

Report No.: TH-2902A

Test Time: 2021/12/28 16:27

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 1.008 A
Power Factor: 0.965

Luminaire Description: 39779BCPC
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 109.7 V
Power: 106.59 W

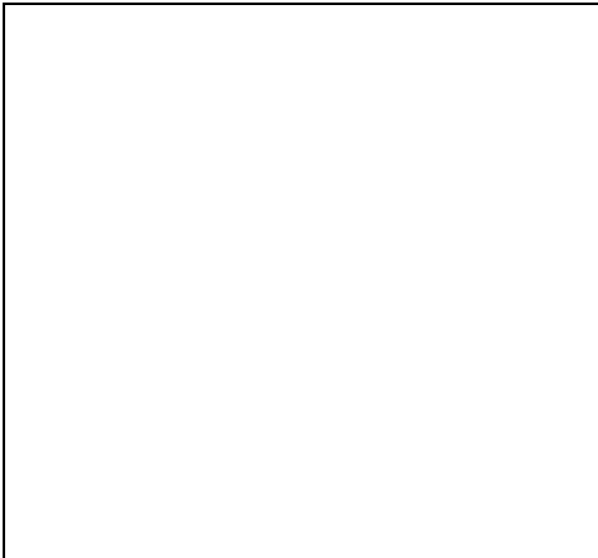
Photometric Results

CIE Class: Semi-Direct
Measurement Flux: 8937.5 lm
Downward Ratio: 88%
Horizontal Diffuse Angle(50%): H59.1
Vertical Diffuse Angle(50%): V60
Luminaire Efficacy Rating (LER): 83.90
Max. Intensity: 4331.31 cd
S/MH(C0/C180): 0.63

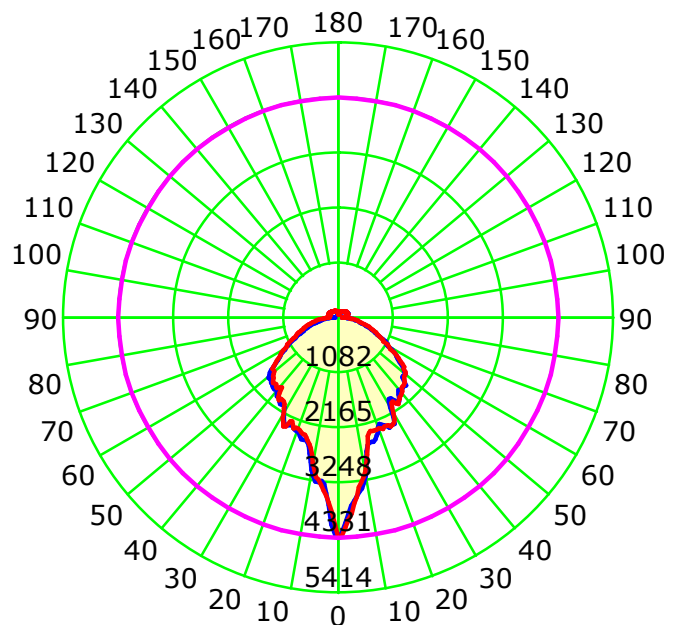
Total Rated Lamp Lumens: 8937.5 lm
Efficiency: 100%
Upward Ratio: 12%

C0r0 Intensity: 4331.31 cd
Pos of Max. Intensity: H0 V0
S/MH(C90/C270): 0.53

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

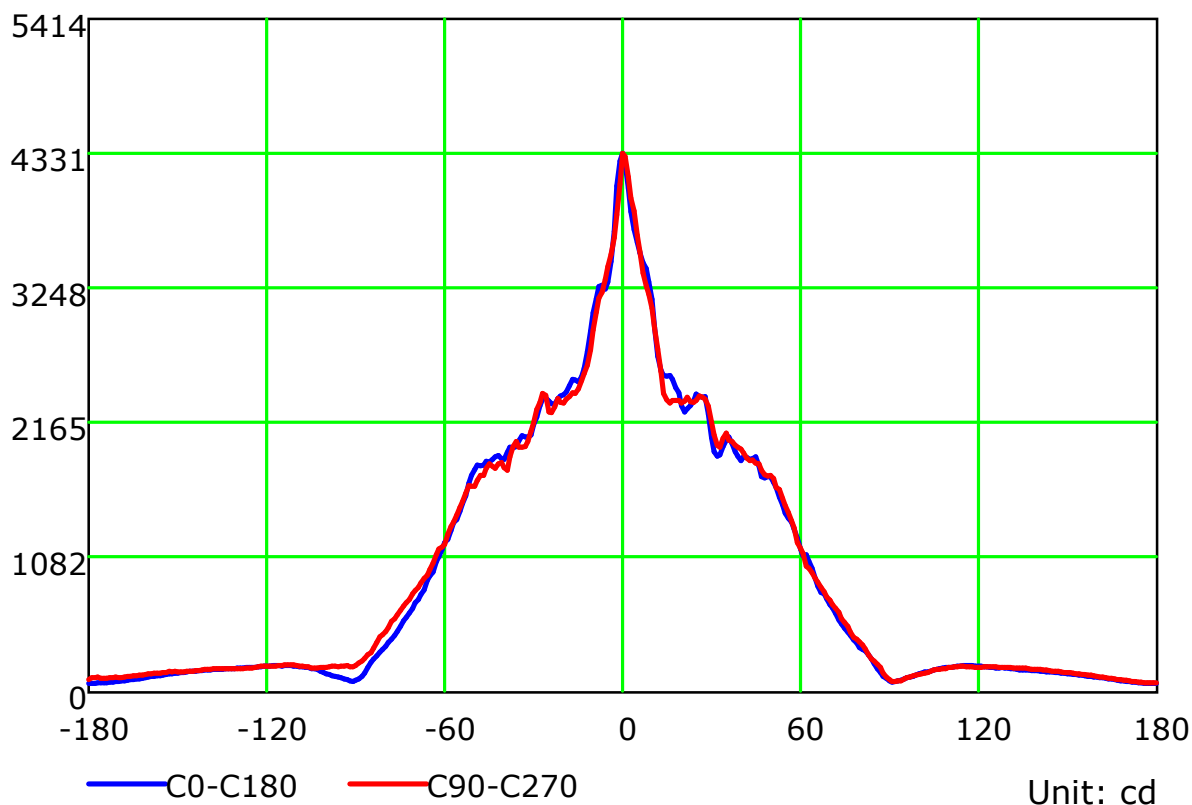
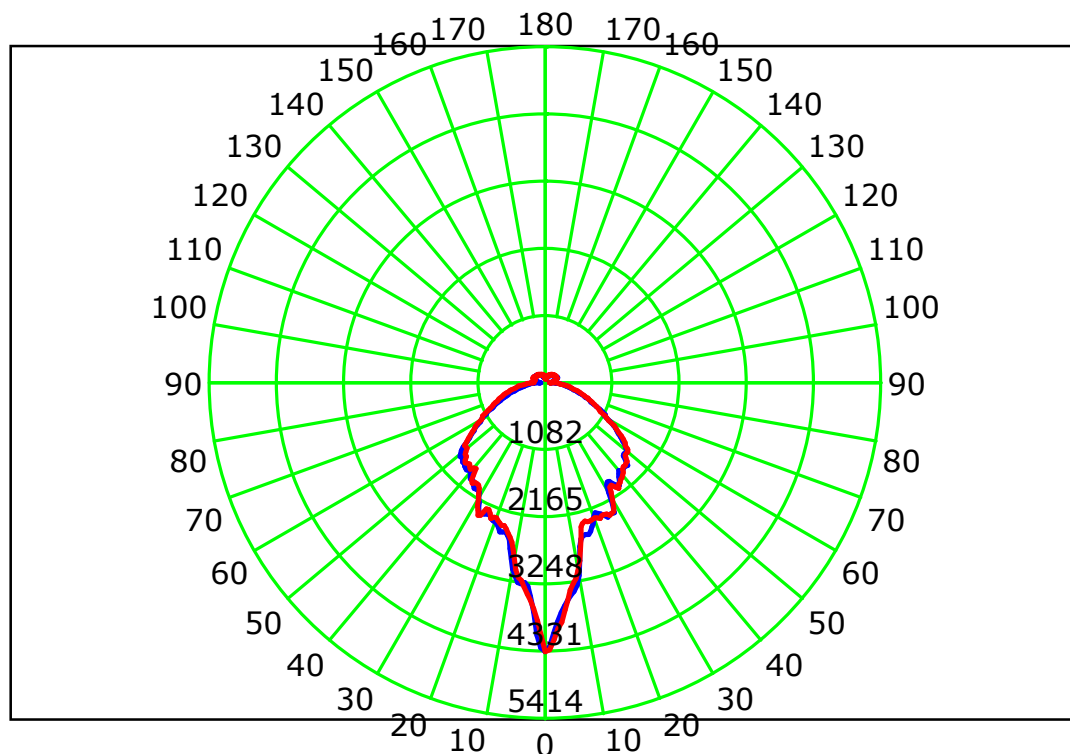
Average Diffuse Angle(50%): 59.6°

