29
55.0-56.0	3792.5	342.7	14168.8	1.67	68.95
56.0-57.0	3698.1	338.2	14506.9	1.65	70.60
57.0-58.0	3602.5	333.2	14840.1	1.62	72.22
58.0-59.0	3511.0	328.3	15168.4	1.60	73.82
59.0-60.0	3422.7	323.4	15491.8	1.57	75.39
60.0-61.0	3336.6	318.5	15810.3	1.55	76.94
61.0-62.0	3254.8	313.7	16123.9	1.53	78.47
62.0-63.0	3172.1	308.5	16432.5	1.50	79.97
63.0-64.0	3090.4	303.3	16735.8	1.48	81.45
64.0-65.0	3012.9	298.2	17034.0	1.45	82.90
65.0-66.0	2935.0	292.9	17326.8	1.43	84.32
66.0-67.0	2858.8	287.5	17614.3	1.40	85.72
67.0-68.0	2787.4	282.4	17896.7	1.37	87.10
68.0-69.0	2718.1	277.3	18174.1	1.35	88.45
69.0-70.0	2641.7	271.3	18445.4	1.32	89.77
70.0-71.0	2548.2	263.4	18708.8	1.28	91.05
71.0-72.0	2427.0	252.4	18961.2	1.23	92.28

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Test Device: GPM-1800B
Distance: 8.607 m [K=1.0000]
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	2270.1	237.4	19198.6	1.16	93.43
73.0-74.0	2074.6	218.1	19416.8	1.06	94.49
74.0-75.0	1839.5	194.4	19611.2	0.95	95.44
75.0-76.0	1573.2	167.0	19778.2	0.81	96.25
76.0-77.0	1301.5	138.8	19917.0	0.68	96.93
77.0-78.0	1039.6	111.3	20028.3	0.54	97.47
78.0-79.0	807.4	86.8	20115.0	0.42	97.89
79.0-80.0	622.3	67.1	20182.1	0.33	98.22
80.0-81.0	475.3	51.4	20233.5	0.25	98.47
81.0-82.0	362.7	39.3	20272.9	0.19	98.66
82.0-83.0	277.9	30.2	20303.1	0.15	98.81
83.0-84.0	213.6	23.3	20326.4	0.11	98.92
84.0-85.0	163.7	17.9	20344.2	0.09	99.01
85.0-86.0	122.9	13.4	20357.7	0.07	99.07
86.0-87.0	90.2	9.9	20367.5	0.05	99.12
87.0-88.0	62.2	6.8	20374.3	0.03	99.15
88.0-89.0	38.7	4.2	20378.6	0.02	99.17
89.0-90.0	21.8	2.4	20381.0	0.01	99.19
90.0-91.0	11.9	1.3	20382.3	0.01	99.19
91.0-92.0	8.0	0.9	20383.2	0.00	99.20
92.0-93.0	7.6	0.8	20384.0	0.00	99.20
93.0-94.0	7.9	0.9	20384.9	0.00	99.20
94.0-95.0	8.2	0.9	20385.8	0.00	99.21
95.0-96.0	9.0	1.0	20386.7	0.00	99.21
96.0-97.0	10.2	1.1	20387.9	0.01	99.22
97.0-98.0	11.0	1.2	20389.1	0.01	99.22
98.0-99.0	11.6	1.3	20390.3	0.01	99.23
99.0-100.0	12.2	1.3	20391.6	0.01	99.24
100.0-101.0	12.6	1.4	20393.0	0.01	99.24
101.0-102.0	13.1	1.4	20394.4	0.01	99.25
102.0-103.0	13.7	1.5	20395.9	0.01	99.26
103.0-104.0	14.1	1.5	20397.4	0.01	99.27
104.0-105.0	14.6	1.5	20398.9	0.01	99.27
105.0-106.0	15.1	1.6	20400.5	0.01	99.28
106.0-107.0	16.0	1.7	20402.2	0.01	99.29
107.0-108.0	17.3	1.8	20404.0	0.01	99.30

