

Report No.: TH-4288A

Test Time: 2023/6/28 16:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: NOVA-track-20W-500mA-24D White

Lamp Catalog:

Lamp Description:

Number of Lamps:

Lumens per Lamp:

Luminous Length (mm): -50

Luminous Width (mm): -50

Luminous Height (mm):

Voltage: 220.3 V

Current: 0.089 A

Power: 18.84 W

Power Factor: 0.959

Photometric Results

CIE Class: Direct

Measurement Flux: 1494.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H20.7

Vertical Diffuse Angle(50%): V20.9

Luminaire Efficacy Rating (LER): 79.37

Max. Intensity: 8700.39 cd

S/MH(C0/C180): 0.35

Total Rated Lamp Lumens: 1494.3 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 8661.49 cd

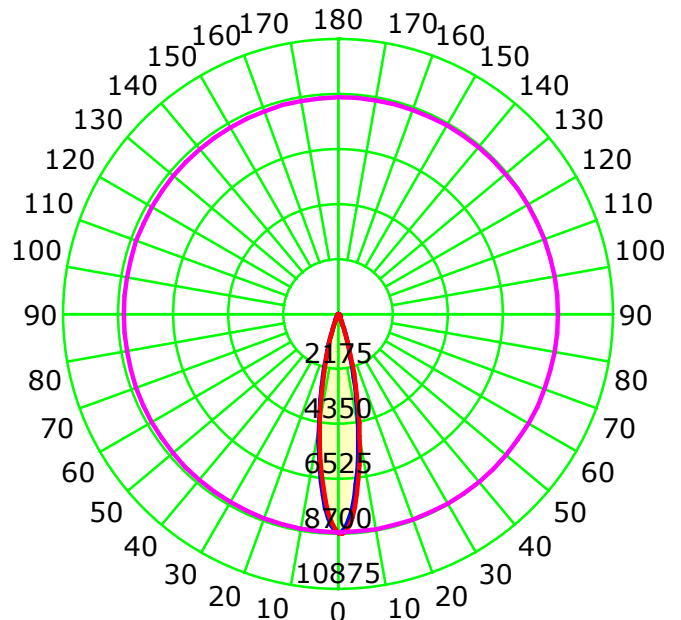
Pos of Max. Intensity: H90 V1

S/MH(C90/C270): 0.36

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 20.8°

— C0-C180 — C90-C270 — G1 —

C Plane (°):0.0-360.0: 90.0

Test Lab: inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0

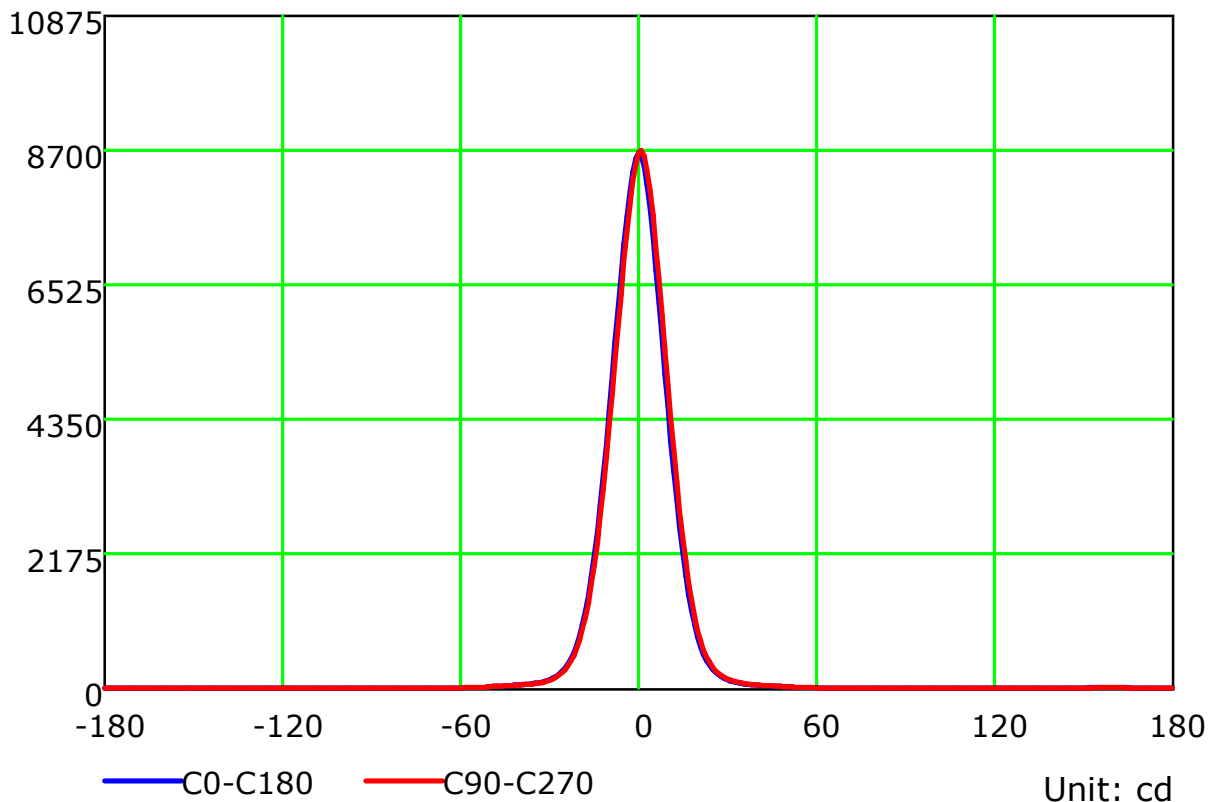
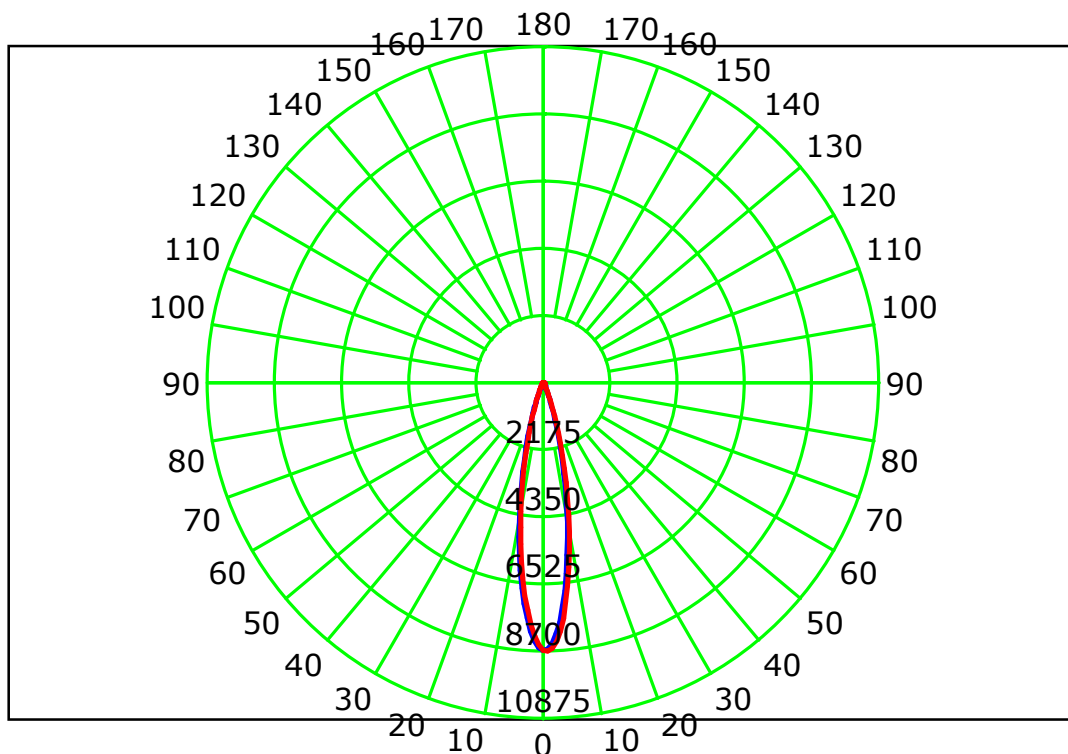
Test Device: GPM-1800B

Distance: 8.684 m [K=1.0000]