— C0-C180 — C90-C270 — G0

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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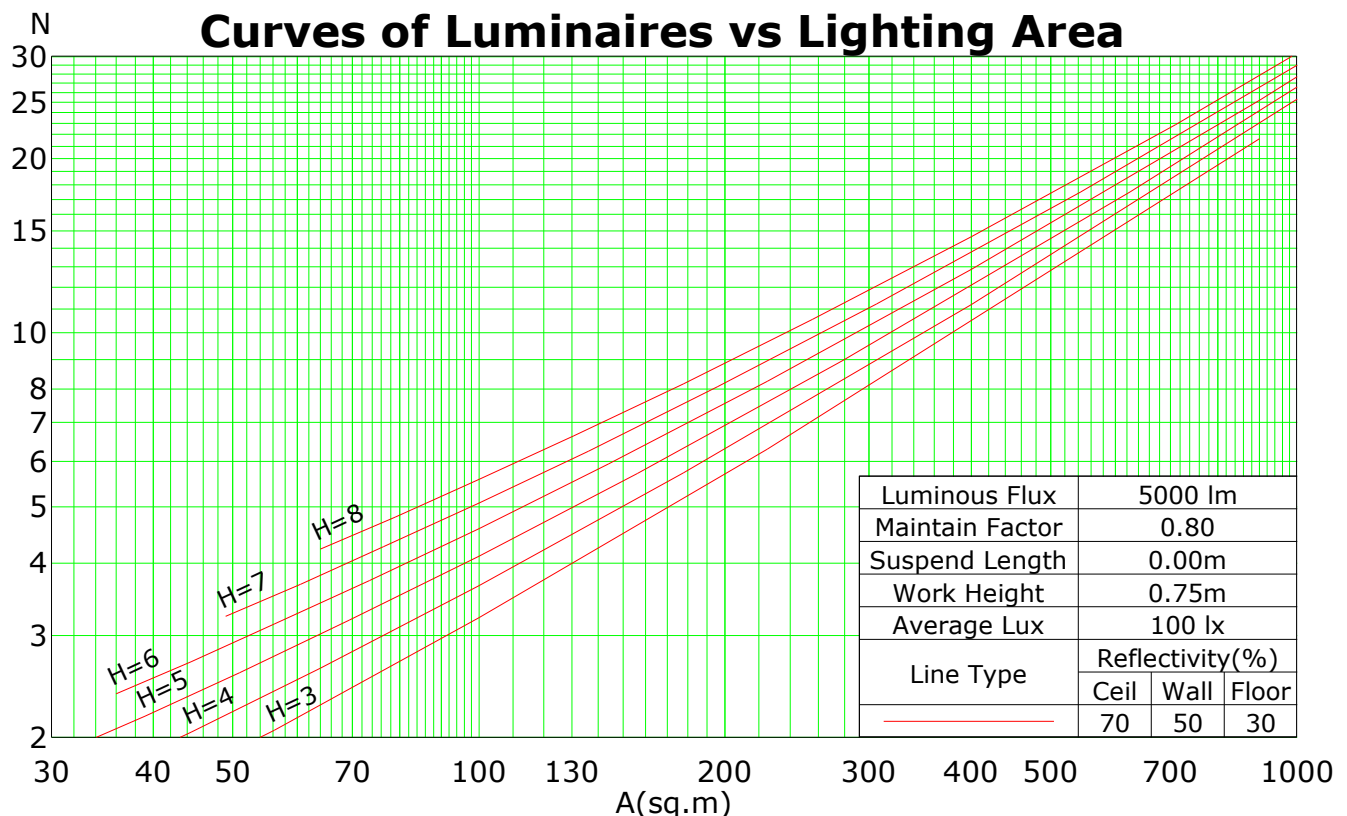
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.16	1.16	1.16	1.16	1.12	1.12	1.12	1.12	1.05	1.05	1.05	0.98	0.98	0.98	0.91	0.91	0.91	0.88
1	1.05	1.01	0.96	0.92	1.02	0.97	0.93	0.89	0.91	0.87	0.84	0.85	0.82	0.80	0.79	0.77	0.75	0.73
2	0.96	0.87	0.80	0.75	0.92	0.84	0.78	0.73	0.79	0.74	0.69	0.74	0.70	0.66	0.69	0.66	0.63	0.60
3	0.87	0.77	0.68	0.62	0.84	0.74	0.67	0.61	0.69	0.63	0.58	0.65	0.60	0.55	0.61	0.57	0.53	0.50
4	0.80	0.68	0.59	0.52	0.77	0.66	0.58	0.51	0.62	0.55	0.49	0.58	0.52	0.47	0.54	0.50	0.46	0.43
5	0.73	0.60	0.52	0.45	0.70	0.59	0.50	0.44	0.55	0.48	0.43	0.52	0.46	0.41	0.49	0.44	0.40	0.37
6	0.68	0.54	0.45	0.39	0.65	0.53	0.45	0.38	0.50	0.43	0.37	0.47	0.41	0.36	0.44	0.39	0.35	0.32
7	0.63	0.49	0.41	0.34	0.60	0.48	0.40	0.34	0.45	0.38	0.33	0.43	0.37	0.32	0.41	0.35	0.31	0.29
8	0.58	0.45	0.36	0.31	0.56	0.44	0.36	0.30	0.41	0.34	0.29	0.39	0.33	0.29	0.37	0.32	0.28	0.26
9	0.54	0.41	0.33	0.28	0.52	0.40	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.34	0.29	0.25	0.23
10	0.51	0.38	0.30	0.25	0.49	0.37	0.30	0.25	0.35	0.29	0.24	0.34	0.28	0.23	0.32	0.27	0.23	0.21

