

Report No.: TH-4102A

Test Time: 2023/3/2 10:32

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 2.078 A
Power Factor: 0.973

Luminaire Description: LSMZ 500W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 249.2 V
Power: 503.89 W

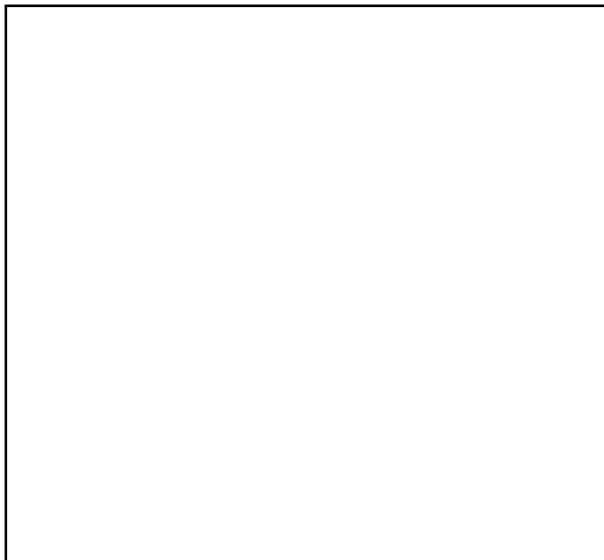
Photometric Results

CIE Class: Direct
Measurement Flux: 66365.3 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H98
Vertical Diffuse Angle(50%): V95.6
Luminaire Efficacy Rating (LER): 131.76
Max. Intensity: 32256.33 cd
S/MH(C0/C180): 1.24

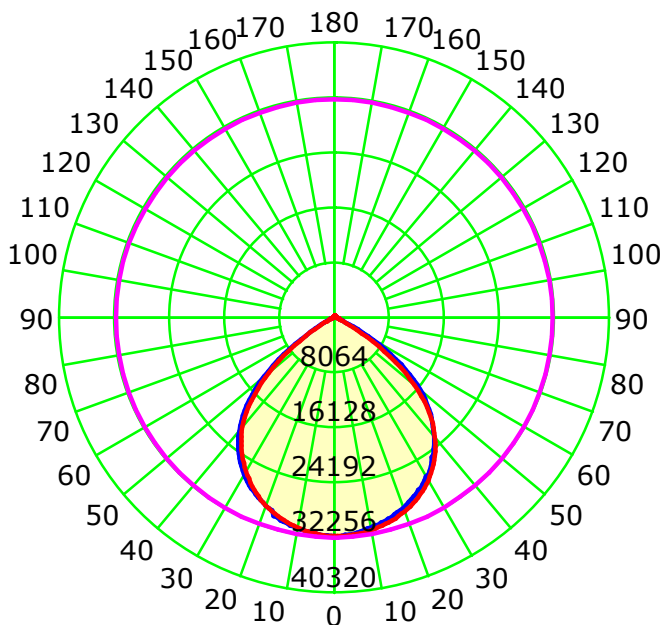
Total Rated Lamp Lumens: 66365.3 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 32005.55 cd
Pos of Max. Intensity: H0 V1
S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

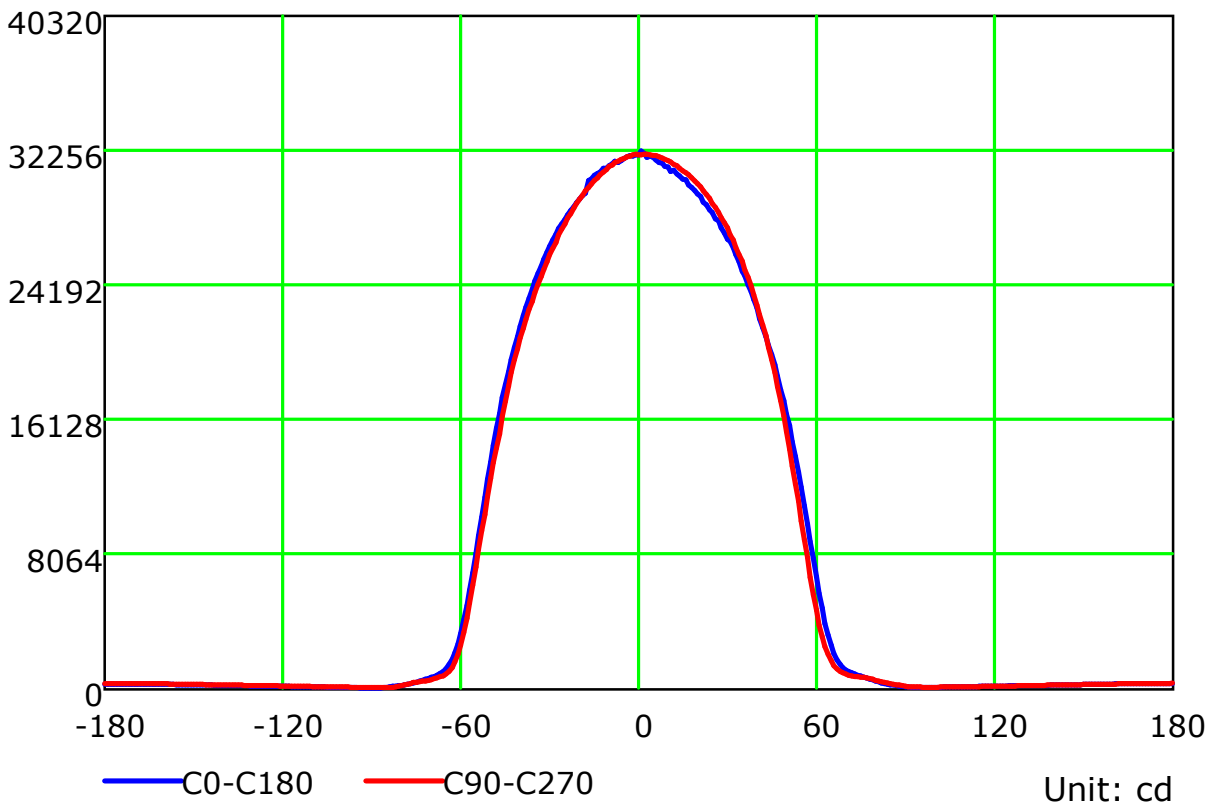
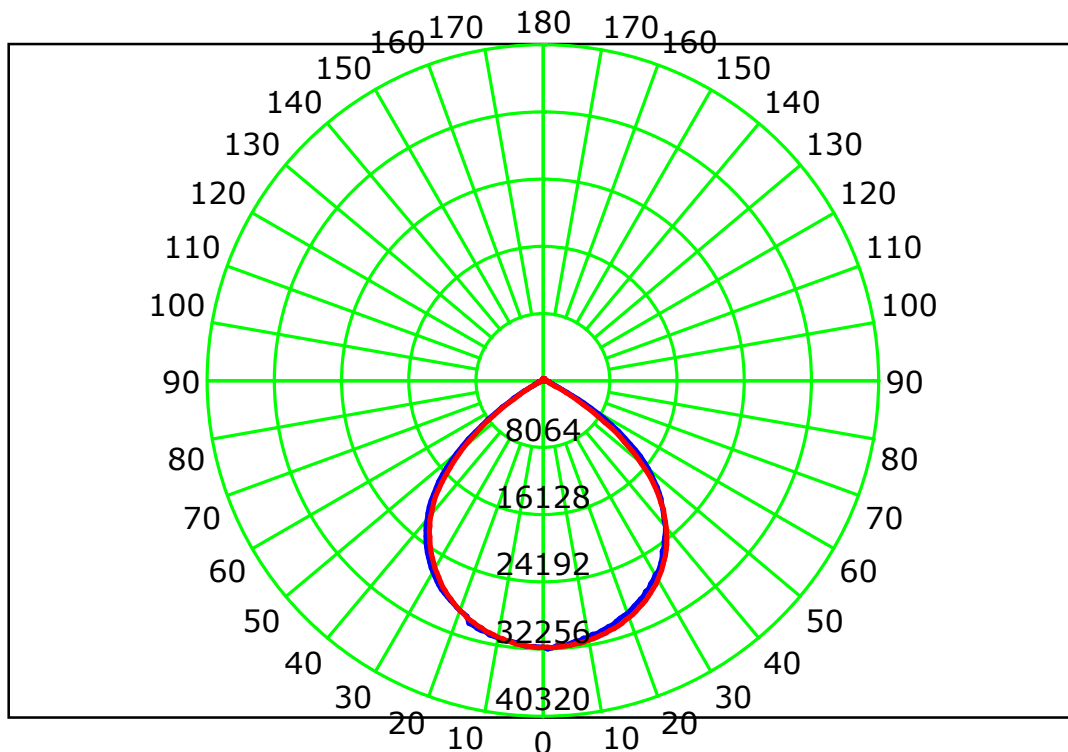
Average Diffuse Angle(50%): 96.7°

