

Report No.: TH-4277A

Test Time: 2023/6/7 11:52

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.061 A
Power Factor: 0.460

Luminaire Description: GW-A310
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 220.4 V
Power: 6.17 W

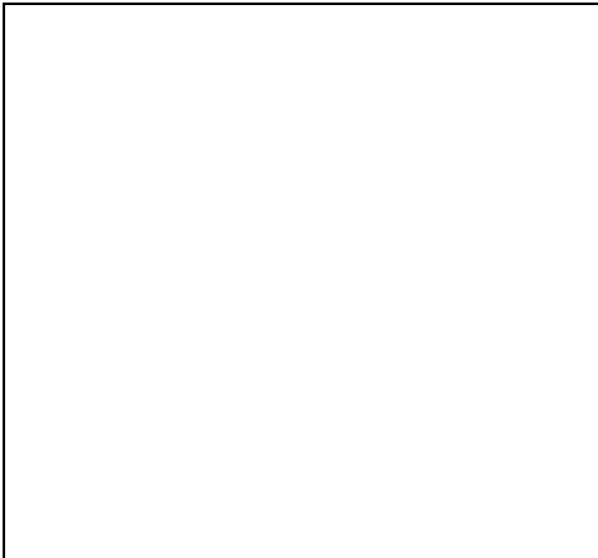
Photometric Results

CIE Class: General Diffuse
Measurement Flux: 409.8 lm
Downward Ratio: 50%
Horizontal Diffuse Angle(50%): H106.5
Vertical Diffuse Angle(50%): V82.3
Luminaire Efficacy Rating (LER): 66.47
Max. Intensity: 104.97 cd
S/MH(C0/C180): 1.30

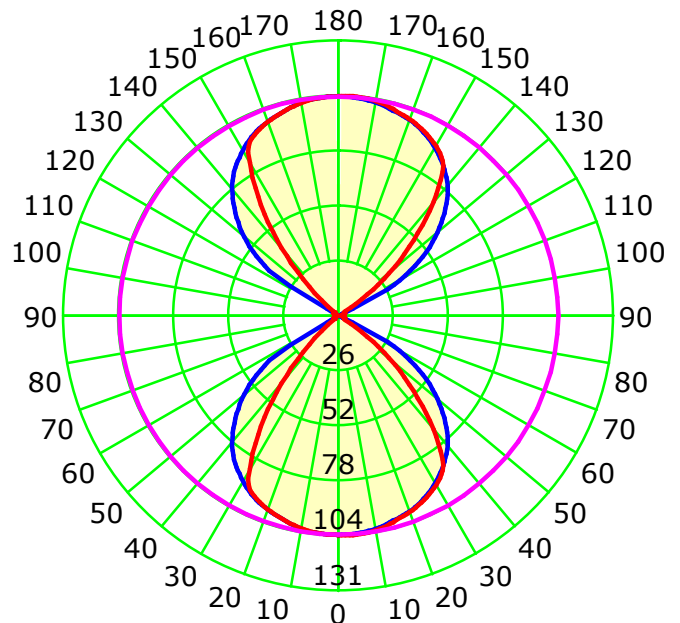
Total Rated Lamp Lumens: 409.8 lm
Efficiency: 100%
Upward Ratio: 50%

C0r0 Intensity: 104.69 cd
Pos of Max. Intensity: H90 V3
S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

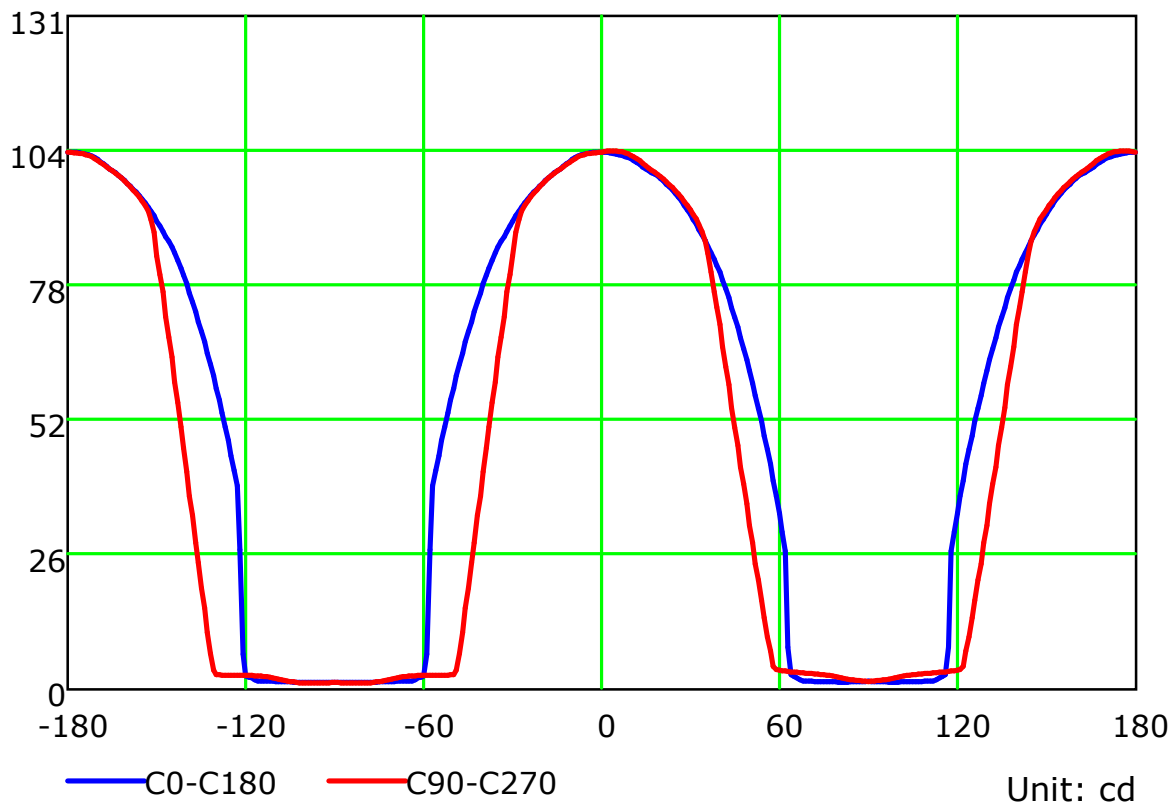
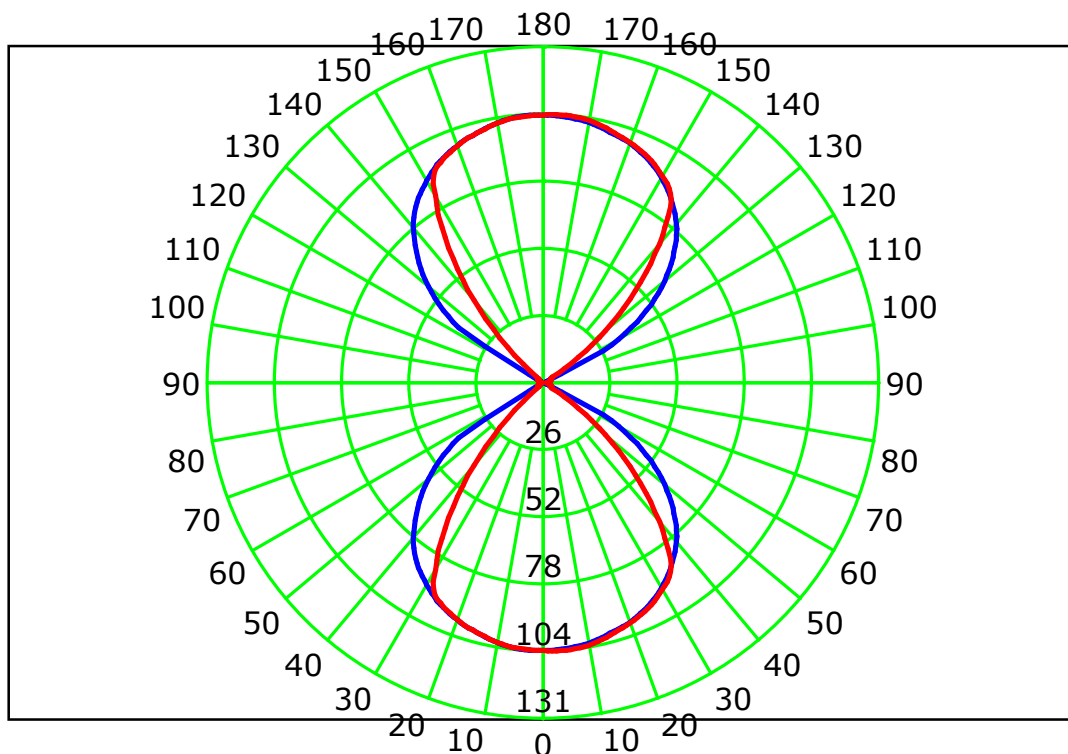
Average Diffuse Angle(50%): 94.4°