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



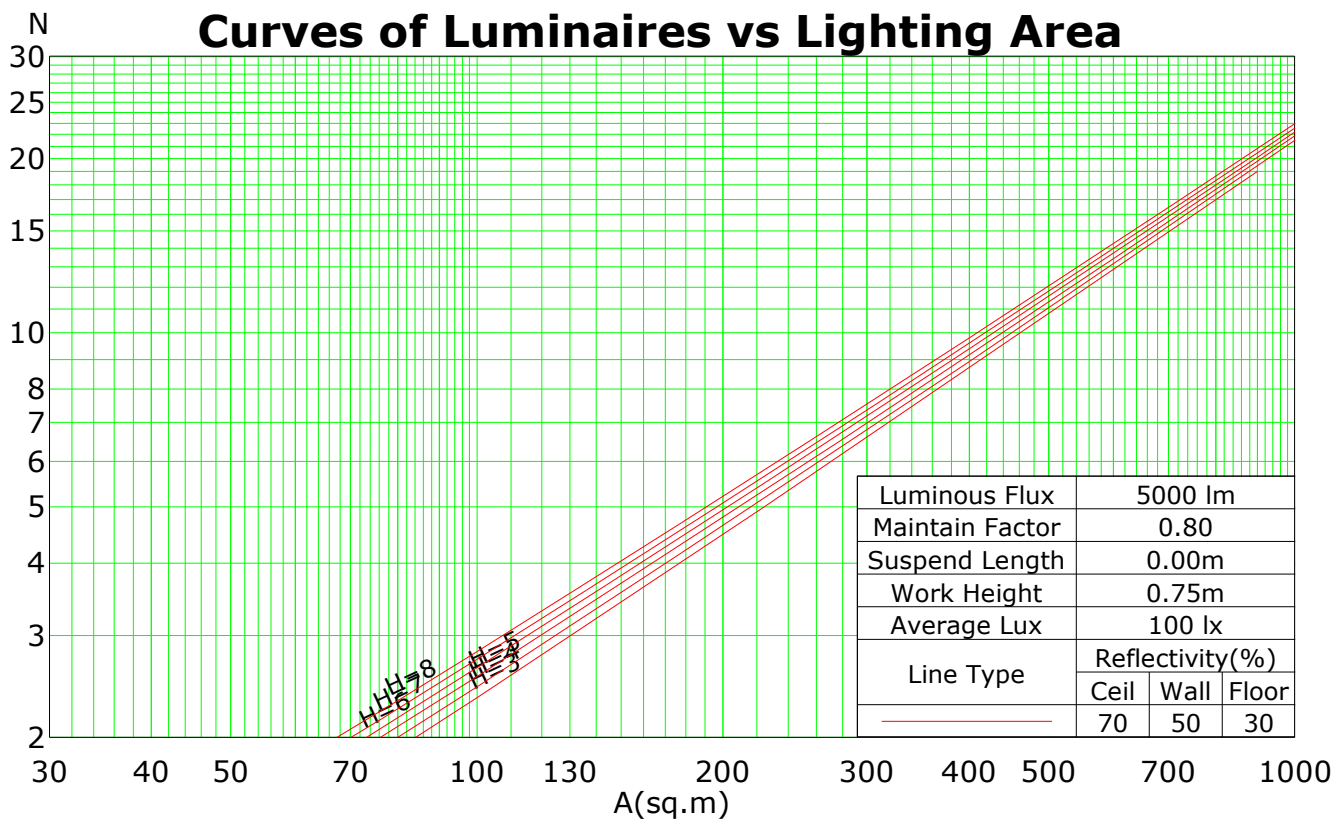
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Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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	1.02	1.02	1.02	1.00
1	1.15	1.13	1.11	1.09	1.13	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.96
2	1.11	1.08	1.05	1.02	1.09	1.06	1.03	1.01	1.03	1.01	0.99	1.00	0.98	0.97	0.97	0.96	0.95	0.93
3	1.08	1.03	1.00	0.97	1.06	1.02	0.99	0.96	0.99	0.97	0.94	0.97	0.95	0.93	0.95	0.93	0.92	0.90
4	1.04	0.99	0.95	0.92	1.03	0.98	0.95	0.92	0.96	0.93	0.91	0.94	0.92	0.90	0.92	0.90	0.89	0.87
5	1.01	0.96	0.92	0.89	1.00	0.95	0.91	0.88	0.93	0.90	0.87	0.92	0.89	0.87	0.90	0.88	0.86	0.85
6	0.99	0.93	0.88	0.85	0.97	0.92	0.88	0.85	0.90	0.87	0.85	0.89	0.86	0.84	0.88	0.86	0.84	0.82
7	0.96	0.90	0.86	0.83	0.95	0.89	0.85	0.83	0.88	0.85	0.82	0.87	0.84	0.82	0.86	0.83	0.81	0.80
8	0.94	0.87	0.83	0.80	0.93	0.87	0.83	0.80	0.86	0.82	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.78
9	0.91	0.85	0.81	0.78	0.90	0.84	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
10	0.89	0.83	0.79	0.76	0.88	0.82	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.75

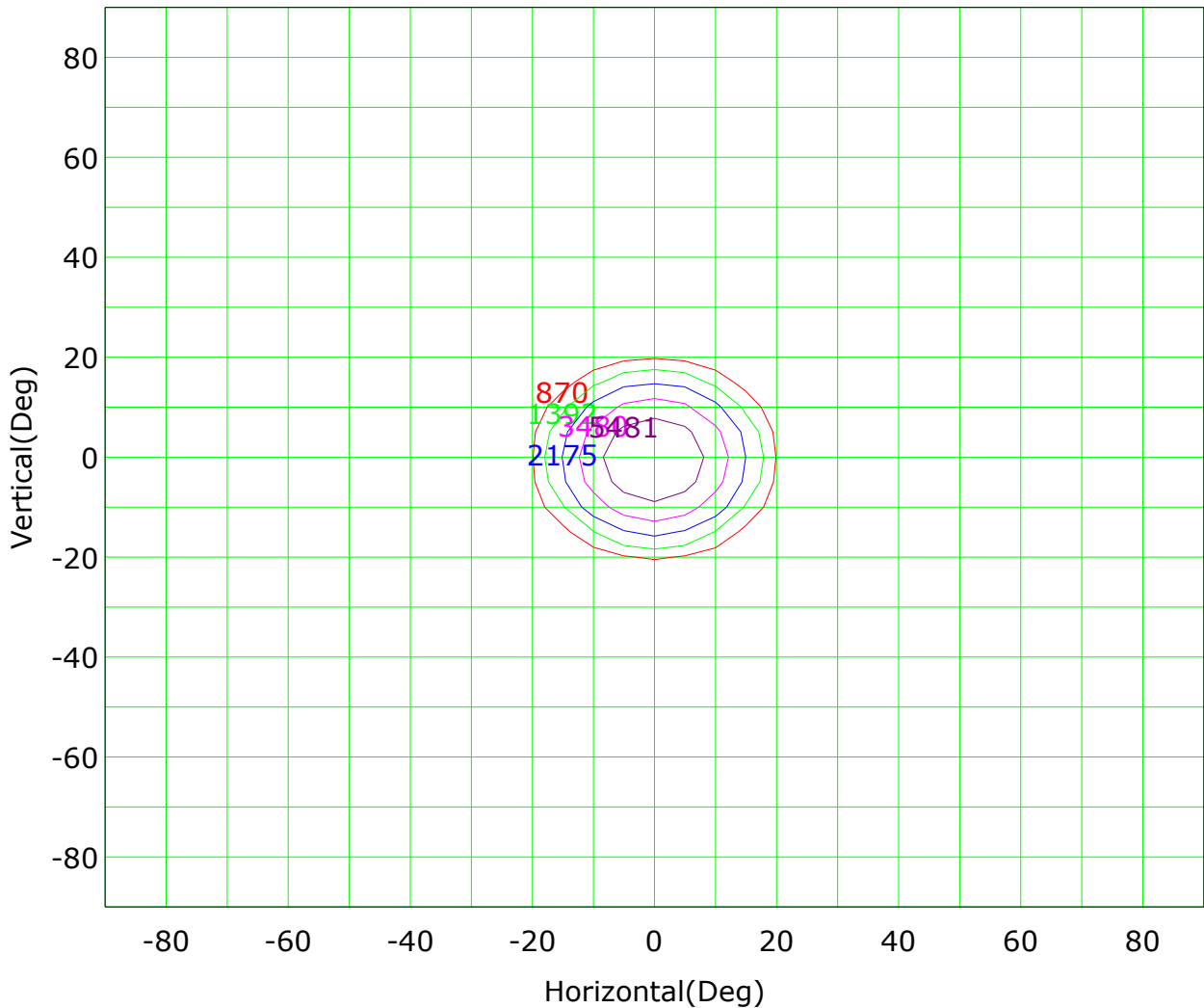
Spacing Criteria (0-180): 0.35
 Spacing Criteria (90-270): 0.36
 Spacing Criteria (Diagonal): 0.37



