

Report No.: TH-4282A

Test Time: 2023/6/7 18:08

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.054 A
Power Factor: 0.896

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 220.4 V
Power: 10.74 W

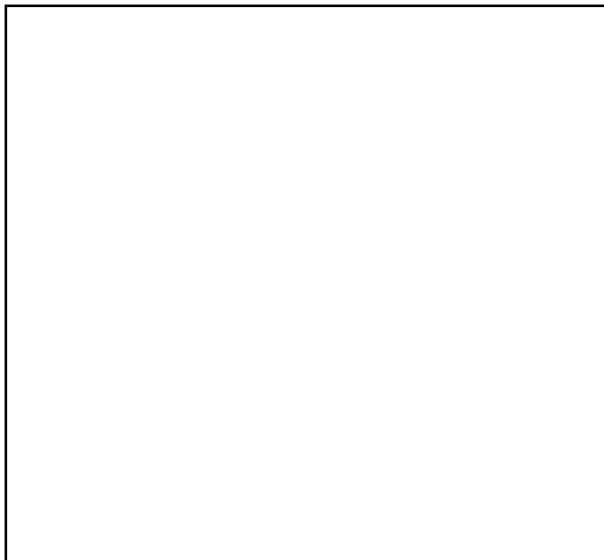
Photometric Results

CIE Class: Direct
Measurement Flux: 212 lm
Downward Ratio: 93%
Horizontal Diffuse Angle(50%): H174.2
Vertical Diffuse Angle(50%): V115.5
Luminaire Efficacy Rating (LER): 19.79
Max. Intensity: 109.22 cd
S/MH(C0/C180): 1.26

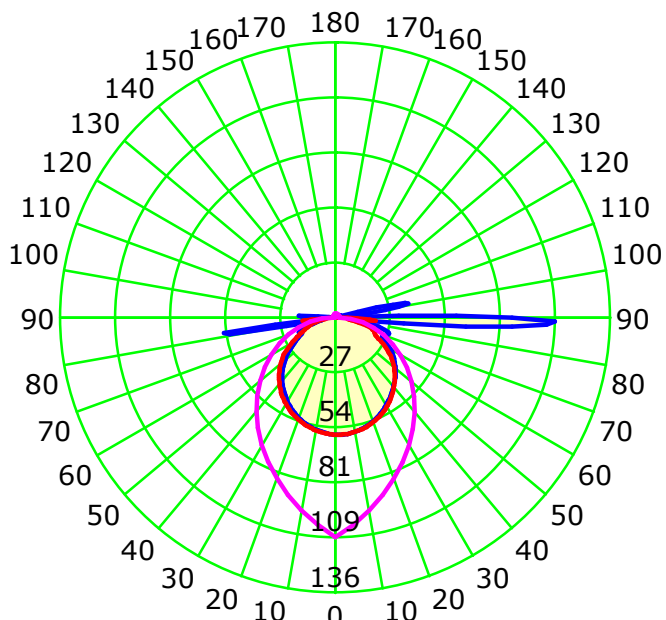
Total Rated Lamp Lumens: 212.0 lm
Efficiency: 100%
Upward Ratio: 7%

C0r0 Intensity: 58.23 cd
Pos of Max. Intensity: H0 V89
S/MH(C90/C270): 1.28

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

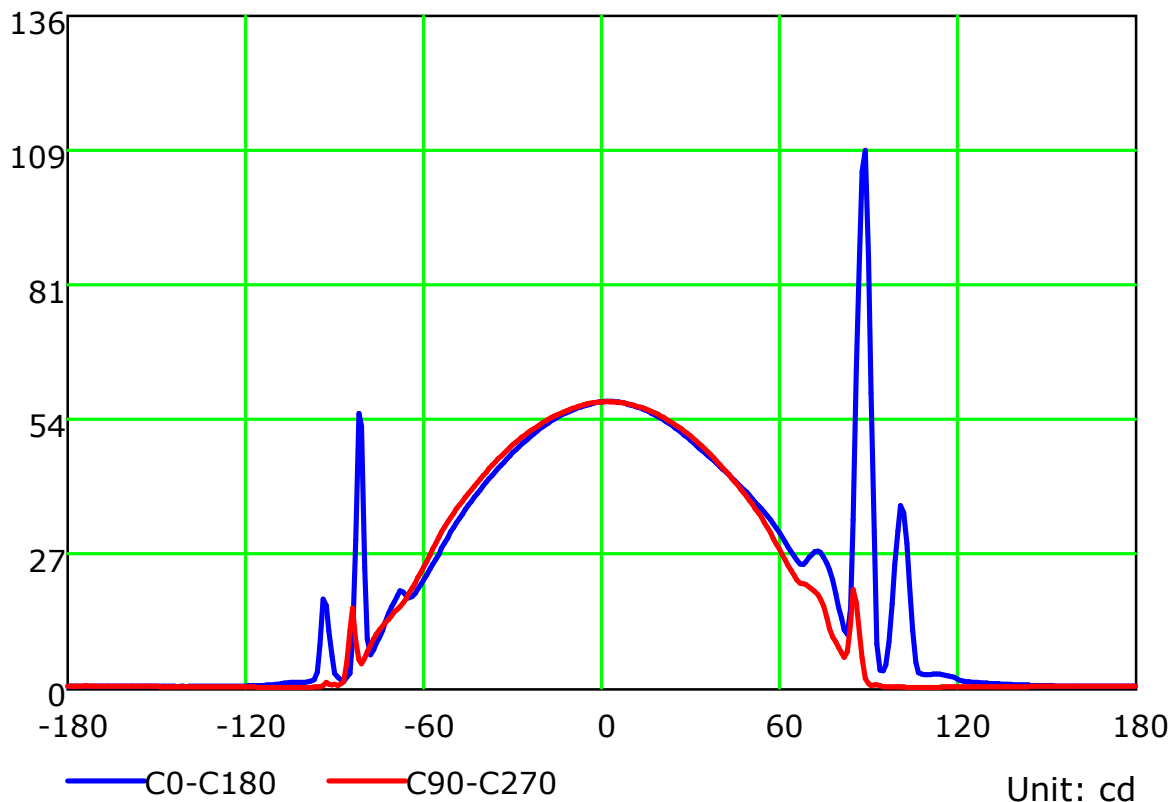
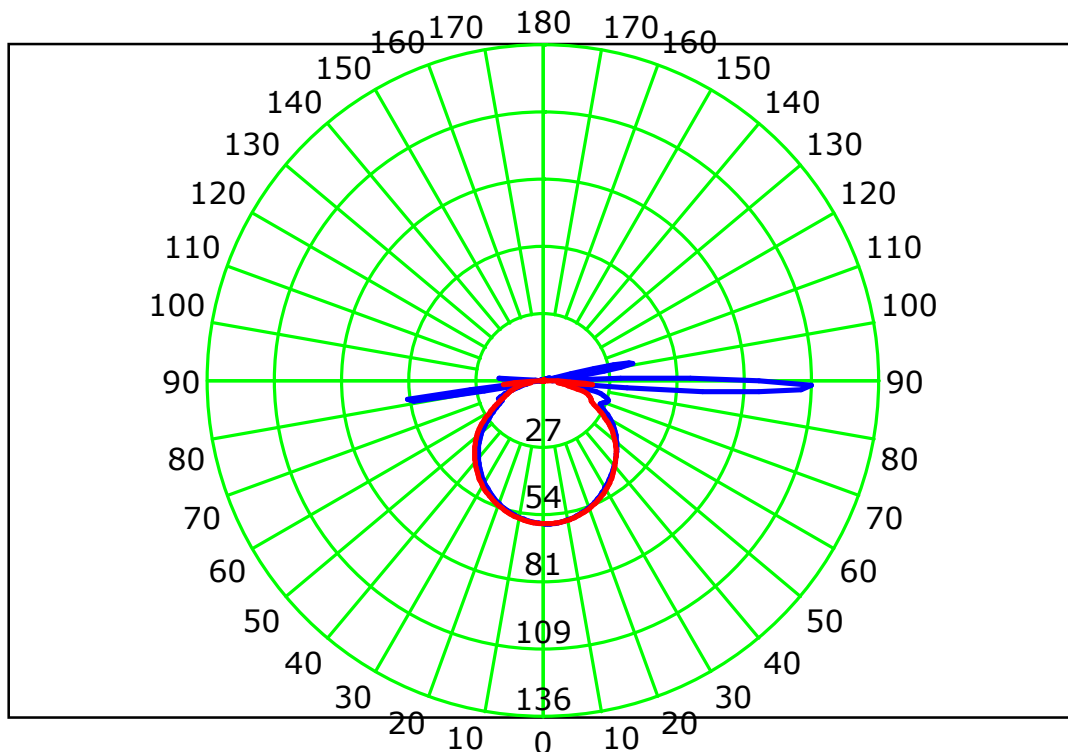
Average Diffuse Angle(50%): 144.4°