— C0-C180 — C90-C270 — G1

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



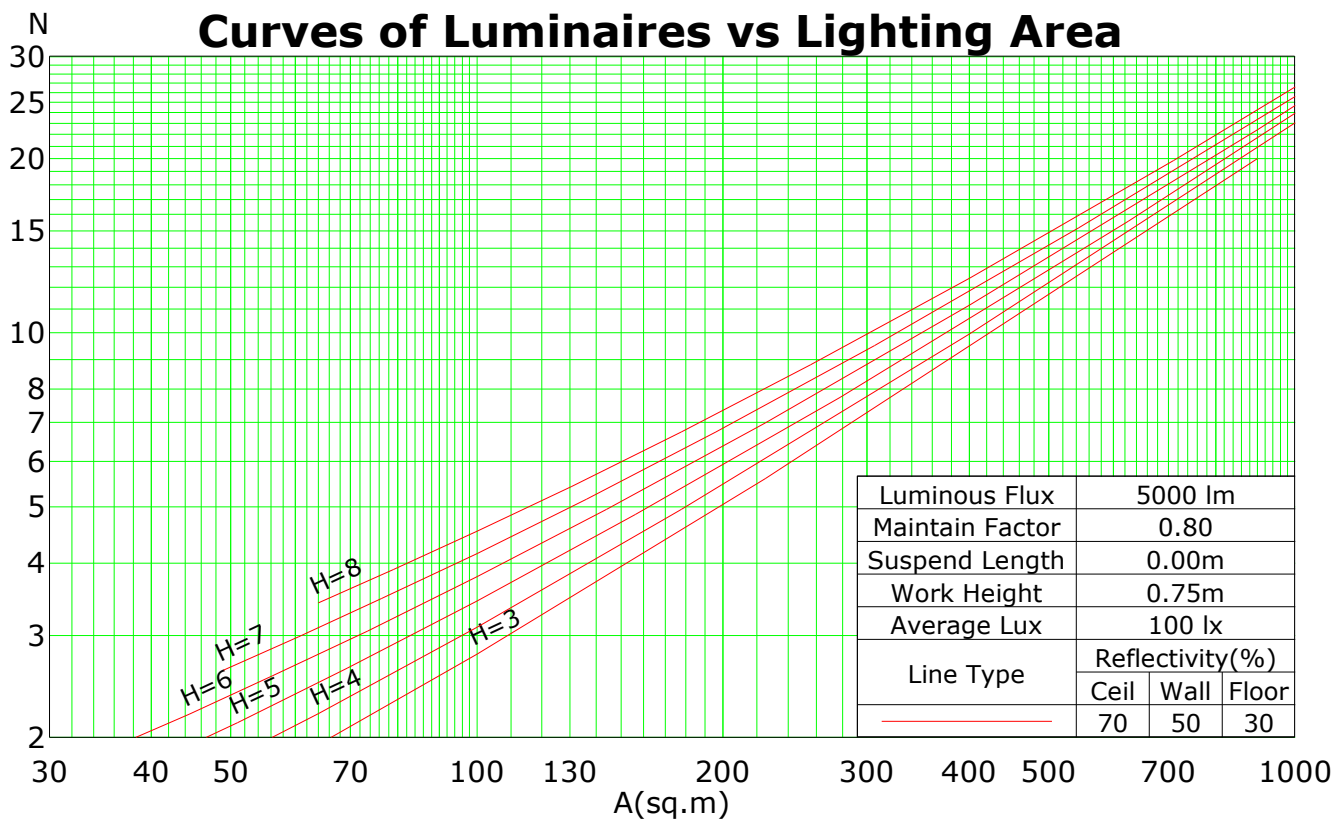
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

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	1.11	1.08	1.04	1.01	1.08	1.05	1.02	1.00	1.01	0.99	0.96	0.97	0.95	0.93	0.93	0.92	0.90	0.88
2	1.03	0.97	0.91	0.87	1.01	0.95	0.90	0.86	0.91	0.87	0.84	0.88	0.85	0.82	0.85	0.82	0.80	0.78
3	0.96	0.87	0.81	0.75	0.93	0.86	0.79	0.75	0.83	0.77	0.73	0.80	0.75	0.72	0.77	0.74	0.70	0.68
4	0.89	0.79	0.71	0.66	0.87	0.77	0.71	0.65	0.75	0.69	0.64	0.73	0.67	0.63	0.70	0.66	0.62	0.60
5	0.82	0.71	0.64	0.58	0.80	0.70	0.63	0.58	0.68	0.62	0.57	0.66	0.61	0.56	0.64	0.59	0.56	0.54
6	0.77	0.65	0.57	0.51	0.75	0.64	0.57	0.51	0.62	0.56	0.51	0.60	0.55	0.50	0.59	0.54	0.50	0.48
7	0.71	0.59	0.52	0.46	0.70	0.59	0.51	0.46	0.57	0.50	0.46	0.55	0.50	0.45	0.54	0.49	0.45	0.43
8	0.67	0.54	0.47	0.42	0.65	0.54	0.46	0.41	0.52	0.46	0.41	0.51	0.45	0.41	0.50	0.45	0.40	0.39
9	0.62	0.50	0.43	0.38	0.61	0.50	0.42	0.38	0.48	0.42	0.37	0.47	0.41	0.37	0.46	0.41	0.37	0.35
10	0.59	0.46	0.39	0.34	0.57	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.34	0.43	0.38	0.34	0.32

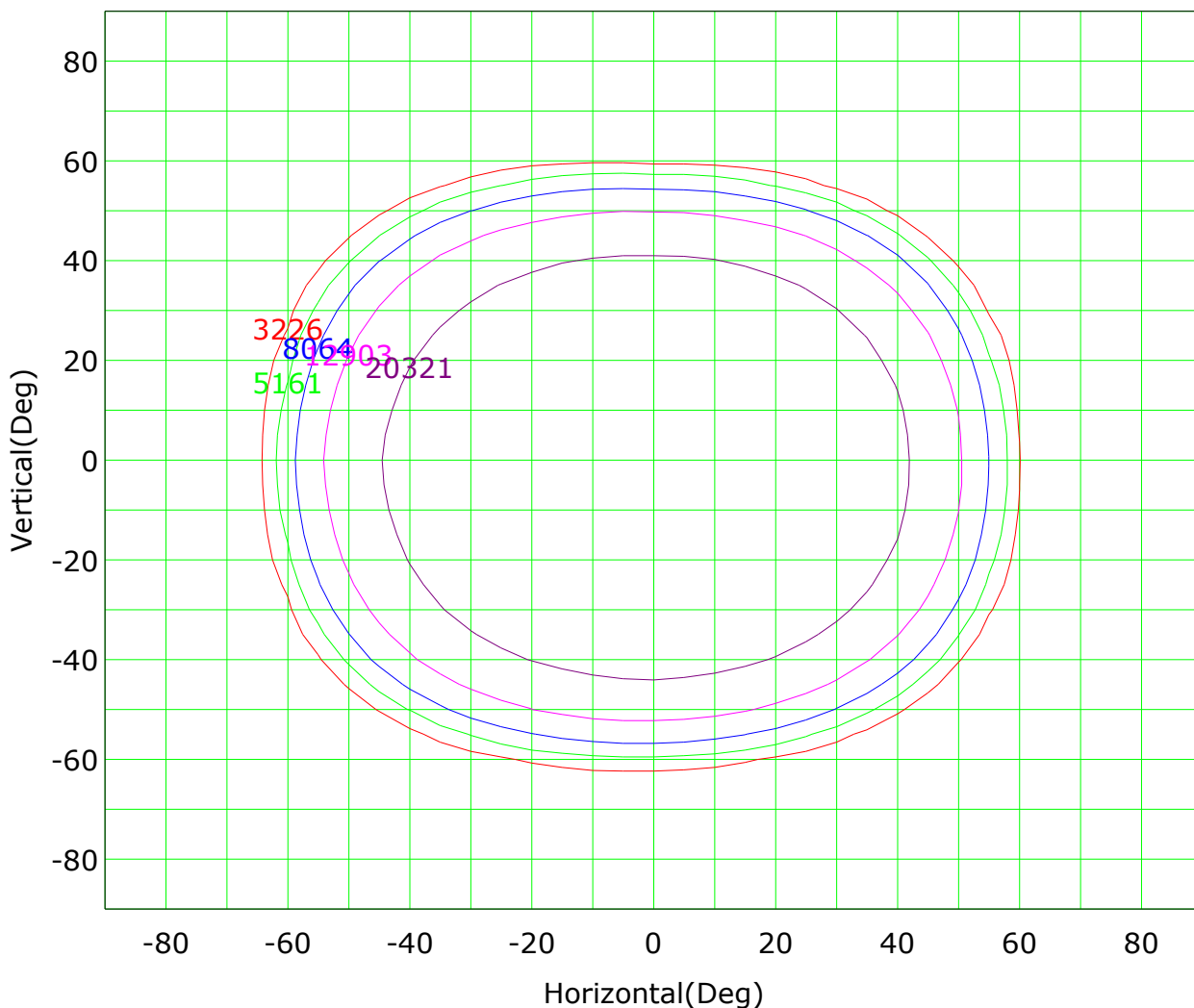
Spacing Criteria (0-180): 1.24
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.31