C Plane (°):0.0-360.0: 45.0
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=1.0000]
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	18.2	1.9	20405.9	0.01	99.31
109.0-110.0	18.8	1.9	20407.8	0.01	99.32
110.0-111.0	19.4	2.0	20409.8	0.01	99.33
111.0-112.0	20.0	2.0	20411.9	0.01	99.34
112.0-113.0	20.6	2.1	20414.0	0.01	99.35
113.0-114.0	21.2	2.1	20416.1	0.01	99.36
114.0-115.0	21.9	2.2	20418.3	0.01	99.37
115.0-116.0	22.6	2.2	20420.5	0.01	99.38
116.0-117.0	23.2	2.3	20422.8	0.01	99.39
117.0-118.0	23.8	2.3	20425.1	0.01	99.40
118.0-119.0	24.5	2.4	20427.5	0.01	99.41
119.0-120.0	25.3	2.4	20429.9	0.01	99.42
120.0-121.0	25.9	2.4	20432.3	0.01	99.44
121.0-122.0	26.4	2.5	20434.8	0.01	99.45
122.0-123.0	27.0	2.5	20437.3	0.01	99.46
123.0-124.0	27.5	2.5	20439.8	0.01	99.47
124.0-125.0	28.1	2.5	20442.3	0.01	99.48
125.0-126.0	28.8	2.6	20444.9	0.01	99.50
126.0-127.0	29.4	2.6	20447.5	0.01	99.51
127.0-128.0	30.0	2.6	20450.1	0.01	99.52
128.0-129.0	30.6	2.6	20452.7	0.01	99.53
129.0-130.0	31.2	2.6	20455.4	0.01	99.55
130.0-131.0	31.9	2.7	20458.0	0.01	99.56
131.0-132.0	32.6	2.7	20460.7	0.01	99.57
132.0-133.0	33.2	2.7	20463.4	0.01	99.59
133.0-134.0	33.8	2.7	20466.1	0.01	99.60
134.0-135.0	34.5	2.7	20468.8	0.01	99.61
135.0-136.0	35.1	2.7	20471.5	0.01	99.63
136.0-137.0	35.7	2.7	20474.2	0.01	99.64
137.0-138.0	36.5	2.7	20476.9	0.01	99.65
138.0-139.0	37.2	2.7	20479.6	0.01	99.67
139.0-140.0	37.9	2.7	20482.3	0.01	99.68
140.0-141.0	38.5	2.7	20485.0	0.01	99.69
141.0-142.0	39.1	2.7	20487.6	0.01	99.70
142.0-143.0	39.7	2.6	20490.3	0.01	99.72
143.0-144.0	40.2	2.6	20492.9	0.01	99.73

C Plane (°):0.0-360.0: 45.0
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=1.0000]
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	40.8	2.6	20495.5	0.01	99.74
145.0-146.0	41.3	2.6	20498.1	0.01	99.76
146.0-147.0	41.9	2.5	20500.6	0.01	99.77
147.0-148.0	42.4	2.5	20503.1	0.01	99.78
148.0-149.0	42.9	2.5	20505.6	0.01	99.79
149.0-150.0	43.3	2.4	20508.0	0.01	99.80
150.0-151.0	43.8	2.4	20510.3	0.01	99.81
151.0-152.0	44.4	2.3	20512.7	0.01	99.83
152.0-153.0	44.9	2.3	20514.9	0.01	99.84
153.0-154.0	45.5	2.2	20517.2	0.01	99.85
154.0-155.0	46.0	2.2	20519.3	0.01	99.86
155.0-156.0	46.5	2.1	20521.4	0.01	99.87
156.0-157.0	47.0	2.1	20523.5	0.01	99.88
157.0-158.0	47.5	2.0	20525.5	0.01	99.89
158.0-159.0	48.0	1.9	20527.4	0.01	99.90
159.0-160.0	48.4	1.9	20529.3	0.01	99.91
160.0-161.0	48.8	1.8	20531.1	0.01	99.92
161.0-162.0	49.1	1.7	20532.8	0.01	99.92
162.0-163.0	49.4	1.6	20534.4	0.01	99.93
163.0-164.0	49.7	1.5	20536.0	0.01	99.94
164.0-165.0	50.1	1.5	20537.4	0.01	99.95
165.0-166.0	50.3	1.4	20538.8	0.01	99.95
166.0-167.0	50.5	1.3	20540.1	0.01	99.96
167.0-168.0	50.8	1.2	20541.3	0.01	99.97
168.0-169.0	51.0	1.1	20542.4	0.01	99.97
169.0-170.0	51.2	1.0	20543.4	0.00	99.98
170.0-171.0	51.4	0.9	20544.4	0.00	99.98
171.0-172.0	51.5	0.8	20545.2	0.00	99.98
172.0-173.0	51.8	0.7	20545.9	0.00	99.99
173.0-174.0	51.9	0.6	20546.6	0.00	99.99
174.0-175.0	51.9	0.5	20547.1	0.00	99.99
175.0-176.0	52.0	0.4	20547.6	0.00	100.00
176.0-177.0	52.2	0.3	20547.9	0.00	100.00
177.0-178.0	52.3	0.3	20548.2	0.00	100.00
178.0-179.0	52.3	0.2	20548.3	0.00	100.00
179.0-180.0	52.5	0.1	20548.4	0.00	100.00