— C0-C180 — C90-C270 — G3

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



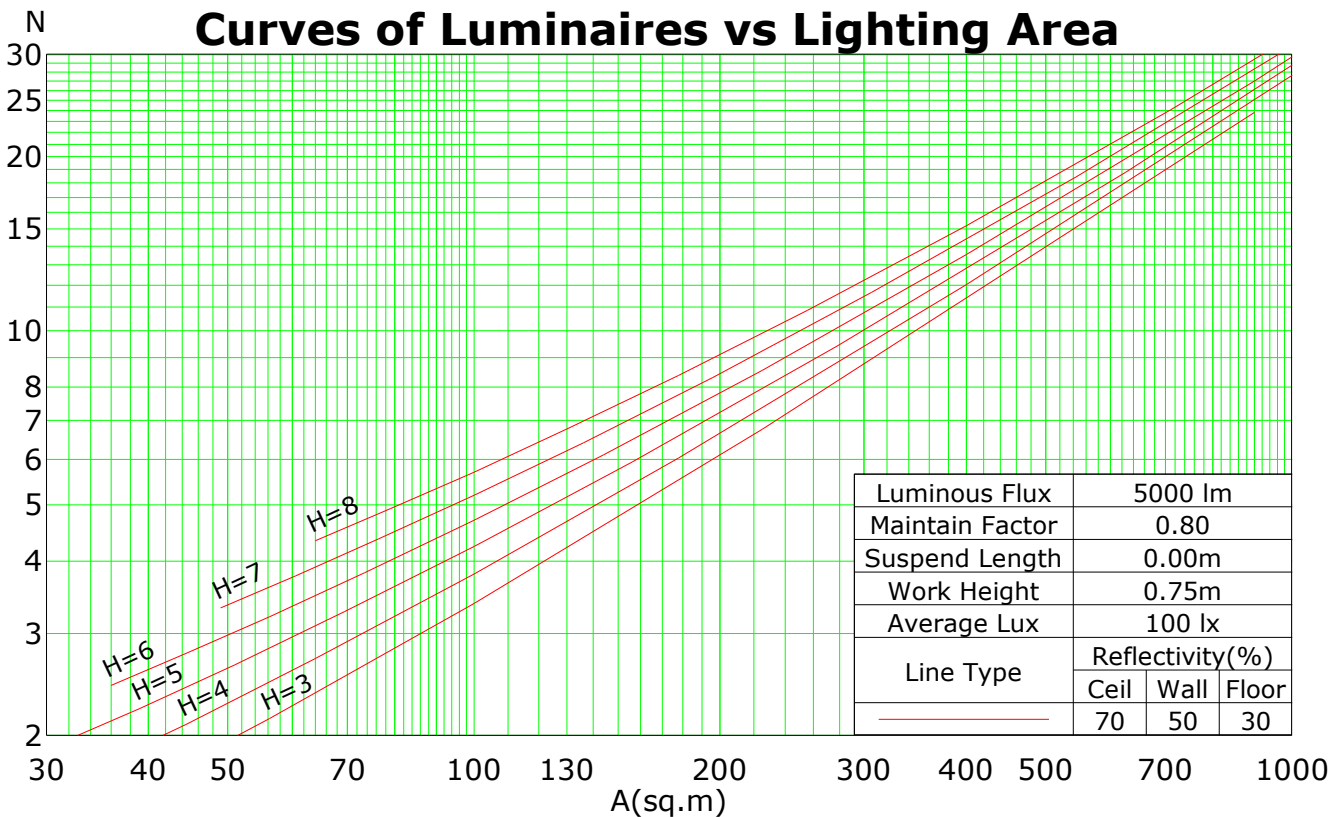
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Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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	1.07	1.07	1.07	1.07	0.99	0.99	0.99	0.99	0.83	0.83	0.83	0.69	0.69	0.69	0.56	0.56	0.56	0.50
1	0.99	0.95	0.92	0.89	0.91	0.88	0.85	0.83	0.75	0.73	0.71	0.63	0.61	0.60	0.52	0.51	0.50	0.45
2	0.91	0.85	0.79	0.75	0.84	0.79	0.74	0.70	0.67	0.64	0.61	0.57	0.55	0.52	0.47	0.46	0.44	0.40
3	0.84	0.76	0.69	0.64	0.78	0.70	0.65	0.60	0.61	0.56	0.53	0.51	0.48	0.46	0.43	0.41	0.39	0.35
4	0.78	0.68	0.61	0.55	0.72	0.63	0.57	0.52	0.55	0.50	0.46	0.47	0.43	0.40	0.39	0.37	0.35	0.31
5	0.72	0.61	0.53	0.48	0.66	0.57	0.50	0.45	0.49	0.44	0.41	0.42	0.39	0.36	0.36	0.33	0.31	0.28
6	0.66	0.55	0.48	0.42	0.61	0.52	0.45	0.40	0.45	0.40	0.36	0.39	0.35	0.32	0.33	0.30	0.28	0.25
7	0.61	0.50	0.42	0.37	0.57	0.47	0.40	0.35	0.41	0.36	0.32	0.35	0.31	0.28	0.30	0.27	0.25	0.23
8	0.57	0.46	0.38	0.33	0.53	0.43	0.36	0.32	0.37	0.32	0.29	0.33	0.29	0.26	0.28	0.25	0.23	0.20
9	0.53	0.42	0.35	0.30	0.49	0.39	0.33	0.28	0.34	0.29	0.26	0.30	0.26	0.23	0.26	0.23	0.21	0.19
10	0.50	0.38	0.31	0.27	0.46	0.36	0.30	0.26	0.32	0.27	0.23	0.28	0.24	0.21	0.24	0.21	0.19	0.17