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)



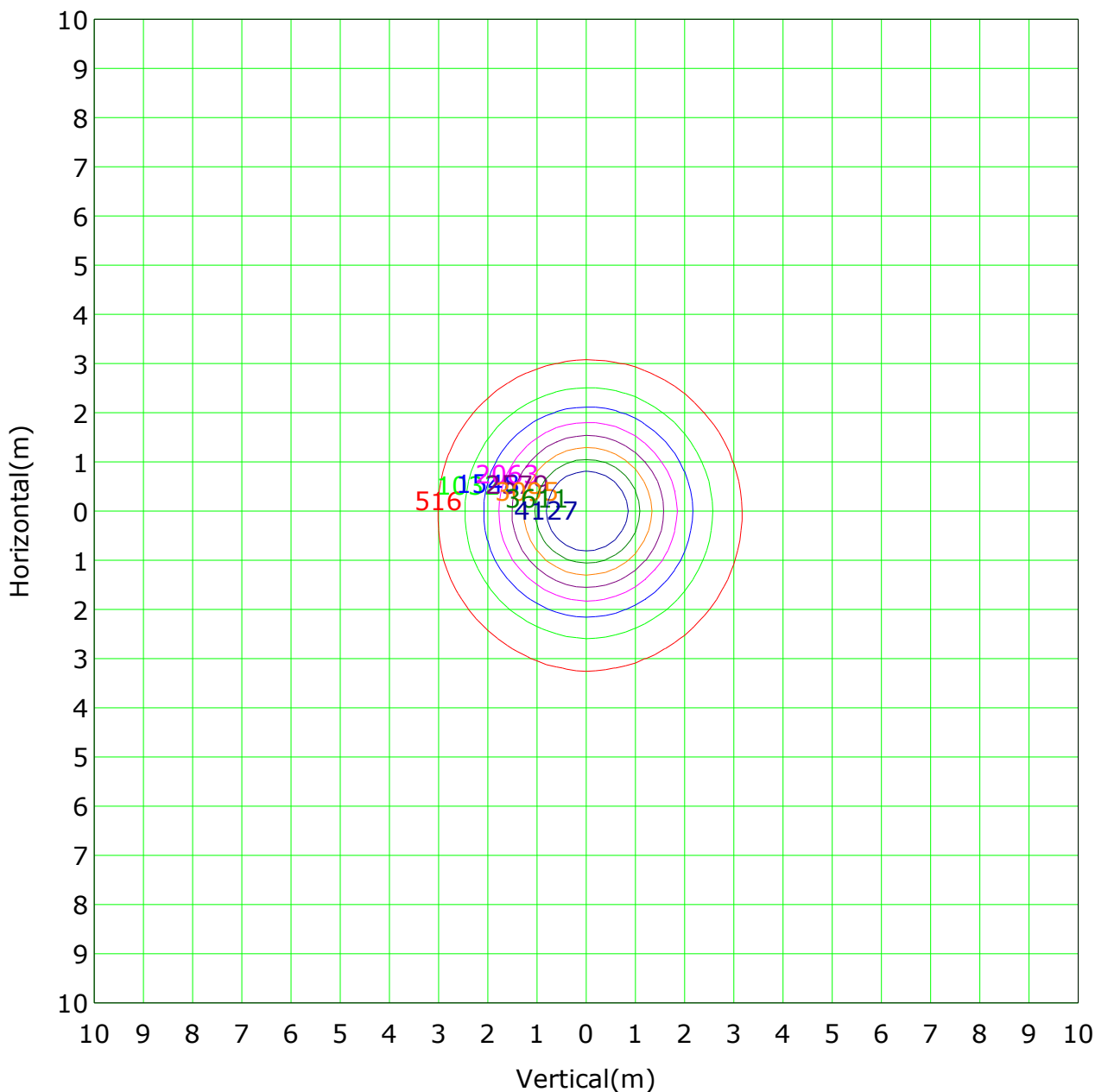
Imax (100%): 32256 cd

- | | |
|--------------------|--------------------|
| — (10%): 3226 cd | — (16%): 5161 cd |
| — (25%): 8064 cd | — (40%): 12903 cd |
| — (63%): 20321 cd | — (100%): 32256 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: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 2.5m		Max Lux(100%): 5158.7 lx	
<ul style="list-style-type: none"> — (10%): 515.9 lx — (30%):1547.6 lx — (50%):2579.3 lx — (70%):3611.1 lx 	<ul style="list-style-type: none"> — (20%):1031.7 lx — (40%):2063.5 lx — (60%):3095.2 lx — (80%):4126.9 lx 		