— C0-C180 — C90-C270 — G89

C Plane (°):0.0-360.0: 90.0
Test Lab:
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



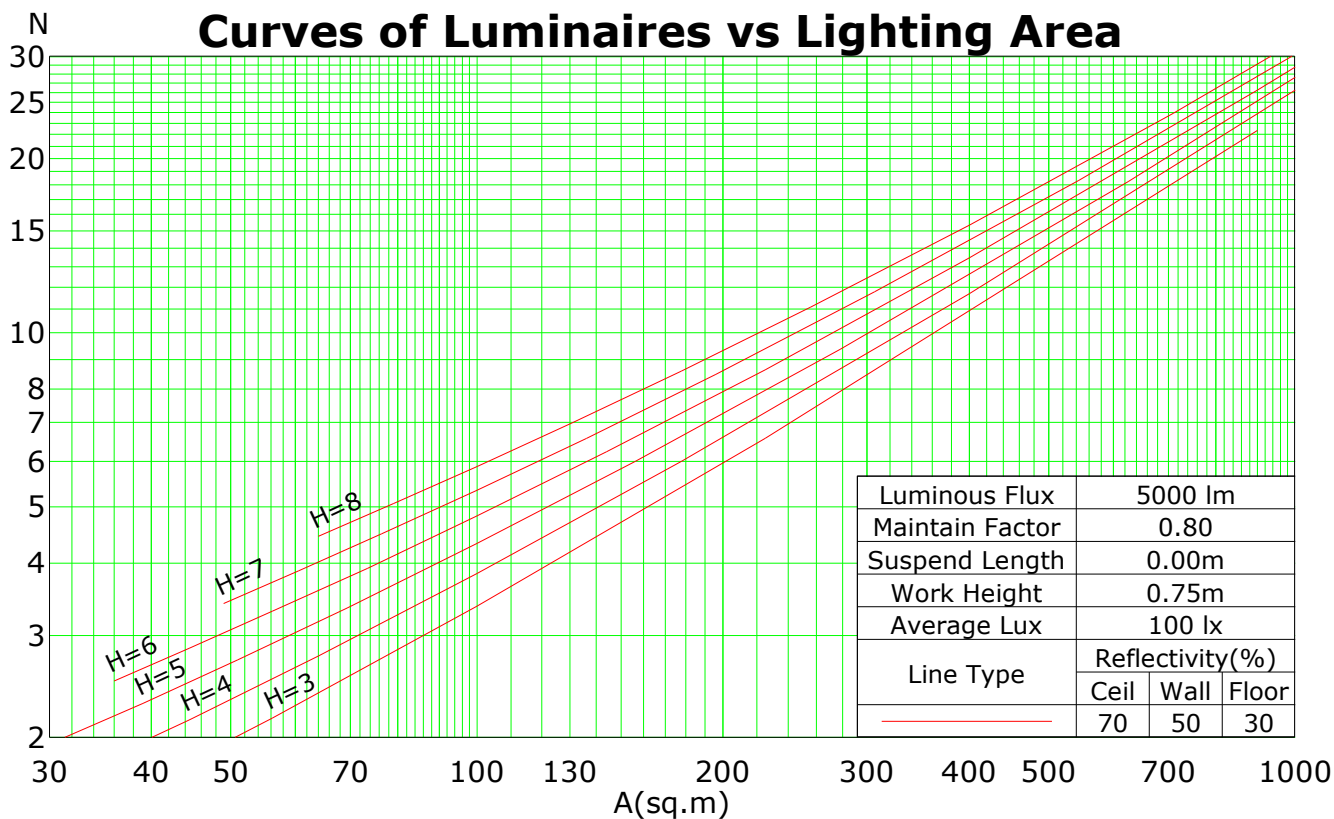
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

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	1.17	1.17	1.17	1.17	1.14	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.93
1	1.03	0.97	0.91	0.86	1.00	0.94	0.89	0.84	0.88	0.84	0.80	0.83	0.80	0.76	0.78	0.75	0.73	0.70
2	0.93	0.84	0.76	0.69	0.90	0.81	0.74	0.67	0.76	0.70	0.65	0.72	0.67	0.62	0.67	0.63	0.60	0.57
3	0.85	0.73	0.64	0.57	0.81	0.71	0.62	0.56	0.67	0.60	0.54	0.63	0.57	0.52	0.59	0.54	0.50	0.47
4	0.77	0.64	0.55	0.48	0.74	0.63	0.54	0.47	0.59	0.51	0.45	0.56	0.49	0.44	0.53	0.47	0.43	0.40
5	0.71	0.57	0.48	0.41	0.68	0.56	0.47	0.40	0.53	0.45	0.39	0.50	0.43	0.38	0.47	0.42	0.37	0.34
6	0.66	0.52	0.42	0.35	0.63	0.50	0.41	0.35	0.48	0.40	0.34	0.45	0.38	0.33	0.43	0.37	0.32	0.30
7	0.61	0.47	0.38	0.31	0.59	0.46	0.37	0.31	0.43	0.36	0.30	0.41	0.34	0.29	0.39	0.33	0.29	0.26
8	0.57	0.43	0.34	0.28	0.55	0.42	0.33	0.27	0.40	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.24
9	0.53	0.39	0.31	0.25	0.51	0.38	0.30	0.25	0.36	0.29	0.24	0.35	0.28	0.24	0.33	0.27	0.23	0.21
10	0.50	0.36	0.28	0.22	0.48	0.35	0.27	0.22	0.34	0.27	0.22	0.32	0.26	0.21	0.31	0.25	0.21	0.19