C Plane (°):0.0-360.0: 45.0
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=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 10248.83 lm

%lum = 49.9%

%lamp = 49.9%

cone flux(120°): 15491.79 lm

%lum = 75.4%

%lamp = 75.4%

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	6854.7	6854.7	6854.7	6854.7	6854.7	6854.7	6854.7	6854.7	6854.7	
G1.0	6851.4	6852.6	6836.8	6837.3	6854.6	6878.9	6868.0	6864.3	6851.4	
G2.0	6849.4	6842.2	6805.1	6817.5	6853.0	6892.2	6877.5	6870.0	6849.4	
G3.0	6854.9	6851.8	6761.1	6797.0	6855.7	6892.6	6872.7	6875.1	6854.9	
G4.0	6855.1	6837.9	6713.9	6767.9	6860.2	6900.0	6862.3	6879.5	6855.1	
G5.0	6863.5	6802.1	6654.6	6739.9	6863.1	6890.4	6845.8	6879.4	6863.5	
G6.0	6863.8	6747.3	6586.0	6704.9	6867.8	6887.1	6820.0	6874.1	6863.8	
G7.0	6864.7	6720.3	6511.8	6667.5	6875.4	6881.7	6789.4	6867.1	6864.7	
G8.0	6869.3	6659.2	6425.7	6628.1	6884.2	6880.2	6747.7	6852.8	6869.3	
G9.0	6868.3	6608.2	6338.5	6581.7	6893.3	6860.7	6687.6	6839.6	6868.3	
G10.0	6875.9	6574.9	6229.4	6533.1	6907.6	6810.2	6627.2	6817.0	6875.9	
G11.0	6873.0	6526.1	6127.8	6476.9	6926.5	6764.4	6555.5	6794.7	6873.0	
G12.0	6878.8	6461.1	6017.3	6425.5	6945.0	6739.7	6461.0	6764.8	6878.8	
G13.0	6878.8	6378.7	5897.4	6363.0	6966.0	6716.7	6368.2	6727.6	6878.8	
G14.0	6888.1	6304.4	5780.7	6301.8	6990.3	6673.4	6265.1	6683.9	6888.1	
G15.0	6894.7	6217.9	5665.6	6241.1	7021.6	6616.5	6143.3	6641.6	6894.7	
G16.0	6896.0	6147.2	5536.7	6168.4	7046.2	6543.0	6024.0	6580.9	6896.0	
G17.0	6910.8	6078.7	5417.2	6102.1	7084.7	6500.4	5905.4	6520.5	6910.8	
G18.0	6920.3	5980.2	5297.5	6035.0	7130.4	6462.2	5769.5	6453.4	6920.3	
G19.0	6932.9	5901.0	5160.4	5965.1	7176.9	6409.6	5635.0	6381.7	6932.9	
G20.0	6951.3	5813.8	5037.2	5895.7	7229.3	6355.9	5496.8	6304.2	6951.3	
G21.0	6967.9	5728.1	4897.9	5821.2	7288.0	6312.3	5342.6	6226.6	6967.9	
G22.0	6992.9	5640.6	4771.1	5752.6	7351.5	6244.6	5184.3	6132.3	6992.9	
G23.0	7016.6	5543.0	4650.2	5684.1	7428.8	6183.2	5026.5	6043.0	7016.6	
G24.0	7045.9	5450.2	4519.2	5605.5	7503.1	6125.7	4861.0	5948.8	7045.9	
G25.0	7071.2	5363.5	4410.1	5534.2	7586.8	6055.4	4715.7	5847.1	7071.2	
G26.0	7108.4	5270.7	4300.4	5464.8	7676.1	5985.5	4575.9	5749.8	7108.4	
G27.0	7143.7	5179.7	4200.4	5389.6	7779.7	5919.0	4435.2	5644.1	7143.7	
G28.0	7187.6	5081.3	4106.5	5311.5	7877.2	5864.3	4264.8	5526.6	7187.6	
G29.0	7228.0	4989.5	4019.4	5221.1	7992.6	5802.1	4131.2	5414.2	7228.0	
G30.0	7281.7	4882.6	3937.4	5142.5	8092.0	5730.6	3994.4	5301.2	7281.7	
G31.0	7342.0	4789.0	3868.6	5061.4	8201.8	5641.7	3886.8	5179.4	7342.0	
G32.0	7398.7	4693.6	3793.2	4976.4	8298.0	5552.2	3782.4	5046.7	7398.7	
G33.0	7462.4	4590.5	3729.3	4888.0	8416.6	5455.0	3681.7	4923.1	7462.4	
G34.0	7521.3	4496.9	3664.9	4801.4	8515.4	5371.3	3582.4	4797.4	7521.3	
G35.0	7579.5	4397.7	3597.0	4703.2	8606.2	5279.9	3510.4	4657.0	7579.5	
G36.0	7628.4	4306.0	3528.0	4612.7	8689.2	5190.3	3455.3	4524.5	7628.4	