Spacing Criteria (0-180): 0.63

Spacing Criteria (90-270): 0.53

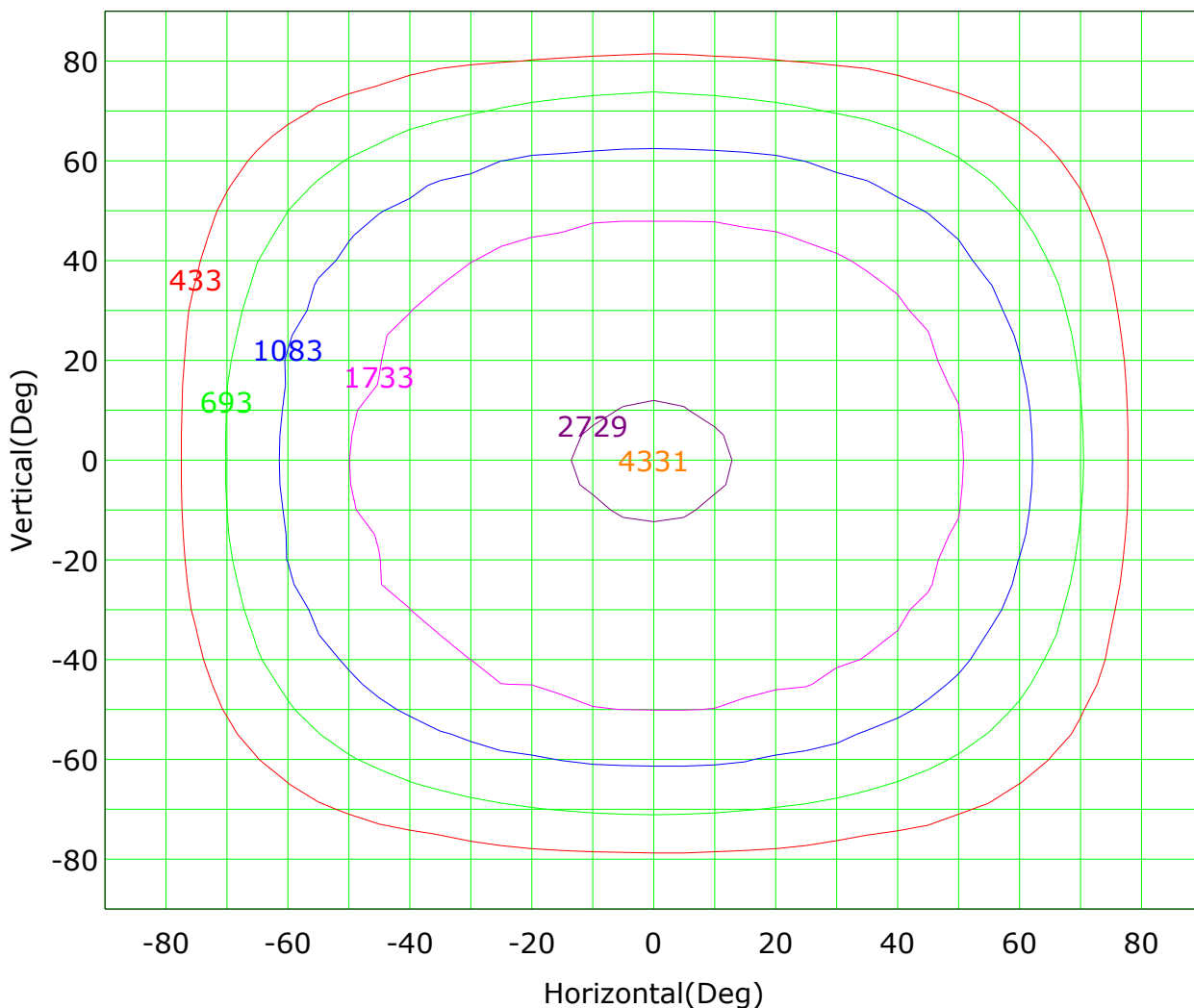
Spacing Criteria (Diagonal): 1.01



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:

Isocandela (rectangle)



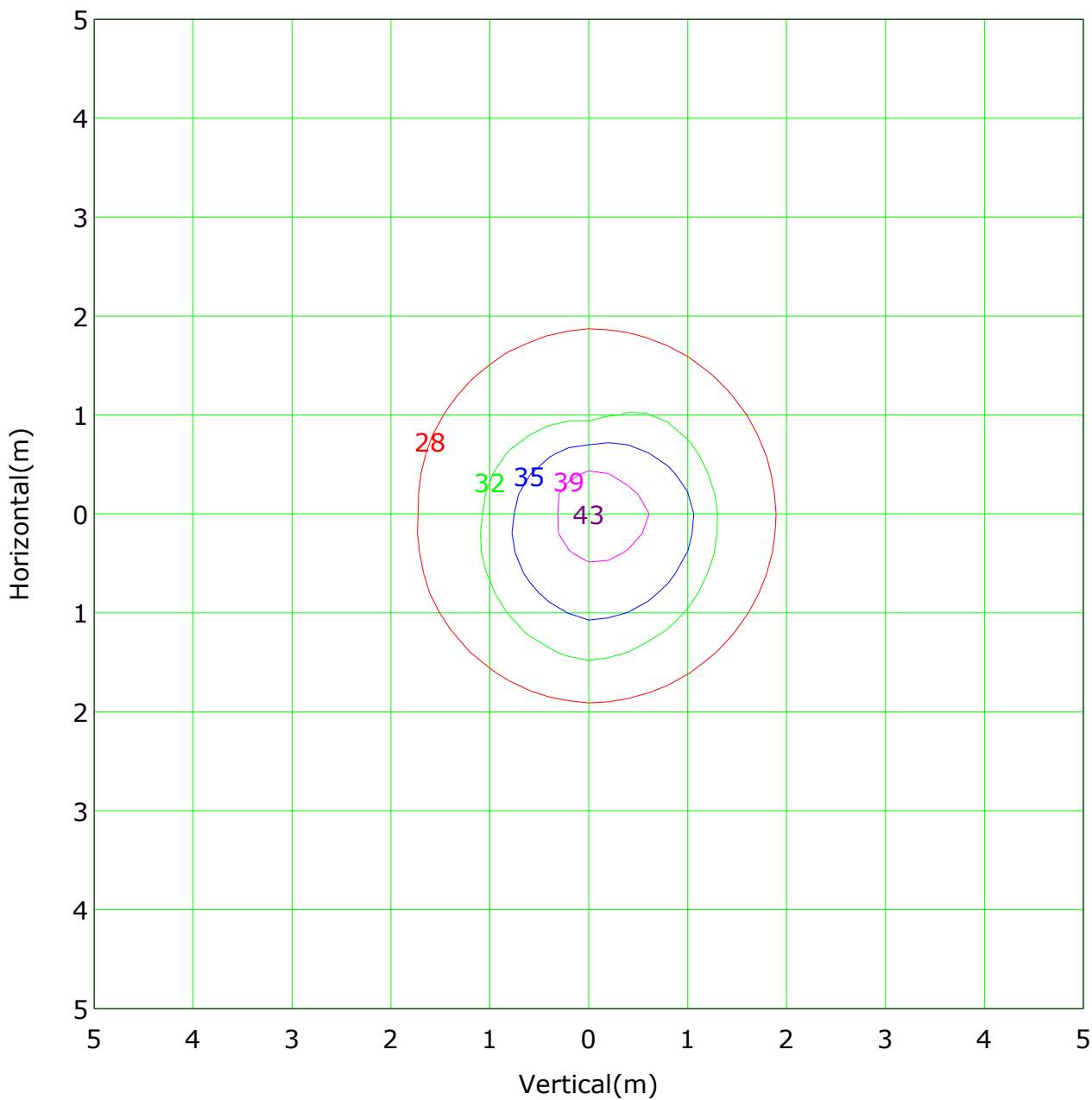
Imax (100%): 4331 cd

(10%): 433 cd	(16%): 693 cd
(25%): 1083 cd	(40%): 1733 cd
(63%): 2729 cd	(100%): 4331 cd

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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 43.3 lx

