

Report No.: TH-2825A

Test Time: 2021/11/29 11:55

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.111 A
Power Factor: 0.988

Luminaire Description: 57613
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 120.0 V
Power: 13.10 W

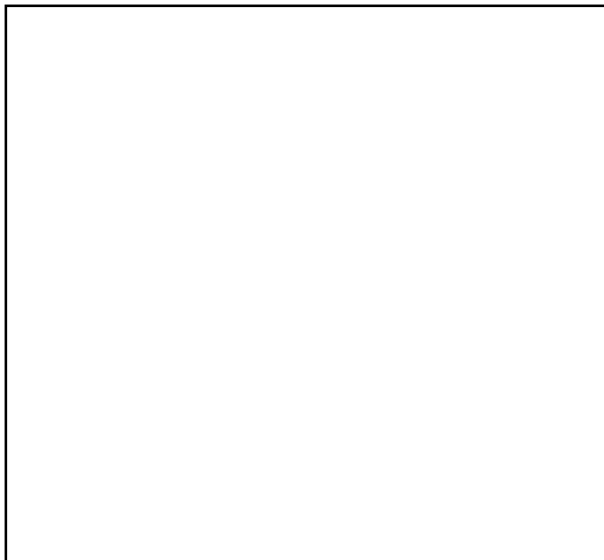
Photometric Results

CIE Class: Direct
Measurement Flux: 929.8 lm
Downward Ratio: 97%
Horizontal Diffuse Angle(50%): H108.2
Vertical Diffuse Angle(50%): V108.2
Luminaire Efficacy Rating (LER): 71.02
Max. Intensity: 320.3 cd
S/MH(C0/C180): 1.22

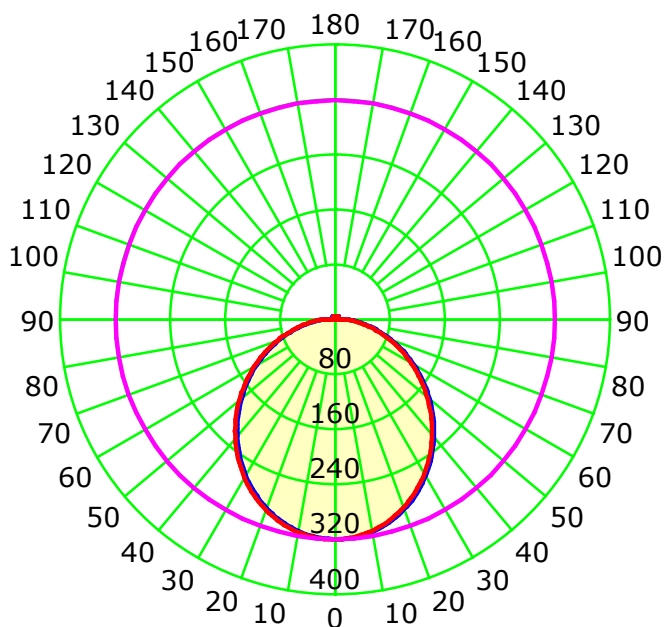
Total Rated Lamp Lumens: 929.8 lm
Efficiency: 100%
Upward Ratio: 3%