C Plane (°):0.0-360.0: 45.0
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=1.0000]
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	7681.1	4212.9	3455.8	4520.3	8758.3	5078.0	3392.1	4391.5	7681.1	
G38.0	7718.0	4126.5	3378.5	4416.2	8800.0	4966.2	3332.5	4262.8	7718.0	
G39.0	7760.0	4024.0	3286.4	4326.5	8823.7	4828.8	3270.1	4135.7	7760.0	
G40.0	7809.0	3932.0	3196.7	4236.7	8834.0	4699.7	3215.5	4034.1	7809.0	
G41.0	7856.6	3835.6	3096.6	4147.1	8847.1	4586.9	3142.9	3929.4	7856.6	
G42.0	7902.7	3739.1	2988.4	4051.8	8871.1	4466.2	3078.6	3821.6	7902.7	
G43.0	7944.9	3631.6	2858.8	3966.0	8894.6	4361.5	3002.6	3722.6	7944.9	
G44.0	7993.6	3528.4	2730.1	3880.0	8923.3	4233.4	2928.8	3624.2	7993.6	
G45.0	8039.8	3426.0	2590.1	3781.7	8959.3	4132.1	2838.3	3528.5	8039.8	
G46.0	8094.8	3308.0	2423.1	3690.5	9008.9	4026.1	2736.1	3426.6	8094.8	
G47.0	8160.0	3198.2	2263.5	3596.3	9064.4	3903.8	2609.2	3333.8	8160.0	
G48.0	8221.3	3081.1	2098.8	3484.1	9123.7	3785.7	2486.8	3243.3	8221.3	
G49.0	8288.8	2964.8	1930.9	3373.5	9191.7	3710.4	2347.2	3141.4	8288.8	
G50.0	8360.2	2826.1	1747.6	3258.4	9263.6	3590.4	2212.4	3046.1	8360.2	
G51.0	8416.5	2694.5	1588.3	3136.9	9328.8	3493.9	2039.0	2937.7	8416.5	
G52.0	8483.5	2559.6	1439.1	2991.5	9382.8	3381.3	1879.1	2836.2	8483.5	
G53.0	8525.4	2420.9	1288.4	2852.5	9440.8	3260.4	1704.0	2730.1	8525.4	
G54.0	8561.7	2260.3	1161.6	2700.7	9490.0	3149.0	1522.9	2602.9	8561.7	
G55.0	8597.0	2110.0	1049.3	2525.3	9534.5	3047.6	1364.2	2477.6	8597.0	
G56.0	8633.9	1955.6	951.5	2354.0	9579.3	2936.1	1218.9	2345.3	8633.9	
G57.0	8681.9	1783.4	859.5	2177.8	9614.6	2811.9	1063.4	2202.7	8681.9	
G58.0	8745.7	1623.5	792.5	1996.0	9649.4	2654.6	948.5	2034.7	8745.7	
G59.0	8821.8	1466.0	735.7	1792.8	9699.7	2500.0	841.9	1873.4	8821.8	
G60.0	8910.6	1296.9	683.1	1613.6	9746.1	2328.1	749.4	1703.6	8910.6	
G61.0	8998.9	1152.8	638.5	1436.6	9797.5	2135.4	678.5	1516.2	8998.9	
G62.0	9101.6	1018.7	589.1	1254.4	9841.0	1948.7	619.3	1350.1	9101.6	
G63.0	9170.7	896.1	530.1	1102.5	9859.4	1727.6	556.0	1188.0	9170.7	
G64.0	9235.7	788.5	489.0	968.9	9848.3	1556.8	504.5	1023.9	9235.7	
G65.0	9283.7	687.9	457.9	854.1	9795.9	1362.8	463.7	884.9	9283.7	
G66.0	9316.6	613.9	434.4	750.4	9706.9	1152.1	430.8	763.3	9316.6	
G67.0	9347.8	555.8	413.8	676.7	9542.2	975.1	408.8	652.4	9347.8	
G68.0	9374.8	504.5	397.8	618.0	9347.0	820.7	389.8	573.0	9374.8	
G69.0	9362.5	468.5	382.4	568.2	9100.9	700.1	373.0	508.3	9362.5	
G70.0	9255.7	436.4	368.7	529.8	8801.0	599.2	357.1	455.0	9255.7	
G71.0	9017.1	405.7	354.5	493.6	8402.3	531.9	344.1	419.1	9017.1	
G72.0	8529.1	380.3	341.9	458.3	7953.3	480.2	330.0	390.4	8529.1	
G73.0	7802.6	354.9	328.1	423.0	7426.6	441.7	316.1	364.4	7802.6	