C Plane (°):0.0-360.0: 90.0
 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:

Isocandela (rectangle)



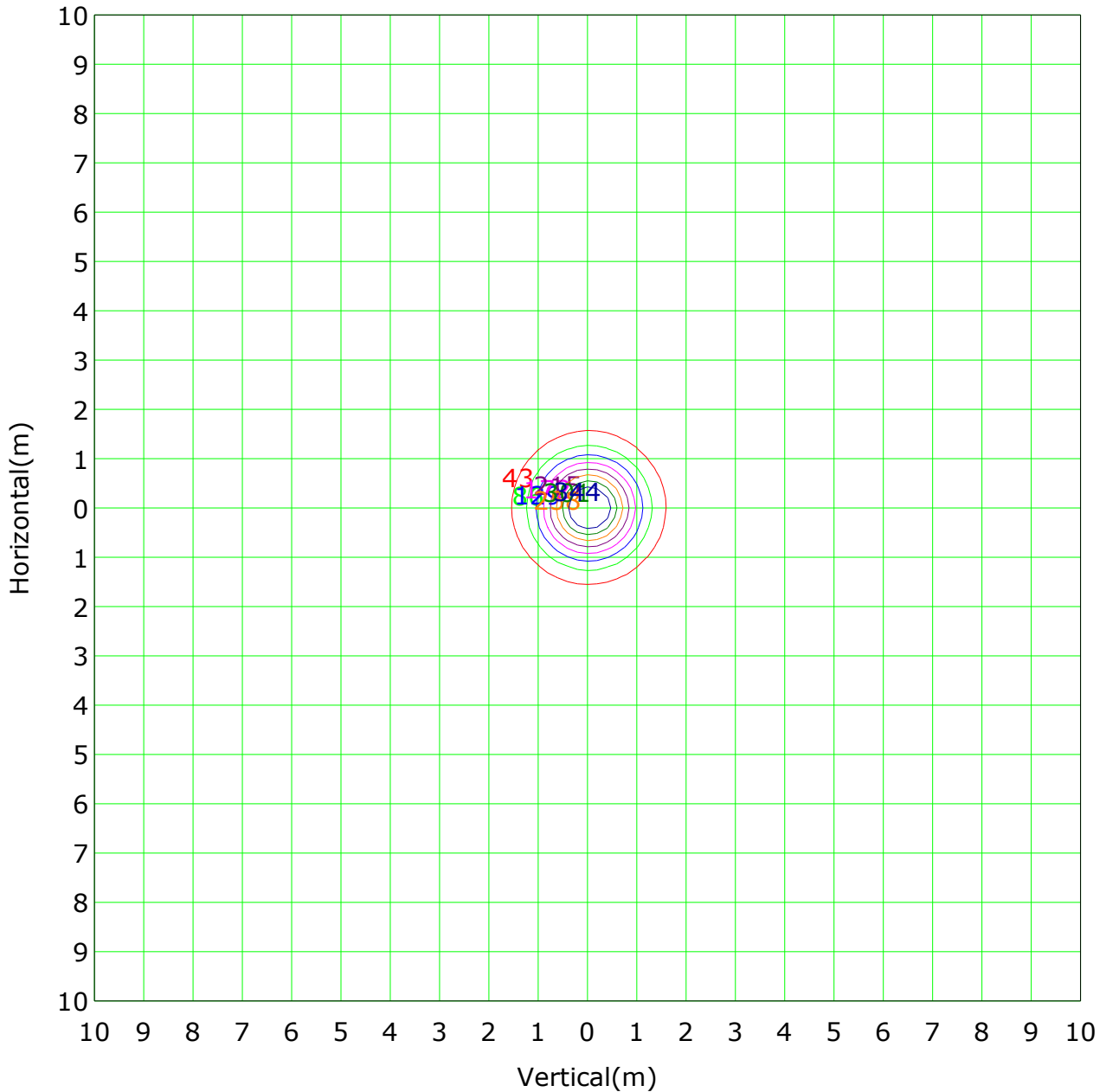
Imax (100%): 8700 cd

— (10%): 870 cd	— (16%): 1392 cd
— (25%): 2175 cd	— (40%): 3480 cd
— (63%): 5481 cd	— (100%): 8700 cd

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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%): 429.5 lx

— (10%): 42.9 lx	— (20%): 85.9 lx
— (30%): 128.8 lx	— (40%): 171.8 lx
— (50%): 214.7 lx	— (60%): 257.7 lx
— (70%): 300.6 lx	— (80%): 343.6 lx

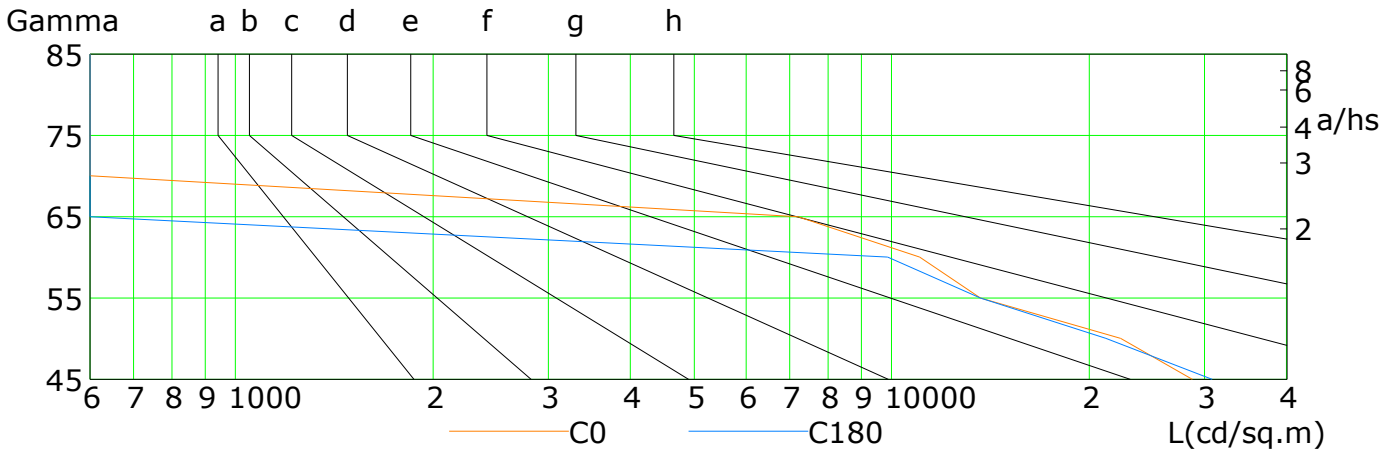
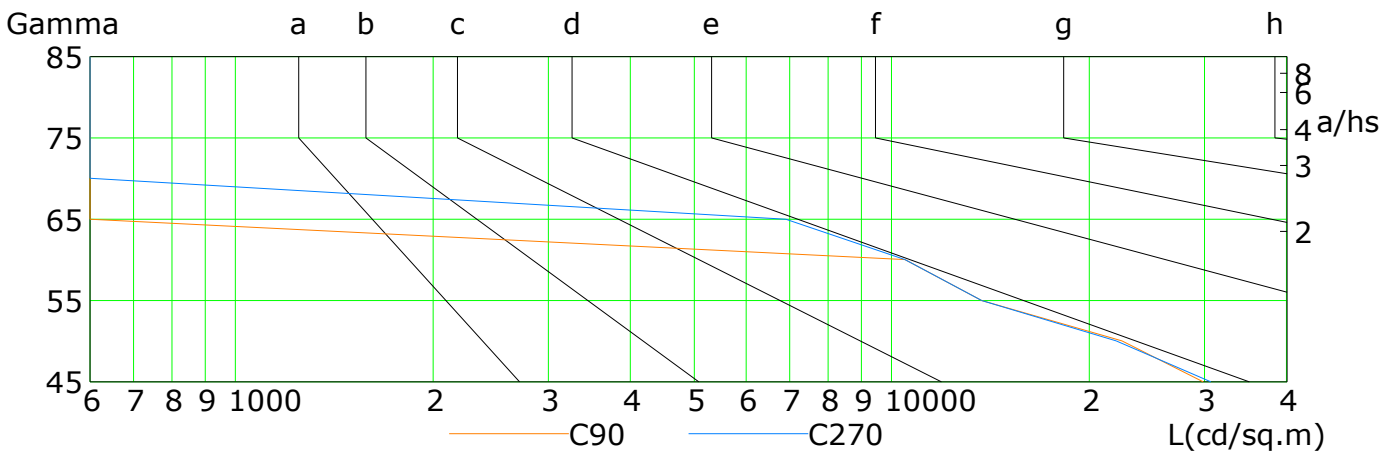
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Temperature: 26
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Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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