(65%): 28.2 lx	(75%): 32.5 lx
(80%): 34.7 lx	(90%): 39.0 lx
(100%): 43.3 lx	

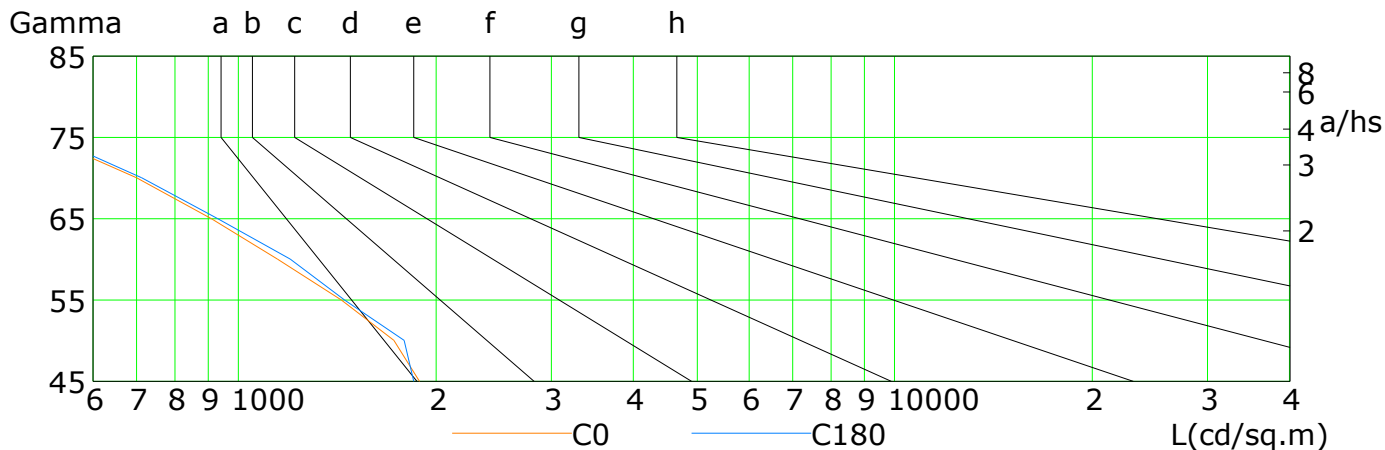
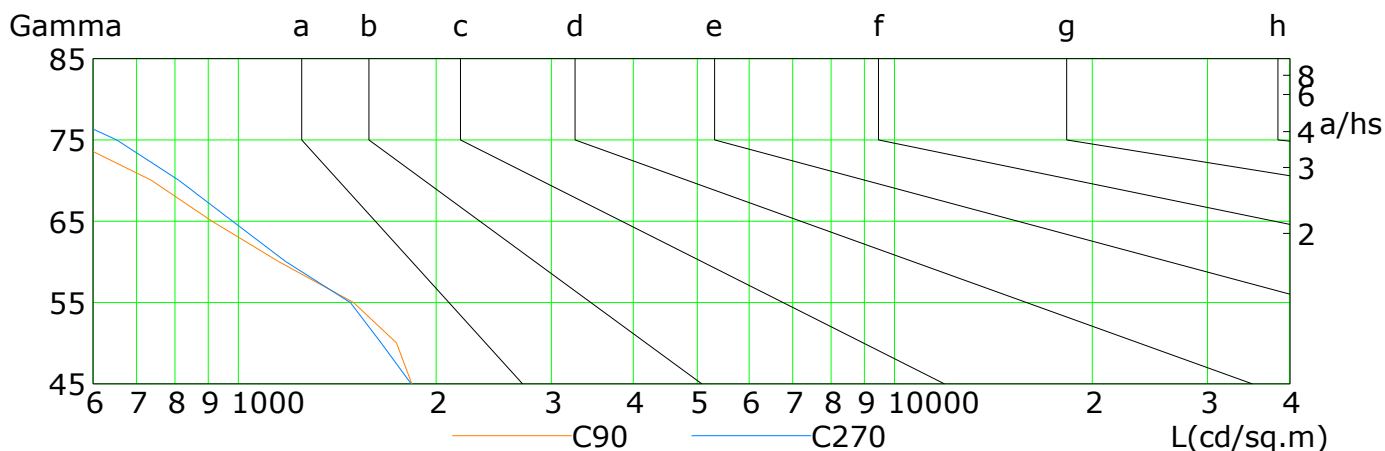
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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

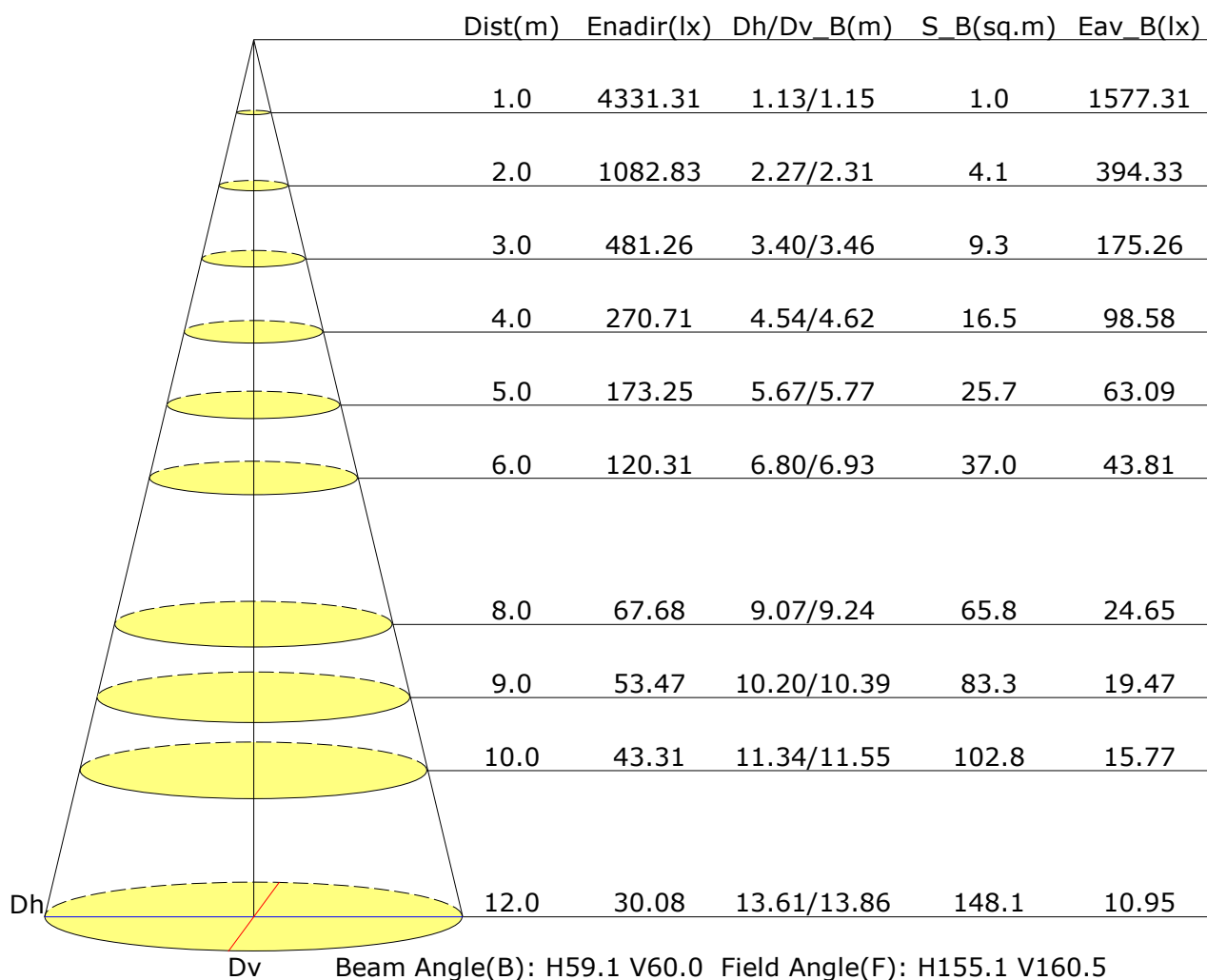


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1890	1727	1436	1147	911	700	510	351	223
C90	1838	1740	1499	1152	912	736	554	399	244
C180	1851	1788	1453	1199	930	712	523	366	236
C270	1833	1652	1482	1181	980	812	652	482	313