C Plane (°):0.0-360.0: 45.0
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=1.0000]
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	6863.3	329.1	315.1	393.5	6789.0	410.0	300.4	335.9	6863.3	
G75.0	5780.3	300.0	300.4	364.9	5968.5	384.4	286.1	310.9	5780.3	
G76.0	4539.6	274.4	285.2	338.3	5122.7	359.2	270.5	285.8	4539.6	
G77.0	3435.3	249.2	268.1	311.8	4241.1	332.2	252.4	258.4	3435.3	
G78.0	2475.8	224.1	249.5	284.5	3272.5	307.1	235.9	235.3	2475.8	
G79.0	1769.3	199.5	229.2	257.6	2468.9	280.7	216.6	212.3	1769.3	
G80.0	1270.8	173.4	209.3	228.6	1798.3	255.6	197.0	189.5	1270.8	
G81.0	868.7	149.9	189.8	204.0	1292.6	230.7	179.9	167.5	868.7	
G82.0	591.6	126.5	168.3	179.2	945.9	203.1	162.4	142.4	591.6	
G83.0	409.0	101.1	146.7	154.7	673.8	179.7	144.3	117.3	409.0	
G84.0	302.5	79.9	123.7	128.8	480.9	154.4	125.3	95.8	302.5	
G85.0	196.1	64.1	100.0	100.8	354.6	127.1	105.5	78.9	196.1	
G86.0	115.9	46.4	74.7	79.1	277.9	99.7	82.8	63.2	115.9	
G87.0	47.9	30.6	52.3	61.4	223.9	80.6	62.6	44.1	47.9	
G88.0	22.2	11.7	27.1	46.1	154.7	63.2	42.6	24.1	22.2	
G89.0	22.7	7.6	0.0	28.9	89.8	42.8	22.4	12.8	22.7	
G90.0	23.9	8.3	0.0	10.3	42.6	20.3	7.4	9.8	23.9	
G91.0	24.7	9.2	0.0	0.0	17.3	8.1	0.0	9.0	24.7	
G92.0	25.9	9.9	0.0	0.0	15.8	0.0	0.0	7.7	25.9	
G93.0	27.1	10.7	0.0	0.0	16.9	0.0	0.0	7.6	27.1	
G94.0	27.9	11.2	0.0	0.0	17.4	0.0	0.0	7.4	27.9	
G95.0	29.0	11.7	0.0	0.0	18.5	0.0	0.0	8.0	29.0	
G96.0	30.1	12.2	0.0	0.0	19.5	6.6	0.0	8.7	30.1	
G97.0	31.1	12.2	0.0	6.7	20.1	7.1	0.0	9.2	31.1	
G98.0	31.8	12.9	0.0	7.1	21.0	7.8	0.0	9.7	31.8	
G99.0	32.7	13.9	0.0	8.0	21.6	8.8	0.0	10.2	32.7	
G100.0	33.5	14.7	0.0	8.7	22.7	9.1	0.0	10.7	33.5	
G101.0	34.0	15.0	0.0	9.4	23.0	9.7	0.0	11.0	34.0	
G102.0	35.0	15.8	0.0	10.8	23.9	10.2	0.0	12.0	35.0	
G103.0	35.5	16.2	0.0	11.3	24.3	11.1	0.0	12.5	35.5	
G104.0	35.9	16.8	0.0	12.1	25.0	11.7	0.0	13.0	35.9	
G105.0	36.3	18.0	0.0	13.3	25.1	12.5	0.0	13.6	36.3	
G106.0	37.2	19.0	0.0	14.1	25.3	13.4	0.0	14.3	37.2	
G107.0	37.5	19.8	6.9	14.9	25.8	13.9	0.0	14.4	37.5	
G108.0	37.7	20.6	7.0	15.7	25.1	14.4	6.9	15.7	37.7	
G109.0	38.2	21.0	8.0	16.6	25.6	14.5	7.2	16.2	38.2	
G110.0	38.5	21.8	8.5	17.6	26.7	15.4	7.7	16.9	38.5	