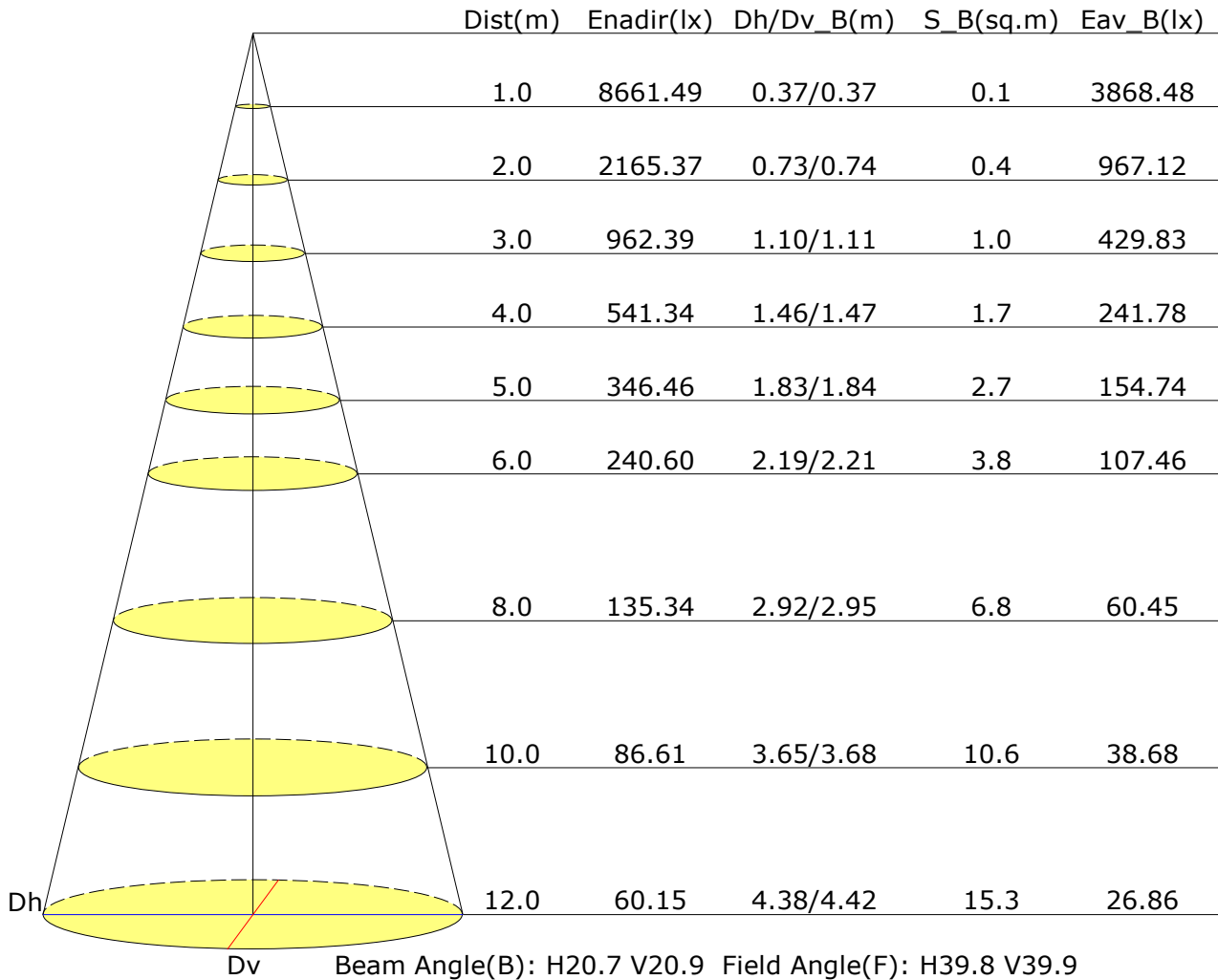


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	28731	22350	13663	11025	7208	0	0	0	0
C90	29864	22433	13714	10484	0	0	0	0	0
C180	30781	21219	13663	9866	0	0	0	0	0
C270	30686	21981	13714	10484	6897	0	0	0	0

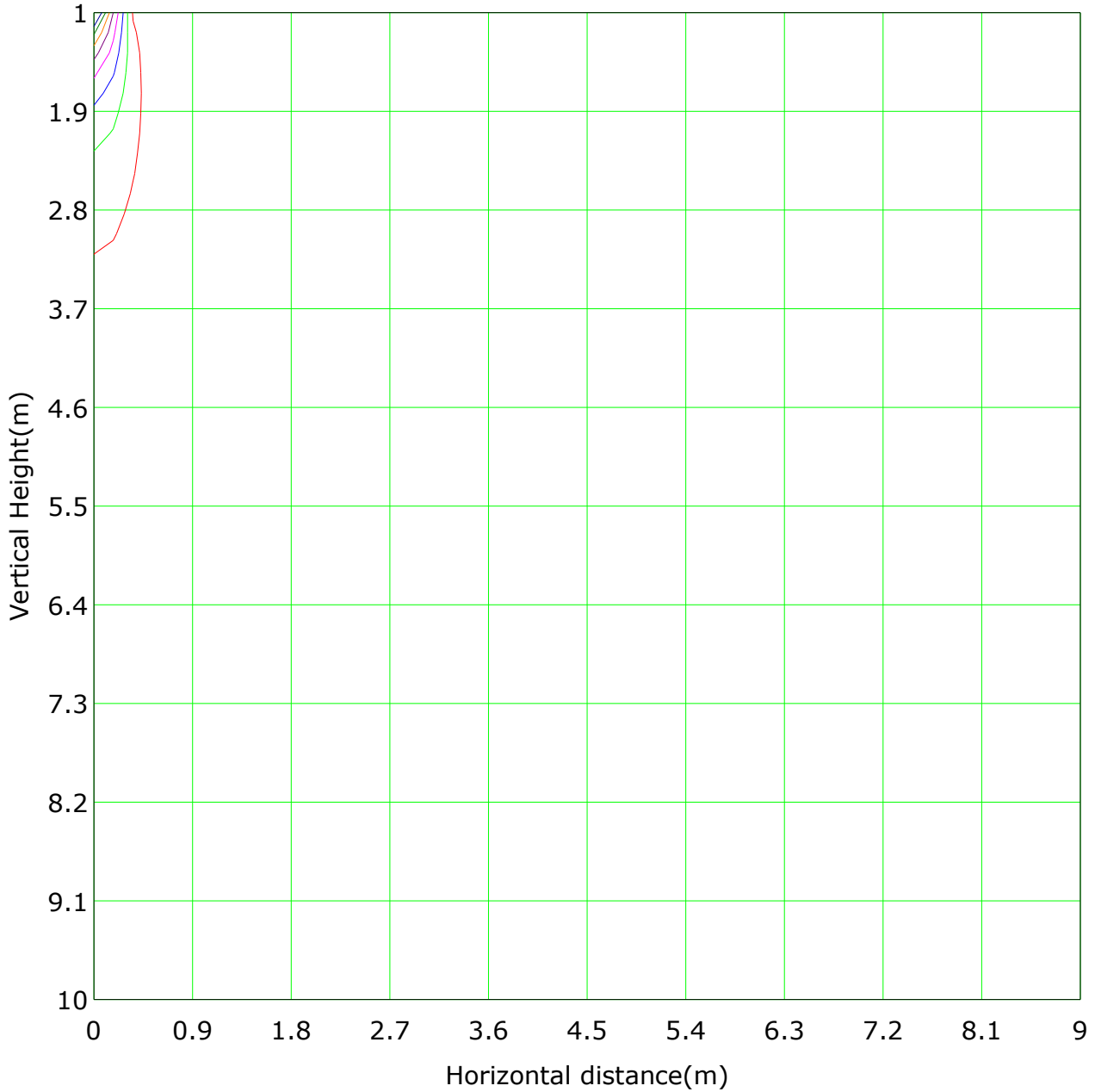
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Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