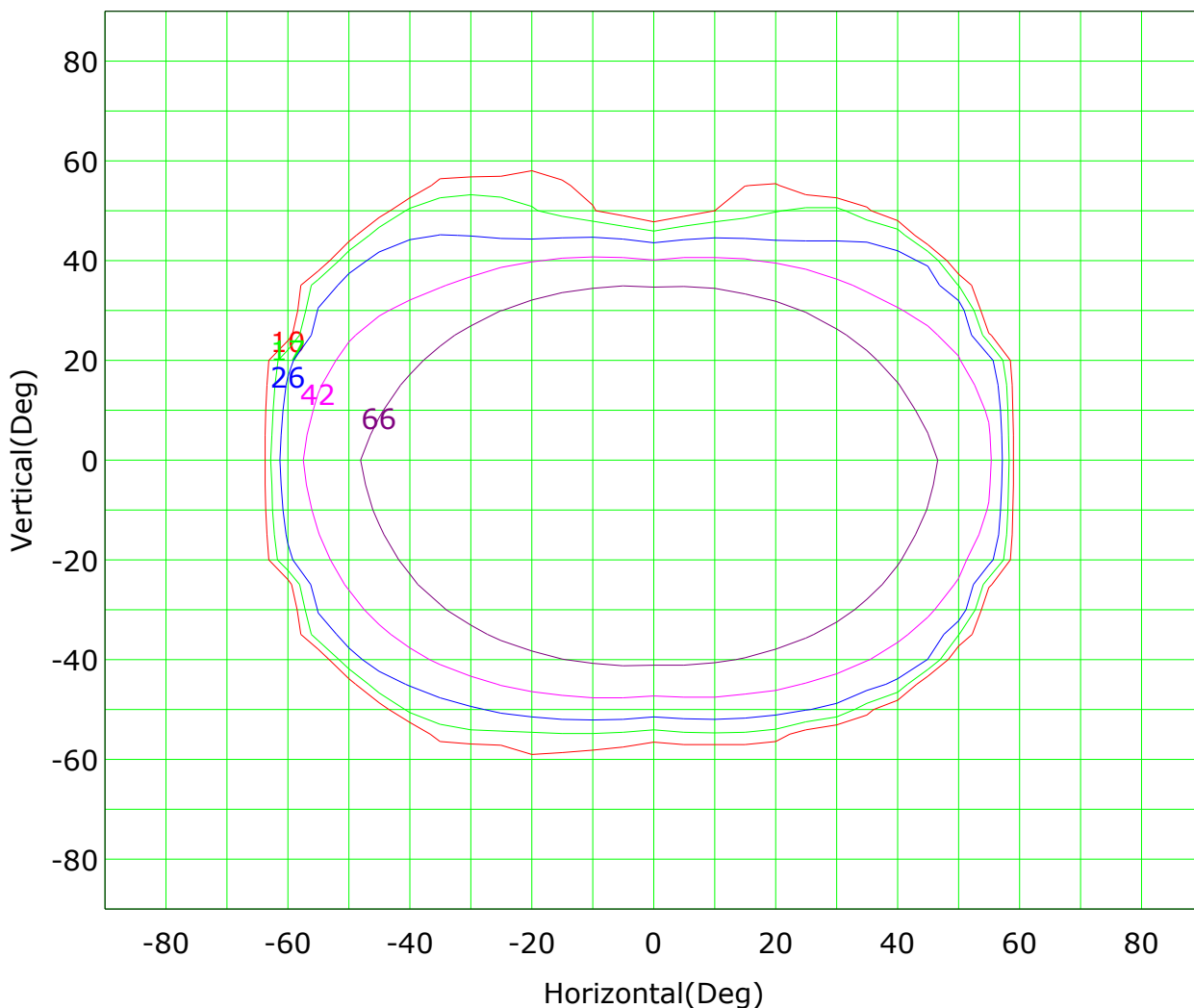
Spacing Criteria (0-180): 1.30
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.26



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)



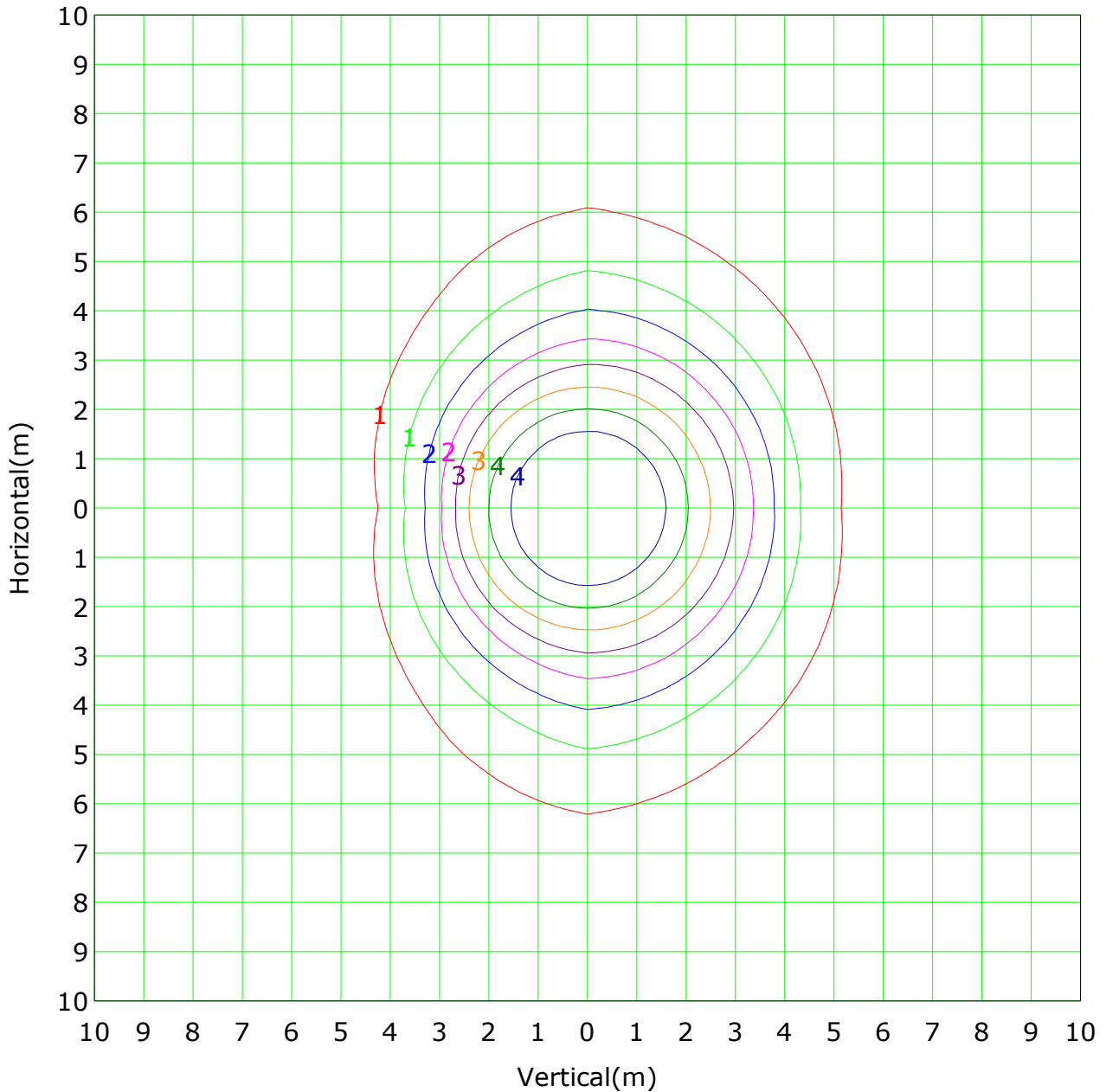
Imax (100%): 105 cd

— (10%):	10 cd	— (16%):	17 cd
— (25%):	26 cd	— (40%):	42 cd
— (63%):	66 cd	— (100%):	105 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%): 5.2 lx	
— (10%):	0.5 lx	— (20%):	1.0 lx
— (30%):	1.6 lx	— (40%):	2.1 lx
— (50%):	2.6 lx	— (60%):	3.1 lx
— (70%):	3.6 lx	— (80%):	4.1 lx