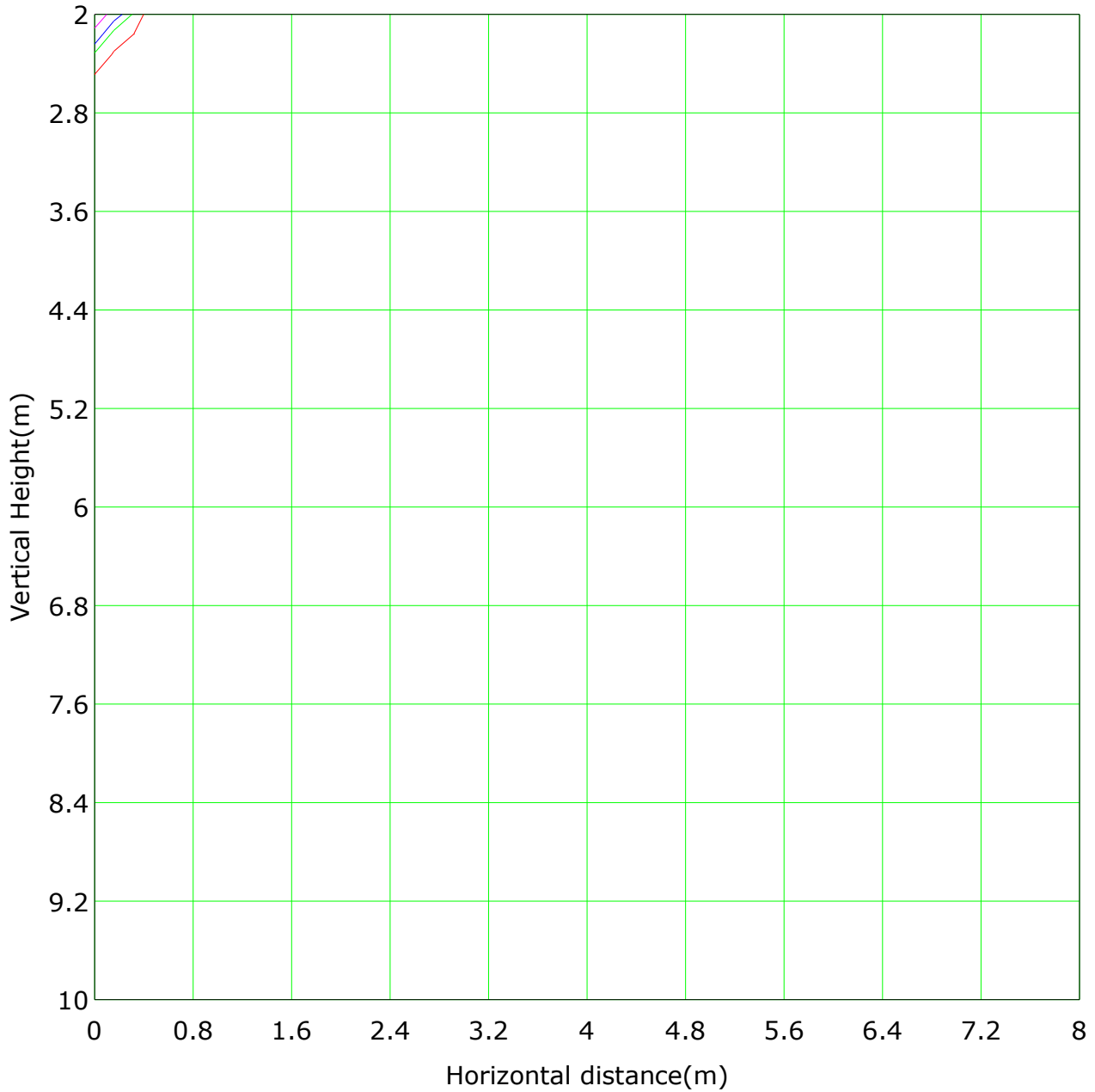
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Illuminance at a Distance

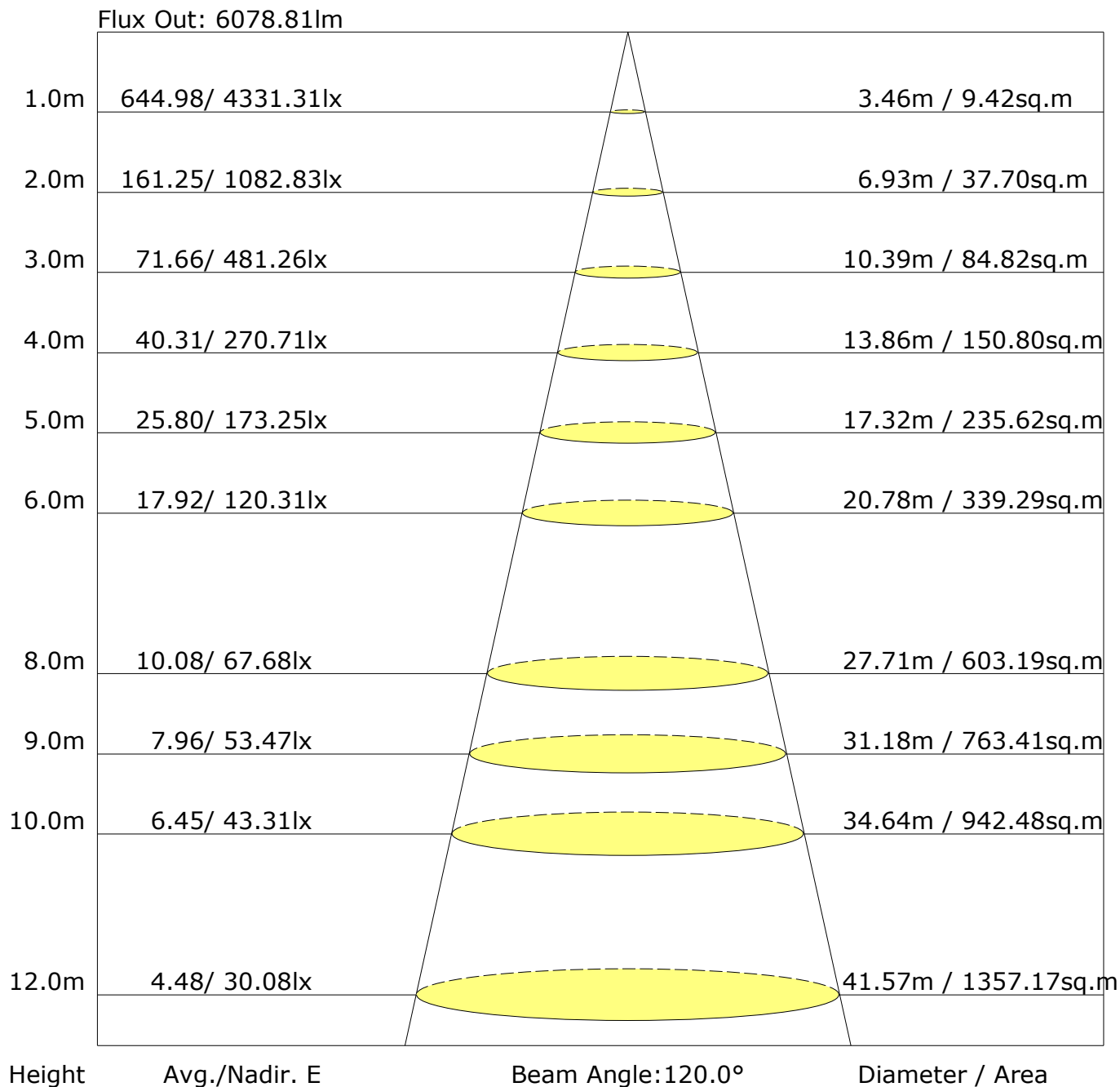


Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 10.0m Max Lux: 1082.8 lx
— (65%): 703.8 lx — (75%): 812.1 lx
— (80%): 866.3 lx — (90%): 974.5 lx
— (100%):1082.8 lx

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 8938lm ($8\log(F/F_0) = 7.6$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	4280.7	4.1	4.1	0.05	0.05
1.0-2.0	4128.8	11.9	15.9	0.13	0.18
2.0-3.0	3913.1	18.7	34.7	0.21	0.39
3.0-4.0	3719.9	24.9	59.6	0.28	0.67
4.0-5.0	3572.3	30.7	90.3	0.34	1.01
5.0-6.0	3456.5	36.3	126.6	0.41	1.42
6.0-7.0	3368.6	41.8	168.5	0.47	1.88
7.0-8.0	3301.4	47.3	215.7	0.53	2.41
8.0-9.0	3226.7	52.3	268.0	0.59	3.00
9.0-10.0	3114.7	56.4	324.4	0.63	3.63
10.0-11.0	2964.1	59.2	383.6	0.66	4.29
11.0-12.0	2790.9	61.0	444.6	0.68	4.97
12.0-13.0	2642.5	62.7	507.4	0.70	5.68
13.0-14.0	2538.6	65.0	572.3	0.73	6.40
14.0-15.0	2475.8	68.0	640.3	0.76	7.16
15.0-16.0	2449.7	71.8	712.1	0.80	7.97
16.0-17.0	2444.0	76.1	788.2	0.85	8.82
17.0-18.0	2424.8	80.0	868.2	0.89	9.71
18.0-19.0	2391.7	83.2	951.4	0.93	10.65
19.0-20.0	2355.8	86.2	1037.6	0.96	11.61
20.0-21.0	2328.9	89.4	1127.1	1.00	12.61
21.0-22.0	2331.9	93.7	1220.8	1.05	13.66
22.0-23.0	2325.1	97.6	1318.4	1.09	14.75
23.0-24.0	2309.1	101.0	1419.3	1.13	15.88
24.0-25.0	2320.3	105.5	1524.9	1.18	17.06
25.0-26.0	2353.7	111.1	1636.0	1.24	18.30
26.0-27.0	2374.3	116.2	1752.2	1.30	19.60
27.0-28.0	2355.5	119.3	1871.4	1.33	20.94
28.0-29.0	2295.1	120.1	1991.5	1.34	22.28
29.0-30.0	2192.3	118.4	2109.9	1.32	23.61
30.0-31.0	2086.2	116.1	2226.0	1.30	24.91
31.0-32.0	2012.8	115.3	2341.3	1.29	26.20
32.0-33.0	1979.2	116.6	2458.0	1.30	27.50
33.0-34.0	1991.4	120.5	2578.5	1.35	28.85
34.0-35.0	2016.4	125.2	2703.7	1.40	30.25
35.0-36.0	2019.3	128.6	2832.3	1.44	31.69