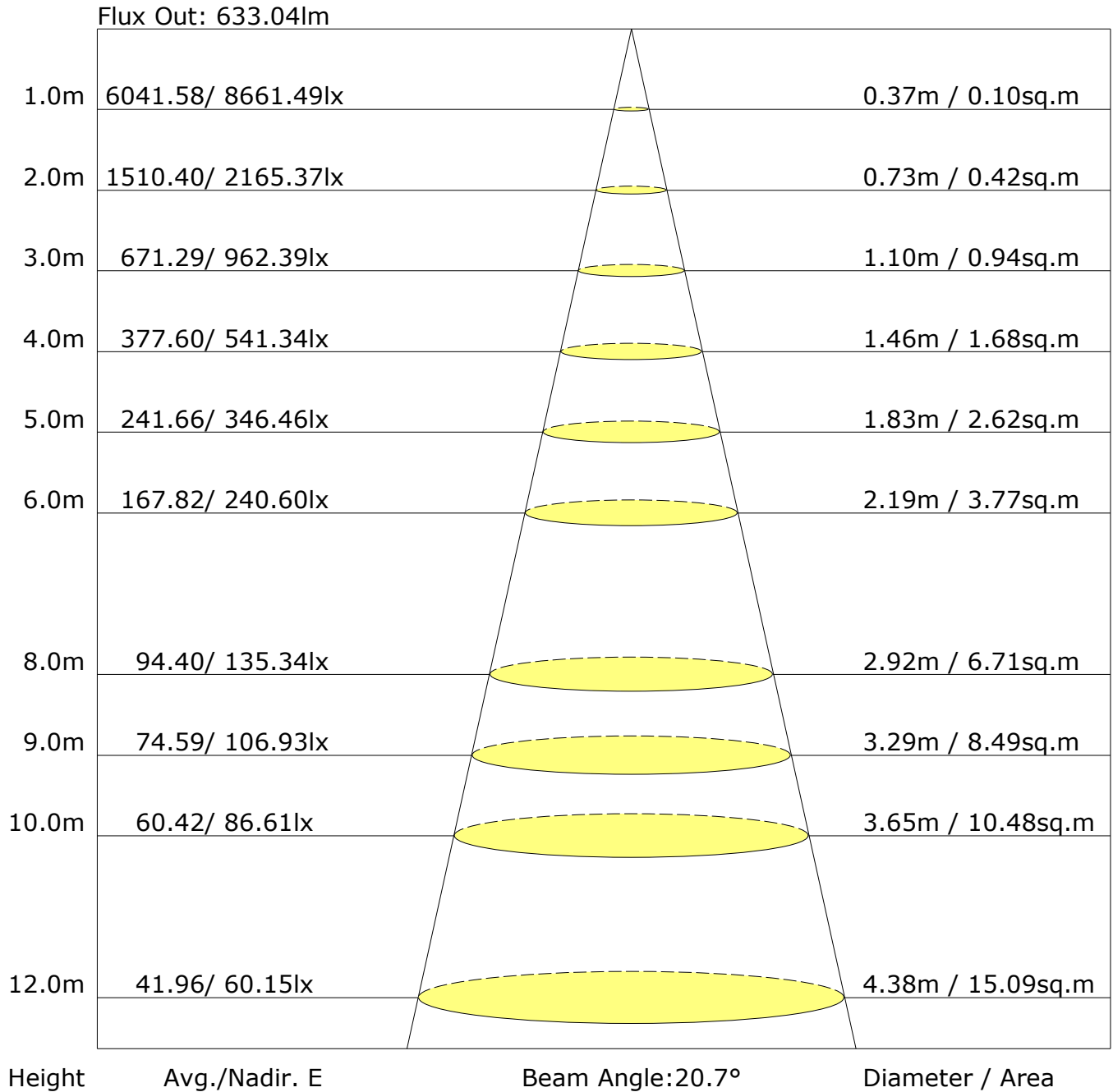


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 8661.5 lx
— (10%): 866.1 lx	— (20%): 1732.3 lx	
— (30%): 2598.4 lx	— (40%): 3464.6 lx	
— (50%): 4330.7 lx	— (60%): 5196.9 lx	
— (70%): 6063.0 lx	— (80%): 6929.2 lx	

C Plane (°): 0.0-360.0: 90.0
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



C Plane (°):0.0-360.0: 90.0
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:

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	14.3	14.9	14.5	15.1	15.3	14.4	15.0	14.7	15.2	15.4
3H	14.2	14.7	14.5	15.0	15.2	14.3	14.8	14.6	15.1	15.3
4H	14.1	14.6	14.4	14.9	15.1	14.2	14.7	14.5	15.0	15.3
6H	14.0	14.5	14.4	14.8	15.1	14.1	14.6	14.5	14.9	15.2
8H	14.0	14.5	14.3	14.8	15.1	14.1	14.6	14.4	14.9	15.2
12H	14.0	14.4	14.3	14.7	15.0	14.1	14.5	14.4	14.8	15.1
X=4H Y=2H	14.3	14.8	14.6	15.0	15.3	14.4	14.9	14.7	15.2	15.4
3H	14.2	14.6	14.5	14.9	15.2	14.3	14.7	14.6	15.0	15.3
4H	14.1	14.5	14.4	14.8	15.2	14.2	14.6	14.5	14.9	15.3
6H	14.0	14.3	14.4	14.7	15.1	14.1	14.4	14.5	14.8	15.2
8H	13.9	14.3	14.3	14.6	15.1	14.0	14.4	14.5	14.7	15.2
12H	13.9	14.2	14.3	14.6	15.0	14.0	14.3	14.4	14.7	15.1
X=8H Y=4H	13.9	14.3	14.3	14.6	15.1	14.0	14.4	14.5	14.7	15.2
6H	13.8	14.1	14.3	14.5	15.0	13.9	14.2	14.4	14.6	15.1
8H	13.8	14.0	14.2	14.5	14.9	13.9	14.1	14.3	14.6	15.0
12H	13.7	13.9	14.2	14.4	14.9	13.8	14.0	14.3	14.5	15.0
X=12H Y=4H	13.9	14.2	14.3	14.6	15.0	14.0	14.3	14.4	14.7	15.1
6H	13.8	14.0	14.2	14.5	14.9	13.9	14.1	14.3	14.6	15.0
8H	13.7	13.9	14.2	14.4	14.9	13.8	14.0	14.3	14.5	15.0
Variations with the observer position at spacings:										
S=1.0H	+2.0/-3.2					+1.7/-3.2				
S=1.5H	+3.9/-4.9					+3.6/-5.0				
S=2.0H	+5.7/-1.5					+5.4/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 1494lm ($8\log(F/F_0) = 1.4$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	8629.4	8.3	8.3	0.55	0.55
1.0-2.0	8501.0	24.4	32.7	1.63	2.19
2.0-3.0	8259.4	39.5	72.2	2.64	4.83
3.0-4.0	7914.5	53.0	125.2	3.55	8.38
4.0-5.0	7487.6	64.4	189.6	4.31	12.69
5.0-6.0	7001.0	73.6	263.2	4.92	17.61
6.0-7.0	6475.0	80.4	343.5	5.38	22.99
7.0-8.0	5923.9	84.8	428.3	5.67	28.66
8.0-9.0	5373.3	87.1	515.4	5.83	34.49
9.0-10.0	4829.1	87.4	602.8	5.85	40.34
10.0-11.0	4287.1	85.7	688.5	5.73	46.08
11.0-12.0	3770.3	82.4	770.9	5.52	51.59
12.0-13.0	3275.0	77.7	848.7	5.20	56.79
13.0-14.0	2814.0	72.0	920.7	4.82	61.61
14.0-15.0	2400.9	65.9	986.6	4.41	66.03
15.0-16.0	2024.6	59.3	1046.0	3.97	70.00
16.0-17.0	1689.1	52.6	1098.6	3.52	73.52
17.0-18.0	1400.6	46.2	1144.7	3.09	76.61
18.0-19.0	1152.2	40.1	1184.8	2.68	79.29
19.0-20.0	946.2	34.6	1219.5	2.32	81.61
20.0-21.0	773.5	29.7	1249.2	1.99	83.60
21.0-22.0	631.7	25.4	1274.6	1.70	85.30
22.0-23.0	519.8	21.8	1296.4	1.46	86.75
23.0-24.0	428.2	18.7	1315.1	1.25	88.01
24.0-25.0	354.5	16.1	1331.2	1.08	89.09
25.0-26.0	295.2	13.9	1345.2	0.93	90.02
26.0-27.0	246.7	12.1	1357.2	0.81	90.83
27.0-28.0	208.3	10.5	1367.8	0.71	91.53
28.0-29.0	177.6	9.3	1377.1	0.62	92.16
29.0-30.0	152.7	8.2	1385.3	0.55	92.71
30.0-31.0	133.2	7.4	1392.7	0.50	93.20
31.0-32.0	117.2	6.7	1399.4	0.45	93.65
32.0-33.0	104.0	6.1	1405.6	0.41	94.06
33.0-34.0	93.3	5.6	1411.2	0.38	94.44
34.0-35.0	84.5	5.2	1416.5	0.35	94.79
35.0-36.0	77.2	4.9	1421.4	0.33	95.12