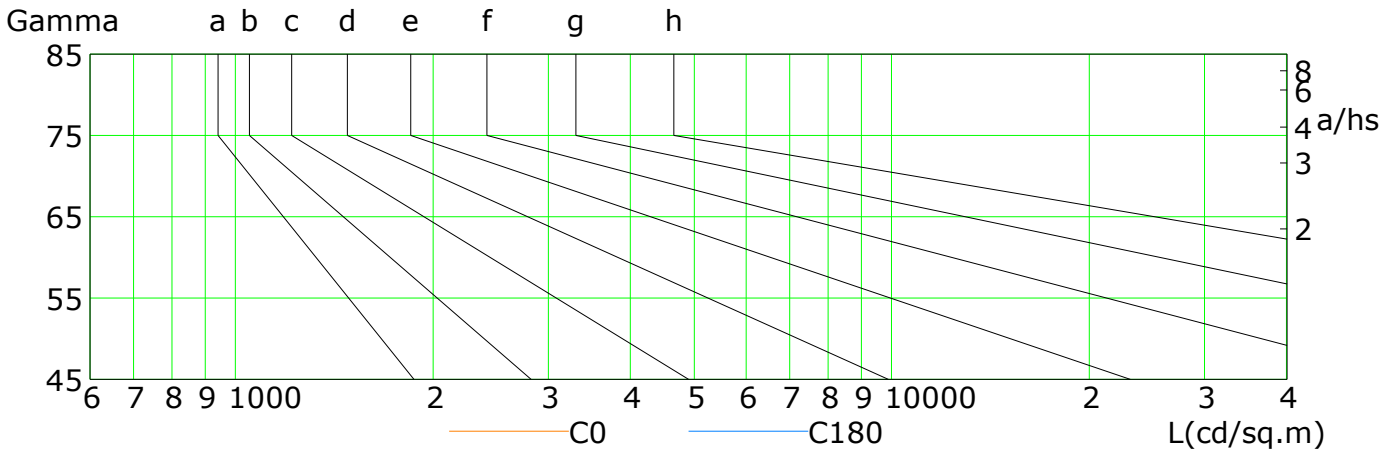
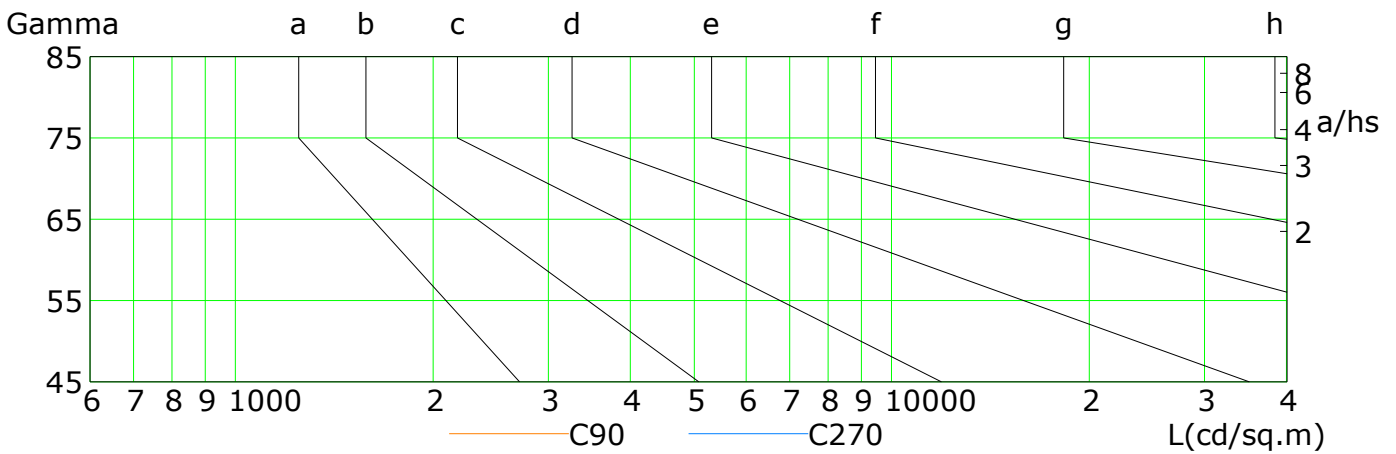
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 26
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.0000]
Humidity: 65
Inspector:

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

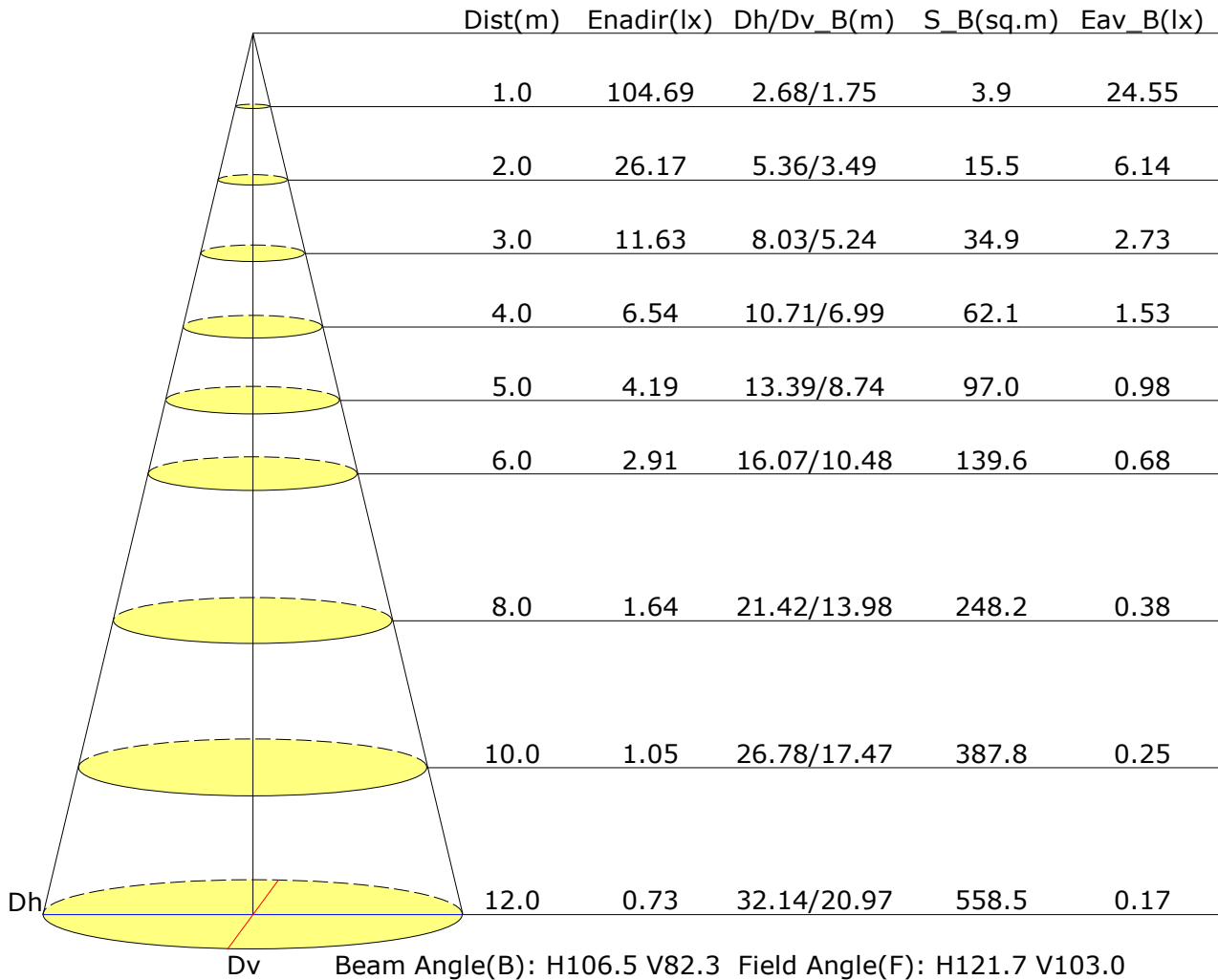


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	72	62	49	34	2	1	1	1	1
C90	51	32	14	4	3	3	3	2	2
C180	70	59	45	2	1	1	1	1	1
C270	20	3	3	3	2	2	1	1	1

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Test Type: TYPE C
Temperature: 26
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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:

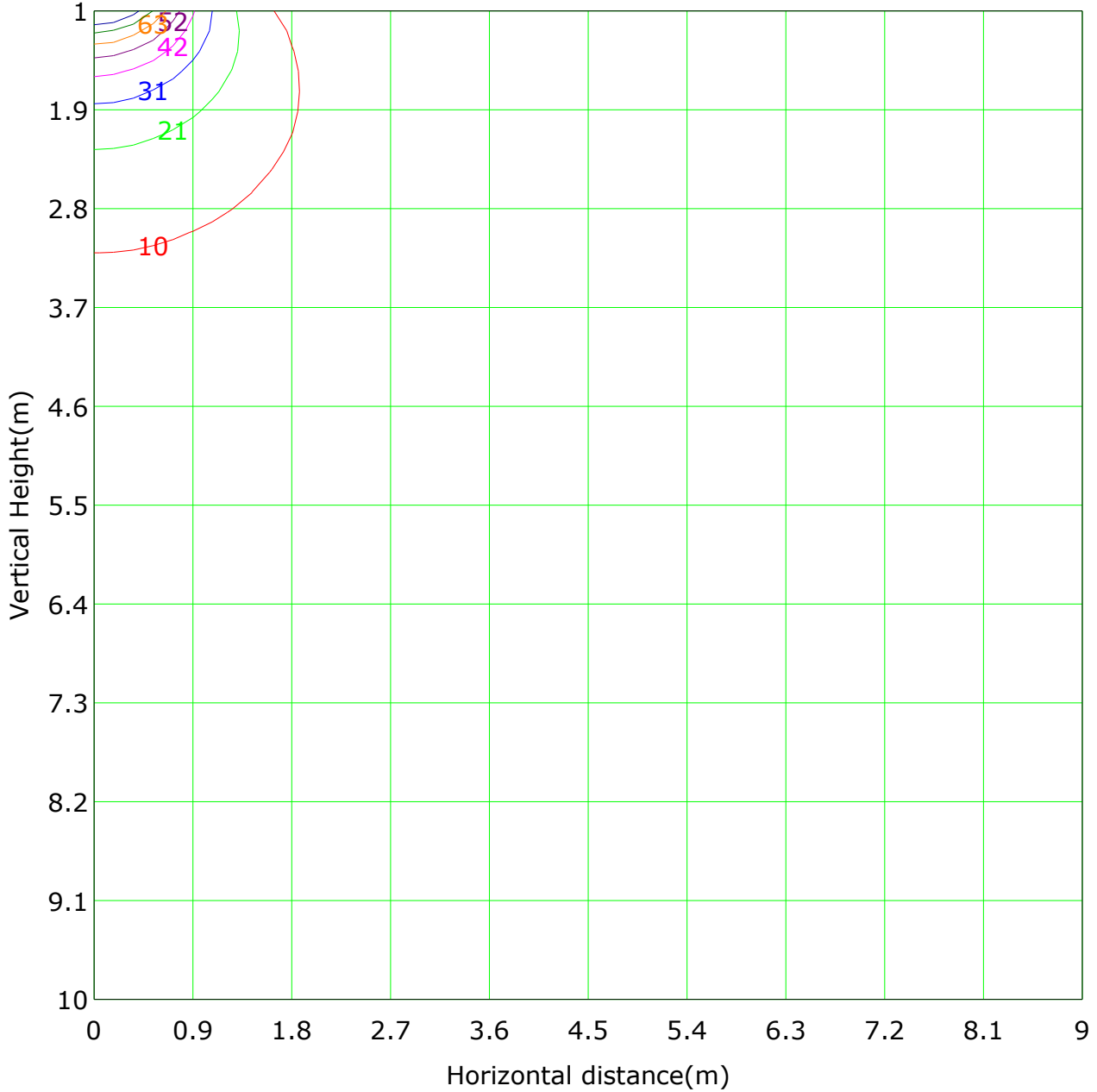
Illuminance at a Distance



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

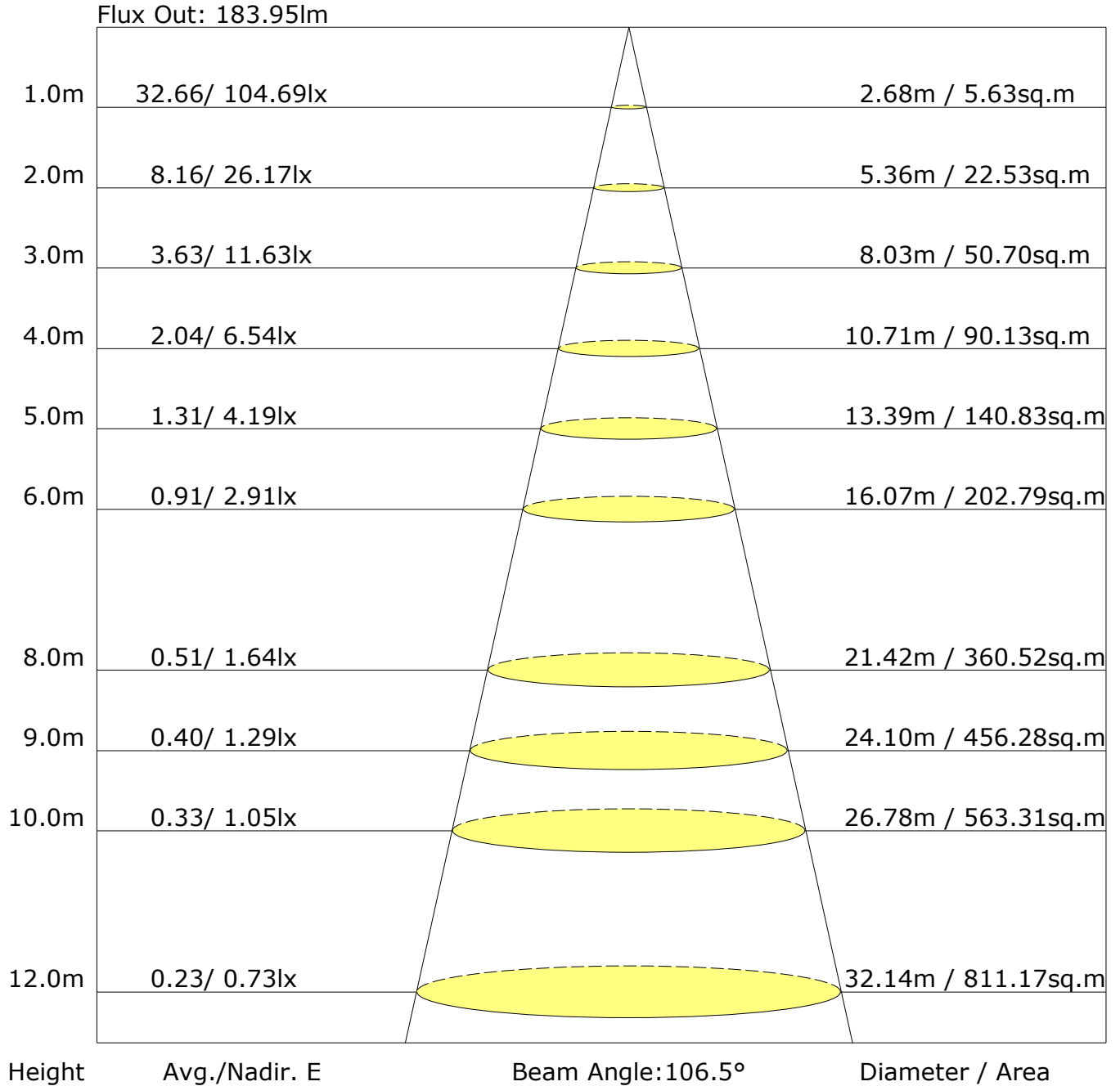


Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 104.7 lx
— (10%): 10.5 lx	— (20%): 20.9 lx	
— (30%): 31.4 lx	— (40%): 41.9 lx	
— (50%): 52.3 lx	— (60%): 62.8 lx	
— (70%): 73.3 lx	— (80%): 83.8 lx	

