

Report No.: TH-4334A

Test Time: 2023/7/7 11:40

Luminaire Property

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

Luminaire Description: GT-021
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 0.000 V
Power: 0.00 W

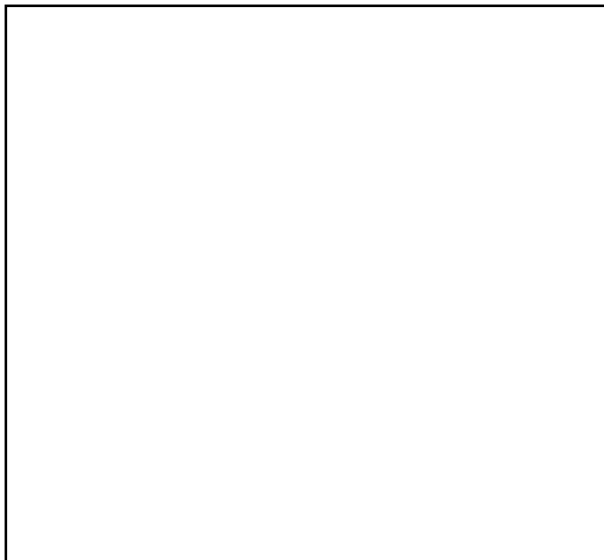
Photometric Results

CIE Class: Direct
Measurement Flux: 104.9 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H105.9
Vertical Diffuse Angle(50%): V105.7
Luminaire Efficacy Rating (LER): 104.94
Max. Intensity: 43.14 cd
S/MH(C0/C180): 1.27

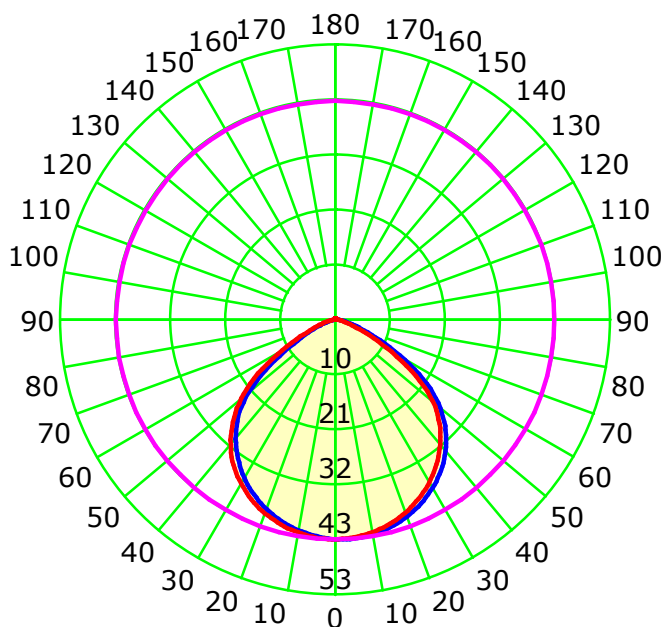
Total Rated Lamp Lumens: 104.9 lm
Efficiency: 100%
Upward Ratio: 1%

C0r0 Intensity: 43.07 cd
Pos of Max. Intensity: H0 V3
S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

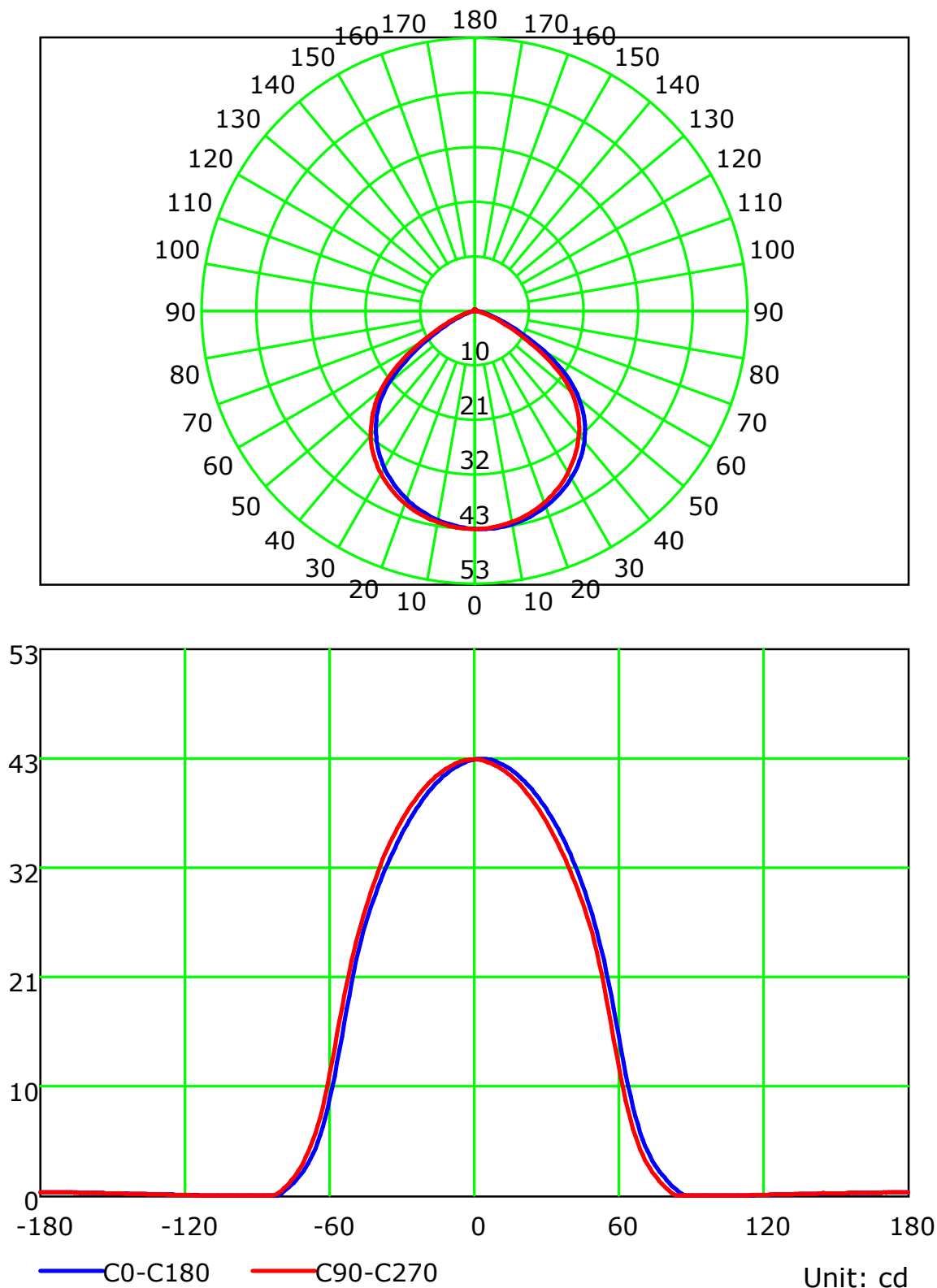
Average Diffuse Angle(50%): 105.8°

— C0-C180 — C90-C270 — G3

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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Inspector:

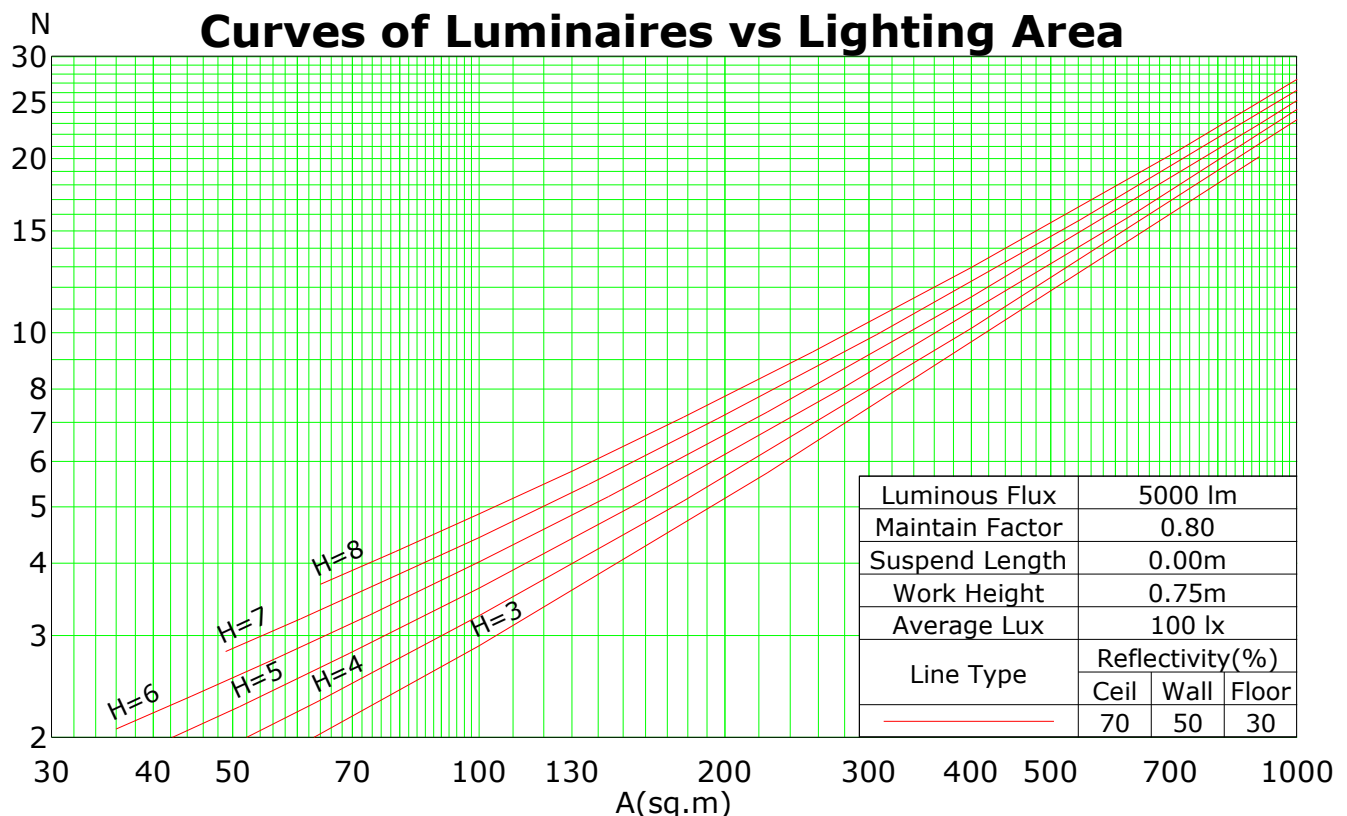
Coefficients Of Utilization - Zonal Cavity Method

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	0.99
1	1.11	1.07	1.03	1.00	1.08	1.04	1.01	0.98	1.00	0.97	0.95	0.96	0.94	0.92	0.93	0.91	0.89	0.87
2	1.02	0.95	0.89	0.84	0.99	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.82	0.79	0.83	0.80	0.77	0.75
3	0.94	0.84	0.77	0.71	0.91	0.83	0.76	0.71	0.80	0.74	0.69	0.77	0.72	0.68	0.74	0.70	0.67	0.65
4	0.86	0.75	0.67	0.61	0.84	0.74	0.67	0.61	0.72	0.65	0.60	0.69	0.64	0.59	0.67	0.62	0.58	0.56
5	0.80	0.68	0.60	0.53	0.78	0.67	0.59	0.53	0.65	0.58	0.52	0.63	0.57	0.52	0.61	0.56	0.51	0.49
6	0.74	0.61	0.53	0.47	0.72	0.60	0.52	0.47	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.50	0.45	0.43
7	0.68	0.56	0.47	0.42	0.67	0.55	0.47	0.41	0.53	0.46	0.41	0.52	0.46	0.41	0.51	0.45	0.41	0.39
8	0.64	0.51	0.43	0.37	0.62	0.50	0.43	0.37	0.49	0.42	0.37	0.48	0.41	0.37	0.46	0.41	0.36	0.35
9	0.60	0.47	0.39	0.34	0.58	0.46	0.39	0.34	0.45	0.38	0.33	0.44	0.38	0.33	0.43	0.37	0.33	0.31
10	0.56	0.43	0.36	0.31	0.55	0.43	0.35	0.30	0.42	0.35	0.30	0.41	0.34	0.30	0.40	0.34	0.30	0.28