C Plane (°):0.0-360.0: 45.0
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=1.0000]
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	38.8	22.8	9.3	18.1	27.1	15.5	8.3	17.4	38.8	
G112.0	39.3	23.8	9.8	18.9	27.4	16.8	9.0	18.1	39.3	
G113.0	39.5	24.3	10.5	19.7	27.7	17.5	9.6	18.5	39.5	
G114.0	39.8	25.1	10.9	20.5	28.0	18.2	10.1	19.4	39.8	
G115.0	40.1	26.3	11.6	21.2	28.7	19.0	10.8	20.7	40.1	
G116.0	40.9	26.7	12.1	22.2	29.2	19.8	10.9	21.2	40.9	
G117.0	41.3	27.9	13.1	23.3	29.3	20.1	11.9	21.5	41.3	
G118.0	40.9	28.4	13.6	23.8	29.8	21.1	12.3	22.5	40.9	
G119.0	42.2	29.2	14.4	24.8	30.6	21.3	13.2	23.6	42.2	
G120.0	43.0	29.9	15.2	25.6	31.1	22.3	13.7	23.8	43.0	
G121.0	43.5	30.9	15.8	26.4	31.6	23.0	13.9	24.3	43.5	
G122.0	43.7	31.7	16.3	27.1	31.8	23.8	14.5	24.8	43.7	
G123.0	43.8	32.2	17.1	27.9	32.2	24.3	15.0	25.3	43.8	
G124.0	44.3	32.7	18.1	28.7	32.4	25.1	15.7	25.6	44.3	
G125.0	44.6	33.5	18.5	29.5	33.2	25.6	16.5	25.9	44.6	
G126.0	45.0	34.2	19.8	30.4	33.7	26.3	16.8	26.7	45.0	
G127.0	45.1	34.5	20.6	31.0	34.2	26.7	17.8	27.4	45.1	
G128.0	45.6	35.2	21.1	31.8	34.5	27.2	18.6	27.9	45.6	
G129.0	45.8	35.7	22.1	32.7	35.3	27.7	19.4	28.5	45.8	
G130.0	46.3	36.5	22.7	33.6	35.9	28.6	20.1	28.7	46.3	
G131.0	47.1	37.2	23.9	34.3	36.9	29.4	20.4	29.4	47.1	
G132.0	47.4	38.0	24.8	34.8	37.7	29.7	21.1	30.0	47.4	
G133.0	47.9	38.3	25.5	35.8	38.2	30.2	21.9	30.5	47.9	
G134.0	48.3	38.8	26.1	36.3	38.8	30.9	22.4	30.9	48.3	
G135.0	48.8	39.8	27.0	37.1	39.7	31.9	23.2	32.0	48.8	
G136.0	49.3	40.1	27.8	37.6	40.3	32.0	23.7	32.0	49.3	
G137.0	50.1	41.0	28.8	38.1	41.3	32.7	24.5	32.5	50.1	
G138.0	50.6	41.6	29.9	38.7	41.9	33.2	25.6	33.1	50.6	
G139.0	51.4	41.9	30.9	39.2	42.9	33.5	26.6	34.1	51.4	
G140.0	52.1	42.3	32.0	39.7	43.4	34.2	27.1	34.8	52.1	
G141.0	52.4	42.9	32.7	40.4	44.2	34.8	27.9	35.4	52.4	
G142.0	53.0	43.4	33.3	41.0	44.5	35.3	28.4	35.9	53.0	
G143.0	53.2	43.6	34.3	41.4	45.4	35.8	28.9	36.9	53.2	
G144.0	53.5	44.4	34.6	42.2	45.8	36.7	29.9	37.1	53.5	
G145.0	53.8	44.6	35.5	42.3	46.1	37.0	30.7	37.9	53.8	
G146.0	54.0	45.4	36.8	43.0	46.4	37.6	31.5	38.7	54.0	
G147.0	54.3	45.4	37.6	43.2	46.6	38.0	32.2	39.5	54.3	