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



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 410lm ($8\log(F/F_0) = -3.1$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	104.7	0.1	0.1	0.02	0.02
1.0-2.0	104.7	0.3	0.4	0.07	0.10
2.0-3.0	104.7	0.5	0.9	0.12	0.22
3.0-4.0	104.6	0.7	1.6	0.17	0.39
4.0-5.0	104.5	0.9	2.5	0.22	0.61
5.0-6.0	104.4	1.1	3.6	0.27	0.88
6.0-7.0	104.3	1.3	4.9	0.32	1.19
7.0-8.0	104.1	1.5	6.4	0.36	1.56
8.0-9.0	103.9	1.7	8.1	0.41	1.97
9.0-10.0	103.6	1.9	9.9	0.46	2.43
10.0-11.0	103.3	2.1	12.0	0.50	2.93
11.0-12.0	102.9	2.2	14.3	0.55	3.48
12.0-13.0	102.5	2.4	16.7	0.59	4.07
13.0-14.0	102.0	2.6	19.3	0.64	4.71
14.0-15.0	101.6	2.8	22.1	0.68	5.39
15.0-16.0	101.2	3.0	25.1	0.72	6.11
16.0-17.0	100.7	3.1	28.2	0.77	6.88
17.0-18.0	100.3	3.3	31.5	0.81	7.69
18.0-19.0	99.9	3.5	35.0	0.85	8.53
19.0-20.0	99.4	3.6	38.6	0.89	9.42
20.0-21.0	98.9	3.8	42.4	0.93	10.35
21.0-22.0	98.3	4.0	46.4	0.96	11.31
22.0-23.0	97.7	4.1	50.5	1.00	12.31
23.0-24.0	97.1	4.2	54.7	1.04	13.35
24.0-25.0	96.4	4.4	59.1	1.07	14.42
25.0-26.0	95.7	4.5	63.6	1.10	15.52
26.0-27.0	94.9	4.6	68.3	1.13	16.65
27.0-28.0	94.0	4.8	73.0	1.16	17.82
28.0-29.0	92.9	4.9	77.9	1.19	19.00
29.0-30.0	91.3	4.9	82.8	1.20	20.20
30.0-31.0	89.6	5.0	87.8	1.22	21.42
31.0-32.0	88.0	5.0	92.8	1.23	22.65
32.0-33.0	86.2	5.1	97.9	1.24	23.89
33.0-34.0	84.3	5.1	103.0	1.24	25.14
34.0-35.0	82.4	5.1	108.1	1.25	26.38
35.0-36.0	80.2	5.1	113.2	1.25	27.63

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	77.7	5.1	118.3	1.24	28.87
37.0-38.0	75.0	5.0	123.3	1.22	30.09
38.0-39.0	72.4	4.9	128.3	1.21	31.29
39.0-40.0	69.8	4.9	133.1	1.19	32.48
40.0-41.0	66.8	4.8	137.9	1.16	33.64
41.0-42.0	63.9	4.6	142.5	1.13	34.78
42.0-43.0	61.0	4.5	147.0	1.10	35.88
43.0-44.0	57.9	4.4	151.4	1.07	36.94
44.0-45.0	54.7	4.2	155.6	1.03	37.97
45.0-46.0	51.7	4.0	159.7	0.99	38.96
46.0-47.0	48.6	3.9	163.5	0.94	39.90
47.0-48.0	45.5	3.7	167.2	0.90	40.80
48.0-49.0	42.7	3.5	170.7	0.85	41.65
49.0-50.0	40.0	3.3	174.0	0.81	42.47
50.0-51.0	37.8	3.2	177.2	0.78	43.25
51.0-52.0	35.6	3.1	180.3	0.75	43.99
52.0-53.0	33.4	2.9	183.2	0.71	44.70
53.0-54.0	31.2	2.8	186.0	0.67	45.37
54.0-55.0	29.0	2.6	188.5	0.63	46.01
55.0-56.0	26.6	2.4	191.0	0.59	46.59
56.0-57.0	24.4	2.2	193.2	0.54	47.14
57.0-58.0	21.0	1.9	195.1	0.47	47.61
58.0-59.0	15.6	1.5	196.6	0.36	47.97
59.0-60.0	11.6	1.1	197.7	0.27	48.23
60.0-61.0	10.2	1.0	198.7	0.24	48.47
61.0-62.0	9.2	0.9	199.5	0.22	48.69
62.0-63.0	6.3	0.6	200.1	0.15	48.84
63.0-64.0	3.2	0.3	200.5	0.08	48.91
64.0-65.0	2.4	0.2	200.7	0.06	48.97
65.0-66.0	2.3	0.2	200.9	0.06	49.03
66.0-67.0	2.2	0.2	201.1	0.05	49.08
67.0-68.0	2.1	0.2	201.4	0.05	49.13
68.0-69.0	2.0	0.2	201.6	0.05	49.18
69.0-70.0	1.9	0.2	201.8	0.05	49.23
70.0-71.0	1.9	0.2	202.0	0.05	49.28
71.0-72.0	1.8	0.2	202.1	0.05	49.32

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	1.8	0.2	202.3	0.05	49.37
73.0-74.0	1.7	0.2	202.5	0.04	49.41
74.0-75.0	1.7	0.2	202.7	0.04	49.46
75.0-76.0	1.6	0.2	202.9	0.04	49.50
76.0-77.0	1.6	0.2	203.0	0.04	49.54
77.0-78.0	1.5	0.2	203.2	0.04	49.58
78.0-79.0	1.5	0.2	203.3	0.04	49.62
79.0-80.0	1.4	0.2	203.5	0.04	49.65
80.0-81.0	1.4	0.2	203.6	0.04	49.69
81.0-82.0	1.4	0.1	203.8	0.04	49.73
82.0-83.0	1.3	0.1	203.9	0.04	49.76
83.0-84.0	1.3	0.1	204.1	0.03	49.80
84.0-85.0	1.3	0.1	204.2	0.03	49.83
85.0-86.0	1.3	0.1	204.4	0.03	49.86
86.0-87.0	1.3	0.1	204.5	0.03	49.90
87.0-88.0	1.3	0.1	204.6	0.03	49.93
88.0-89.0	1.3	0.1	204.8	0.03	49.97
89.0-90.0	1.3	0.1	204.9	0.03	50.00
90.0-91.0	1.3	0.1	205.1	0.03	50.03
91.0-92.0	1.3	0.1	205.2	0.03	50.07
92.0-93.0	1.3	0.1	205.3	0.03	50.10
93.0-94.0	1.3	0.1	205.5	0.03	50.14
94.0-95.0	1.3	0.1	205.6	0.03	50.17
95.0-96.0	1.3	0.1	205.8	0.03	50.20
96.0-97.0	1.3	0.1	205.9	0.03	50.24
97.0-98.0	1.3	0.1	206.0	0.04	50.27
98.0-99.0	1.4	0.1	206.2	0.04	50.31
99.0-100.0	1.4	0.2	206.3	0.04	50.35
100.0-101.0	1.4	0.2	206.5	0.04	50.38
101.0-102.0	1.5	0.2	206.6	0.04	50.42
102.0-103.0	1.5	0.2	206.8	0.04	50.46
103.0-104.0	1.6	0.2	207.0	0.04	50.50
104.0-105.0	1.6	0.2	207.1	0.04	50.54
105.0-106.0	1.7	0.2	207.3	0.04	50.59
106.0-107.0	1.7	0.2	207.5	0.04	50.63
107.0-108.0	1.8	0.2	207.7	0.05	50.68