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Test Device: GPM-1800B
Distance: 8.508 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	2001.4	130.5	2962.9	1.46	33.15
37.0-38.0	1964.4	131.1	3094.0	1.47	34.62
38.0-39.0	1916.5	130.8	3224.8	1.46	36.08
39.0-40.0	1881.1	131.2	3356.0	1.47	37.55
40.0-41.0	1876.4	133.6	3489.7	1.50	39.05
41.0-42.0	1877.8	136.4	3626.1	1.53	40.57
42.0-43.0	1864.1	138.1	3764.2	1.55	42.12
43.0-44.0	1854.7	140.0	3904.2	1.57	43.68
44.0-45.0	1853.6	142.5	4046.7	1.59	45.28
45.0-46.0	1839.4	143.9	4190.6	1.61	46.89
46.0-47.0	1797.4	143.0	4333.5	1.60	48.49
47.0-48.0	1761.9	142.4	4476.0	1.59	50.08
48.0-49.0	1750.4	143.8	4619.8	1.61	51.69
49.0-50.0	1736.5	144.8	4764.6	1.62	53.31
50.0-51.0	1712.6	144.9	4909.5	1.62	54.93
51.0-52.0	1677.1	143.9	5053.4	1.61	56.54
52.0-53.0	1623.6	141.3	5194.7	1.58	58.12
53.0-54.0	1559.0	137.4	5332.1	1.54	59.66
54.0-55.0	1497.2	133.7	5465.8	1.50	61.16
55.0-56.0	1439.2	130.1	5595.8	1.46	62.61
56.0-57.0	1387.3	126.9	5722.7	1.42	64.03
57.0-58.0	1337.9	123.7	5846.4	1.38	65.41
58.0-59.0	1271.9	118.9	5965.3	1.33	66.74
59.0-60.0	1200.9	113.5	6078.8	1.27	68.01
60.0-61.0	1148.7	109.6	6188.4	1.23	69.24
61.0-62.0	1106.2	106.6	6295.1	1.19	70.43
62.0-63.0	1064.9	103.6	6398.6	1.16	71.59
63.0-64.0	1015.6	99.7	6498.3	1.12	72.71
64.0-65.0	959.8	95.0	6593.3	1.06	73.77
65.0-66.0	911.1	90.9	6684.2	1.02	74.79
66.0-67.0	864.9	87.0	6771.2	0.97	75.76
67.0-68.0	825.8	83.7	6854.9	0.94	76.70
68.0-69.0	790.5	80.7	6935.5	0.90	77.60
69.0-70.0	755.2	77.6	7013.1	0.87	78.47
70.0-71.0	722.8	74.7	7087.8	0.84	79.30
71.0-72.0	686.5	71.4	7159.2	0.80	80.10

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Test Device: GPM-1800B
Distance: 8.508 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	648.7	67.8	7227.0	0.76	80.86
73.0-74.0	614.1	64.6	7291.6	0.72	81.58
74.0-75.0	578.9	61.2	7352.8	0.68	82.27
75.0-76.0	542.6	57.6	7410.4	0.64	82.91
76.0-77.0	508.2	54.2	7464.6	0.61	83.52
77.0-78.0	475.5	50.9	7515.5	0.57	84.09
78.0-79.0	445.1	47.8	7563.3	0.54	84.62
79.0-80.0	414.8	44.7	7608.1	0.50	85.12
80.0-81.0	388.0	42.0	7650.0	0.47	85.59
81.0-82.0	366.6	39.8	7689.8	0.44	86.04
82.0-83.0	337.4	36.7	7726.5	0.41	86.45
83.0-84.0	299.7	32.7	7759.1	0.37	86.81
84.0-85.0	267.6	29.2	7788.3	0.33	87.14
85.0-86.0	237.9	26.0	7814.3	0.29	87.43
86.0-87.0	205.3	22.5	7836.8	0.25	87.68
87.0-88.0	173.5	19.0	7855.8	0.21	87.90
88.0-89.0	148.4	16.3	7872.1	0.18	88.08
89.0-90.0	129.0	14.1	7886.2	0.16	88.24
90.0-91.0	114.0	12.5	7898.7	0.14	88.38
91.0-92.0	109.3	12.0	7910.7	0.13	88.51
92.0-93.0	113.9	12.5	7923.2	0.14	88.65
93.0-94.0	118.5	13.0	7936.2	0.15	88.80
94.0-95.0	123.9	13.5	7949.7	0.15	88.95
95.0-96.0	131.7	14.4	7964.1	0.16	89.11
96.0-97.0	136.8	14.9	7979.0	0.17	89.27
97.0-98.0	141.2	15.4	7994.3	0.17	89.45
98.0-99.0	146.6	15.9	8010.2	0.18	89.62
99.0-100.0	151.3	16.4	8026.6	0.18	89.81
100.0-101.0	155.9	16.8	8043.4	0.19	90.00
101.0-102.0	161.4	17.3	8060.7	0.19	90.19
102.0-103.0	166.9	17.9	8078.6	0.20	90.39
103.0-104.0	172.0	18.3	8096.9	0.21	90.59
104.0-105.0	176.9	18.8	8115.7	0.21	90.80
105.0-106.0	182.3	19.3	8135.0	0.22	91.02
106.0-107.0	186.8	19.6	8154.6	0.22	91.24
107.0-108.0	190.5	19.9	8174.5	0.22	91.46

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

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	194.1	20.2	8194.7	0.23	91.69
109.0-110.0	197.4	20.4	8215.1	0.23	91.92
110.0-111.0	200.6	20.6	8235.7	0.23	92.15
111.0-112.0	203.1	20.7	8256.5	0.23	92.38
112.0-113.0	205.2	20.8	8277.2	0.23	92.61
113.0-114.0	206.6	20.8	8298.0	0.23	92.84
114.0-115.0	206.9	20.7	8318.7	0.23	93.08
115.0-116.0	206.2	20.4	8339.1	0.23	93.30
116.0-117.0	205.2	20.1	8359.2	0.23	93.53
117.0-118.0	204.7	19.9	8379.1	0.22	93.75
118.0-119.0	203.3	19.6	8398.7	0.22	93.97
119.0-120.0	201.7	19.3	8418.0	0.22	94.19
120.0-121.0	201.3	19.0	8437.0	0.21	94.40
121.0-122.0	200.9	18.8	8455.8	0.21	94.61
122.0-123.0	199.6	18.5	8474.2	0.21	94.82
123.0-124.0	196.9	18.0	8492.3	0.20	95.02
124.0-125.0	194.2	17.6	8509.8	0.20	95.21
125.0-126.0	192.6	17.2	8527.0	0.19	95.41
126.0-127.0	191.6	16.9	8543.9	0.19	95.60
127.0-128.0	190.6	16.6	8560.5	0.19	95.78
128.0-129.0	189.6	16.3	8576.8	0.18	95.96
129.0-130.0	188.4	15.9	8592.7	0.18	96.14
130.0-131.0	187.2	15.6	8608.3	0.17	96.32
131.0-132.0	185.6	15.2	8623.5	0.17	96.49
132.0-133.0	183.7	14.9	8638.4	0.17	96.65
133.0-134.0	182.2	14.5	8652.9	0.16	96.82
134.0-135.0	180.7	14.1	8667.0	0.16	96.97
135.0-136.0	179.5	13.8	8680.8	0.15	97.13
136.0-137.0	178.9	13.5	8694.3	0.15	97.28
137.0-138.0	178.2	13.2	8707.5	0.15	97.43
138.0-139.0	176.0	12.8	8720.3	0.14	97.57
139.0-140.0	173.4	12.3	8732.7	0.14	97.71
140.0-141.0	171.9	12.0	8744.7	0.13	97.84
141.0-142.0	170.4	11.6	8756.3	0.13	97.97
142.0-143.0	168.0	11.2	8767.5	0.13	98.10
143.0-144.0	165.3	10.8	8778.3	0.12	98.22