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.28

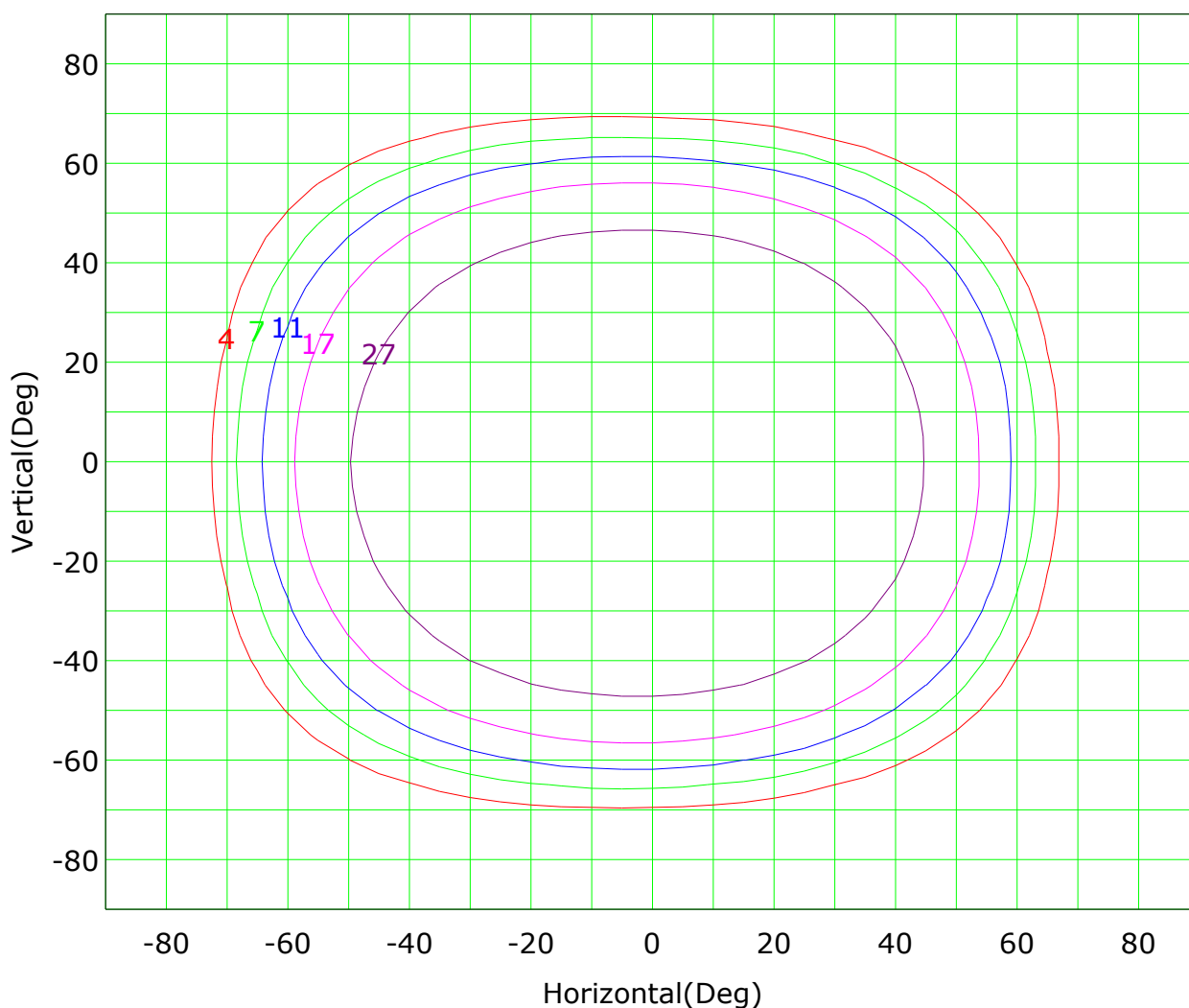
Spacing Criteria (Diagonal): 1.38



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

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

Isocandela (rectangle)



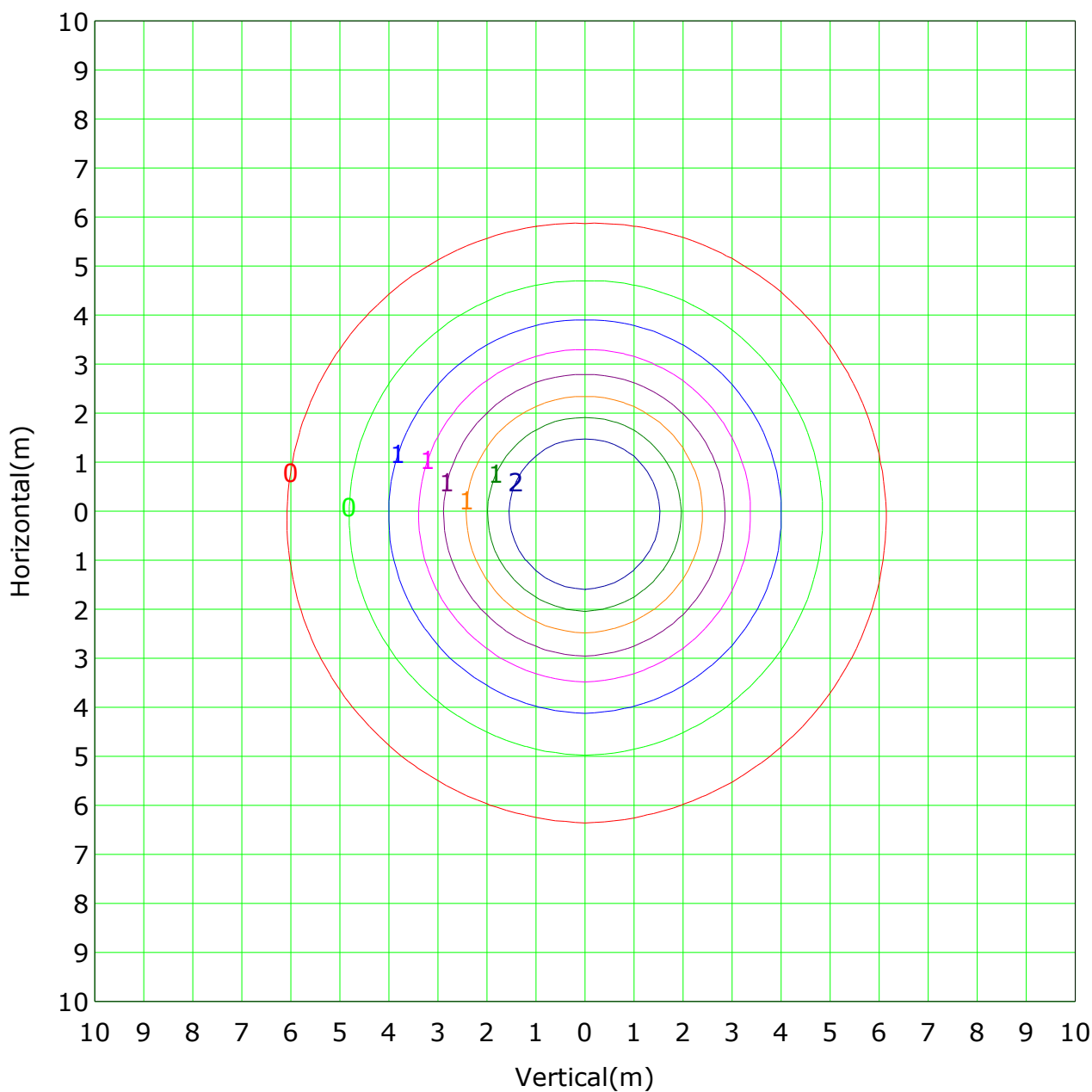
Imax (100%): 43 cd

(10%):	4 cd	(16%):	7 cd
(25%):	11 cd	(40%):	17 cd
(63%):	27 cd	(100%):	43 cd

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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:

IsoLux Plot



Mounting Height: 4.5m Max Lux(100%): 2.1 lx

(10%): 0.2 lx	(20%): 0.4 lx
(30%): 0.6 lx	(40%): 0.9 lx
(50%): 1.1 lx	(60%): 1.3 lx
(70%): 1.5 lx	(80%): 1.7 lx