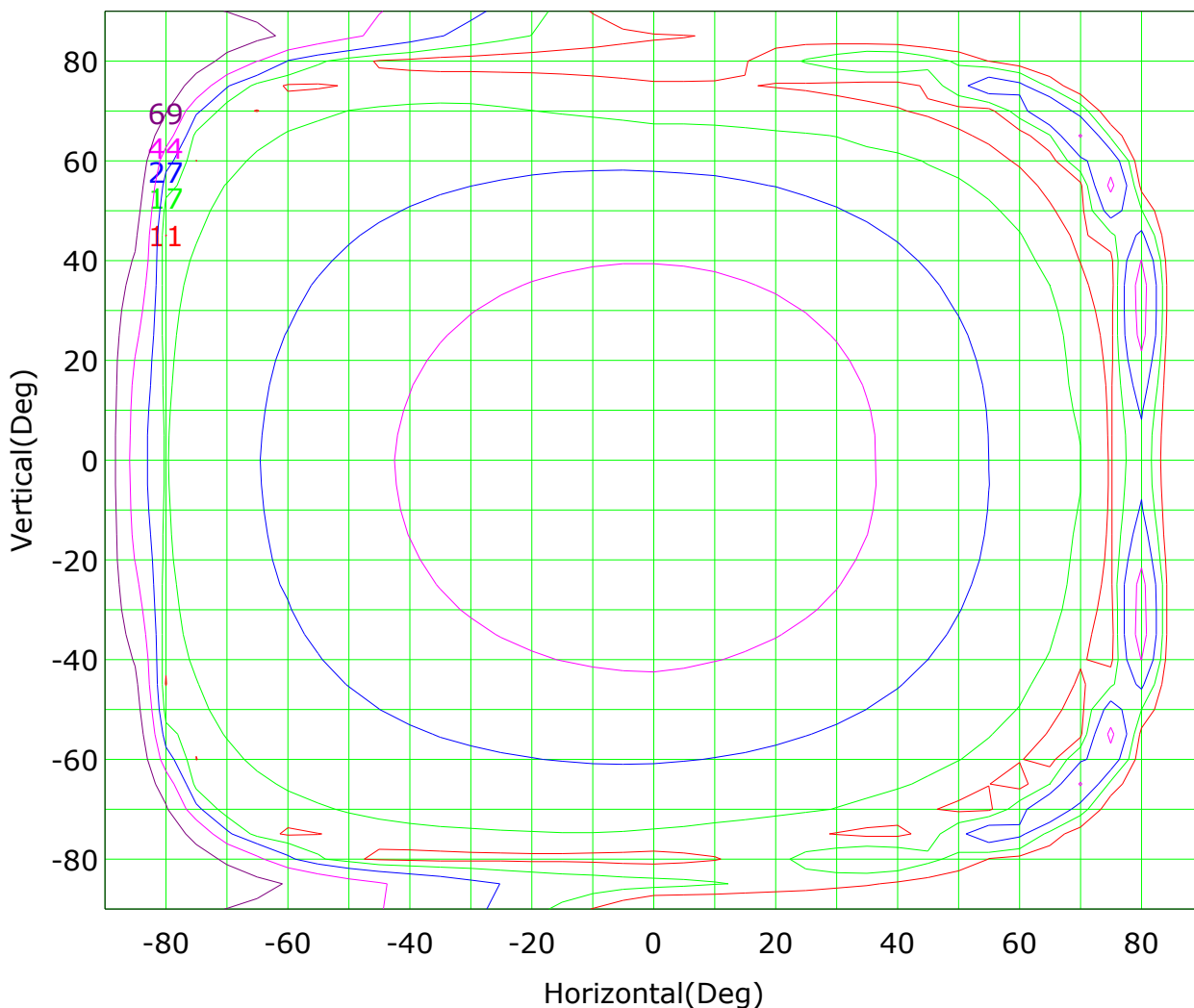
Spacing Criteria (0-180): 1.26
 Spacing Criteria (90-270): 1.28
 Spacing Criteria (Diagonal): 1.40



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 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)



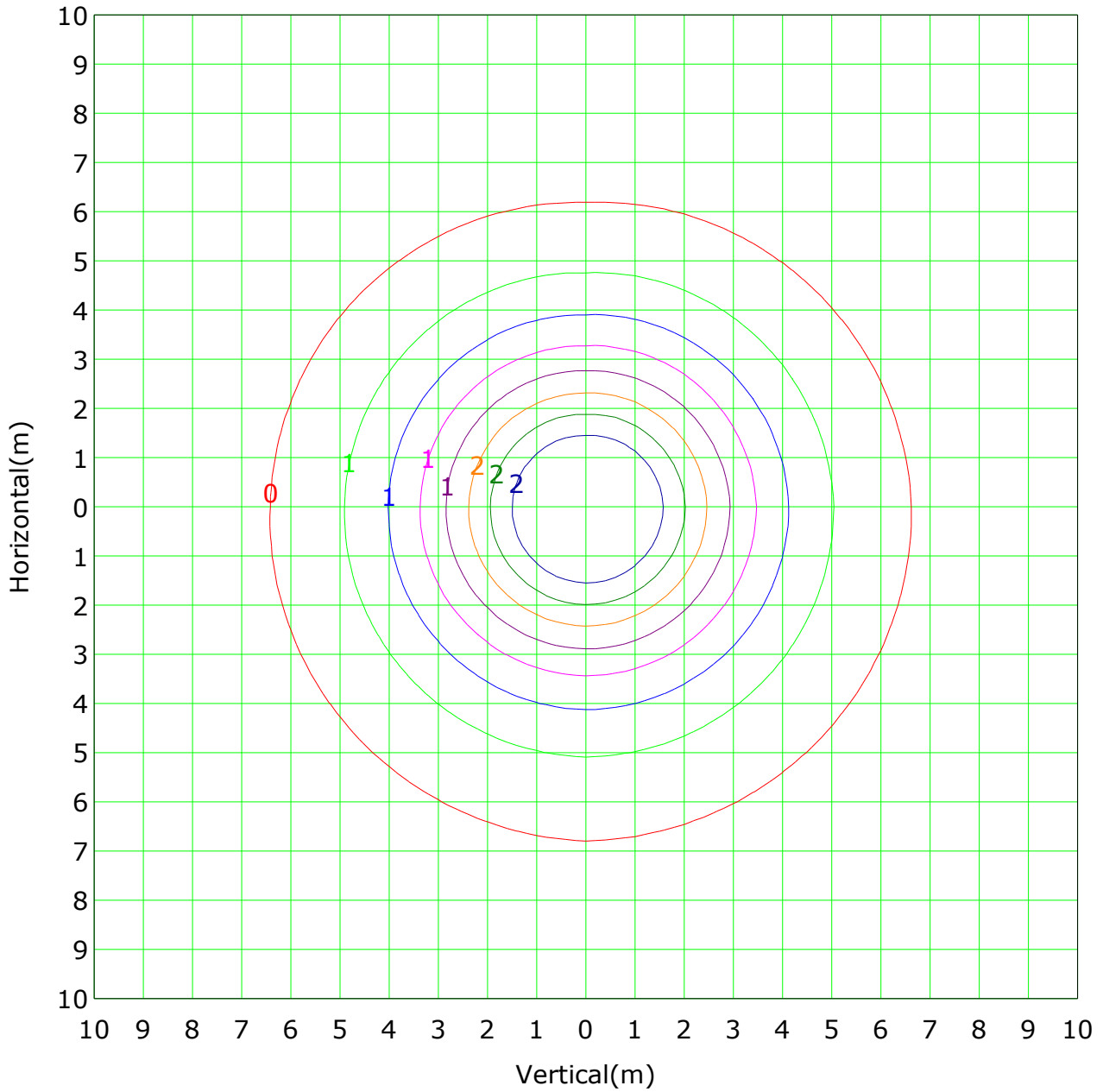
Imax (100%): 109 cd

— (10%):	11 cd	— (16%):	17 cd
— (25%):	27 cd	— (40%):	44 cd
— (63%):	69 cd	— (100%):	109 cd

C Plane (°):0.0-360.0: 90.0
Test Lab:
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%): 2.9 lx	
— (10%):	0.3 lx	— (20%):	0.6 lx
— (30%):	0.9 lx	— (40%):	1.2 lx
— (50%):	1.4 lx	— (60%):	1.7 lx
— (70%):	2.0 lx	— (80%):	2.3 lx