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	162.8	10.4	8788.7	0.12	98.33
145.0-146.0	160.8	10.0	8798.7	0.11	98.45
146.0-147.0	158.9	9.6	8808.3	0.11	98.55
147.0-148.0	156.0	9.2	8817.5	0.10	98.66
148.0-149.0	152.9	8.8	8826.2	0.10	98.75
149.0-150.0	150.8	8.4	8834.6	0.09	98.85
150.0-151.0	150.2	8.1	8842.7	0.09	98.94
151.0-152.0	148.8	7.8	8850.5	0.09	99.03
152.0-153.0	146.2	7.4	8857.9	0.08	99.11
153.0-154.0	143.0	7.0	8864.9	0.08	99.19
154.0-155.0	139.5	6.6	8871.5	0.07	99.26
155.0-156.0	136.4	6.2	8877.7	0.07	99.33
156.0-157.0	133.4	5.8	8883.5	0.07	99.40
157.0-158.0	130.8	5.5	8889.0	0.06	99.46
158.0-159.0	127.9	5.1	8894.2	0.06	99.51
159.0-160.0	124.5	4.8	8898.9	0.05	99.57
160.0-161.0	121.0	4.4	8903.4	0.05	99.62
161.0-162.0	117.7	4.1	8907.5	0.05	99.66
162.0-163.0	114.3	3.8	8911.2	0.04	99.71
163.0-164.0	110.8	3.5	8914.7	0.04	99.74
164.0-165.0	107.6	3.2	8917.8	0.04	99.78
165.0-166.0	104.4	2.9	8920.7	0.03	99.81
166.0-167.0	100.9	2.6	8923.3	0.03	99.84
167.0-168.0	97.4	2.3	8925.6	0.03	99.87
168.0-169.0	94.3	2.1	8927.7	0.02	99.89
169.0-170.0	92.0	1.8	8929.5	0.02	99.91
170.0-171.0	90.0	1.6	8931.1	0.02	99.93
171.0-172.0	87.8	1.4	8932.6	0.02	99.94
172.0-173.0	85.2	1.2	8933.8	0.01	99.96
173.0-174.0	82.8	1.0	8934.8	0.01	99.97
174.0-175.0	80.4	0.8	8935.7	0.01	99.98
175.0-176.0	78.6	0.7	8936.3	0.01	99.99
176.0-177.0	78.6	0.5	8936.9	0.01	99.99
177.0-178.0	78.7	0.4	8937.2	0.00	100.00
178.0-179.0	78.1	0.2	8937.5	0.00	100.00
179.0-180.0	75.7	0.1	8937.5	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°): 4046.70 lm

%lum = 45.3%

%lamp = 45.3%

cone flux(120°): 6078.81 lm

%lum = 68.0%

%lamp = 68.0%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	4331.3	4331.3	4331.3	4331.3	4331.3					
G1.0	4252.2	4310.3	4271.4	4086.5	4252.2					
G2.0	4054.4	4144.1	4071.9	3839.6	4054.4					
G3.0	3864.5	3972.3	3706.5	3651.2	3864.5					
G4.0	3717.9	3869.1	3460.6	3517.0	3717.9					
G5.0	3619.6	3676.0	3297.9	3420.5	3619.6					
G6.0	3535.4	3545.6	3240.6	3316.2	3535.4					
G7.0	3454.3	3371.8	3270.3	3214.5	3454.3					
G8.0	3404.0	3268.2	3259.4	3168.5	3404.0					
G9.0	3299.6	3198.9	3161.6	3053.3	3299.6					
G10.0	3160.0	3083.6	3052.4	2908.2	3160.0					
G11.0	2931.1	2927.0	2898.9	2751.8	2931.1					
G12.0	2700.1	2757.0	2735.0	2626.5	2700.1					
G13.0	2584.1	2575.8	2603.1	2558.7	2584.1					
G14.0	2546.6	2402.0	2535.9	2502.2	2546.6					
G15.0	2538.2	2350.1	2492.6	2438.7	2538.2					
G16.0	2546.6	2322.9	2508.2	2400.2	2546.6					
G17.0	2511.5	2341.4	2513.9	2407.0	2511.5					
G18.0	2445.7	2342.2	2460.4	2376.7	2445.7					
G19.0	2404.2	2342.7	2408.1	2353.7	2404.2					
G20.0	2300.7	2323.7	2391.8	2321.2	2300.7					
G21.0	2249.6	2339.3	2377.2	2327.7	2249.6					
G22.0	2277.0	2368.6	2356.8	2359.3	2277.0					
G23.0	2302.2	2334.7	2312.3	2289.7	2302.2					
G24.0	2339.5	2330.5	2318.9	2244.8	2339.5					
G25.0	2393.6	2343.3	2339.5	2252.4	2393.6					
G26.0	2374.2	2381.7	2362.6	2382.2	2374.2					
G27.0	2369.0	2370.6	2351.3	2402.4	2369.0					
G28.0	2372.4	2352.4	2299.9	2325.8	2372.4					
G29.0	2235.3	2295.9	2210.0	2269.1	2235.3					
G30.0	2047.0	2168.8	2149.1	2163.0	2047.0					
G31.0	1932.4	2064.1	2066.9	2098.5	1932.4					
G32.0	1895.8	1983.4	2047.9	2013.1	1895.8					
G33.0	1903.6	1968.8	2047.8	1972.8	1903.6					
G34.0	1973.3	2037.3	2058.4	1968.9	1973.3					
G35.0	2023.0	2083.1	2020.5	1966.5	2023.0					
G36.0	2049.3	2025.0	1974.1	2012.5	2049.3					

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 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	1999.9	2015.8	1963.6	1970.7	1999.9					
G38.0	1929.6	1981.5	1966.3	1887.9	1929.6					
G39.0	1892.8	1968.8	1924.9	1779.8	1892.8					
G40.0	1857.5	1950.4	1870.7	1803.7	1857.5					
G41.0	1890.5	1920.8	1872.5	1844.9	1890.5					
G42.0	1883.5	1878.2	1900.2	1831.6	1883.5					
G43.0	1870.6	1859.6	1890.1	1799.2	1870.6					
G44.0	1873.2	1862.9	1871.7	1810.0	1873.2					
G45.0	1889.7	1837.6	1850.6	1833.5	1889.7					
G46.0	1819.5	1835.1	1852.1	1797.2	1819.5					
G47.0	1729.1	1784.1	1820.6	1741.5	1729.1					
G48.0	1718.4	1745.9	1815.6	1739.6	1718.4					
G49.0	1728.0	1736.1	1822.0	1697.8	1728.0					
G50.0	1727.5	1740.4	1788.5	1651.9	1727.5					
G51.0	1684.9	1716.4	1739.2	1652.3	1684.9					
G52.0	1643.9	1644.7	1679.7	1655.9	1643.9					
G53.0	1564.6	1624.6	1576.9	1598.3	1564.6					
G54.0	1504.7	1557.0	1515.6	1530.1	1504.7					
G55.0	1436.1	1499.0	1453.3	1481.8	1436.1					
G56.0	1394.7	1440.2	1385.3	1423.1	1394.7					
G57.0	1361.4	1372.7	1358.4	1362.2	1361.4					
G58.0	1305.4	1319.3	1297.0	1326.4	1305.4					
G59.0	1234.9	1198.0	1226.5	1267.9	1234.9					
G60.0	1147.3	1152.3	1198.8	1181.5	1147.3					
G61.0	1091.9	1111.3	1144.2	1162.3	1091.9					
G62.0	1099.7	1007.9	1084.0	1148.5	1099.7					
G63.0	1047.0	991.2	1042.8	1098.5	1047.0					
G64.0	994.5	956.8	961.6	1032.2	994.5					
G65.0	911.1	911.9	930.3	980.1	911.1					
G66.0	847.6	877.5	895.1	934.8	847.6					
G67.0	796.1	840.0	818.0	910.1	796.1					
G68.0	784.3	803.8	780.7	873.7	784.3					
G69.0	745.7	758.2	740.6	837.1	745.7					
G70.0	699.8	736.1	712.4	811.5	699.8					
G71.0	672.7	696.9	667.4	785.2	672.7					
G72.0	626.0	669.0	634.2	740.4	626.0					
G73.0	575.2	636.2	596.6	711.8	575.2					