C Plane (°):0.0-360.0: 90.0
Test Lab: inventfine instruments
Test Type: TYPE C
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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 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	71.3	4.7	1426.0	0.31	95.43
37.0-38.0	66.2	4.4	1430.5	0.30	95.73
38.0-39.0	61.8	4.2	1434.7	0.28	96.01
39.0-40.0	58.1	4.0	1438.7	0.27	96.28
40.0-41.0	54.7	3.9	1442.6	0.26	96.54
41.0-42.0	51.5	3.7	1446.4	0.25	96.79
42.0-43.0	48.5	3.6	1450.0	0.24	97.03
43.0-44.0	45.7	3.5	1453.4	0.23	97.26
44.0-45.0	43.0	3.3	1456.7	0.22	97.48
45.0-46.0	40.3	3.2	1459.9	0.21	97.70
46.0-47.0	37.6	3.0	1462.9	0.20	97.90
47.0-48.0	34.8	2.8	1465.7	0.19	98.08
48.0-49.0	32.1	2.6	1468.3	0.18	98.26
49.0-50.0	29.4	2.4	1470.7	0.16	98.42
50.0-51.0	25.9	2.2	1472.9	0.15	98.57
51.0-52.0	22.1	1.9	1474.8	0.13	98.70
52.0-53.0	18.9	1.6	1476.5	0.11	98.81
53.0-54.0	16.9	1.5	1478.0	0.10	98.91
54.0-55.0	15.8	1.4	1479.4	0.09	99.00
55.0-56.0	14.8	1.3	1480.7	0.09	99.09
56.0-57.0	13.7	1.2	1482.0	0.08	99.17
57.0-58.0	12.6	1.2	1483.1	0.08	99.25
58.0-59.0	11.6	1.1	1484.2	0.07	99.33
59.0-60.0	10.7	1.0	1485.2	0.07	99.39
60.0-61.0	9.8	0.9	1486.2	0.06	99.46
61.0-62.0	8.8	0.9	1487.0	0.06	99.51
62.0-63.0	7.9	0.8	1487.8	0.05	99.56
63.0-64.0	7.0	0.7	1488.5	0.05	99.61
64.0-65.0	4.8	0.5	1489.0	0.03	99.64
65.0-66.0	1.5	0.1	1489.1	0.01	99.65
66.0-67.0	0.0	0.0	1489.1	0.00	99.65
67.0-68.0	0.0	0.0	1489.1	0.00	99.65
68.0-69.0	0.0	0.0	1489.1	0.00	99.65
69.0-70.0	0.0	0.0	1489.1	0.00	99.65
70.0-71.0	0.0	0.0	1489.1	0.00	99.65
71.0-72.0	0.0	0.0	1489.1	0.00	99.65

C Plane (°):0.0-360.0: 90.0
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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 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	0.0	0.0	1489.1	0.00	99.65
73.0-74.0	0.0	0.0	1489.1	0.00	99.65
74.0-75.0	0.0	0.0	1489.1	0.00	99.65
75.0-76.0	0.0	0.0	1489.1	0.00	99.65
76.0-77.0	0.0	0.0	1489.1	0.00	99.65
77.0-78.0	0.0	0.0	1489.1	0.00	99.65
78.0-79.0	0.0	0.0	1489.1	0.00	99.65
79.0-80.0	0.0	0.0	1489.1	0.00	99.65
80.0-81.0	0.0	0.0	1489.1	0.00	99.65
81.0-82.0	0.0	0.0	1489.1	0.00	99.65
82.0-83.0	0.0	0.0	1489.1	0.00	99.65
83.0-84.0	0.0	0.0	1489.1	0.00	99.65
84.0-85.0	0.0	0.0	1489.1	0.00	99.65
85.0-86.0	0.0	0.0	1489.1	0.00	99.65
86.0-87.0	0.0	0.0	1489.1	0.00	99.65
87.0-88.0	0.0	0.0	1489.1	0.00	99.65
88.0-89.0	0.0	0.0	1489.1	0.00	99.65
89.0-90.0	0.0	0.0	1489.1	0.00	99.65
90.0-91.0	0.0	0.0	1489.1	0.00	99.65
91.0-92.0	0.0	0.0	1489.1	0.00	99.65
92.0-93.0	0.0	0.0	1489.1	0.00	99.65
93.0-94.0	0.0	0.0	1489.1	0.00	99.65
94.0-95.0	0.0	0.0	1489.1	0.00	99.65
95.0-96.0	0.0	0.0	1489.1	0.00	99.65
96.0-97.0	0.0	0.0	1489.1	0.00	99.65
97.0-98.0	0.0	0.0	1489.1	0.00	99.65
98.0-99.0	0.0	0.0	1489.1	0.00	99.65
99.0-100.0	0.0	0.0	1489.1	0.00	99.65
100.0-101.0	0.0	0.0	1489.1	0.00	99.65
101.0-102.0	0.0	0.0	1489.1	0.00	99.65
102.0-103.0	0.0	0.0	1489.1	0.00	99.65
103.0-104.0	0.0	0.0	1489.1	0.00	99.65
104.0-105.0	0.0	0.0	1489.1	0.00	99.65
105.0-106.0	0.0	0.0	1489.1	0.00	99.65
106.0-107.0	0.0	0.0	1489.1	0.00	99.65
107.0-108.0	0.0	0.0	1489.1	0.00	99.65