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	1.8	0.2	207.9	0.05	50.72
109.0-110.0	1.9	0.2	208.1	0.05	50.77
110.0-111.0	1.9	0.2	208.3	0.05	50.82
111.0-112.0	2.0	0.2	208.5	0.05	50.87
112.0-113.0	2.1	0.2	208.7	0.05	50.92
113.0-114.0	2.2	0.2	208.9	0.05	50.97
114.0-115.0	2.3	0.2	209.1	0.06	51.03
115.0-116.0	2.4	0.2	209.4	0.06	51.09
116.0-117.0	3.2	0.3	209.7	0.08	51.16
117.0-118.0	6.3	0.6	210.3	0.15	51.31
118.0-119.0	9.2	0.9	211.2	0.22	51.53
119.0-120.0	10.2	1.0	212.2	0.24	51.77
120.0-121.0	11.6	1.1	213.3	0.27	52.03
121.0-122.0	15.6	1.5	214.7	0.36	52.39
122.0-123.0	21.0	1.9	216.7	0.47	52.86
123.0-124.0	24.4	2.2	218.9	0.54	53.41
124.0-125.0	26.6	2.4	221.3	0.59	53.99
125.0-126.0	29.0	2.6	223.9	0.63	54.63
126.0-127.0	31.2	2.8	226.6	0.67	55.30
127.0-128.0	33.4	2.9	229.5	0.71	56.01
128.0-129.0	35.6	3.1	232.6	0.75	56.75
129.0-130.0	37.8	3.2	235.8	0.78	57.53
130.0-131.0	40.0	3.3	239.1	0.81	58.35
131.0-132.0	42.7	3.5	242.6	0.85	59.20
132.0-133.0	45.5	3.7	246.3	0.90	60.10
133.0-134.0	48.6	3.9	250.2	0.94	61.04
134.0-135.0	51.7	4.0	254.2	0.99	62.03
135.0-136.0	54.7	4.2	258.4	1.03	63.06
136.0-137.0	57.9	4.4	262.8	1.07	64.12
137.0-138.0	61.0	4.5	267.3	1.10	65.22
138.0-139.0	63.9	4.6	272.0	1.13	66.36
139.0-140.0	66.8	4.8	276.7	1.16	67.52
140.0-141.0	69.8	4.9	281.6	1.19	68.71
141.0-142.0	72.4	4.9	286.5	1.21	69.91
142.0-143.0	75.0	5.0	291.5	1.22	71.13
143.0-144.0	77.7	5.1	296.6	1.24	72.37

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	80.2	5.1	301.7	1.25	73.62
145.0-146.0	82.4	5.1	306.8	1.25	74.86
146.0-147.0	84.3	5.1	311.9	1.24	76.11
147.0-148.0	86.2	5.1	317.0	1.24	77.35
148.0-149.0	88.0	5.0	322.0	1.23	78.58
149.0-150.0	89.6	5.0	327.0	1.22	79.80
150.0-151.0	91.3	4.9	332.0	1.20	81.00
151.0-152.0	92.9	4.9	336.8	1.19	82.18
152.0-153.0	94.0	4.8	341.6	1.16	83.35
153.0-154.0	94.9	4.6	346.2	1.13	84.48
154.0-155.0	95.7	4.5	350.7	1.10	85.58
155.0-156.0	96.4	4.4	355.1	1.07	86.65
156.0-157.0	97.1	4.2	359.4	1.04	87.69
157.0-158.0	97.7	4.1	363.5	1.00	88.69
158.0-159.0	98.3	4.0	367.4	0.96	89.65
159.0-160.0	98.9	3.8	371.2	0.93	90.58
160.0-161.0	99.4	3.6	374.9	0.89	91.47
161.0-162.0	99.9	3.5	378.3	0.85	92.31
162.0-163.0	100.3	3.3	381.6	0.81	93.12
163.0-164.0	100.7	3.1	384.8	0.77	93.89
164.0-165.0	101.2	3.0	387.7	0.72	94.61
165.0-166.0	101.6	2.8	390.5	0.68	95.29
166.0-167.0	102.0	2.6	393.1	0.64	95.93
167.0-168.0	102.5	2.4	395.6	0.59	96.52
168.0-169.0	102.9	2.2	397.8	0.55	97.07
169.0-170.0	103.3	2.1	399.9	0.50	97.57
170.0-171.0	103.6	1.9	401.8	0.46	98.03
171.0-172.0	103.9	1.7	403.4	0.41	98.44
172.0-173.0	104.1	1.5	404.9	0.36	98.81
173.0-174.0	104.3	1.3	406.2	0.32	99.12
174.0-175.0	104.4	1.1	407.3	0.27	99.39
175.0-176.0	104.5	0.9	408.2	0.22	99.61
176.0-177.0	104.6	0.7	408.9	0.17	99.78
177.0-178.0	104.7	0.5	409.4	0.12	99.90
178.0-179.0	104.7	0.3	409.7	0.07	99.98
179.0-180.0	104.7	0.1	409.8	0.02	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°): 155.61 lm

%lum = 38.0%

%lamp = 38.0%

cone flux(120°): 197.68 lm

%lum = 48.2%

%lamp = 48.2%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	104.7	104.7	104.7	104.7	104.7					
G1.0	104.7	104.8	104.7	104.6	104.7					
G2.0	104.6	104.9	104.7	104.6	104.6					
G3.0	104.5	105.0	104.6	104.5	104.5					
G4.0	104.4	105.0	104.5	104.5	104.4					
G5.0	104.3	104.9	104.4	104.3	104.3					
G6.0	104.2	104.8	104.3	104.2	104.2					
G7.0	104.0	104.7	104.1	104.0	104.0					
G8.0	103.8	104.6	103.9	103.8	103.8					
G9.0	103.6	104.4	103.6	103.4	103.6					
G10.0	103.3	104.1	103.2	103.1	103.3					
G11.0	103.0	103.8	102.8	102.7	103.0					
G12.0	102.6	103.4	102.4	102.2	102.6					
G13.0	102.2	103.0	101.9	101.8	102.2					
G14.0	101.8	102.5	101.4	101.4	101.8					
G15.0	101.4	102.1	101.0	101.0	101.4					
G16.0	101.0	101.6	100.6	100.6	101.0					
G17.0	100.7	101.1	100.1	100.1	100.7					
G18.0	100.4	100.7	99.7	99.7	100.4					
G19.0	100.0	100.3	99.2	99.1	100.0					
G20.0	99.5	99.9	98.6	98.5	99.5					
G21.0	99.0	99.4	98.0	97.9	99.0					
G22.0	98.5	98.9	97.5	97.3	98.5					
G23.0	97.9	98.3	96.9	96.6	97.9					
G24.0	97.2	97.7	96.2	95.9	97.2					
G25.0	96.6	97.1	95.5	95.1	96.6					
G26.0	95.9	96.5	94.8	94.3	95.9					
G27.0	95.1	95.8	94.0	93.2	95.1					
G28.0	94.3	95.0	93.1	91.5	94.3					
G29.0	93.5	94.2	92.2	89.1	93.5					
G30.0	92.6	93.4	91.2	84.4	92.6					
G31.0	91.6	92.6	90.2	80.8	91.6					
G32.0	90.6	91.7	89.2	77.4	90.6					
G33.0	89.5	90.5	88.2	72.6	89.5					
G34.0	88.5	89.1	87.3	68.5	88.5					
G35.0	87.4	87.3	86.2	64.6	87.4					
G36.0	86.3	85.0	85.0	59.8	86.3					

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	85.0	81.3	83.5	55.8	85.0					
G38.0	83.8	77.4	82.1	51.0	83.8					
G39.0	82.6	74.4	80.7	46.9	82.6					
G40.0	81.2	71.1	79.1	42.3	81.2					
G41.0	79.6	66.6	77.2	37.6	79.6					
G42.0	78.0	62.8	75.4	33.8	78.0					
G43.0	76.3	59.3	73.6	28.5	76.3					
G44.0	74.3	54.8	71.6	24.6	74.3					
G45.0	72.4	50.9	69.6	19.5	72.4					
G46.0	70.5	47.5	67.6	15.7	70.5					
G47.0	68.4	43.2	65.4	10.9	68.4					
G48.0	66.3	39.9	63.3	6.8	66.3					
G49.0	64.2	36.1	61.1	3.6	64.2					
G50.0	62.0	31.8	58.6	2.7	62.0					
G51.0	59.5	28.5	56.3	2.7	59.5					
G52.0	57.2	24.3	53.8	2.6	57.2					
G53.0	54.7	21.2	51.1	2.6	54.7					
G54.0	52.2	17.2	48.4	2.6	52.2					
G55.0	49.4	13.8	45.4	2.6	49.4					
G56.0	46.7	10.1	42.6	2.6	46.7					
G57.0	43.8	7.3	39.6	2.6	43.8					
G58.0	40.6	4.3	27.0	2.6	40.6					
G59.0	37.5	3.6	6.6	2.5	37.5					
G60.0	34.1	3.5	2.5	2.5	34.1					
G61.0	30.6	3.5	2.2	2.5	30.6					
G62.0	26.8	3.4	2.0	2.5	26.8					
G63.0	8.0	3.3	1.7	2.5	8.0					
G64.0	2.6	3.2	1.5	2.5	2.6					
G65.0	2.3	3.2	1.4	2.4	2.3					
G66.0	2.0	3.2	1.4	2.4	2.0					
G67.0	1.7	3.1	1.4	2.3	1.7					
G68.0	1.4	3.1	1.4	2.2	1.4					
G69.0	1.4	3.0	1.4	2.1	1.4					
G70.0	1.4	2.9	1.4	1.9	1.4					
G71.0	1.4	2.9	1.3	1.8	1.4					
G72.0	1.4	2.8	1.3	1.7	1.4					
G73.0	1.3	2.8	1.3	1.6	1.3					