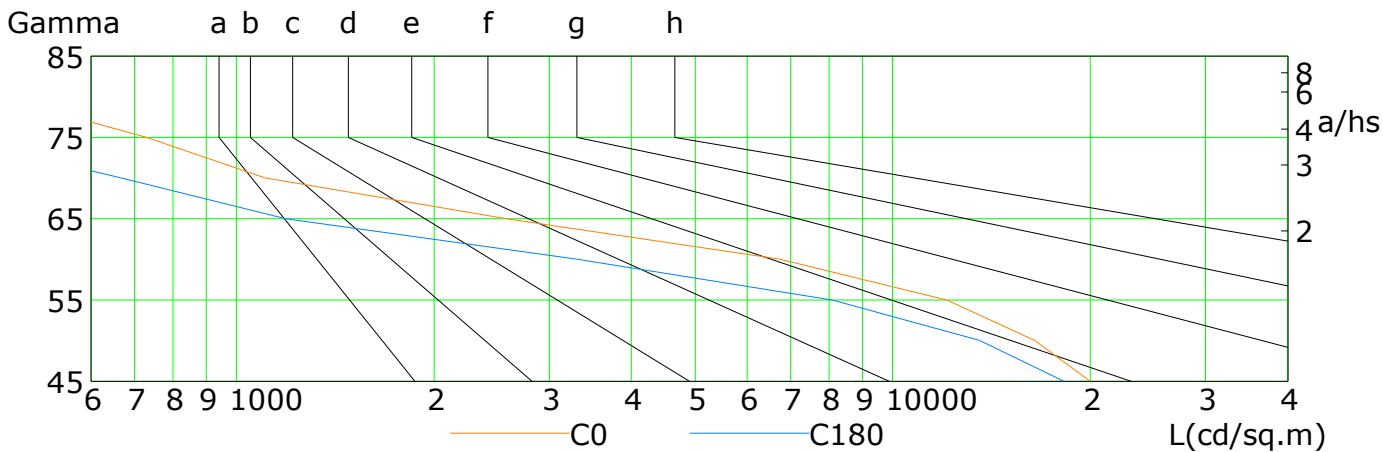
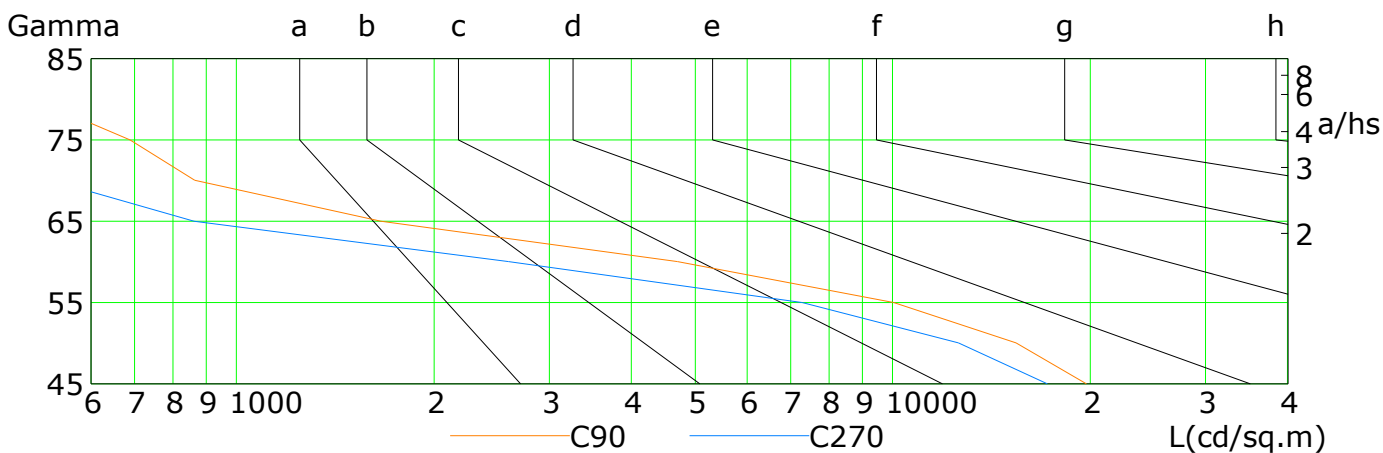
C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 m [K=1.0699]
 Humidity: 65
 Inspector:

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

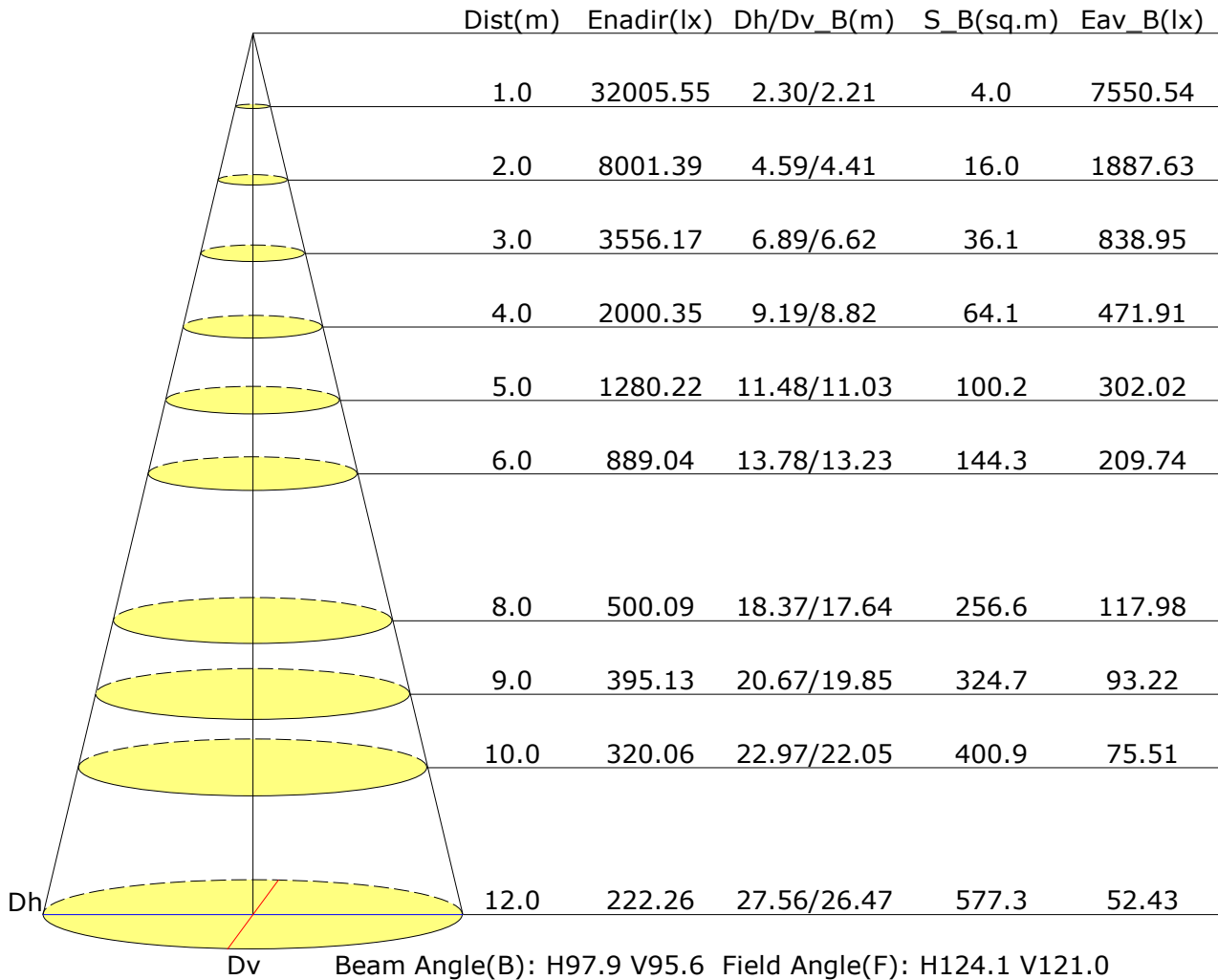


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	20025	16446	12094	6713	2580	1105	730	441	228
C90	19725	15416	10036	4704	1662	864	689	495	292
C180	18238	13564	8090	3297	1188	665	378	178	76
C270	17208	12599	7288	2598	863	522	378	165	67