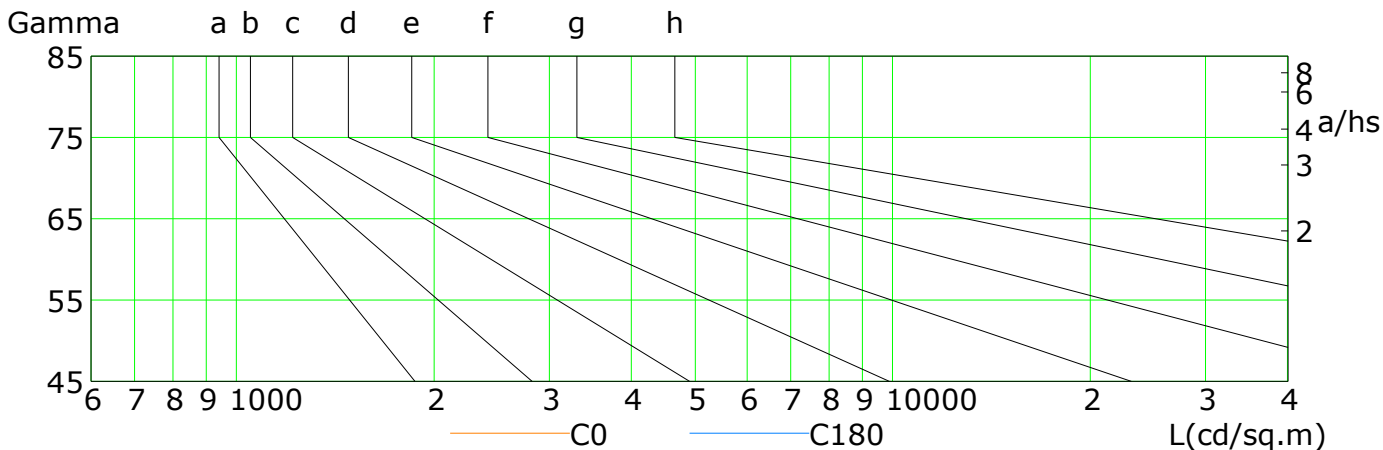
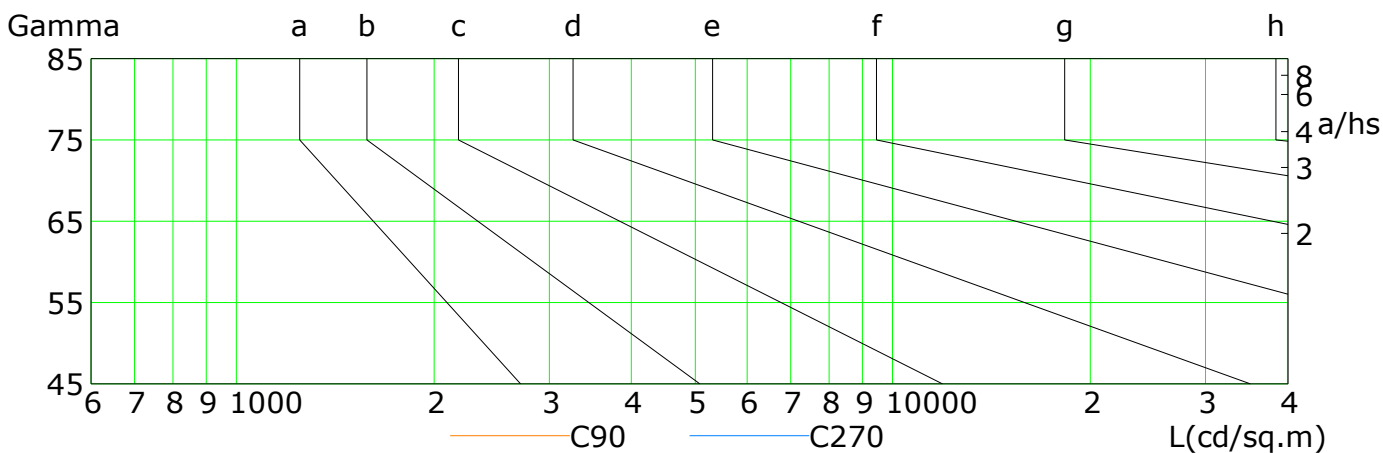
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
Operator: Jacky

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

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

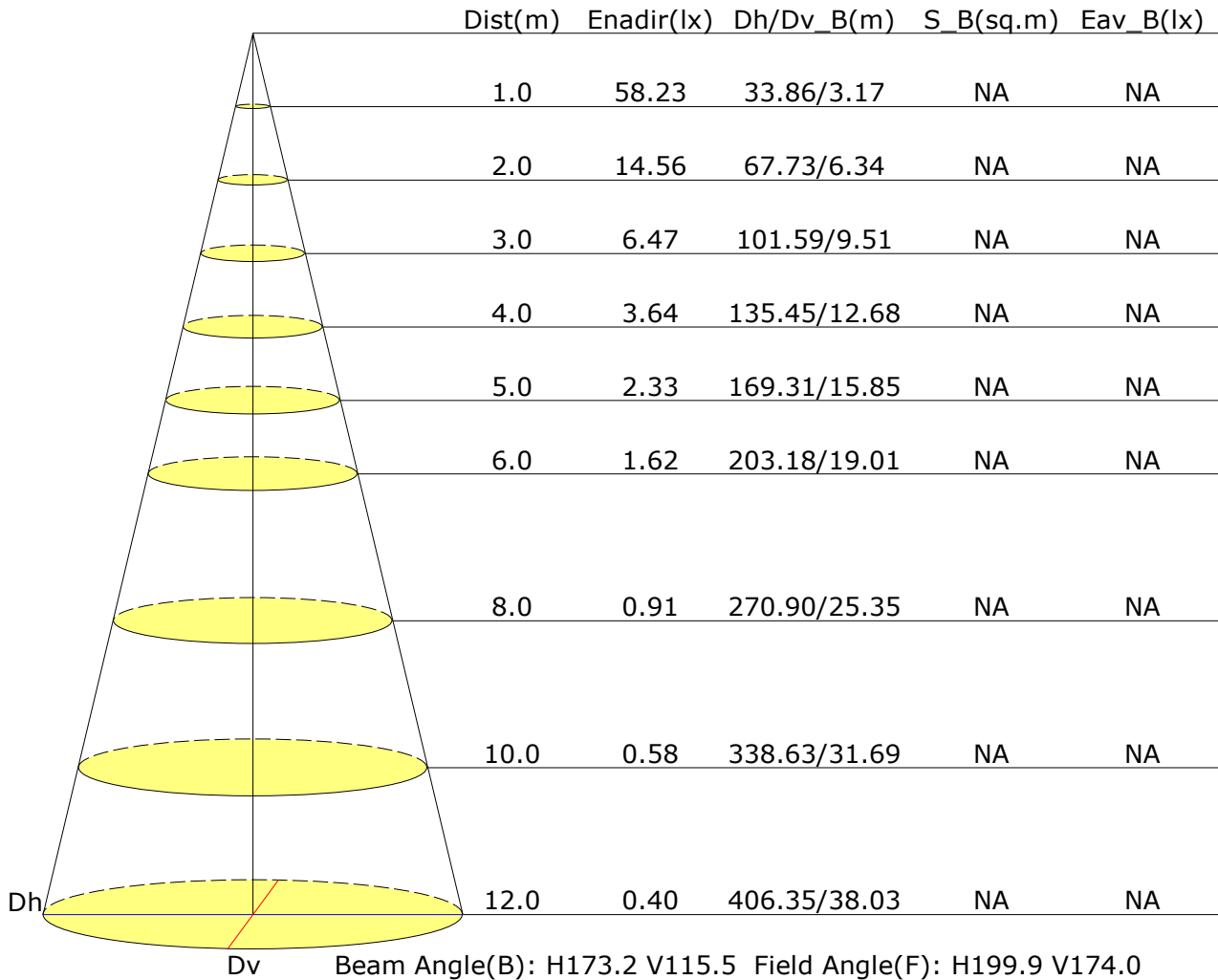


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	42	39	36	32	27	27	27	17	34
C90	42	38	34	28	23	21	17	8	20
C180	37	33	27	22	18	18	10	25	3
C270	40	36	31	25	19	15	12	6	12