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 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	1.3	2.7	1.3	1.5	1.3					
G75.0	1.3	2.7	1.3	1.3	1.3					
G76.0	1.3	2.6	1.2	1.3	1.3					
G77.0	1.3	2.5	1.2	1.2	1.3					
G78.0	1.3	2.4	1.2	1.1	1.3					
G79.0	1.3	2.3	1.2	1.1	1.3					
G80.0	1.2	2.2	1.2	1.1	1.2					
G81.0	1.2	2.0	1.1	1.1	1.2					
G82.0	1.2	1.9	1.1	1.1	1.2					
G83.0	1.2	1.8	1.1	1.1	1.2					
G84.0	1.3	1.7	1.1	1.1	1.3					
G85.0	1.3	1.7	1.1	1.1	1.3					
G86.0	1.3	1.6	1.1	1.1	1.3					
G87.0	1.3	1.5	1.1	1.1	1.3					
G88.0	1.3	1.5	1.1	1.1	1.3					
G89.0	1.4	1.4	1.1	1.1	1.4					
G90.0	1.4	1.4	1.2	1.2	1.4					
G91.0	1.4	1.4	1.1	1.1	1.4					
G92.0	1.3	1.5	1.1	1.1	1.3					
G93.0	1.3	1.5	1.1	1.1	1.3					
G94.0	1.3	1.6	1.1	1.1	1.3					
G95.0	1.3	1.7	1.1	1.1	1.3					
G96.0	1.3	1.7	1.1	1.1	1.3					
G97.0	1.2	1.8	1.1	1.1	1.2					
G98.0	1.2	1.9	1.1	1.1	1.2					
G99.0	1.2	2.0	1.1	1.1	1.2					
G100.0	1.2	2.2	1.2	1.1	1.2					
G101.0	1.3	2.3	1.2	1.1	1.3					
G102.0	1.3	2.4	1.2	1.1	1.3					
G103.0	1.3	2.5	1.2	1.2	1.3					
G104.0	1.3	2.6	1.2	1.3	1.3					
G105.0	1.3	2.7	1.3	1.3	1.3					
G106.0	1.3	2.7	1.3	1.5	1.3					
G107.0	1.3	2.8	1.3	1.6	1.3					
G108.0	1.4	2.8	1.3	1.7	1.4					
G109.0	1.4	2.9	1.3	1.8	1.4					
G110.0	1.4	2.9	1.4	1.9	1.4					

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:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	1.4	3.0	1.4	2.1	1.4					
G112.0	1.4	3.1	1.4	2.2	1.4					
G113.0	1.7	3.1	1.4	2.3	1.7					
G114.0	2.0	3.2	1.4	2.4	2.0					
G115.0	2.3	3.2	1.4	2.4	2.3					
G116.0	2.6	3.2	1.5	2.5	2.6					
G117.0	8.0	3.3	1.7	2.5	8.0					
G118.0	26.8	3.4	2.0	2.5	26.8					
G119.0	30.6	3.5	2.2	2.5	30.6					
G120.0	34.1	3.5	2.5	2.5	34.1					
G121.0	37.5	3.6	6.6	2.5	37.5					
G122.0	40.6	4.3	27.0	2.6	40.6					
G123.0	43.8	7.3	39.6	2.6	43.8					
G124.0	46.7	10.1	42.6	2.6	46.7					
G125.0	49.4	13.8	45.4	2.6	49.4					
G126.0	52.2	17.2	48.4	2.6	52.2					
G127.0	54.7	21.2	51.1	2.6	54.7					
G128.0	57.2	24.3	53.8	2.6	57.2					
G129.0	59.5	28.5	56.3	2.7	59.5					
G130.0	62.0	31.8	58.6	2.7	62.0					
G131.0	64.2	36.1	61.1	3.6	64.2					
G132.0	66.3	39.9	63.3	6.8	66.3					
G133.0	68.4	43.2	65.4	10.9	68.4					
G134.0	70.5	47.5	67.6	15.7	70.5					
G135.0	72.4	50.9	69.6	19.5	72.4					
G136.0	74.3	54.8	71.6	24.6	74.3					
G137.0	76.3	59.3	73.6	28.5	76.3					
G138.0	78.0	62.8	75.4	33.8	78.0					
G139.0	79.6	66.6	77.2	37.6	79.6					
G140.0	81.2	71.1	79.1	42.3	81.2					
G141.0	82.6	74.4	80.7	46.9	82.6					
G142.0	83.8	77.4	82.1	51.0	83.8					
G143.0	85.0	81.3	83.5	55.8	85.0					
G144.0	86.3	85.0	85.0	59.8	86.3					
G145.0	87.4	87.3	86.2	64.6	87.4					
G146.0	88.5	89.1	87.3	68.5	88.5					
G147.0	89.5	90.5	88.2	72.6	89.5					

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:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	90.6	91.7	89.2	77.4	90.6					
G149.0	91.6	92.6	90.2	80.8	91.6					
G150.0	92.6	93.4	91.2	84.4	92.6					
G151.0	93.5	94.2	92.2	89.1	93.5					
G152.0	94.3	95.0	93.1	91.5	94.3					
G153.0	95.1	95.8	94.0	93.2	95.1					
G154.0	95.9	96.5	94.8	94.3	95.9					
G155.0	96.6	97.1	95.5	95.1	96.6					
G156.0	97.2	97.7	96.2	95.9	97.2					
G157.0	97.9	98.3	96.9	96.6	97.9					
G158.0	98.5	98.9	97.5	97.3	98.5					
G159.0	99.0	99.4	98.0	97.9	99.0					
G160.0	99.5	99.9	98.6	98.5	99.5					
G161.0	100.0	100.3	99.2	99.1	100.0					
G162.0	100.4	100.7	99.7	99.7	100.4					
G163.0	100.7	101.1	100.1	100.1	100.7					
G164.0	101.0	101.6	100.6	100.6	101.0					
G165.0	101.4	102.1	101.0	101.0	101.4					
G166.0	101.8	102.5	101.4	101.4	101.8					
G167.0	102.2	103.0	101.9	101.8	102.2					
G168.0	102.6	103.4	102.4	102.2	102.6					
G169.0	103.0	103.8	102.8	102.7	103.0					
G170.0	103.3	104.1	103.2	103.1	103.3					
G171.0	103.6	104.4	103.6	103.4	103.6					
G172.0	103.8	104.6	103.9	103.8	103.8					
G173.0	104.0	104.7	104.1	104.0	104.0					
G174.0	104.2	104.8	104.3	104.2	104.2					
G175.0	104.3	104.9	104.4	104.3	104.3					
G176.0	104.4	105.0	104.5	104.5	104.4					
G177.0	104.5	105.0	104.6	104.5	104.5					
G178.0	104.6	104.9	104.7	104.6	104.6					
G179.0	104.7	104.8	104.7	104.6	104.7					
G180.0	104.7	104.7	104.7	104.7	104.7					

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