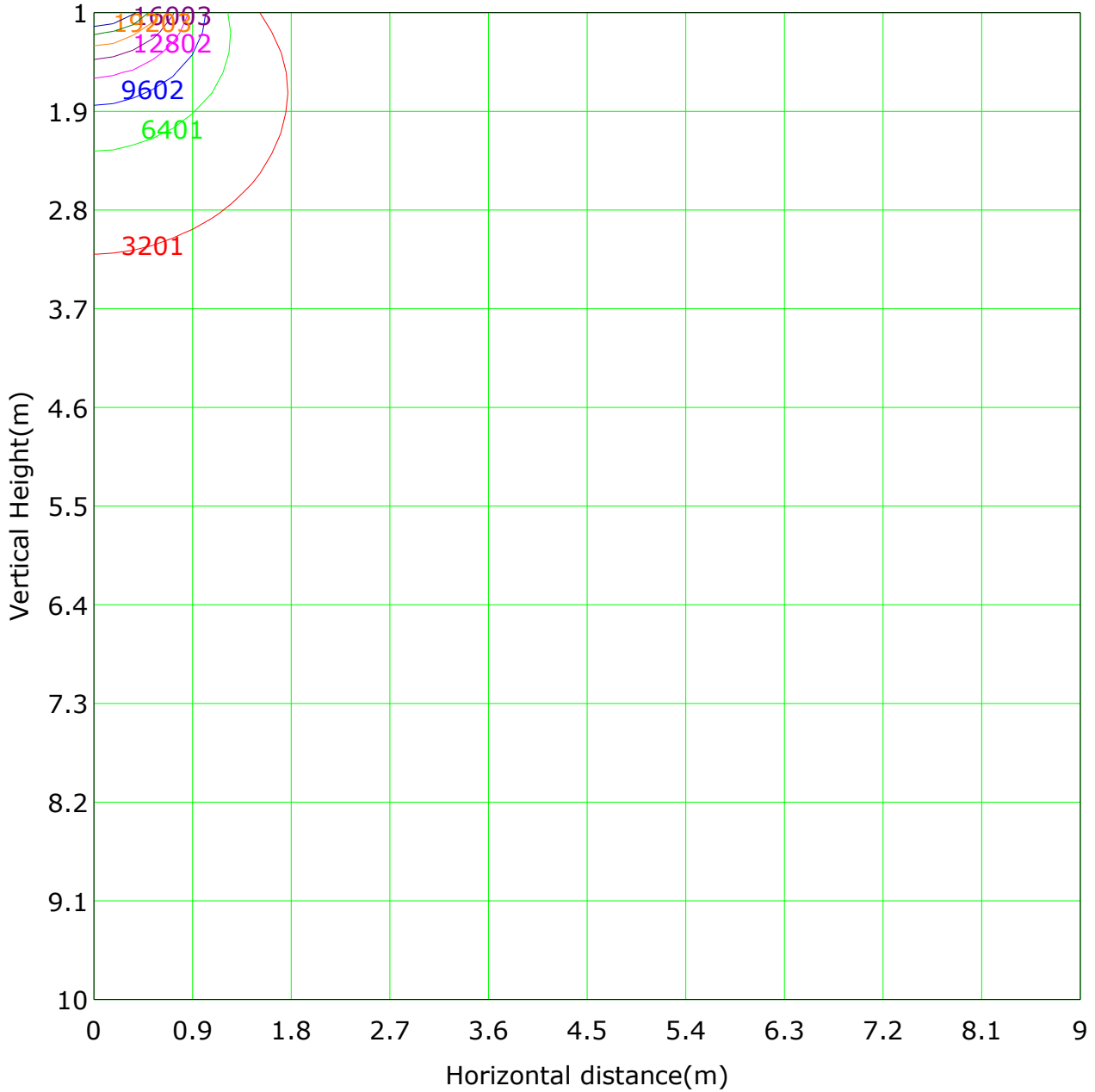
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.607 m [K=1.0699]
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

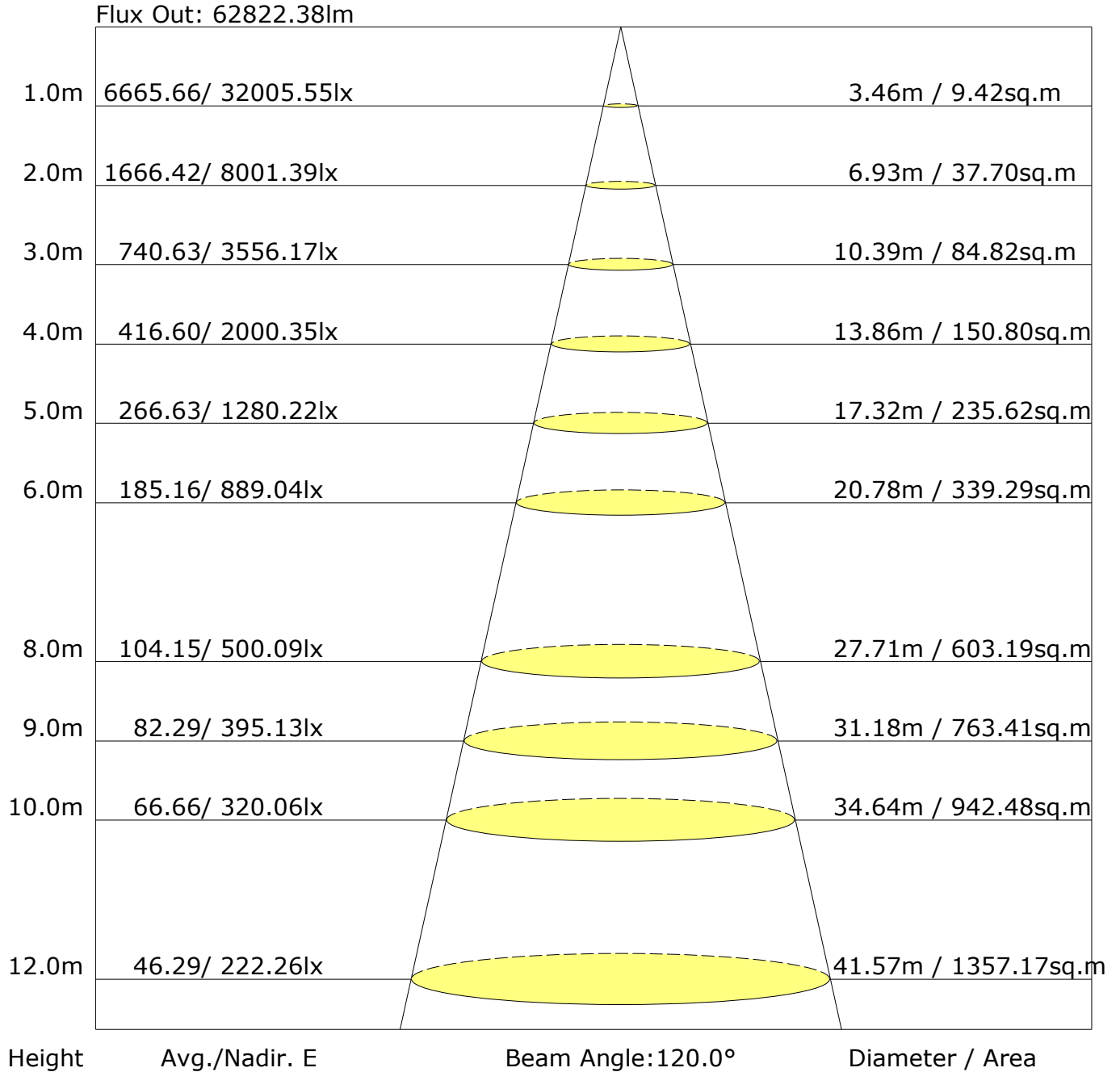


Lowest(m): 1.0m		Highest(m): 10.0m		Max Lux: 32005.5 lx	
— (10%):3200.6 lx	— (20%):6401.1 lx	— (30%):9601.7 lx	— (40%):12802.2 lx	— (50%):16002.8 lx	— (60%):19203.3 lx
— (70%):22403.9 lx	— (80%):25604.4 lx				

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:

The Average Illuminance Effective Figure



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:

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 66365lm ($8\log(F/F_0) = 14.6$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	32042.9	30.7	30.7	0.05	0.05
1.0-2.0	32051.1	92.0	122.7	0.14	0.18
2.0-3.0	31985.8	153.0	275.7	0.23	0.42
3.0-4.0	31936.4	213.8	489.5	0.32	0.74
4.0-5.0	31884.4	274.3	763.8	0.41	1.15
5.0-6.0	31805.3	334.3	1098.1	0.50	1.65
6.0-7.0	31710.6	393.7	1491.7	0.59	2.25
7.0-8.0	31635.2	452.8	1944.6	0.68	2.93
8.0-9.0	31548.3	511.4	2455.9	0.77	3.70
9.0-10.0	31441.0	569.1	3025.0	0.86	4.56
10.0-11.0	31316.5	625.8	3650.8	0.94	5.50
11.0-12.0	31205.4	682.2	4333.1	1.03	6.53
12.0-13.0	31087.6	737.9	5070.9	1.11	7.64
13.0-14.0	30933.2	791.9	5862.8	1.19	8.83
14.0-15.0	30791.2	845.4	6708.2	1.27	10.11
15.0-16.0	30631.7	897.7	7605.9	1.35	11.46
16.0-17.0	30469.7	949.0	8554.9	1.43	12.89
17.0-18.0	30222.0	996.6	9551.5	1.50	14.39
18.0-19.0	29952.2	1042.2	10593.7	1.57	15.96
19.0-20.0	29757.5	1089.3	11683.0	1.64	17.60
20.0-21.0	29556.6	1135.1	12818.1	1.71	19.31
21.0-22.0	29318.4	1178.3	13996.4	1.78	21.09
22.0-23.0	29069.7	1219.9	15216.3	1.84	22.93
23.0-24.0	28817.1	1260.1	16476.4	1.90	24.83
24.0-25.0	28548.5	1298.3	17774.7	1.96	26.78
25.0-26.0	28264.6	1334.4	19109.1	2.01	28.79
26.0-27.0	27980.3	1369.1	20478.2	2.06	30.86
27.0-28.0	27653.9	1400.3	21878.4	2.11	32.97
28.0-29.0	27300.3	1428.5	23306.9	2.15	35.12
29.0-30.0	26955.9	1455.6	24762.5	2.19	37.31
30.0-31.0	26610.3	1481.1	26243.6	2.23	39.54
31.0-32.0	26247.7	1503.9	27747.5	2.27	41.81
32.0-33.0	25841.3	1522.6	29270.1	2.29	44.10
33.0-34.0	25410.9	1538.0	30808.1	2.32	46.42
34.0-35.0	24942.8	1549.3	32357.4	2.33	48.76
35.0-36.0	24476.1	1558.6	33916.0	2.35	51.11