C0r0 Intensity: 320.12 cd
Pos of Max. Intensity: H315 V1
S/MH(C90/C270): 1.22

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

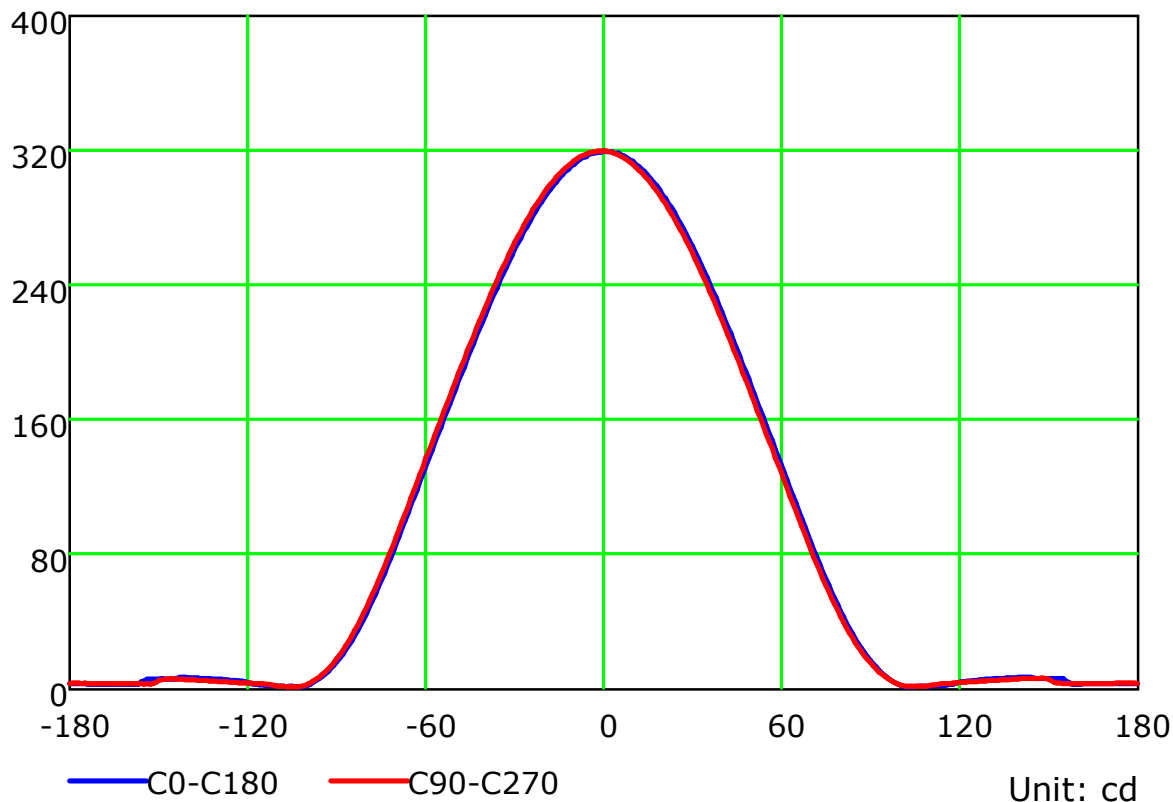
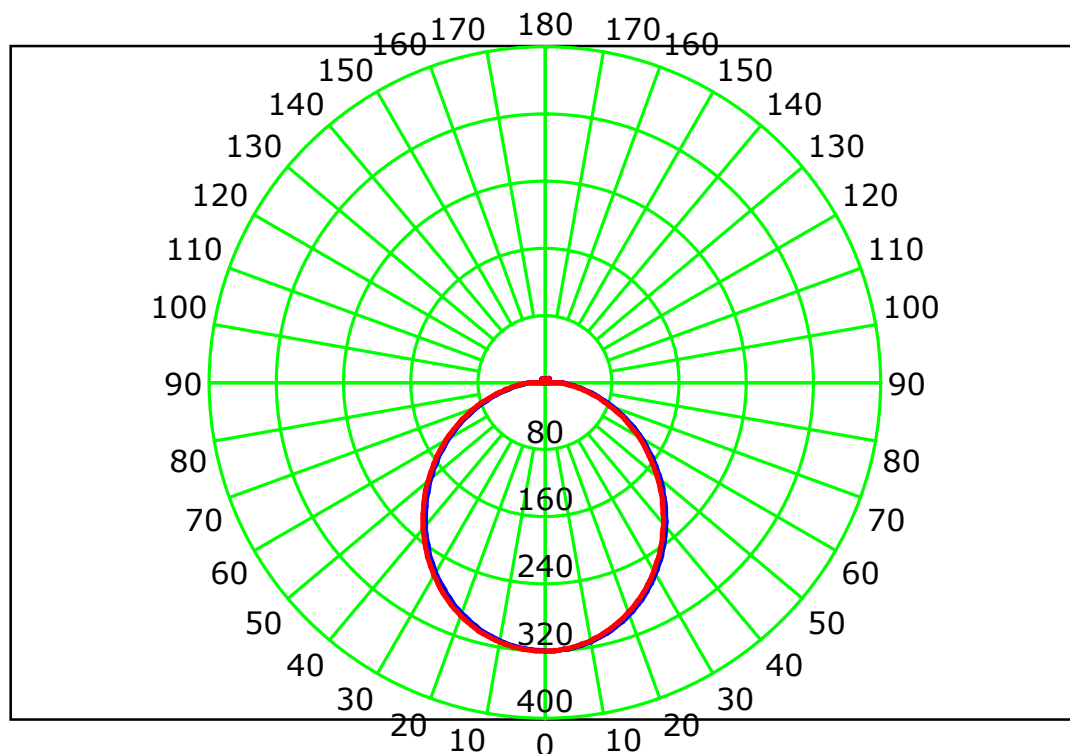
Average Diffuse Angle(50%): 108.2°

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Luminous Intensity Distribution Curve