C Plane (°):0.0-360.0: 90.0
 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	0.0	0.0	1489.1	0.00	99.65
109.0-110.0	0.0	0.0	1489.1	0.00	99.65
110.0-111.0	0.0	0.0	1489.1	0.00	99.65
111.0-112.0	0.0	0.0	1489.1	0.00	99.65
112.0-113.0	0.0	0.0	1489.1	0.00	99.65
113.0-114.0	0.0	0.0	1489.1	0.00	99.65
114.0-115.0	0.0	0.0	1489.1	0.00	99.65
115.0-116.0	0.0	0.0	1489.1	0.00	99.65
116.0-117.0	0.0	0.0	1489.1	0.00	99.65
117.0-118.0	0.0	0.0	1489.1	0.00	99.65
118.0-119.0	0.0	0.0	1489.1	0.00	99.65
119.0-120.0	0.0	0.0	1489.1	0.00	99.65
120.0-121.0	0.0	0.0	1489.1	0.00	99.65
121.0-122.0	0.0	0.0	1489.1	0.00	99.65
122.0-123.0	0.0	0.0	1489.1	0.00	99.65
123.0-124.0	0.0	0.0	1489.1	0.00	99.65
124.0-125.0	0.0	0.0	1489.1	0.00	99.65
125.0-126.0	0.0	0.0	1489.1	0.00	99.65
126.0-127.0	0.0	0.0	1489.1	0.00	99.65
127.0-128.0	0.0	0.0	1489.1	0.00	99.65
128.0-129.0	0.0	0.0	1489.1	0.00	99.65
129.0-130.0	0.0	0.0	1489.1	0.00	99.65
130.0-131.0	0.0	0.0	1489.1	0.00	99.65
131.0-132.0	0.0	0.0	1489.1	0.00	99.65
132.0-133.0	0.0	0.0	1489.1	0.00	99.65
133.0-134.0	0.0	0.0	1489.1	0.00	99.65
134.0-135.0	0.0	0.0	1489.1	0.00	99.65
135.0-136.0	0.0	0.0	1489.1	0.00	99.65
136.0-137.0	0.0	0.0	1489.1	0.00	99.65
137.0-138.0	0.0	0.0	1489.1	0.00	99.65
138.0-139.0	0.0	0.0	1489.1	0.00	99.65
139.0-140.0	0.0	0.0	1489.1	0.00	99.65
140.0-141.0	0.0	0.0	1489.1	0.00	99.65
141.0-142.0	0.0	0.0	1489.1	0.00	99.65
142.0-143.0	0.0	0.0	1489.1	0.00	99.65
143.0-144.0	0.0	0.0	1489.1	0.00	99.65

C Plane (°):0.0-360.0: 90.0
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	0.0	0.0	1489.1	0.00	99.65
145.0-146.0	0.0	0.0	1489.1	0.00	99.65
146.0-147.0	0.9	0.1	1489.2	0.00	99.66
147.0-148.0	2.6	0.2	1489.3	0.01	99.67
148.0-149.0	3.6	0.2	1489.5	0.01	99.68
149.0-150.0	4.0	0.2	1489.7	0.01	99.69
150.0-151.0	4.5	0.2	1490.0	0.02	99.71
151.0-152.0	4.8	0.3	1490.2	0.02	99.73
152.0-153.0	5.1	0.3	1490.5	0.02	99.74
153.0-154.0	5.5	0.3	1490.8	0.02	99.76
154.0-155.0	5.7	0.3	1491.0	0.02	99.78
155.0-156.0	6.0	0.3	1491.3	0.02	99.80
156.0-157.0	6.9	0.3	1491.6	0.02	99.82
157.0-158.0	7.0	0.3	1491.9	0.02	99.84
158.0-159.0	7.0	0.3	1492.2	0.02	99.86
159.0-160.0	7.7	0.3	1492.5	0.02	99.88
160.0-161.0	8.4	0.3	1492.8	0.02	99.90
161.0-162.0	8.1	0.3	1493.1	0.02	99.92
162.0-163.0	6.6	0.2	1493.3	0.01	99.93
163.0-164.0	5.7	0.2	1493.5	0.01	99.94
164.0-165.0	5.4	0.2	1493.6	0.01	99.95
165.0-166.0	5.1	0.1	1493.8	0.01	99.96
166.0-167.0	4.9	0.1	1493.9	0.01	99.97
167.0-168.0	4.5	0.1	1494.0	0.01	99.98
168.0-169.0	4.1	0.1	1494.1	0.01	99.98
169.0-170.0	3.7	0.1	1494.1	0.01	99.99
170.0-171.0	3.5	0.1	1494.2	0.00	99.99
171.0-172.0	3.2	0.1	1494.3	0.00	100.00
172.0-173.0	2.2	0.0	1494.3	0.00	100.00
173.0-174.0	0.7	0.0	1494.3	0.00	100.00
174.0-175.0	0.0	0.0	1494.3	0.00	100.00
175.0-176.0	0.0	0.0	1494.3	0.00	100.00
176.0-177.0	0.0	0.0	1494.3	0.00	100.00
177.0-178.0	0.0	0.0	1494.3	0.00	100.00
178.0-179.0	0.0	0.0	1494.3	0.00	100.00
179.0-180.0	0.0	0.0	1494.3	0.00	100.00

C Plane (°):0.0-360.0: 90.0
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°): 1456.71 lm

%lum = 97.5%

%lamp = 97.5%

cone flux(120°): 1485.24 lm

%lum = 99.4%

%lamp = 99.4%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	8661.5	8661.5	8661.5	8661.5	8661.5					
G1.0	8625.3	8700.4	8579.2	8484.2	8625.3					
G2.0	8440.7	8614.3	8354.7	8209.7	8440.7					
G3.0	8151.8	8389.5	8060.1	7854.8	8151.8					
G4.0	7770.0	8065.0	7635.9	7389.3	7770.0					
G5.0	7272.0	7653.5	7192.8	6922.6	7272.0					
G6.0	6771.2	7127.3	6706.2	6362.4	6771.2					
G7.0	6235.0	6621.7	6134.7	5841.1	6235.0					
G8.0	5634.7	6038.1	5608.8	5277.1	5634.7					
G9.0	5094.0	5503.3	5070.6	4759.8	5094.0					
G10.0	4567.2	4913.4	4480.0	4244.2	4567.2					
G11.0	3996.0	4392.9	3957.0	3745.8	3996.0					
G12.0	3503.1	3875.9	3462.9	3228.5	3503.1					
G13.0	3038.7	3336.9	2962.9	2790.7	3038.7					
G14.0	2604.8	2879.4	2544.4	2353.7	2604.8					
G15.0	2207.7	2451.3	2168.9	1996.6	2207.7					
G16.0	1819.4	2062.9	1808.5	1681.2	1819.4					
G17.0	1513.4	1722.3	1522.2	1382.9	1513.4					
G18.0	1247.0	1423.5	1244.7	1148.4	1247.0					
G19.0	1021.1	1147.3	1032.2	953.7	1021.1					
G20.0	833.6	940.5	854.4	786.7	833.6					
G21.0	672.1	770.7	692.9	637.4	672.1					
G22.0	556.1	624.0	573.2	527.3	556.1					
G23.0	451.8	514.4	475.5	436.1	451.8					
G24.0	375.2	426.9	390.0	355.7	375.2					
G25.0	312.2	354.3	325.6	295.7	312.2					
G26.0	261.5	290.0	273.2	248.8	261.5					
G27.0	221.1	244.2	227.1	207.6	221.1					
G28.0	188.3	207.3	194.0	177.0	188.3					
G29.0	159.0	177.9	167.0	150.7	159.0					
G30.0	138.5	155.3	141.9	131.3	138.5					
G31.0	121.9	136.1	124.8	115.5	121.9					
G32.0	106.8	118.7	111.1	102.7	106.8					
G33.0	94.9	105.8	99.1	92.9	94.9					
G34.0	84.9	94.1	90.6	84.1	84.9					
G35.0	76.1	85.2	83.2	77.5	76.1					
G36.0	69.2	77.8	76.9	72.1	69.2					