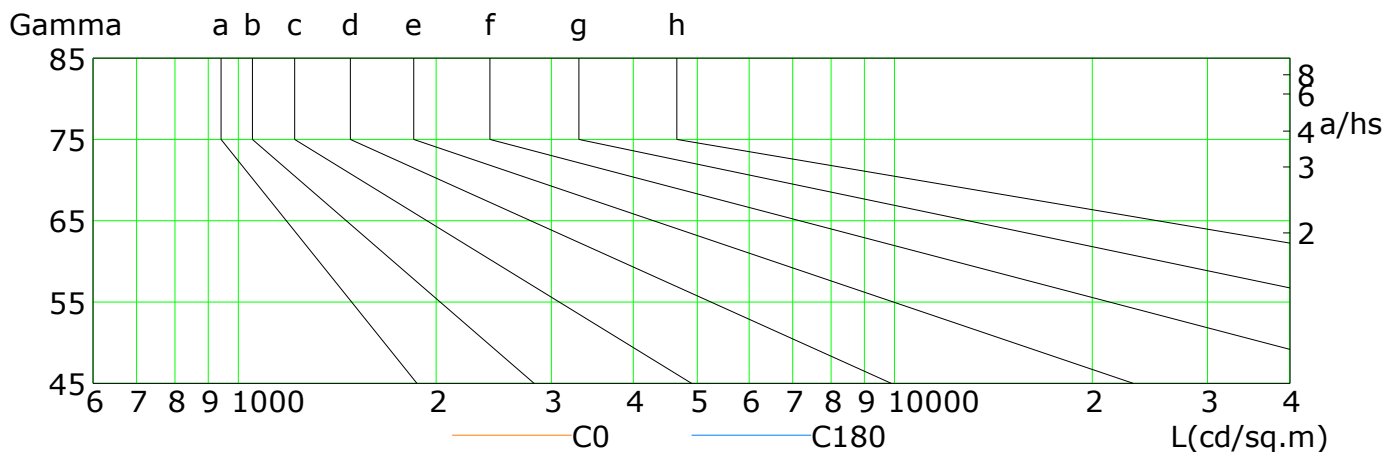
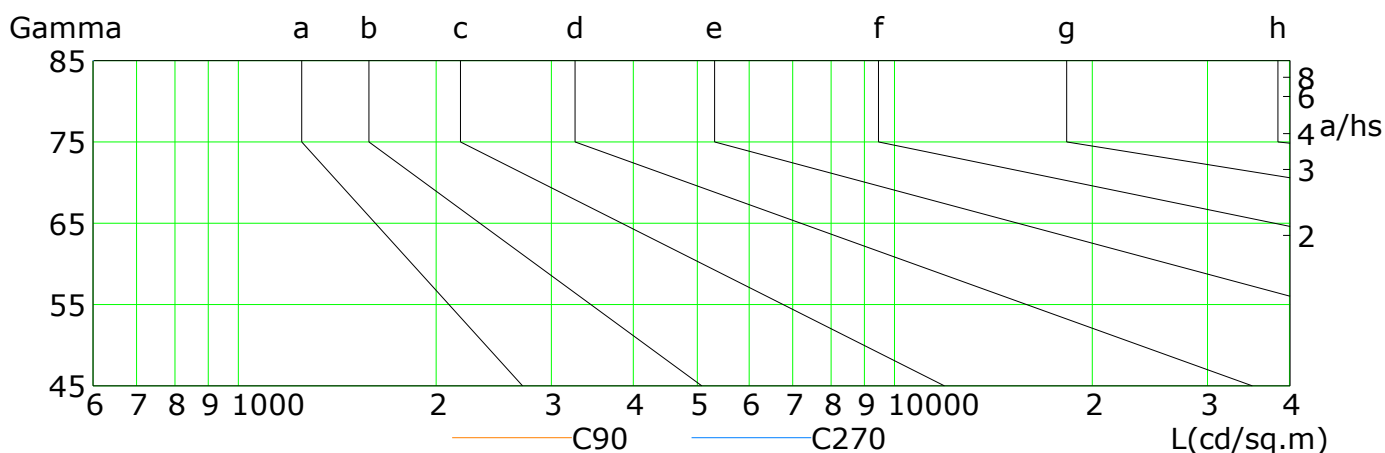
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Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
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Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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

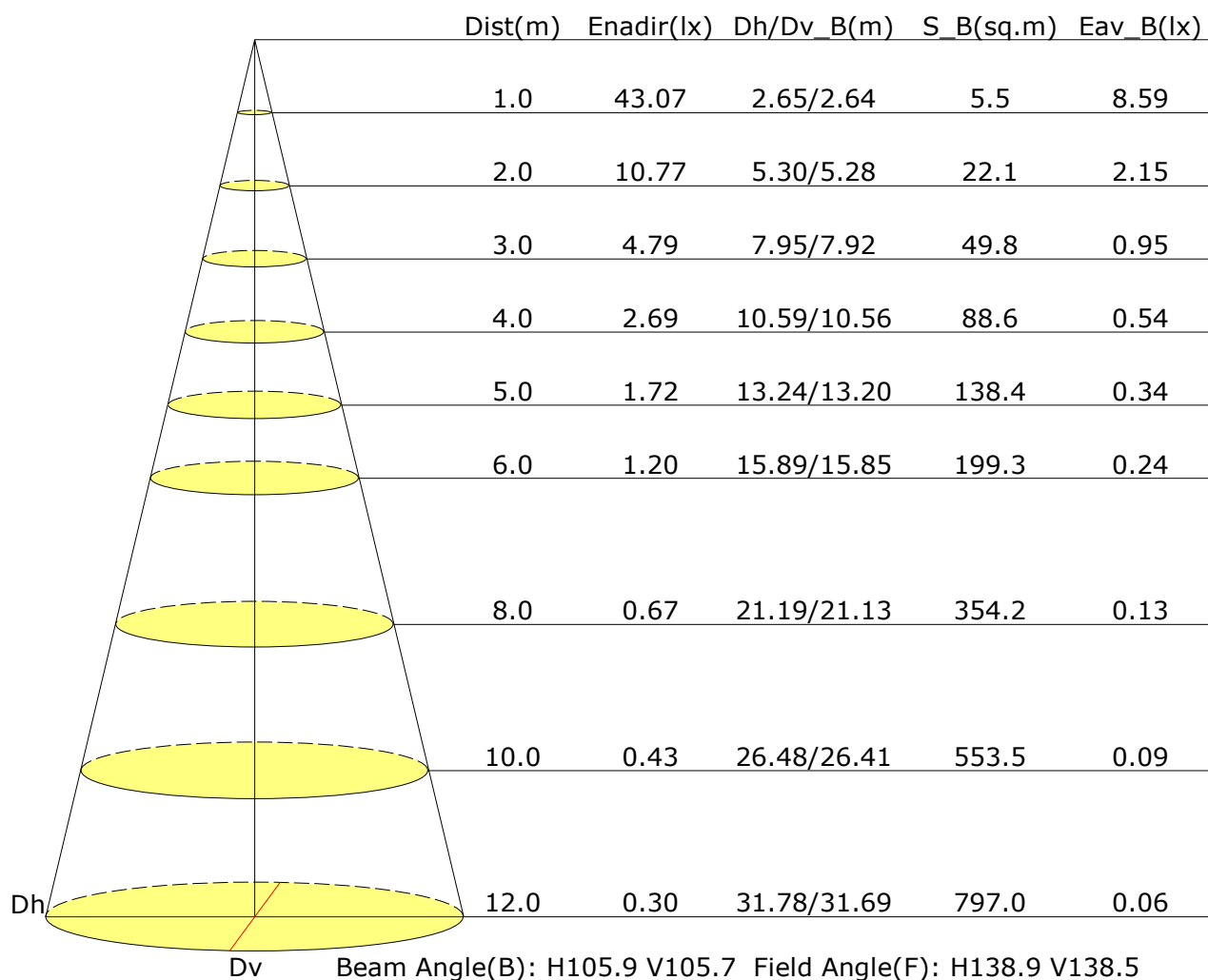


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	31	27	22	16	10	6	3	2	0
C90	29	25	19	13	7	4	2	1	0
C180	27	22	16	10	5	3	1	0	0
C270	28	24	19	12	7	4	2	1	0