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

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

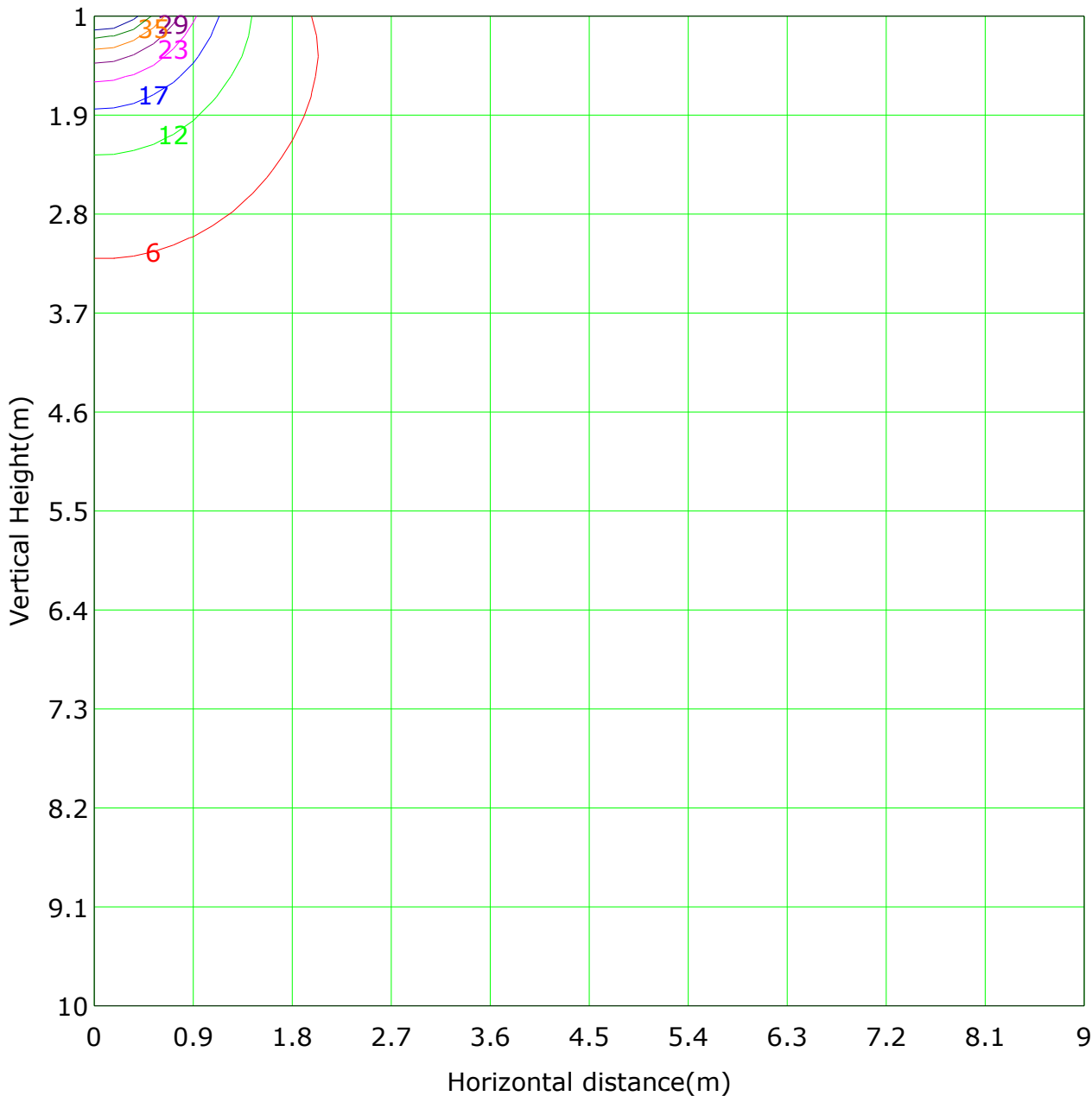
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
Test Lab:
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:

Vertical IsoLux Plot

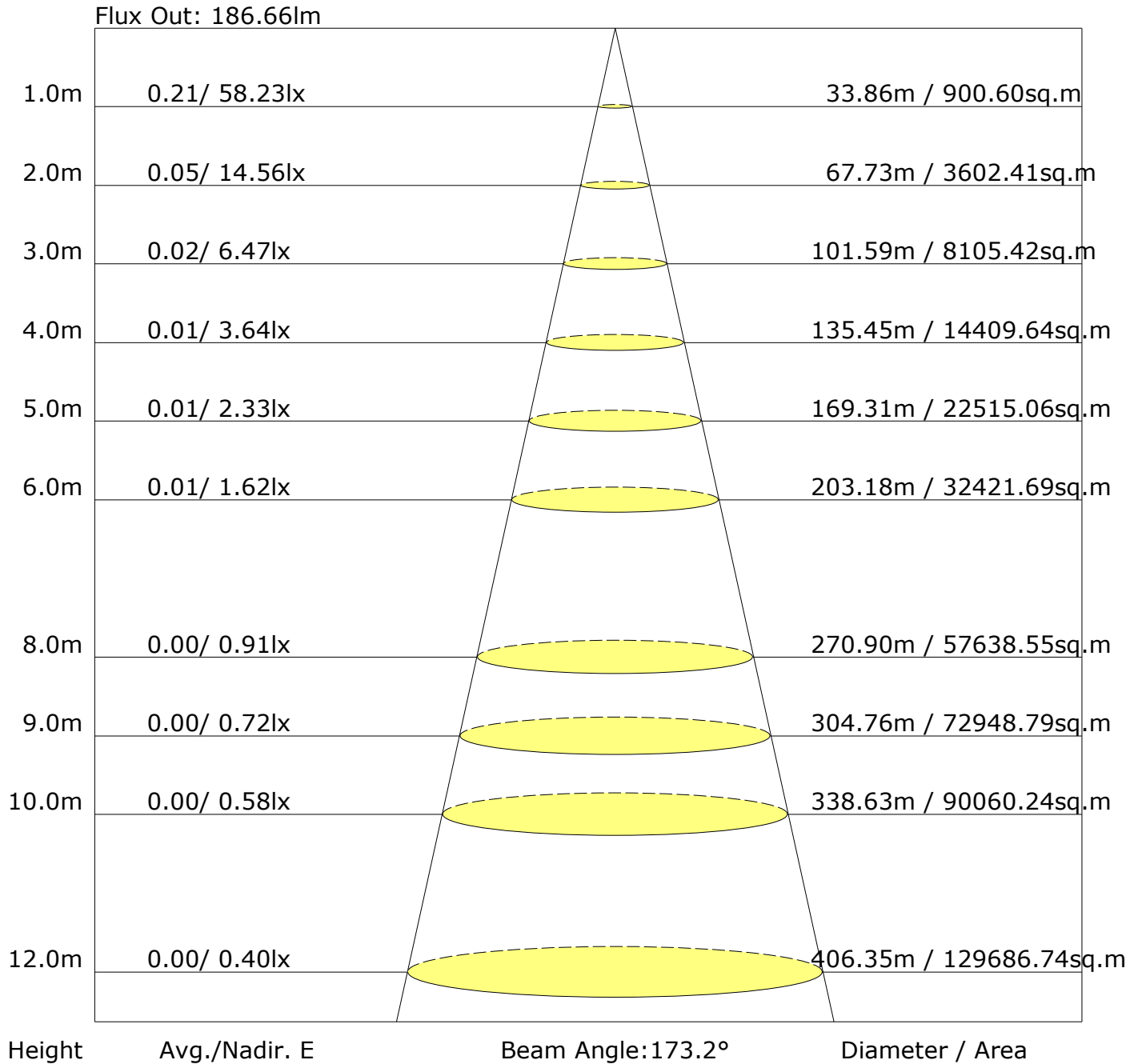


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 58.2 lx
— (10%): 5.8 lx	— (20%): 11.6 lx	
— (30%): 17.5 lx	— (40%): 23.3 lx	
— (50%): 29.1 lx	— (60%): 34.9 lx	
— (70%): 40.8 lx	— (80%): 46.6 lx	

C Plane (°):0.0-360.0: 90.0
Test Lab:
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:
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	-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										
S=1.5H										
S=2.0H										

Calculate in accordance with CIE Pub.117. The table is revised with $212lm (8\log(F/F_0) = -5.4)$.