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:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	545.4	586.2	571.4	690.3	545.4					
G75.0	509.7	553.6	522.9	652.0	509.7					
G76.0	477.3	525.7	483.3	616.0	477.3					
G77.0	452.1	475.0	449.5	587.0	452.1					
G78.0	415.5	437.7	421.6	565.6	415.5					
G79.0	389.6	419.4	396.8	514.4	389.6					
G80.0	351.4	398.5	365.9	482.3	351.4					
G81.0	338.3	372.8	339.0	456.0	338.3					
G82.0	327.4	340.4	316.4	442.3	327.4					
G83.0	295.1	294.3	286.4	396.9	295.1					
G84.0	259.0	257.9	258.2	349.9	259.0					
G85.0	222.8	243.9	236.1	313.0	222.8					
G86.0	180.6	219.4	191.9	295.5	180.6					
G87.0	152.1	191.8	146.7	264.2	152.1					
G88.0	120.5	147.5	121.6	243.9	120.5					
G89.0	107.6	116.3	100.0	229.8	107.6					
G90.0	84.6	93.2	91.4	209.2	84.6					
G91.0	76.4	80.6	79.5	197.5	76.4					
G92.0	77.6	78.4	85.7	198.3	77.6					
G93.0	84.0	83.8	93.3	209.9	84.0					
G94.0	88.4	86.9	100.0	202.2	88.4					
G95.0	101.1	100.7	110.4	201.3	101.1					
G96.0	110.7	111.3	117.4	200.9	110.7					
G97.0	114.5	116.0	121.9	201.3	114.5					
G98.0	120.4	123.9	128.1	203.7	120.4					
G99.0	130.1	133.8	135.5	197.2	130.1					
G100.0	139.3	138.2	143.1	192.9	139.3					
G101.0	145.3	144.0	151.8	192.3	145.3					
G102.0	154.7	148.7	162.6	191.5	154.7					
G103.0	158.0	153.1	176.2	190.0	158.0					
G104.0	164.1	164.6	182.4	187.4	164.1					
G105.0	172.1	170.5	184.4	189.5	172.1					
G106.0	176.1	176.1	192.4	197.2	176.1					
G107.0	182.6	177.9	195.6	196.9	182.6					
G108.0	187.0	183.1	199.4	201.6	187.0					
G109.0	191.1	185.5	200.3	204.6	191.1					
G110.0	194.3	191.9	202.0	209.2	194.3					

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	194.9	195.3	205.1	212.1	194.9					
G112.0	197.9	198.0	208.4	213.2	197.9					
G113.0	201.1	200.8	208.6	213.6	201.1					
G114.0	203.7	202.2	206.5	216.1	203.7					
G115.0	209.0	201.9	205.2	211.0	209.0					
G116.0	209.4	198.7	207.3	207.3	209.4					
G117.0	208.1	196.8	209.2	204.5	208.1					
G118.0	208.1	196.5	209.4	204.6	208.1					
G119.0	204.4	195.5	205.2	202.6	204.4					
G120.0	203.3	194.4	203.5	204.6	203.3					
G121.0	201.4	195.0	202.6	205.6	201.4					
G122.0	199.4	197.9	201.0	204.5	199.4					
G123.0	196.1	200.0	197.5	200.9	196.1					
G124.0	194.1	197.2	194.5	195.4	194.1					
G125.0	193.0	196.8	192.7	190.3	193.0					
G126.0	190.5	197.7	193.9	186.3	190.5					
G127.0	190.7	195.4	192.2	186.4	190.7					
G128.0	191.6	193.7	189.8	185.3	191.6					
G129.0	190.4	193.9	187.3	184.5	190.4					
G130.0	187.3	193.7	186.7	183.8	187.3					
G131.0	184.8	193.3	185.6	182.5	184.8					
G132.0	181.4	190.1	184.7	182.0	181.4					
G133.0	177.6	188.3	182.5	183.4	177.6					
G134.0	174.0	187.0	180.8	183.9	174.0					
G135.0	173.4	186.3	178.8	181.0	173.4					
G136.0	172.0	186.0	176.1	182.8	172.0					
G137.0	170.5	183.7	175.9	184.1	170.5					
G138.0	168.6	180.1	177.6	185.2	168.6					
G139.0	166.7	177.6	174.2	178.5	166.7					
G140.0	165.2	176.3	171.9	176.6	165.2					
G141.0	162.3	175.8	171.6	175.8	162.3					
G142.0	160.8	174.1	170.1	172.6	160.8					
G143.0	158.5	171.8	166.0	170.0	158.5					
G144.0	156.6	166.8	164.0	168.9	156.6					
G145.0	155.4	164.7	161.0	164.9	155.4					
G146.0	154.4	163.2	159.9	163.1	154.4					
G147.0	151.3	160.7	157.2	161.3	151.3					

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	148.3	157.6	153.5	157.8	148.3					
G149.0	145.6	154.0	151.3	155.2	145.6					
G150.0	142.3	152.3	149.4	156.4	142.3					
G151.0	140.3	149.8	147.9	163.2	140.3					
G152.0	138.4	147.6	143.9	159.5	138.4					
G153.0	136.2	144.3	139.6	159.9	136.2					
G154.0	133.5	141.0	135.4	154.4	133.5					
G155.0	130.7	137.7	131.0	152.7	130.7					
G156.0	128.0	134.1	127.9	149.0	128.0					
G157.0	123.7	132.1	125.2	147.3	123.7					
G158.0	120.3	129.0	123.7	145.1	120.3					
G159.0	117.7	124.8	119.7	142.9	117.7					
G160.0	114.3	121.2	116.0	139.5	114.3					
G161.0	111.4	117.5	112.1	136.3	111.4					
G162.0	108.4	114.3	108.1	133.8	108.4					
G163.0	106.4	110.3	101.9	131.0	106.4					
G164.0	102.4	108.0	98.5	128.1	102.4					
G165.0	98.0	104.7	95.5	125.8	98.0					
G166.0	94.1	101.2	93.7	121.9	94.1					
G167.0	91.0	96.9	89.3	119.0	91.0					
G168.0	87.4	93.2	87.4	114.8	87.4					
G169.0	83.6	90.7	84.3	113.2	83.6					
G170.0	81.8	88.1	81.2	112.8	81.8					
G171.0	79.0	84.5	78.9	113.6	79.0					
G172.0	75.8	82.2	75.2	113.4	75.8					
G173.0	73.1	80.4	73.3	108.4	73.1					
G174.0	70.8	76.8	71.5	107.8	70.8					
G175.0	68.6	74.0	68.8	104.8	68.6					
G176.0	66.9	71.1	67.3	107.0	66.9					
G177.0	65.9	69.5	67.8	113.5	65.9					
G178.0	65.0	68.1	67.0	112.9	65.0					
G179.0	64.6	68.1	65.9	113.1	64.6					
G180.0	64.6	67.5	65.9	96.0	64.6					

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	1.#J
L 0-180(75) av	1.#J
L 0-180(85) av	1.#J
L 90-270(65) av	1.#J
L 90-270(75) av	1.#J
L 90-270(85) av	1.#J
L 45(65) av	1.#J
L 45(75) av	1.#J
L 45(85) av	1.#J

Standard: GB/T 29293-2012