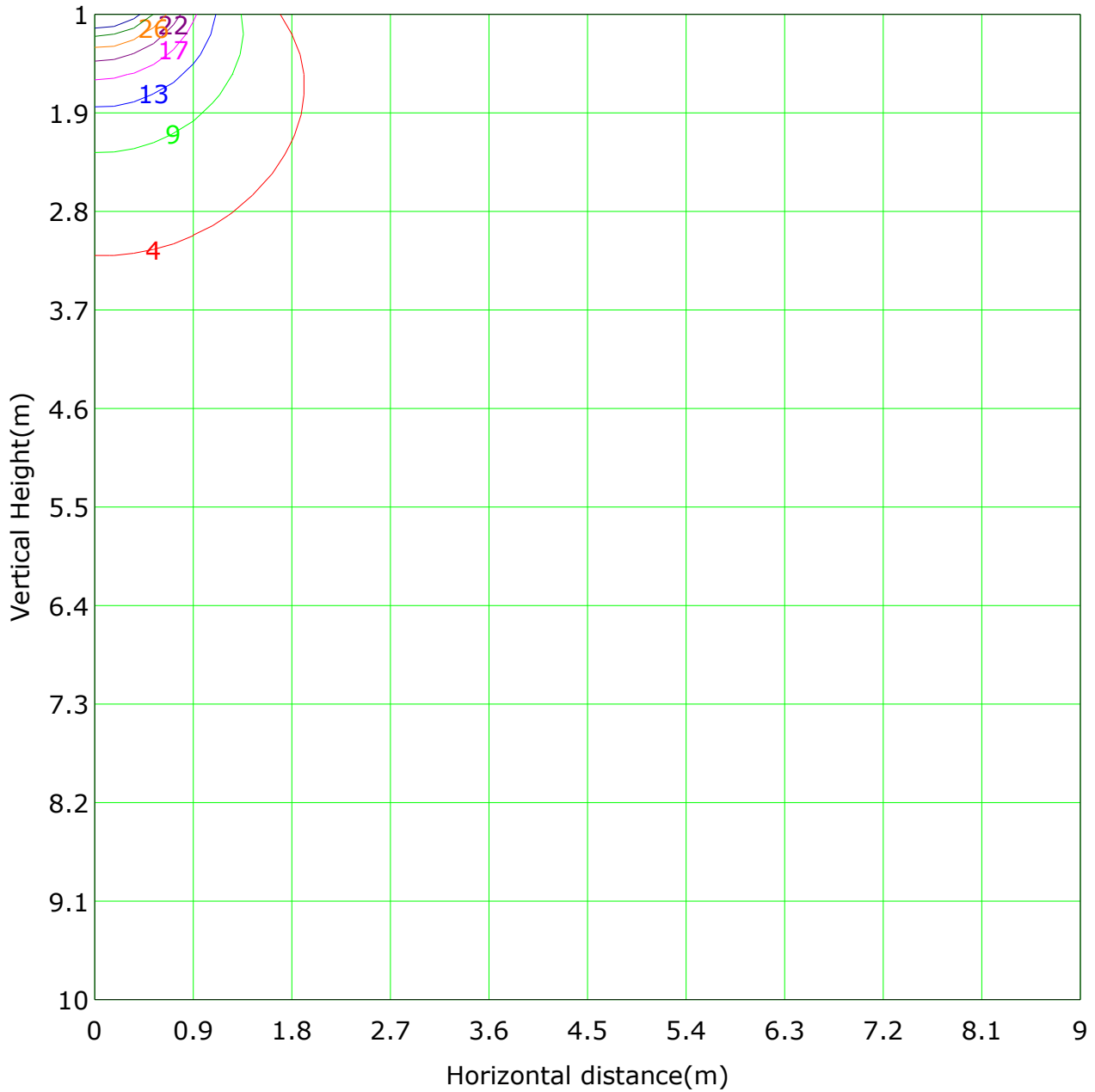
C Plane (°):0.0-360.0: 90.0
Test Lab: inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

Illuminance at a Distance



Vertical IsoLux Plot

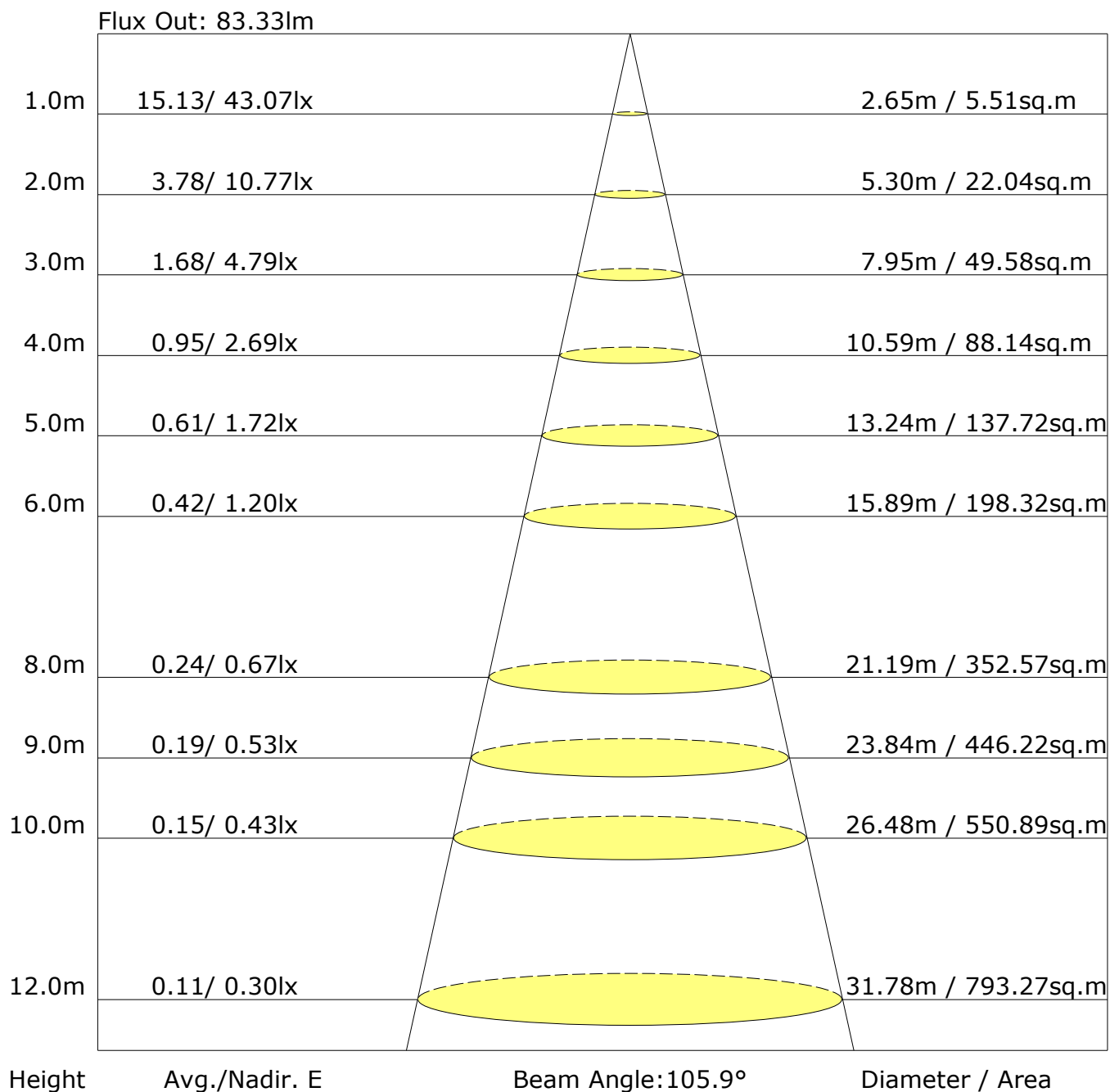


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 43.1 lx
— (10%): 4.3 lx	— (20%): 8.6 lx	
— (30%): 12.9 lx	— (40%): 17.2 lx	
— (50%): 21.5 lx	— (60%): 25.8 lx	
— (70%): 30.2 lx	— (80%): 34.5 lx	