C Plane (°):0.0-360.0: 90.0
Test Lab:
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

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	58.2	0.1	0.1	0.03	0.03
1.0-2.0	58.2	0.2	0.2	0.08	0.11
2.0-3.0	58.1	0.3	0.5	0.13	0.24
3.0-4.0	58.1	0.4	0.9	0.18	0.42
4.0-5.0	58.0	0.5	1.4	0.24	0.65
5.0-6.0	57.9	0.6	2.0	0.29	0.94
6.0-7.0	57.7	0.7	2.7	0.34	1.28
7.0-8.0	57.6	0.8	3.5	0.39	1.67
8.0-9.0	57.4	0.9	4.5	0.44	2.11
9.0-10.0	57.2	1.0	5.5	0.49	2.60
10.0-11.0	57.1	1.1	6.6	0.54	3.13
11.0-12.0	56.8	1.2	7.9	0.59	3.72
12.0-13.0	56.6	1.3	9.2	0.63	4.35
13.0-14.0	56.4	1.4	10.7	0.68	5.03
14.0-15.0	56.1	1.5	12.2	0.73	5.76
15.0-16.0	55.8	1.6	13.8	0.77	6.53
16.0-17.0	55.5	1.7	15.6	0.82	7.35
17.0-18.0	55.2	1.8	17.4	0.86	8.21
18.0-19.0	54.9	1.9	19.3	0.90	9.11
19.0-20.0	54.5	2.0	21.3	0.94	10.05
20.0-21.0	54.1	2.1	23.4	0.98	11.03
21.0-22.0	53.8	2.2	25.5	1.02	12.05
22.0-23.0	53.3	2.2	27.8	1.06	13.10
23.0-24.0	52.9	2.3	30.1	1.09	14.20
24.0-25.0	52.5	2.4	32.5	1.13	15.32
25.0-26.0	52.0	2.5	34.9	1.16	16.48
26.0-27.0	51.5	2.5	37.5	1.19	17.67
27.0-28.0	51.1	2.6	40.0	1.22	18.89
28.0-29.0	50.6	2.6	42.7	1.25	20.14
29.0-30.0	50.0	2.7	45.4	1.27	21.41
30.0-31.0	49.5	2.8	48.1	1.30	22.71
31.0-32.0	48.9	2.8	51.0	1.32	24.03
32.0-33.0	48.4	2.8	53.8	1.34	25.38
33.0-34.0	47.8	2.9	56.7	1.36	26.74
34.0-35.0	47.2	2.9	59.6	1.38	28.12
35.0-36.0	46.6	3.0	62.6	1.40	29.52

C Plane (°):0.0-360.0: 90.0
Test Lab:
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	46.0	3.0	65.6	1.41	30.94
37.0-38.0	45.4	3.0	68.6	1.43	32.37
38.0-39.0	44.7	3.1	71.7	1.44	33.81
39.0-40.0	44.1	3.1	74.7	1.45	35.26
40.0-41.0	43.4	3.1	77.8	1.46	36.71
41.0-42.0	42.7	3.1	80.9	1.46	38.18
42.0-43.0	42.0	3.1	84.1	1.47	39.64
43.0-44.0	41.3	3.1	87.2	1.47	41.12
44.0-45.0	40.6	3.1	90.3	1.47	42.59
45.0-46.0	39.9	3.1	93.4	1.47	44.06
46.0-47.0	39.1	3.1	96.5	1.47	45.53
47.0-48.0	38.4	3.1	99.6	1.46	46.99
48.0-49.0	37.6	3.1	102.7	1.46	48.45
49.0-50.0	36.8	3.1	105.8	1.45	49.89
50.0-51.0	36.0	3.0	108.8	1.44	51.33
51.0-52.0	35.1	3.0	111.8	1.42	52.75
52.0-53.0	34.3	3.0	114.8	1.41	54.16
53.0-54.0	33.3	2.9	117.8	1.39	55.54
54.0-55.0	32.4	2.9	120.7	1.36	56.91
55.0-56.0	31.4	2.8	123.5	1.34	58.24
56.0-57.0	30.3	2.8	126.3	1.31	59.55
57.0-58.0	29.3	2.7	129.0	1.28	60.83
58.0-59.0	28.3	2.6	131.6	1.25	62.08
59.0-60.0	27.2	2.6	134.2	1.21	63.29
60.0-61.0	26.2	2.5	136.7	1.18	64.47
61.0-62.0	25.2	2.4	139.1	1.14	65.61
62.0-63.0	24.1	2.3	141.5	1.11	66.72
63.0-64.0	23.2	2.3	143.7	1.07	67.79
64.0-65.0	22.3	2.2	145.9	1.04	68.83
65.0-66.0	21.6	2.2	148.1	1.02	69.85
66.0-67.0	21.1	2.1	150.2	1.00	70.85
67.0-68.0	20.8	2.1	152.3	1.00	71.85
68.0-69.0	20.6	2.1	154.4	0.99	72.84
69.0-70.0	20.2	2.1	156.5	0.98	73.81
70.0-71.0	19.8	2.1	158.6	0.97	74.78
71.0-72.0	19.4	2.0	160.6	0.95	75.73

C Plane (°):0.0-360.0: 90.0
Test Lab:
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 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	18.8	2.0	162.5	0.93	76.66
73.0-74.0	18.0	1.9	164.4	0.89	77.55
74.0-75.0	16.9	1.8	166.2	0.84	78.40
75.0-76.0	15.7	1.7	167.9	0.78	79.18
76.0-77.0	14.2	1.5	169.4	0.72	79.90
77.0-78.0	12.8	1.4	170.8	0.64	80.54
78.0-79.0	11.8	1.3	172.0	0.60	81.14
79.0-80.0	12.7	1.4	173.4	0.65	81.79
80.0-81.0	16.9	1.8	175.2	0.86	82.65
81.0-82.0	19.9	2.2	177.4	1.02	83.67
82.0-83.0	17.3	1.9	179.3	0.89	84.55
83.0-84.0	14.3	1.6	180.8	0.73	85.29
84.0-85.0	15.6	1.7	182.5	0.81	86.09
85.0-86.0	19.9	2.2	184.7	1.03	87.12
86.0-87.0	24.0	2.6	187.3	1.24	88.35
87.0-88.0	26.9	3.0	190.3	1.39	89.75
88.0-89.0	28.5	3.1	193.4	1.47	91.22
89.0-90.0	25.8	2.8	196.2	1.34	92.56
90.0-91.0	20.1	2.2	198.4	1.04	93.59
91.0-92.0	14.1	1.5	200.0	0.73	94.32
92.0-93.0	9.1	1.0	201.0	0.47	94.79
93.0-94.0	6.4	0.7	201.7	0.33	95.12
94.0-95.0	4.5	0.5	202.2	0.23	95.35
95.0-96.0	2.7	0.3	202.5	0.14	95.49
96.0-97.0	2.5	0.3	202.7	0.13	95.62
97.0-98.0	3.9	0.4	203.2	0.20	95.82
98.0-99.0	5.8	0.6	203.8	0.30	96.12
99.0-100.0	7.6	0.8	204.6	0.39	96.51
100.0-101.0	9.1	1.0	205.6	0.46	96.97
101.0-102.0	9.5	1.0	206.6	0.48	97.46
102.0-103.0	8.6	0.9	207.5	0.43	97.89
103.0-104.0	6.7	0.7	208.3	0.34	98.23
104.0-105.0	4.5	0.5	208.7	0.23	98.45
105.0-106.0	2.5	0.3	209.0	0.13	98.58
106.0-107.0	1.4	0.2	209.2	0.07	98.65
107.0-108.0	1.1	0.1	209.3	0.06	98.71