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 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	24002.8	1565.7	35481.7	2.36	53.46
37.0-38.0	23493.6	1568.4	37050.1	2.36	55.83
38.0-39.0	22983.2	1569.0	38619.0	2.36	58.19
39.0-40.0	22435.9	1565.0	40184.0	2.36	60.55
40.0-41.0	21828.2	1554.6	41738.6	2.34	62.89
41.0-42.0	21207.2	1541.0	43279.6	2.32	65.21
42.0-43.0	20570.5	1524.0	44803.6	2.30	67.51
43.0-44.0	19884.2	1501.0	46304.5	2.26	69.77
44.0-45.0	19162.8	1472.9	47777.4	2.22	71.99
45.0-46.0	18412.1	1440.1	49217.6	2.17	74.16
46.0-47.0	17586.1	1398.9	50616.4	2.11	76.27
47.0-48.0	16726.7	1352.4	51968.8	2.04	78.31
48.0-49.0	15867.5	1303.2	53272.0	1.96	80.27
49.0-50.0	14967.8	1248.1	54520.1	1.88	82.15
50.0-51.0	14020.4	1186.4	55706.5	1.79	83.94
51.0-52.0	13020.7	1117.5	56824.0	1.68	85.62
52.0-53.0	11994.4	1043.5	57867.5	1.57	87.20
53.0-54.0	10952.4	965.5	58832.9	1.45	88.65
54.0-55.0	9899.9	883.8	59716.8	1.33	89.98
55.0-56.0	8817.3	796.9	60513.6	1.20	91.18
56.0-57.0	7722.1	706.1	61219.8	1.06	92.25
57.0-58.0	6678.4	617.7	61837.4	0.93	93.18
58.0-59.0	5702.5	533.2	62370.6	0.80	93.98
59.0-60.0	4781.2	451.8	62822.4	0.68	94.66
60.0-61.0	3938.9	375.9	63198.3	0.57	95.23
61.0-62.0	3230.7	311.3	63509.7	0.47	95.70
62.0-63.0	2632.0	256.0	63765.7	0.39	96.08
63.0-64.0	2141.0	210.1	63975.8	0.32	96.40
64.0-65.0	1751.3	173.3	64149.1	0.26	96.66
65.0-66.0	1445.4	144.2	64293.4	0.22	96.88
66.0-67.0	1219.2	122.6	64416.0	0.18	97.06
67.0-68.0	1049.7	106.3	64522.3	0.16	97.22
68.0-69.0	926.6	94.5	64616.9	0.14	97.37
69.0-70.0	831.9	85.5	64702.3	0.13	97.49
70.0-71.0	755.8	78.1	64780.5	0.12	97.61
71.0-72.0	693.8	72.1	64852.6	0.11	97.72

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 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	643.9	67.3	64920.0	0.10	97.82
73.0-74.0	601.6	63.3	64983.2	0.10	97.92
74.0-75.0	562.2	59.4	65042.6	0.09	98.01
75.0-76.0	525.4	55.8	65098.4	0.08	98.09
76.0-77.0	484.7	51.7	65150.1	0.08	98.17
77.0-78.0	436.3	46.7	65196.8	0.07	98.24
78.0-79.0	389.0	41.8	65238.6	0.06	98.30
79.0-80.0	343.7	37.1	65275.7	0.06	98.36
80.0-81.0	300.6	32.5	65308.2	0.05	98.41
81.0-82.0	261.8	28.4	65336.6	0.04	98.45
82.0-83.0	227.3	24.7	65361.3	0.04	98.49
83.0-84.0	198.5	21.6	65382.9	0.03	98.52
84.0-85.0	175.1	19.1	65402.0	0.03	98.55
85.0-86.0	155.1	17.0	65419.0	0.03	98.57
86.0-87.0	129.2	14.1	65433.1	0.02	98.60
87.0-88.0	107.1	11.7	65444.8	0.02	98.61
88.0-89.0	94.2	10.3	65455.2	0.02	98.63
89.0-90.0	81.9	9.0	65464.1	0.01	98.64
90.0-91.0	70.1	7.7	65471.8	0.01	98.65
91.0-92.0	62.1	6.8	65478.6	0.01	98.66
92.0-93.0	59.1	6.5	65485.1	0.01	98.67
93.0-94.0	58.2	6.4	65491.5	0.01	98.68
94.0-95.0	62.7	6.9	65498.3	0.01	98.69
95.0-96.0	65.1	7.1	65505.5	0.01	98.70
96.0-97.0	63.8	7.0	65512.4	0.01	98.71
97.0-98.0	66.7	7.3	65519.7	0.01	98.73
98.0-99.0	68.8	7.5	65527.1	0.01	98.74
99.0-100.0	70.5	7.6	65534.7	0.01	98.75
100.0-101.0	73.9	8.0	65542.7	0.01	98.76
101.0-102.0	75.9	8.2	65550.9	0.01	98.77
102.0-103.0	78.5	8.4	65559.3	0.01	98.79
103.0-104.0	81.2	8.7	65567.9	0.01	98.80
104.0-105.0	83.4	8.9	65576.8	0.01	98.81
105.0-106.0	86.4	9.1	65585.9	0.01	98.83
106.0-107.0	88.4	9.3	65595.2	0.01	98.84
107.0-108.0	91.9	9.6	65604.8	0.01	98.85

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	95.7	10.0	65614.8	0.01	98.87
109.0-110.0	99.0	10.2	65625.0	0.02	98.88
110.0-111.0	102.7	10.5	65635.5	0.02	98.90
111.0-112.0	105.6	10.8	65646.3	0.02	98.92
112.0-113.0	108.9	11.0	65657.3	0.02	98.93
113.0-114.0	112.3	11.3	65668.6	0.02	98.95
114.0-115.0	115.4	11.5	65680.2	0.02	98.97
115.0-116.0	118.5	11.7	65691.9	0.02	98.99
116.0-117.0	122.1	12.0	65703.9	0.02	99.00
117.0-118.0	126.4	12.3	65716.2	0.02	99.02
118.0-119.0	129.2	12.4	65728.6	0.02	99.04
119.0-120.0	130.9	12.5	65741.1	0.02	99.06
120.0-121.0	134.4	12.7	65753.8	0.02	99.08
121.0-122.0	137.5	12.9	65766.7	0.02	99.10
122.0-123.0	140.6	13.0	65779.7	0.02	99.12
123.0-124.0	144.3	13.2	65792.9	0.02	99.14
124.0-125.0	147.6	13.3	65806.2	0.02	99.16
125.0-126.0	151.3	13.5	65819.7	0.02	99.18
126.0-127.0	154.2	13.6	65833.3	0.02	99.20
127.0-128.0	157.5	13.7	65847.0	0.02	99.22
128.0-129.0	160.6	13.8	65860.8	0.02	99.24
129.0-130.0	163.6	13.8	65874.6	0.02	99.26
130.0-131.0	167.3	13.9	65888.6	0.02	99.28
131.0-132.0	170.8	14.0	65902.6	0.02	99.30
132.0-133.0	173.3	14.0	65916.6	0.02	99.32
133.0-134.0	176.4	14.0	65930.6	0.02	99.35
134.0-135.0	180.0	14.1	65944.7	0.02	99.37
135.0-136.0	181.6	14.0	65958.7	0.02	99.39
136.0-137.0	183.1	13.8	65972.5	0.02	99.41
137.0-138.0	186.7	13.8	65986.3	0.02	99.43
138.0-139.0	191.0	13.9	66000.2	0.02	99.45
139.0-140.0	193.7	13.8	66014.0	0.02	99.47
140.0-141.0	197.1	13.7	66027.8	0.02	99.49
141.0-142.0	200.7	13.7	66041.5	0.02	99.51
142.0-143.0	203.9	13.6	66055.1	0.02	99.53
143.0-144.0	207.9	13.6	66068.6	0.02	99.55