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



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 105lm ($8\log(F/F_0) = -7.8$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	43.1	0.0	0.0	0.04	0.04
1.0-2.0	43.1	0.1	0.2	0.12	0.16
2.0-3.0	43.0	0.2	0.4	0.20	0.35
3.0-4.0	43.0	0.3	0.7	0.27	0.63
4.0-5.0	42.9	0.4	1.0	0.35	0.98
5.0-6.0	42.8	0.5	1.5	0.43	1.41
6.0-7.0	42.8	0.5	2.0	0.51	1.92
7.0-8.0	42.7	0.6	2.6	0.58	2.50
8.0-9.0	42.5	0.7	3.3	0.66	3.15
9.0-10.0	42.4	0.8	4.1	0.73	3.89
10.0-11.0	42.3	0.8	4.9	0.81	4.69
11.0-12.0	42.1	0.9	5.8	0.88	5.57
12.0-13.0	42.0	1.0	6.8	0.95	6.52
13.0-14.0	41.8	1.1	7.9	1.02	7.54
14.0-15.0	41.6	1.1	9.1	1.09	8.63
15.0-16.0	41.4	1.2	10.3	1.16	9.79
16.0-17.0	41.2	1.3	11.6	1.22	11.01
17.0-18.0	41.0	1.4	12.9	1.29	12.30
18.0-19.0	40.7	1.4	14.3	1.35	13.65
19.0-20.0	40.5	1.5	15.8	1.41	15.06
20.0-21.0	40.2	1.5	17.3	1.47	16.54
21.0-22.0	39.9	1.6	19.0	1.53	18.07
22.0-23.0	39.6	1.7	20.6	1.59	19.65
23.0-24.0	39.3	1.7	22.3	1.64	21.29
24.0-25.0	39.0	1.8	24.1	1.69	22.98
25.0-26.0	38.7	1.8	25.9	1.74	24.73
26.0-27.0	38.3	1.9	27.8	1.79	26.51
27.0-28.0	38.0	1.9	29.7	1.83	28.35
28.0-29.0	37.6	2.0	31.7	1.87	30.22
29.0-30.0	37.2	2.0	33.7	1.91	32.14
30.0-31.0	36.8	2.0	35.8	1.95	34.09
31.0-32.0	36.4	2.1	37.8	1.99	36.07
32.0-33.0	35.9	2.1	40.0	2.02	38.09
33.0-34.0	35.5	2.1	42.1	2.05	40.14
34.0-35.0	35.0	2.2	44.3	2.07	42.21
35.0-36.0	34.5	2.2	46.5	2.09	44.30

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Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

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	34.0	2.2	48.7	2.11	46.42
37.0-38.0	33.5	2.2	50.9	2.13	48.55
38.0-39.0	32.9	2.2	53.2	2.14	50.69
39.0-40.0	32.3	2.3	55.4	2.15	52.84
40.0-41.0	31.7	2.3	57.7	2.16	54.99
41.0-42.0	31.1	2.3	59.9	2.16	57.15
42.0-43.0	30.5	2.3	62.2	2.15	59.30
43.0-44.0	29.8	2.3	64.5	2.15	61.45
44.0-45.0	29.1	2.2	66.7	2.14	63.59
45.0-46.0	28.4	2.2	68.9	2.12	65.70
46.0-47.0	27.6	2.2	71.1	2.09	67.80
47.0-48.0	26.8	2.2	73.3	2.07	69.87
48.0-49.0	25.9	2.1	75.4	2.03	71.90
49.0-50.0	25.0	2.1	77.5	1.99	73.89
50.0-51.0	24.1	2.0	79.5	1.94	75.83
51.0-52.0	23.0	2.0	81.5	1.88	77.71
52.0-53.0	21.9	1.9	83.4	1.82	79.53
53.0-54.0	20.7	1.8	85.2	1.74	81.27
54.0-55.0	19.5	1.7	87.0	1.66	82.93
55.0-56.0	18.3	1.7	88.6	1.58	84.51
56.0-57.0	17.0	1.6	90.2	1.48	85.99
57.0-58.0	15.7	1.5	91.7	1.39	87.38
58.0-59.0	14.4	1.3	93.0	1.29	88.66
59.0-60.0	13.2	1.2	94.2	1.19	89.85
60.0-61.0	12.0	1.1	95.4	1.09	90.94
61.0-62.0	10.8	1.0	96.4	0.99	91.93
62.0-63.0	9.7	0.9	97.4	0.90	92.83
63.0-64.0	8.7	0.9	98.2	0.82	93.65
64.0-65.0	7.8	0.8	99.0	0.74	94.38
65.0-66.0	6.9	0.7	99.7	0.66	95.04
66.0-67.0	6.2	0.6	100.3	0.59	95.64
67.0-68.0	5.5	0.6	100.9	0.53	96.17
68.0-69.0	4.9	0.5	101.4	0.47	96.64
69.0-70.0	4.3	0.4	101.8	0.42	97.06
70.0-71.0	3.8	0.4	102.2	0.37	97.44
71.0-72.0	3.3	0.3	102.6	0.33	97.77

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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 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	2.9	0.3	102.9	0.29	98.06
73.0-74.0	2.6	0.3	103.1	0.26	98.32
74.0-75.0	2.2	0.2	103.4	0.22	98.54
75.0-76.0	1.9	0.2	103.6	0.19	98.73
76.0-77.0	1.6	0.2	103.7	0.16	98.89
77.0-78.0	1.3	0.1	103.9	0.14	99.03
78.0-79.0	1.1	0.1	104.0	0.11	99.14
79.0-80.0	0.9	0.1	104.1	0.09	99.23
80.0-81.0	0.6	0.1	104.2	0.07	99.30
81.0-82.0	0.5	0.1	104.2	0.05	99.34
82.0-83.0	0.3	0.0	104.2	0.03	99.38
83.0-84.0	0.2	0.0	104.3	0.02	99.40
84.0-85.0	0.1	0.0	104.3	0.01	99.41
85.0-86.0	0.1	0.0	104.3	0.01	99.42
86.0-87.0	0.0	0.0	104.3	0.00	99.42
87.0-88.0	0.0	0.0	104.3	0.00	99.42
88.0-89.0	0.0	0.0	104.3	0.00	99.42
89.0-90.0	0.0	0.0	104.3	0.00	99.42
90.0-91.0	0.0	0.0	104.3	0.00	99.42
91.0-92.0	0.0	0.0	104.3	0.00	99.42
92.0-93.0	0.0	0.0	104.3	0.00	99.42
93.0-94.0	0.0	0.0	104.3	0.00	99.42
94.0-95.0	0.0	0.0	104.3	0.00	99.42
95.0-96.0	0.0	0.0	104.3	0.00	99.42
96.0-97.0	0.0	0.0	104.3	0.00	99.42
97.0-98.0	0.0	0.0	104.3	0.00	99.42
98.0-99.0	0.0	0.0	104.3	0.00	99.42
99.0-100.0	0.0	0.0	104.3	0.00	99.42
100.0-101.0	0.0	0.0	104.3	0.00	99.42
101.0-102.0	0.0	0.0	104.3	0.00	99.42
102.0-103.0	0.0	0.0	104.3	0.00	99.42
103.0-104.0	0.0	0.0	104.3	0.00	99.42
104.0-105.0	0.0	0.0	104.3	0.00	99.42
105.0-106.0	0.0	0.0	104.3	0.00	99.42
106.0-107.0	0.0	0.0	104.3	0.00	99.42
107.0-108.0	0.0	0.0	104.3	0.00	99.42