C Plane (°):0.0-360.0: 90.0
Test Lab:
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	1.0	0.1	209.4	0.05	98.76
109.0-110.0	1.0	0.1	209.5	0.05	98.81
110.0-111.0	1.0	0.1	209.6	0.05	98.85
111.0-112.0	1.0	0.1	209.7	0.05	98.90
112.0-113.0	1.0	0.1	209.8	0.05	98.95
113.0-114.0	1.0	0.1	209.9	0.05	99.00
114.0-115.0	1.0	0.1	210.0	0.05	99.05
115.0-116.0	0.9	0.1	210.1	0.04	99.09
116.0-117.0	0.9	0.1	210.2	0.04	99.13
117.0-118.0	0.9	0.1	210.3	0.04	99.17
118.0-119.0	0.9	0.1	210.3	0.04	99.21
119.0-120.0	0.8	0.1	210.4	0.04	99.25
120.0-121.0	0.7	0.1	210.5	0.03	99.28
121.0-122.0	0.7	0.1	210.6	0.03	99.31
122.0-123.0	0.6	0.1	210.6	0.03	99.34
123.0-124.0	0.6	0.1	210.7	0.03	99.37
124.0-125.0	0.6	0.1	210.7	0.03	99.39
125.0-126.0	0.6	0.1	210.8	0.02	99.42
126.0-127.0	0.6	0.1	210.8	0.02	99.44
127.0-128.0	0.6	0.0	210.9	0.02	99.46
128.0-129.0	0.5	0.0	210.9	0.02	99.49
129.0-130.0	0.5	0.0	211.0	0.02	99.51
130.0-131.0	0.5	0.0	211.0	0.02	99.53
131.0-132.0	0.5	0.0	211.1	0.02	99.55
132.0-133.0	0.5	0.0	211.1	0.02	99.57
133.0-134.0	0.5	0.0	211.1	0.02	99.58
134.0-135.0	0.5	0.0	211.2	0.02	99.60
135.0-136.0	0.5	0.0	211.2	0.02	99.62
136.0-137.0	0.5	0.0	211.2	0.02	99.64
137.0-138.0	0.5	0.0	211.3	0.02	99.65
138.0-139.0	0.5	0.0	211.3	0.02	99.67
139.0-140.0	0.5	0.0	211.3	0.02	99.68
140.0-141.0	0.5	0.0	211.4	0.02	99.70
141.0-142.0	0.5	0.0	211.4	0.01	99.71
142.0-143.0	0.5	0.0	211.4	0.01	99.73
143.0-144.0	0.5	0.0	211.5	0.01	99.74

C Plane (°):0.0-360.0: 90.0
Test Lab:
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	0.4	0.0	211.5	0.01	99.76
145.0-146.0	0.4	0.0	211.5	0.01	99.77
146.0-147.0	0.4	0.0	211.6	0.01	99.78
147.0-148.0	0.4	0.0	211.6	0.01	99.79
148.0-149.0	0.4	0.0	211.6	0.01	99.81
149.0-150.0	0.4	0.0	211.6	0.01	99.82
150.0-151.0	0.4	0.0	211.7	0.01	99.83
151.0-152.0	0.4	0.0	211.7	0.01	99.84
152.0-153.0	0.4	0.0	211.7	0.01	99.85
153.0-154.0	0.5	0.0	211.7	0.01	99.86
154.0-155.0	0.5	0.0	211.7	0.01	99.87
155.0-156.0	0.5	0.0	211.8	0.01	99.88
156.0-157.0	0.5	0.0	211.8	0.01	99.89
157.0-158.0	0.5	0.0	211.8	0.01	99.90
158.0-159.0	0.5	0.0	211.8	0.01	99.91
159.0-160.0	0.5	0.0	211.8	0.01	99.92
160.0-161.0	0.5	0.0	211.9	0.01	99.92
161.0-162.0	0.5	0.0	211.9	0.01	99.93
162.0-163.0	0.5	0.0	211.9	0.01	99.94
163.0-164.0	0.5	0.0	211.9	0.01	99.95
164.0-165.0	0.5	0.0	211.9	0.01	99.95
165.0-166.0	0.5	0.0	211.9	0.01	99.96
166.0-167.0	0.5	0.0	211.9	0.01	99.96
167.0-168.0	0.5	0.0	212.0	0.01	99.97
168.0-169.0	0.5	0.0	212.0	0.00	99.97
169.0-170.0	0.5	0.0	212.0	0.00	99.98
170.0-171.0	0.5	0.0	212.0	0.00	99.98
171.0-172.0	0.5	0.0	212.0	0.00	99.99
172.0-173.0	0.5	0.0	212.0	0.00	99.99
173.0-174.0	0.5	0.0	212.0	0.00	99.99
174.0-175.0	0.5	0.0	212.0	0.00	99.99
175.0-176.0	0.5	0.0	212.0	0.00	100.00
176.0-177.0	0.5	0.0	212.0	0.00	100.00
177.0-178.0	0.5	0.0	212.0	0.00	100.00
178.0-179.0	0.5	0.0	212.0	0.00	100.00
179.0-180.0	0.5	0.0	212.0	0.00	100.00

C Plane (°):0.0-360.0: 90.0
Test Lab:
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°): 90.29 lm

%lum = 42.6%

%lamp = 42.6%

cone flux(120°): 134.18 lm

%lum = 63.3%

%lamp = 63.3%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	58.2	58.2	58.2	58.2	58.2					
G1.0	58.3	58.2	58.1	58.2	58.3					
G2.0	58.3	58.3	58.0	58.1	58.3					
G3.0	58.3	58.2	57.9	58.0	58.3					
G4.0	58.3	58.2	57.7	57.9	58.3					
G5.0	58.2	58.2	57.6	57.8	58.2					
G6.0	58.1	58.1	57.4	57.6	58.1					
G7.0	58.0	58.0	57.2	57.5	58.0					
G8.0	57.9	57.9	57.0	57.3	57.9					
G9.0	57.7	57.8	56.7	57.1	57.7					
G10.0	57.6	57.7	56.5	56.9	57.6					
G11.0	57.4	57.5	56.3	56.6	57.4					
G12.0	57.2	57.3	56.0	56.4	57.2					
G13.0	57.0	57.2	55.7	56.1	57.0					
G14.0	56.7	57.0	55.4	55.9	56.7					
G15.0	56.4	56.7	55.0	55.6	56.4					
G16.0	56.2	56.5	54.7	55.3	56.2					
G17.0	55.9	56.2	54.3	55.0	55.9					
G18.0	55.6	56.0	53.9	54.6	55.6					
G19.0	55.3	55.7	53.5	54.3	55.3					
G20.0	54.9	55.4	53.1	54.0	54.9					
G21.0	54.5	55.1	52.7	53.6	54.5					
G22.0	54.2	54.7	52.2	53.2	54.2					
G23.0	53.8	54.3	51.7	52.8	53.8					
G24.0	53.3	53.9	51.2	52.4	53.3					
G25.0	52.9	53.5	50.7	51.9	52.9					
G26.0	52.4	53.1	50.2	51.5	52.4					
G27.0	52.0	52.7	49.6	51.0	52.0					
G28.0	51.5	52.2	49.1	50.5	51.5					
G29.0	51.0	51.8	48.5	50.0	51.0					
G30.0	50.4	51.3	47.9	49.5	50.4					
G31.0	49.9	50.8	47.3	48.9	49.9					
G32.0	49.4	50.3	46.7	48.3	49.4					
G33.0	48.9	49.7	46.0	47.8	48.9					
G34.0	48.4	49.2	45.3	47.2	48.4					
G35.0	47.8	48.6	44.7	46.6	47.8					
G36.0	47.3	48.0	44.0	45.9	47.3					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 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	46.7	47.4	43.3	45.3	46.7					
G38.0	46.2	46.8	42.6	44.6	46.2					
G39.0	45.7	46.1	41.9	43.9	45.7					
G40.0	45.1	45.4	41.1	43.2	45.1					
G41.0	44.5	44.8	40.4	42.6	44.5					
G42.0	44.0	44.1	39.6	41.8	44.0					
G43.0	43.4	43.4	38.8	41.1	43.4					
G44.0	42.8	42.7	38.0	40.4	42.8					
G45.0	42.2	42.0	37.2	39.5	42.2					
G46.0	41.6	41.3	36.4	38.8	41.6					
G47.0	41.0	40.5	35.4	38.0	41.0					
G48.0	40.4	39.7	34.6	37.2	40.4					
G49.0	39.8	39.0	33.6	36.4	39.8					
G50.0	39.2	38.2	32.7	35.5	39.2					
G51.0	38.5	37.4	31.8	34.7	38.5					
G52.0	37.8	36.5	30.7	33.8	37.8					
G53.0	37.1	35.7	29.6	32.8	37.1					
G54.0	36.4	34.8	28.5	31.8	36.4					
G55.0	35.8	33.7	27.3	30.7	35.8					
G56.0	35.1	32.7	26.2	29.4	35.1					
G57.0	34.2	31.6	25.2	28.2	34.2					
G58.0	33.4	30.5	24.2	27.1	33.4					
G59.0	32.6	29.4	23.1	25.8	32.6					
G60.0	31.6	28.3	22.1	24.7	31.6					
G61.0	30.7	27.2	21.2	23.6	30.7					
G62.0	29.8	26.1	20.2	22.6	29.8					
G63.0	28.8	25.0	19.4	21.4	28.8					
G64.0	27.8	23.9	18.7	20.4	27.8					
G65.0	26.8	22.9	18.4	19.3	26.8					
G66.0	26.0	22.0	18.8	18.3	26.0					
G67.0	25.3	21.4	19.6	17.4	25.3					
G68.0	25.2	21.3	19.8	16.6	25.2					
G69.0	25.7	21.1	18.8	16.0	25.7					
G70.0	26.5	20.6	17.5	15.5	26.5					
G71.0	27.2	20.2	16.5	14.7	27.2					
G72.0	27.7	19.6	15.2	13.9	27.7					
G73.0	27.9	19.0	13.4	13.3	27.9					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 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	27.6	18.1	11.7	12.7	27.6					
G75.0	26.6	16.7	10.3	11.9	26.6					
G76.0	25.4	14.3	9.1	11.0	25.4					
G77.0	24.1	12.1	7.9	10.0	24.1					
G78.0	22.1	10.4	6.9	8.7	22.1					
G79.0	19.2	9.4	10.0	7.5	19.2					
G80.0	16.6	8.4	24.5	6.2	16.6					
G81.0	14.2	7.2	53.2	5.0	14.2					
G82.0	11.9	6.3	55.8	5.7	11.9					
G83.0	11.0	7.5	30.1	9.7	11.0					
G84.0	16.2	13.2	10.1	16.4	16.2					
G85.0	34.3	20.1	3.0	11.8	34.3					
G86.0	65.0	17.4	2.2	5.3	65.0					
G87.0	87.9	11.1	1.3	1.4	87.9					
G88.0	104.9	6.1	1.7	1.0	104.9					
G89.0	109.2	2.0	2.2	0.6	109.2					
G90.0	87.7	1.0	3.1	0.8	87.7					
G91.0	60.0	0.6	6.5	0.8	60.0					
G92.0	31.7	0.7	11.6	0.8	31.7					
G93.0	9.1	0.8	16.9	1.2	9.1					
G94.0	3.7	0.5	18.2	0.6	3.7					
G95.0	3.6	0.4	8.8	0.3	3.6					
G96.0	4.7	0.4	3.3	0.3	4.7					
G97.0	9.4	0.3	1.8	0.3	9.4					
G98.0	17.3	0.3	1.6	0.2	17.3					
G99.0	25.2	0.3	1.4	0.2	25.2					
G100.0	32.1	0.3	1.3	0.2	32.1					
G101.0	37.2	0.3	1.2	0.2	37.2					
G102.0	35.7	0.3	1.2	0.2	35.7					
G103.0	29.4	0.3	1.2	0.2	29.4					
G104.0	21.2	0.2	1.2	0.2	21.2					
G105.0	11.8	0.2	1.2	0.2	11.8					
G106.0	5.3	0.2	1.2	0.2	5.3					
G107.0	3.2	0.2	1.1	0.2	3.2					
G108.0	2.9	0.2	1.0	0.2	2.9					
G109.0	2.8	0.2	0.8	0.2	2.8					
G110.0	2.8	0.2	0.8	0.2	2.8					