C Plane (°):0.0-360.0: 45.0
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=1.0000]
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	54.2	46.2	38.2	43.8	46.7	38.5	33.2	40.2	54.2	
G149.0	54.2	46.6	39.0	44.6	46.9	39.1	34.0	40.4	54.2	
G150.0	54.5	46.7	39.7	44.1	47.1	39.8	35.0	41.2	54.5	
G151.0	54.2	47.7	40.8	45.6	47.1	40.5	36.1	41.5	54.2	
G152.0	54.0	48.2	41.7	45.9	47.5	40.8	35.8	42.3	54.0	
G153.0	54.3	48.4	42.5	46.3	48.2	41.8	37.4	43.2	54.3	
G154.0	54.3	48.7	43.1	46.8	48.2	42.1	38.4	44.0	54.3	
G155.0	54.3	49.2	44.6	46.9	48.5	42.6	39.4	44.5	54.3	
G156.0	54.5	49.7	45.3	47.3	48.3	43.3	40.4	45.1	54.5	
G157.0	54.6	50.0	45.6	47.9	48.3	44.3	41.3	45.9	54.6	
G158.0	54.3	50.5	46.2	48.4	48.7	44.9	42.5	46.8	54.3	
G159.0	54.0	50.7	46.9	48.6	48.7	45.6	43.0	47.7	54.0	
G160.0	54.5	51.0	47.9	48.9	49.0	46.2	43.5	47.7	54.5	
G161.0	54.2	51.5	47.9	48.9	49.2	46.7	44.8	48.2	54.2	
G162.0	54.3	51.8	48.7	49.1	49.3	47.4	45.4	48.9	54.3	
G163.0	54.3	51.0	48.8	49.4	49.3	47.6	46.2	49.1	54.3	
G164.0	54.3	52.2	49.2	50.0	49.6	48.2	46.6	49.2	54.3	
G165.0	54.0	52.4	49.8	50.0	49.6	48.7	47.4	49.6	54.0	
G166.0	54.0	52.5	50.2	50.4	49.8	49.4	47.7	50.0	54.0	
G167.0	54.2	52.7	50.8	50.2	50.0	49.4	47.2	50.2	54.2	
G168.0	54.3	52.8	50.8	50.5	50.3	49.7	48.7	50.5	54.3	
G169.0	54.0	53.0	51.1	50.5	50.0	50.0	49.0	51.0	54.0	
G170.0	54.2	53.7	51.1	51.0	50.4	50.5	49.0	51.2	54.2	
G171.0	53.7	53.3	50.8	51.2	50.1	50.7	49.3	51.5	53.7	
G172.0	54.3	53.2	51.6	51.2	50.4	50.7	50.2	51.7	54.3	
G173.0	54.2	53.5	51.6	51.5	50.4	51.3	50.2	52.0	54.2	
G174.0	53.7	53.8	51.6	51.2	50.4	51.3	50.5	52.3	53.7	
G175.0	54.0	53.7	51.8	51.4	50.8	51.5	50.8	52.2	54.0	
G176.0	53.5	53.5	52.1	51.4	50.8	52.0	51.0	52.3	53.5	
G177.0	53.5	53.7	52.1	51.7	50.8	52.4	51.5	52.8	53.5	
G178.0	53.3	53.8	52.4	51.2	51.3	52.7	51.3	52.7	53.3	
G179.0	52.9	53.3	52.0	51.5	51.4	53.2	51.8	52.5	52.9	
G180.0	52.5	53.7	52.0	51.5	51.9	53.3	52.6	53.3	52.5	

C Plane (°):0.0-360.0: 45.0
 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=1.0000]
 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