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	104.3	0.00	99.42
109.0-110.0	0.0	0.0	104.3	0.00	99.42
110.0-111.0	0.0	0.0	104.3	0.00	99.42
111.0-112.0	0.0	0.0	104.3	0.00	99.42
112.0-113.0	0.0	0.0	104.3	0.00	99.42
113.0-114.0	0.0	0.0	104.3	0.00	99.42
114.0-115.0	0.0	0.0	104.3	0.00	99.42
115.0-116.0	0.0	0.0	104.3	0.00	99.43
116.0-117.0	0.0	0.0	104.3	0.00	99.43
117.0-118.0	0.1	0.0	104.3	0.01	99.44
118.0-119.0	0.1	0.0	104.3	0.01	99.44
119.0-120.0	0.1	0.0	104.3	0.01	99.45
120.0-121.0	0.1	0.0	104.3	0.01	99.46
121.0-122.0	0.1	0.0	104.3	0.01	99.46
122.0-123.0	0.1	0.0	104.3	0.01	99.47
123.0-124.0	0.1	0.0	104.3	0.01	99.48
124.0-125.0	0.1	0.0	104.4	0.01	99.49
125.0-126.0	0.1	0.0	104.4	0.01	99.50
126.0-127.0	0.1	0.0	104.4	0.01	99.51
127.0-128.0	0.1	0.0	104.4	0.01	99.52
128.0-129.0	0.1	0.0	104.4	0.01	99.53
129.0-130.0	0.1	0.0	104.4	0.01	99.54
130.0-131.0	0.1	0.0	104.4	0.01	99.55
131.0-132.0	0.1	0.0	104.4	0.01	99.56
132.0-133.0	0.1	0.0	104.4	0.01	99.57
133.0-134.0	0.1	0.0	104.5	0.01	99.58
134.0-135.0	0.2	0.0	104.5	0.01	99.59
135.0-136.0	0.2	0.0	104.5	0.01	99.61
136.0-137.0	0.2	0.0	104.5	0.01	99.62
137.0-138.0	0.2	0.0	104.5	0.01	99.63
138.0-139.0	0.2	0.0	104.5	0.01	99.64
139.0-140.0	0.2	0.0	104.5	0.01	99.65
140.0-141.0	0.2	0.0	104.5	0.01	99.67
141.0-142.0	0.2	0.0	104.6	0.01	99.68
142.0-143.0	0.2	0.0	104.6	0.01	99.69
143.0-144.0	0.2	0.0	104.6	0.01	99.70

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	0.2	0.0	104.6	0.01	99.72
145.0-146.0	0.2	0.0	104.6	0.01	99.73
146.0-147.0	0.2	0.0	104.6	0.01	99.74
147.0-148.0	0.2	0.0	104.6	0.01	99.75
148.0-149.0	0.2	0.0	104.6	0.01	99.77
149.0-150.0	0.2	0.0	104.7	0.01	99.78
150.0-151.0	0.2	0.0	104.7	0.01	99.79
151.0-152.0	0.2	0.0	104.7	0.01	99.80
152.0-153.0	0.2	0.0	104.7	0.01	99.81
153.0-154.0	0.3	0.0	104.7	0.01	99.83
154.0-155.0	0.3	0.0	104.7	0.01	99.84
155.0-156.0	0.3	0.0	104.7	0.01	99.85
156.0-157.0	0.3	0.0	104.7	0.01	99.86
157.0-158.0	0.3	0.0	104.8	0.01	99.87
158.0-159.0	0.3	0.0	104.8	0.01	99.88
159.0-160.0	0.3	0.0	104.8	0.01	99.89
160.0-161.0	0.3	0.0	104.8	0.01	99.90
161.0-162.0	0.3	0.0	104.8	0.01	99.91
162.0-163.0	0.3	0.0	104.8	0.01	99.92
163.0-164.0	0.3	0.0	104.8	0.01	99.93
164.0-165.0	0.3	0.0	104.8	0.01	99.94
165.0-166.0	0.3	0.0	104.8	0.01	99.94
166.0-167.0	0.3	0.0	104.8	0.01	99.95
167.0-168.0	0.3	0.0	104.8	0.01	99.96
168.0-169.0	0.3	0.0	104.9	0.01	99.97
169.0-170.0	0.3	0.0	104.9	0.01	99.97
170.0-171.0	0.3	0.0	104.9	0.01	99.98
171.0-172.0	0.3	0.0	104.9	0.00	99.98
172.0-173.0	0.3	0.0	104.9	0.00	99.99
173.0-174.0	0.3	0.0	104.9	0.00	99.99
174.0-175.0	0.3	0.0	104.9	0.00	99.99
175.0-176.0	0.3	0.0	104.9	0.00	100.00
176.0-177.0	0.3	0.0	104.9	0.00	100.00
177.0-178.0	0.3	0.0	104.9	0.00	100.00
178.0-179.0	0.3	0.0	104.9	0.00	100.00
179.0-180.0	0.3	0.0	104.9	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°): 66.70 lm

%lum = 63.6%

%lamp = 63.6%

cone flux(120°): 94.24 lm

%lum = 89.8%

%lamp = 89.8%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	43.1	43.1	43.1	43.1	43.1					
G1.0	43.1	43.1	43.0	43.1	43.1					
G2.0	43.1	43.0	43.0	43.1	43.1					
G3.0	43.1	43.0	42.9	43.0	43.1					
G4.0	43.1	43.0	42.8	43.0	43.1					
G5.0	43.1	42.9	42.7	42.9	43.1					
G6.0	43.1	42.8	42.5	42.8	43.1					
G7.0	43.0	42.7	42.4	42.7	43.0					
G8.0	43.0	42.6	42.3	42.6	43.0					
G9.0	42.9	42.4	42.1	42.5	42.9					
G10.0	42.8	42.3	42.0	42.4	42.8					
G11.0	42.7	42.2	41.8	42.3	42.7					
G12.0	42.5	42.0	41.6	42.1	42.5					
G13.0	42.4	41.9	41.4	42.0	42.4					
G14.0	42.3	41.7	41.2	41.8	42.3					
G15.0	42.1	41.5	40.9	41.6	42.1					
G16.0	41.9	41.3	40.7	41.4	41.9					
G17.0	41.8	41.1	40.4	41.2	41.8					
G18.0	41.6	40.8	40.1	40.9	41.6					
G19.0	41.3	40.6	39.9	40.7	41.3					
G20.0	41.1	40.3	39.5	40.4	41.1					
G21.0	40.9	40.0	39.2	40.2	40.9					
G22.0	40.6	39.7	38.9	39.9	40.6					
G23.0	40.4	39.4	38.6	39.6	40.4					
G24.0	40.1	39.1	38.2	39.3	40.1					
G25.0	39.8	38.8	37.9	39.0	39.8					
G26.0	39.5	38.4	37.5	38.6	39.5					
G27.0	39.2	38.1	37.1	38.3	39.2					
G28.0	38.9	37.7	36.7	37.9	38.9					
G29.0	38.5	37.3	36.2	37.5	38.5					
G30.0	38.2	36.9	35.8	37.1	38.2					
G31.0	37.8	36.5	35.3	36.7	37.8					
G32.0	37.4	36.0	34.9	36.3	37.4					
G33.0	37.0	35.6	34.3	35.8	37.0					
G34.0	36.6	35.1	33.8	35.3	36.6					
G35.0	36.2	34.6	33.3	34.9	36.2					
G36.0	35.7	34.2	32.8	34.4	35.7					