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	211.4	13.5	66082.1	0.02	99.57
145.0-146.0	214.3	13.3	66095.4	0.02	99.59
146.0-147.0	217.5	13.2	66108.6	0.02	99.61
147.0-148.0	221.3	13.0	66121.6	0.02	99.63
148.0-149.0	224.3	12.9	66134.5	0.02	99.65
149.0-150.0	227.7	12.7	66147.1	0.02	99.67
150.0-151.0	231.8	12.5	66159.7	0.02	99.69
151.0-152.0	236.1	12.4	66172.0	0.02	99.71
152.0-153.0	239.6	12.1	66184.1	0.02	99.73
153.0-154.0	242.0	11.8	66196.0	0.02	99.74
154.0-155.0	242.8	11.5	66207.5	0.02	99.76
155.0-156.0	244.1	11.1	66218.6	0.02	99.78
156.0-157.0	247.8	10.8	66229.4	0.02	99.80
157.0-158.0	252.7	10.6	66240.0	0.02	99.81
158.0-159.0	257.5	10.3	66250.3	0.02	99.83
159.0-160.0	260.0	10.0	66260.3	0.02	99.84
160.0-161.0	262.3	9.6	66269.9	0.01	99.86
161.0-162.0	265.9	9.3	66279.2	0.01	99.87
162.0-163.0	269.4	8.9	66288.1	0.01	99.88
163.0-164.0	272.3	8.5	66296.5	0.01	99.90
164.0-165.0	274.7	8.1	66304.6	0.01	99.91
165.0-166.0	275.7	7.6	66312.2	0.01	99.92
166.0-167.0	278.1	7.1	66319.3	0.01	99.93
167.0-168.0	281.9	6.7	66326.0	0.01	99.94
168.0-169.0	283.0	6.2	66332.2	0.01	99.95
169.0-170.0	284.1	5.7	66337.8	0.01	99.96
170.0-171.0	285.6	5.2	66343.0	0.01	99.97
171.0-172.0	285.2	4.6	66347.6	0.01	99.97
172.0-173.0	286.8	4.1	66351.8	0.01	99.98
173.0-174.0	288.8	3.6	66355.3	0.01	99.99
174.0-175.0	288.1	3.0	66358.4	0.00	99.99
175.0-176.0	288.7	2.5	66360.9	0.00	99.99
176.0-177.0	289.4	1.9	66362.8	0.00	100.00
177.0-178.0	288.7	1.4	66364.2	0.00	100.00
178.0-179.0	289.9	0.8	66365.0	0.00	100.00
179.0-180.0	291.6	0.3	66365.3	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°): 47777.44 lm

%lum = 72.0%

%lamp = 72.0%

cone flux(120°): 62822.38 lm

%lum = 94.7%

%lamp = 94.7%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	32005.5	32005.5	32005.5	32005.5	32005.5					
G1.0	32256.3	32019.7	32003.0	32041.7	32256.3					
G2.0	32073.6	32062.3	31946.3	32005.5	32073.6					
G3.0	31858.1	32044.3	31966.5	31929.4	31858.1					
G4.0	31912.3	31997.8	31906.0	31876.5	31912.3					
G5.0	31843.0	31975.9	31772.4	31791.4	31843.0					
G6.0	31688.0	31956.5	31659.0	31756.6	31688.0					
G7.0	31560.7	31876.5	31554.4	31632.7	31560.7					
G8.0	31493.9	31818.5	31607.3	31537.3	31493.9					
G9.0	31325.1	31735.9	31461.2	31407.0	31325.1					
G10.0	31277.2	31648.2	31356.6	31316.6	31277.2					
G11.0	31023.9	31573.4	31219.2	31116.7	31023.9					
G12.0	31070.5	31443.1	31211.6	30985.1	31070.5					
G13.0	30841.2	31363.1	30952.1	30834.2	30841.2					
G14.0	30746.7	31203.1	30896.6	30629.0	30746.7					
G15.0	30542.5	31065.1	30789.5	30457.5	30542.5					
G16.0	30490.8	30933.5	30529.9	30244.6	30490.8					
G17.0	30199.7	30817.4	30488.3	30053.7	30199.7					
G18.0	30030.9	30626.5	29718.4	29840.8	30030.9					
G19.0	29855.7	30425.2	29559.6	29560.9	29855.7					
G20.0	29681.8	30267.8	29354.2	29354.4	29681.8					
G21.0	29515.5	30070.4	29126.1	29082.2	29515.5					
G22.0	29179.0	29862.7	28887.9	28822.9	29179.0					
G23.0	29026.5	29608.6	28685.0	28484.9	29026.5					
G24.0	28717.8	29404.8	28388.9	28220.5	28717.8					
G25.0	28538.8	29102.9	28135.6	27878.6	28538.8					
G26.0	28163.3	28864.2	27868.4	27565.1	28163.3					
G27.0	28067.5	28535.2	27581.1	27197.4	28067.5					
G28.0	27616.4	28259.2	27240.9	26733.0	27616.4					
G29.0	27327.8	27939.2	26885.5	26400.2	27327.8					
G30.0	26942.2	27615.4	26531.4	26005.4	26942.2					
G31.0	26804.9	27214.2	26167.2	25601.6	26804.9					
G32.0	26449.5	26883.9	25745.1	25115.2	26449.5					
G33.0	26026.1	26455.6	25336.8	24717.9	26026.1					
G34.0	25601.4	26002.8	24899.5	24247.0	25601.4					
G35.0	25005.4	25626.1	24428.2	23732.3	25005.4					
G36.0	24731.9	25099.8	23953.1	23231.7	24731.9					

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	24202.6	24654.7	23413.8	22735.1	24202.6					
G38.0	23789.3	24129.6	22885.8	22137.7	23789.3					
G39.0	23341.9	23614.9	22359.0	21607.5	23341.9					
G40.0	22837.9	22982.7	21726.4	21016.7	22837.9					
G41.0	22195.2	22420.3	21087.5	20358.7	22195.2					
G42.0	21644.5	21792.0	20456.2	19703.4	21644.5					
G43.0	21108.9	21183.1	19711.4	18964.1	21108.9					
G44.0	20562.0	20437.4	18979.3	18126.9	20562.0					
G45.0	20025.2	19725.3	18238.3	17208.4	20025.2					
G46.0	19398.9	18966.7	17445.7	16288.5	19398.9					
G47.0	18718.4	18088.2	16504.3	15278.4	18718.4					
G48.0	17930.8	17260.0	15628.5	14405.0	17930.8					
G49.0	17275.5	16345.3	14567.5	13527.8	17275.5					
G50.0	16446.3	15416.4	13564.4	12598.9	16446.3					
G51.0	15776.0	14332.8	12536.1	11492.0	15776.0					
G52.0	14815.7	13327.8	11463.7	10421.3	14815.7					
G53.0	13904.6	12282.8	10272.8	9466.6	13904.6					
G54.0	12977.1	11217.2	9157.6	8340.4	12977.1					
G55.0	12093.8	10035.5	8090.2	7287.7	12093.8					
G56.0	10963.4	8935.1	6915.8	6216.9	10963.4					
G57.0	9862.0	7837.2	5903.8	5142.3	9862.0					
G58.0	8829.9	6656.8	4972.6	4222.4	8829.9					
G59.0	7826.9	5638.9	4124.5	3347.8	7826.9					
G60.0	6712.9	4703.6	3296.6	2598.2	6712.9					
G61.0	5694.7	3783.8	2675.3	2046.1	5694.7					
G62.0	4827.7	3097.5	2127.1	1593.2	4827.7					
G63.0	3897.7	2532.4	1739.0	1241.1	3897.7					
G64.0	3198.3	2061.5	1435.3	1023.0	3198.3					
G65.0	2579.6	1661.6	1188.3	863.1	2579.6					
G66.0	2105.7	1371.3	1025.8	767.6	2105.7					
G67.0	1711.3	1170.1	902.3	699.2	1711.3					
G68.0	1451.7	1026.9	801.5	634.7	1451.7					
G69.0	1252.6	935.3	728.4	581.8	1252.6					
G70.0	1105.2	864.4	665.4	522.5	1105.2					
G71.0	1006.9	793.4	609.9	478.6	1006.9					
G72.0	922.4	743.1	546.9	448.9	922.4					
G73.0	855.7	717.3	491.5	425.7	855.7					