C Plane (°):0.0-360.0: 90.0
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	C90.0	C180.0	C270.0	C360.0					
G37.0	63.8	71.5	71.5	67.5	63.8					
G38.0	59.0	65.8	66.7	63.8	59.0					
G39.0	55.3	61.2	63.0	60.1	55.3					
G40.0	51.9	57.5	58.4	57.2	51.9					
G41.0	49.6	53.5	55.3	54.1	49.6					
G42.0	46.7	50.0	51.9	50.9	46.7					
G43.0	44.2	46.9	49.0	48.0	44.2					
G44.0	42.4	44.3	45.3	45.5	42.4					
G45.0	39.9	41.5	42.7	42.6	39.9					
G46.0	37.9	38.9	39.9	39.2	37.9					
G47.0	35.0	36.0	36.8	36.9	35.0					
G48.0	32.2	33.5	33.6	34.0	32.2					
G49.0	30.2	30.9	31.3	31.5	30.2					
G50.0	28.2	28.3	26.8	27.7	28.2					
G51.0	25.4	25.4	22.5	22.6	25.4					
G52.0	21.1	21.2	19.4	19.2	21.1					
G53.0	17.7	18.0	17.4	17.4	17.7					
G54.0	16.2	16.6	16.0	16.3	16.2					
G55.0	15.4	15.4	15.4	15.4	15.4					
G56.0	14.2	14.0	14.2	14.3	14.2					
G57.0	13.1	13.1	13.1	13.1	13.1					
G58.0	12.0	12.3	12.0	12.3	12.0					
G59.0	11.1	11.4	10.8	11.2	11.1					
G60.0	10.8	10.3	9.7	10.3	10.8					
G61.0	9.7	9.2	8.8	9.4	9.7					
G62.0	8.5	8.3	8.3	8.6	8.5					
G63.0	7.7	7.4	7.4	7.1	7.7					
G64.0	6.8	6.6	6.3	6.9	6.8					
G65.0	6.0	0.0	0.0	5.7	6.0					
G66.0	0.0	0.0	0.0	0.0	0.0					
G67.0	0.0	0.0	0.0	0.0	0.0					
G68.0	0.0	0.0	0.0	0.0	0.0					
G69.0	0.0	0.0	0.0	0.0	0.0					
G70.0	0.0	0.0	0.0	0.0	0.0					
G71.0	0.0	0.0	0.0	0.0	0.0					
G72.0	0.0	0.0	0.0	0.0	0.0					
G73.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0
 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	C90.0	C180.0	C270.0	C360.0					
G74.0	0.0	0.0	0.0	0.0	0.0					
G75.0	0.0	0.0	0.0	0.0	0.0					
G76.0	0.0	0.0	0.0	0.0	0.0					
G77.0	0.0	0.0	0.0	0.0	0.0					
G78.0	0.0	0.0	0.0	0.0	0.0					
G79.0	0.0	0.0	0.0	0.0	0.0					
G80.0	0.0	0.0	0.0	0.0	0.0					
G81.0	0.0	0.0	0.0	0.0	0.0					
G82.0	0.0	0.0	0.0	0.0	0.0					
G83.0	0.0	0.0	0.0	0.0	0.0					
G84.0	0.0	0.0	0.0	0.0	0.0					
G85.0	0.0	0.0	0.0	0.0	0.0					
G86.0	0.0	0.0	0.0	0.0	0.0					
G87.0	0.0	0.0	0.0	0.0	0.0					
G88.0	0.0	0.0	0.0	0.0	0.0					
G89.0	0.0	0.0	0.0	0.0	0.0					
G90.0	0.0	0.0	0.0	0.0	0.0					
G91.0	0.0	0.0	0.0	0.0	0.0					
G92.0	0.0	0.0	0.0	0.0	0.0					
G93.0	0.0	0.0	0.0	0.0	0.0					
G94.0	0.0	0.0	0.0	0.0	0.0					
G95.0	0.0	0.0	0.0	0.0	0.0					
G96.0	0.0	0.0	0.0	0.0	0.0					
G97.0	0.0	0.0	0.0	0.0	0.0					
G98.0	0.0	0.0	0.0	0.0	0.0					
G99.0	0.0	0.0	0.0	0.0	0.0					
G100.0	0.0	0.0	0.0	0.0	0.0					
G101.0	0.0	0.0	0.0	0.0	0.0					
G102.0	0.0	0.0	0.0	0.0	0.0					
G103.0	0.0	0.0	0.0	0.0	0.0					
G104.0	0.0	0.0	0.0	0.0	0.0					
G105.0	0.0	0.0	0.0	0.0	0.0					
G106.0	0.0	0.0	0.0	0.0	0.0					
G107.0	0.0	0.0	0.0	0.0	0.0					
G108.0	0.0	0.0	0.0	0.0	0.0					
G109.0	0.0	0.0	0.0	0.0	0.0					
G110.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0
 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	C90.0	C180.0	C270.0	C360.0					
G111.0	0.0	0.0	0.0	0.0	0.0					
G112.0	0.0	0.0	0.0	0.0	0.0					
G113.0	0.0	0.0	0.0	0.0	0.0					
G114.0	0.0	0.0	0.0	0.0	0.0					
G115.0	0.0	0.0	0.0	0.0	0.0					
G116.0	0.0	0.0	0.0	0.0	0.0					
G117.0	0.0	0.0	0.0	0.0	0.0					
G118.0	0.0	0.0	0.0	0.0	0.0					
G119.0	0.0	0.0	0.0	0.0	0.0					
G120.0	0.0	0.0	0.0	0.0	0.0					
G121.0	0.0	0.0	0.0	0.0	0.0					
G122.0	0.0	0.0	0.0	0.0	0.0					
G123.0	0.0	0.0	0.0	0.0	0.0					
G124.0	0.0	0.0	0.0	0.0	0.0					
G125.0	0.0	0.0	0.0	0.0	0.0					
G126.0	0.0	0.0	0.0	0.0	0.0					
G127.0	0.0	0.0	0.0	0.0	0.0					
G128.0	0.0	0.0	0.0	0.0	0.0					
G129.0	0.0	0.0	0.0	0.0	0.0					
G130.0	0.0	0.0	0.0	0.0	0.0					
G131.0	0.0	0.0	0.0	0.0	0.0					
G132.0	0.0	0.0	0.0	0.0	0.0					
G133.0	0.0	0.0	0.0	0.0	0.0					
G134.0	0.0	0.0	0.0	0.0	0.0					
G135.0	0.0	0.0	0.0	0.0	0.0					
G136.0	0.0	0.0	0.0	0.0	0.0					
G137.0	0.0	0.0	0.0	0.0	0.0					
G138.0	0.0	0.0	0.0	0.0	0.0					
G139.0	0.0	0.0	0.0	0.0	0.0					
G140.0	0.0	0.0	0.0	0.0	0.0					
G141.0	0.0	0.0	0.0	0.0	0.0					
G142.0	0.0	0.0	0.0	0.0	0.0					
G143.0	0.0	0.0	0.0	0.0	0.0					
G144.0	0.0	0.0	0.0	0.0	0.0					
G145.0	0.0	0.0	0.0	0.0	0.0					
G146.0	0.0	0.0	0.0	0.0	0.0					
G147.0	6.8	0.0	0.0	0.0	6.8					

C Plane (°):0.0-360.0: 90.0
 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	C90.0	C180.0	C270.0	C360.0					
G148.0	7.4	6.3	0.0	0.0	7.4					
G149.0	8.0	6.9	0.0	0.0	8.0					
G150.0	9.1	8.0	0.0	0.0	9.1					
G151.0	10.0	8.6	0.0	0.0	10.0					
G152.0	10.5	9.2	0.0	0.0	10.5					
G153.0	11.4	9.7	0.0	0.0	11.4					
G154.0	12.0	10.6	0.0	0.0	12.0					
G155.0	12.3	11.2	0.0	0.0	12.3					
G156.0	12.8	11.4	0.0	0.0	12.8					
G157.0	13.1	12.0	5.7	0.0	13.1					
G158.0	13.1	12.3	0.0	0.0	13.1					
G159.0	13.1	12.0	5.7	0.0	13.1					
G160.0	13.4	12.0	5.7	0.0	13.4					
G161.0	12.5	12.0	5.7	5.7	12.5					
G162.0	12.0	11.4	0.0	5.7	12.0					
G163.0	12.0	11.4	0.0	0.0	12.0					
G164.0	11.4	10.6	0.0	0.0	11.4					
G165.0	10.8	10.3	0.0	0.0	10.8					
G166.0	10.0	10.0	0.0	0.0	10.0					
G167.0	9.4	9.4	0.0	0.0	9.4					
G168.0	8.8	8.6	0.0	0.0	8.8					
G169.0	8.0	7.4	0.0	0.0	8.0					
G170.0	7.4	7.1	0.0	0.0	7.4					
G171.0	6.8	6.6	0.0	0.0	6.8					
G172.0	6.0	6.3	0.0	0.0	6.0					
G173.0	5.7	0.0	0.0	0.0	5.7					
G174.0	0.0	0.0	0.0	0.0	0.0					
G175.0	0.0	0.0	0.0	0.0	0.0					
G176.0	0.0	0.0	0.0	0.0	0.0					
G177.0	0.0	0.0	0.0	0.0	0.0					
G178.0	0.0	0.0	0.0	0.0	0.0					
G179.0	0.0	0.0	0.0	0.0	0.0					
G180.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0
 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	3603.90
L 0-180(75) av	0.00
L 0-180(85) av	0.00
L 90-270(65) av	3448.25
L 90-270(75) av	0.00
L 90-270(85) av	0.00
L 45(65) av	3526.08
L 45(75) av	0.00
L 45(85) av	0.00

Standard: GB/T 29293-2012