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	35.3	33.7	32.3	33.8	35.3					
G38.0	34.7	33.1	31.6	33.2	34.7					
G39.0	34.2	32.6	31.1	32.7	34.2					
G40.0	33.7	32.0	30.5	32.0	33.7					
G41.0	33.1	31.5	29.8	31.4	33.1					
G42.0	32.6	30.9	29.2	30.7	32.6					
G43.0	32.0	30.2	28.5	29.9	32.0					
G44.0	31.4	29.6	27.8	29.2	31.4					
G45.0	30.7	29.0	27.0	28.5	30.7					
G46.0	30.0	28.2	26.2	27.7	30.0					
G47.0	29.3	27.5	25.3	26.9	29.3					
G48.0	28.5	26.7	24.3	26.0	28.5					
G49.0	27.7	25.9	23.3	25.1	27.7					
G50.0	26.9	25.0	22.2	24.2	26.9					
G51.0	26.1	24.0	20.9	23.2	26.1					
G52.0	25.1	23.0	19.7	22.0	25.1					
G53.0	24.2	21.9	18.4	20.9	24.2					
G54.0	23.2	20.6	17.0	19.7	23.2					
G55.0	22.0	19.4	15.7	18.5	22.0					
G56.0	20.9	18.1	14.4	17.3	20.9					
G57.0	19.7	16.7	13.1	16.0	19.7					
G58.0	18.5	15.4	11.8	14.6	18.5					
G59.0	17.1	14.1	10.6	13.3	17.1					
G60.0	15.8	12.8	9.6	12.1	15.8					
G61.0	14.5	11.6	8.6	10.9	14.5					
G62.0	13.2	10.4	7.6	9.7	13.2					
G63.0	12.0	9.4	6.8	8.7	12.0					
G64.0	10.8	8.4	6.0	7.7	10.8					
G65.0	9.8	7.4	5.3	6.9	9.8					
G66.0	8.8	6.6	4.7	6.2	8.8					
G67.0	7.8	5.9	4.1	5.5	7.8					
G68.0	7.0	5.2	3.6	4.9	7.0					
G69.0	6.2	4.6	3.2	4.3	6.2					
G70.0	5.5	4.0	2.8	3.8	5.5					
G71.0	4.9	3.5	2.4	3.3	4.9					
G72.0	4.4	3.1	2.1	2.9	4.4					
G73.0	3.9	2.7	1.8	2.5	3.9					

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	3.5	2.4	1.5	2.1	3.5					
G75.0	3.1	2.0	1.3	1.8	3.1					
G76.0	2.7	1.7	1.0	1.5	2.7					
G77.0	2.4	1.4	0.8	1.2	2.4					
G78.0	2.1	1.2	0.6	0.9	2.1					
G79.0	1.8	0.9	0.4	0.7	1.8					
G80.0	1.5	0.7	0.3	0.5	1.5					
G81.0	1.3	0.5	0.1	0.3	1.3					
G82.0	1.0	0.3	0.0	0.2	1.0					
G83.0	0.8	0.1	0.0	0.1	0.8					
G84.0	0.6	0.0	0.0	0.0	0.6					
G85.0	0.4	0.0	0.0	0.0	0.4					
G86.0	0.2	0.0	0.0	0.0	0.2					
G87.0	0.1	0.0	0.0	0.0	0.1					
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	0.1	0.1	0.0	0.0					
G116.0	0.0	0.1	0.1	0.0	0.0					
G117.0	0.1	0.1	0.1	0.0	0.1					
G118.0	0.1	0.1	0.1	0.1	0.1					
G119.0	0.1	0.1	0.1	0.1	0.1					
G120.0	0.1	0.1	0.1	0.1	0.1					
G121.0	0.1	0.1	0.1	0.1	0.1					
G122.0	0.1	0.1	0.1	0.1	0.1					
G123.0	0.1	0.1	0.1	0.1	0.1					
G124.0	0.1	0.1	0.1	0.1	0.1					
G125.0	0.1	0.1	0.1	0.1	0.1					
G126.0	0.1	0.1	0.1	0.1	0.1					
G127.0	0.1	0.1	0.1	0.1	0.1					
G128.0	0.1	0.1	0.1	0.1	0.1					
G129.0	0.1	0.1	0.1	0.1	0.1					
G130.0	0.1	0.1	0.1	0.1	0.1					
G131.0	0.1	0.2	0.1	0.1	0.1					
G132.0	0.1	0.2	0.1	0.1	0.1					
G133.0	0.2	0.2	0.1	0.1	0.2					
G134.0	0.2	0.2	0.2	0.1	0.2					
G135.0	0.2	0.2	0.2	0.2	0.2					
G136.0	0.2	0.2	0.2	0.2	0.2					
G137.0	0.2	0.2	0.2	0.2	0.2					
G138.0	0.2	0.2	0.2	0.2	0.2					
G139.0	0.2	0.2	0.2	0.2	0.2					
G140.0	0.2	0.2	0.2	0.2	0.2					
G141.0	0.2	0.2	0.2	0.2	0.2					
G142.0	0.2	0.2	0.2	0.2	0.2					
G143.0	0.2	0.2	0.2	0.2	0.2					
G144.0	0.2	0.2	0.2	0.2	0.2					
G145.0	0.2	0.3	0.2	0.2	0.2					
G146.0	0.2	0.2	0.2	0.2	0.2					
G147.0	0.2	0.2	0.2	0.2	0.2					

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 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	0.2	0.2	0.2	0.2	0.2					
G149.0	0.2	0.2	0.2	0.2	0.2					
G150.0	0.2	0.2	0.2	0.2	0.2					
G151.0	0.2	0.2	0.2	0.2	0.2					
G152.0	0.2	0.3	0.3	0.2	0.2					
G153.0	0.2	0.3	0.3	0.3	0.2					
G154.0	0.3	0.3	0.3	0.3	0.3					
G155.0	0.3	0.3	0.3	0.3	0.3					
G156.0	0.3	0.3	0.3	0.3	0.3					
G157.0	0.3	0.3	0.3	0.3	0.3					
G158.0	0.3	0.3	0.3	0.3	0.3					
G159.0	0.3	0.3	0.3	0.3	0.3					
G160.0	0.3	0.3	0.3	0.3	0.3					
G161.0	0.3	0.3	0.3	0.3	0.3					
G162.0	0.3	0.3	0.3	0.3	0.3					
G163.0	0.3	0.3	0.3	0.3	0.3					
G164.0	0.3	0.3	0.3	0.3	0.3					
G165.0	0.3	0.3	0.3	0.3	0.3					
G166.0	0.3	0.3	0.3	0.3	0.3					
G167.0	0.3	0.3	0.3	0.3	0.3					
G168.0	0.3	0.3	0.3	0.3	0.3					
G169.0	0.3	0.3	0.3	0.3	0.3					
G170.0	0.3	0.3	0.3	0.3	0.3					
G171.0	0.3	0.3	0.3	0.3	0.3					
G172.0	0.3	0.3	0.3	0.3	0.3					
G173.0	0.3	0.3	0.3	0.3	0.3					
G174.0	0.3	0.3	0.3	0.3	0.3					
G175.0	0.3	0.3	0.3	0.3	0.3					
G176.0	0.3	0.3	0.3	0.3	0.3					
G177.0	0.3	0.3	0.3	0.3	0.3					
G178.0	0.3	0.3	0.3	0.3	0.3					
G179.0	0.3	0.3	0.3	0.3	0.3					
G180.0	0.3	0.3	0.3	0.3	0.3					

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	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