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:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	783.8	699.2	437.3	402.5	783.8					
G75.0	729.6	688.9	378.1	378.0	729.6					
G76.0	678.0	674.7	325.1	350.9	678.0					
G77.0	626.3	650.2	278.5	294.1	626.3					
G78.0	558.2	605.1	240.7	237.4	558.2					
G79.0	505.3	553.4	207.9	203.8	505.3					
G80.0	441.1	495.4	177.7	165.1	441.1					
G81.0	386.9	442.5	176.4	120.0	386.9					
G82.0	332.7	393.5	151.2	91.6	332.7					
G83.0	291.1	357.4	132.3	68.4	291.1					
G84.0	257.1	321.2	92.0	68.4	257.1					
G85.0	228.1	291.6	75.6	67.1	228.1					
G86.0	201.6	259.3	58.0	59.3	201.6					
G87.0	176.4	221.9	0.0	56.8	176.4					
G88.0	150.0	192.2	0.0	59.3	150.0					
G89.0	126.0	163.8	0.0	61.9	126.0					
G90.0	104.6	135.5	0.0	63.2	104.6					
G91.0	81.9	110.9	0.0	64.5	81.9					
G92.0	65.5	105.8	0.0	68.4	65.5					
G93.0	59.2	108.4	0.0	65.8	59.2					
G94.0	58.0	107.1	0.0	67.1	58.0					
G95.0	58.0	91.6	51.7	68.4	58.0					
G96.0	58.0	69.7	51.7	72.2	58.0					
G97.0	59.2	68.4	55.5	76.1	59.2					
G98.0	64.3	72.2	59.2	78.7	64.3					
G99.0	66.8	69.7	59.2	80.0	66.8					
G100.0	68.1	72.2	64.3	83.9	68.1					
G101.0	74.4	74.8	66.8	86.4	74.4					
G102.0	73.1	77.4	66.8	87.7	73.1					
G103.0	79.4	78.7	71.8	92.9	79.4					
G104.0	79.4	81.3	71.8	94.2	79.4					
G105.0	85.7	82.6	73.1	99.3	85.7					
G106.0	86.9	82.6	76.9	104.5	86.9					
G107.0	84.4	87.7	78.1	105.8	84.4					
G108.0	97.0	90.3	83.2	108.4	97.0					
G109.0	97.0	92.9	85.7	110.9	97.0					
G110.0	103.3	96.8	90.7	114.8	103.3					

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 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	104.6	101.9	90.7	118.7	104.6					
G112.0	110.9	105.8	92.0	120.0	110.9					
G113.0	109.6	107.1	99.5	126.4	109.6					
G114.0	114.7	113.5	102.1	125.1	114.7					
G115.0	118.5	114.8	104.6	130.3	118.5					
G116.0	118.5	118.7	107.1	135.5	118.5					
G117.0	126.0	118.7	112.2	140.6	126.0					
G118.0	129.8	123.8	115.9	144.5	129.8					
G119.0	128.5	127.7	117.2	145.8	128.5					
G120.0	132.3	129.0	118.5	148.4	132.3					
G121.0	138.6	134.2	121.0	153.5	138.6					
G122.0	142.4	135.5	118.5	156.1	142.4					
G123.0	146.2	139.3	127.3	160.0	146.2					
G124.0	148.7	141.9	132.3	158.7	148.7					
G125.0	153.7	147.1	134.8	163.8	153.7					
G126.0	157.5	148.4	137.4	167.7	157.5					
G127.0	158.8	150.9	141.1	171.6	158.8					
G128.0	162.6	157.4	143.7	174.2	162.6					
G129.0	162.6	160.0	147.4	176.7	162.6					
G130.0	165.1	166.4	148.7	181.9	165.1					
G131.0	173.9	165.1	151.2	185.8	173.9					
G132.0	180.2	169.0	153.7	187.1	180.2					
G133.0	175.2	172.9	157.5	190.9	175.2					
G134.0	181.5	178.0	160.0	194.8	181.5					
G135.0	184.0	184.5	162.6	194.8	184.0					
G136.0	177.7	183.2	166.3	200.0	177.7					
G137.0	180.2	188.3	167.6	201.2	180.2					
G138.0	182.7	194.8	172.6	206.4	182.7					
G139.0	192.8	196.1	176.4	206.4	192.8					
G140.0	194.1	196.1	177.7	210.3	194.1					
G141.0	204.1	201.2	180.2	212.9	204.1					
G142.0	202.9	203.8	186.5	214.1	202.9					
G143.0	209.2	206.4	190.3	218.0	209.2					
G144.0	215.5	210.3	192.8	220.6	215.5					
G145.0	218.0	214.1	194.1	225.8	218.0					
G146.0	219.3	219.3	195.3	228.3	219.3					
G147.0	224.3	221.9	200.4	230.9	224.3					

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 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	225.6	228.3	204.1	234.8	225.6					
G149.0	229.4	228.3	206.7	237.4	229.4					
G150.0	235.7	236.1	207.9	240.0	235.7					
G151.0	235.7	238.7	214.2	246.4	235.7					
G152.0	244.5	243.8	215.5	250.3	244.5					
G153.0	247.0	245.1	216.8	254.1	247.0					
G154.0	248.2	249.0	220.5	255.4	248.2					
G155.0	239.4	246.4	224.3	259.3	239.4					
G156.0	244.5	247.7	229.4	261.9	244.5					
G157.0	248.2	254.1	231.9	264.5	248.2					
G158.0	264.6	256.7	234.4	267.0	264.6					
G159.0	265.9	263.2	235.7	272.2	265.9					
G160.0	267.2	263.2	238.2	274.8	267.2					
G161.0	269.7	265.8	240.7	278.7	269.7					
G162.0	272.2	277.4	243.2	279.9	272.2					
G163.0	278.5	277.4	245.7	281.2	278.5					
G164.0	281.0	285.1	245.7	283.8	281.0					
G165.0	283.5	283.8	248.2	286.4	283.5					
G166.0	279.8	285.1	250.8	287.7	279.8					
G167.0	282.3	295.4	252.0	291.6	282.3					
G168.0	283.5	301.9	255.8	292.8	283.5					
G169.0	284.8	300.6	253.3	291.6	284.8					
G170.0	292.4	298.0	257.1	295.4	292.4					
G171.0	293.6	295.4	257.1	295.4	293.6					
G172.0	291.1	300.6	259.6	289.0	291.1					
G173.0	292.4	305.7	259.6	296.7	292.4					
G174.0	289.8	307.0	262.1	296.7	289.8					
G175.0	292.4	299.3	260.8	296.7	292.4					
G176.0	297.4	303.2	263.4	296.7	297.4					
G177.0	293.6	301.9	263.4	295.4	293.6					
G178.0	294.9	303.2	259.6	298.0	294.9					
G179.0	302.4	300.6	260.8	299.3	302.4					
G180.0	297.4	308.3	260.8	303.2	297.4					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.607 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