C Plane (°):0.0-360.0: 90.0
Test Lab:
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	2.8	0.2	0.8	0.2	2.8					
G112.0	2.9	0.2	0.7	0.2	2.9					
G113.0	3.0	0.2	0.7	0.2	3.0					
G114.0	2.9	0.3	0.6	0.2	2.9					
G115.0	2.7	0.3	0.6	0.2	2.7					
G116.0	2.6	0.3	0.6	0.3	2.6					
G117.0	2.6	0.3	0.6	0.3	2.6					
G118.0	2.4	0.3	0.5	0.3	2.4					
G119.0	2.2	0.3	0.5	0.3	2.2					
G120.0	1.9	0.3	0.5	0.3	1.9					
G121.0	1.7	0.3	0.5	0.3	1.7					
G122.0	1.5	0.3	0.5	0.3	1.5					
G123.0	1.4	0.3	0.5	0.3	1.4					
G124.0	1.4	0.3	0.5	0.3	1.4					
G125.0	1.3	0.3	0.5	0.3	1.3					
G126.0	1.2	0.3	0.5	0.3	1.2					
G127.0	1.2	0.3	0.4	0.3	1.2					
G128.0	1.2	0.3	0.4	0.3	1.2					
G129.0	1.1	0.3	0.4	0.3	1.1					
G130.0	1.1	0.3	0.4	0.3	1.1					
G131.0	1.0	0.3	0.4	0.3	1.0					
G132.0	1.0	0.3	0.4	0.3	1.0					
G133.0	1.0	0.3	0.4	0.3	1.0					
G134.0	0.9	0.3	0.4	0.3	0.9					
G135.0	0.9	0.3	0.4	0.3	0.9					
G136.0	0.9	0.3	0.4	0.3	0.9					
G137.0	0.8	0.3	0.4	0.3	0.8					
G138.0	0.8	0.4	0.4	0.3	0.8					
G139.0	0.8	0.4	0.4	0.3	0.8					
G140.0	0.7	0.4	0.4	0.3	0.7					
G141.0	0.7	0.4	0.4	0.3	0.7					
G142.0	0.7	0.4	0.4	0.4	0.7					
G143.0	0.7	0.4	0.4	0.4	0.7					
G144.0	0.7	0.4	0.4	0.4	0.7					
G145.0	0.6	0.4	0.4	0.4	0.6					
G146.0	0.6	0.4	0.4	0.4	0.6					
G147.0	0.6	0.4	0.4	0.4	0.6					

C Plane (°):0.0-360.0: 90.0
Test Lab:
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	0.6	0.4	0.4	0.4	0.6					
G149.0	0.6	0.4	0.4	0.4	0.6					
G150.0	0.5	0.4	0.4	0.4	0.5					
G151.0	0.5	0.4	0.4	0.4	0.5					
G152.0	0.5	0.4	0.4	0.4	0.5					
G153.0	0.5	0.4	0.4	0.4	0.5					
G154.0	0.5	0.4	0.4	0.4	0.5					
G155.0	0.5	0.4	0.4	0.4	0.5					
G156.0	0.5	0.4	0.4	0.5	0.5					
G157.0	0.5	0.4	0.4	0.5	0.5					
G158.0	0.5	0.5	0.4	0.5	0.5					
G159.0	0.5	0.5	0.4	0.4	0.5					
G160.0	0.5	0.5	0.4	0.5	0.5					
G161.0	0.4	0.5	0.4	0.5	0.4					
G162.0	0.4	0.5	0.5	0.5	0.4					
G163.0	0.4	0.5	0.5	0.5	0.4					
G164.0	0.4	0.5	0.5	0.5	0.4					
G165.0	0.4	0.5	0.5	0.5	0.4					
G166.0	0.5	0.5	0.5	0.5	0.5					
G167.0	0.5	0.5	0.5	0.5	0.5					
G168.0	0.5	0.5	0.5	0.5	0.5					
G169.0	0.5	0.5	0.5	0.5	0.5					
G170.0	0.4	0.5	0.5	0.5	0.4					
G171.0	0.5	0.5	0.5	0.5	0.5					
G172.0	0.5	0.5	0.5	0.5	0.5					
G173.0	0.5	0.5	0.5	0.5	0.5					
G174.0	0.5	0.5	0.5	0.5	0.5					
G175.0	0.5	0.5	0.5	0.5	0.5					
G176.0	0.5	0.5	0.5	0.5	0.5					
G177.0	0.5	0.5	0.5	0.5	0.5					
G178.0	0.5	0.5	0.5	0.5	0.5					
G179.0	0.5	0.5	0.5	0.5	0.5					
G180.0	0.5	0.5	0.5	0.5	0.5					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 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