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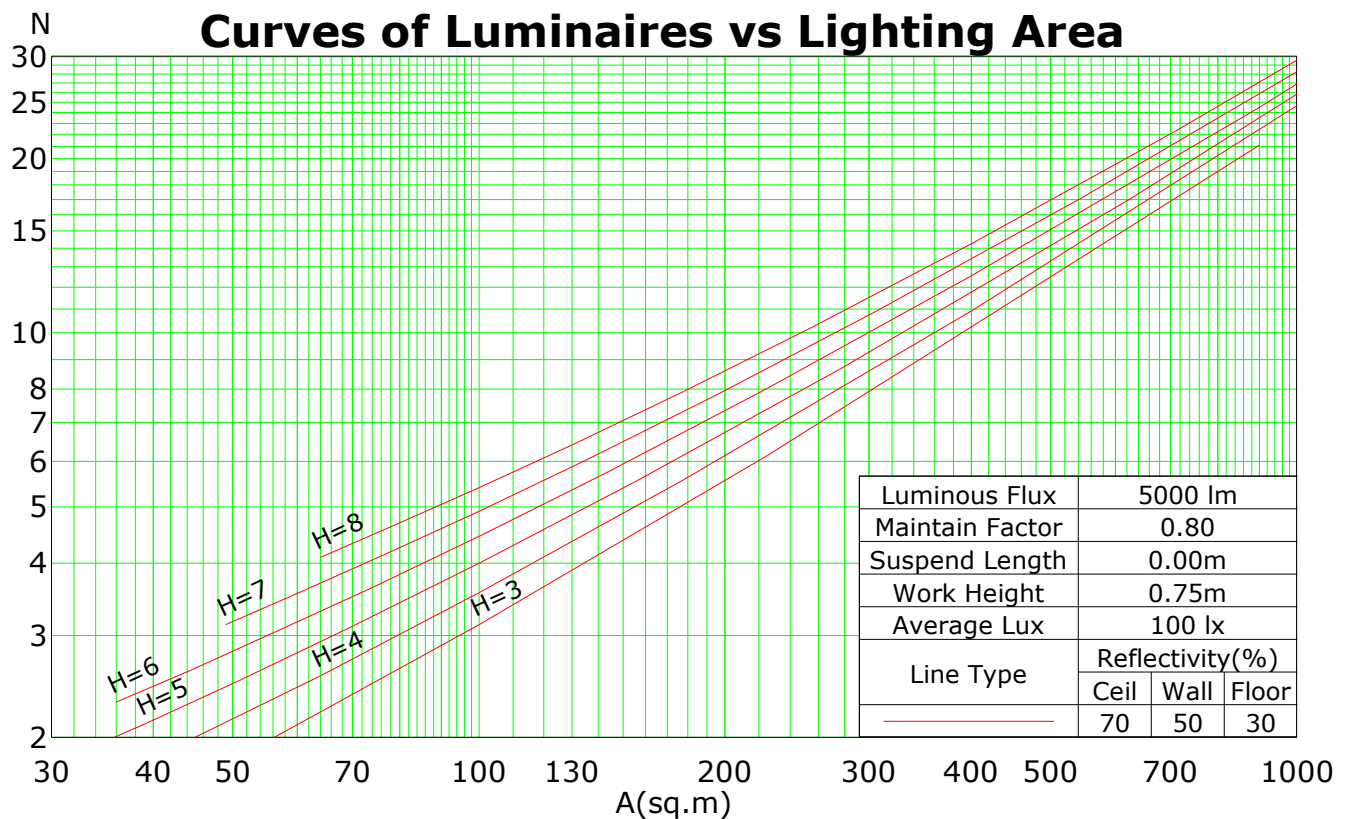
Coefficients Of Utilization - Zonal Cavity Method

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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	0.99	0.99	0.99	0.97
1	1.07	1.02	0.98	0.94	1.04	1.00	0.96	0.92	0.95	0.91	0.88	0.90	0.88	0.85	0.86	0.84	0.82	0.80
2	0.97	0.89	0.82	0.76	0.94	0.87	0.80	0.75	0.83	0.77	0.73	0.79	0.74	0.70	0.75	0.72	0.68	0.66
3	0.89	0.78	0.70	0.63	0.86	0.76	0.68	0.62	0.73	0.66	0.61	0.70	0.64	0.59	0.67	0.62	0.58	0.56
4	0.81	0.69	0.60	0.53	0.79	0.68	0.59	0.53	0.65	0.57	0.52	0.62	0.56	0.51	0.59	0.54	0.50	0.47
5	0.75	0.62	0.53	0.46	0.72	0.60	0.52	0.45	0.58	0.50	0.45	0.56	0.49	0.44	0.53	0.48	0.43	0.41
6	0.69	0.56	0.47	0.40	0.67	0.54	0.46	0.40	0.52	0.45	0.39	0.50	0.44	0.39	0.49	0.43	0.38	0.36
7	0.64	0.50	0.42	0.35	0.62	0.49	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.34	0.44	0.38	0.34	0.32
8	0.60	0.46	0.37	0.32	0.58	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.30	0.28
9	0.56	0.42	0.34	0.28	0.54	0.42	0.34	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.27	0.25
10	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

Spacing Criteria (0-180): 1.22

Spacing Criteria (90-270): 1.22

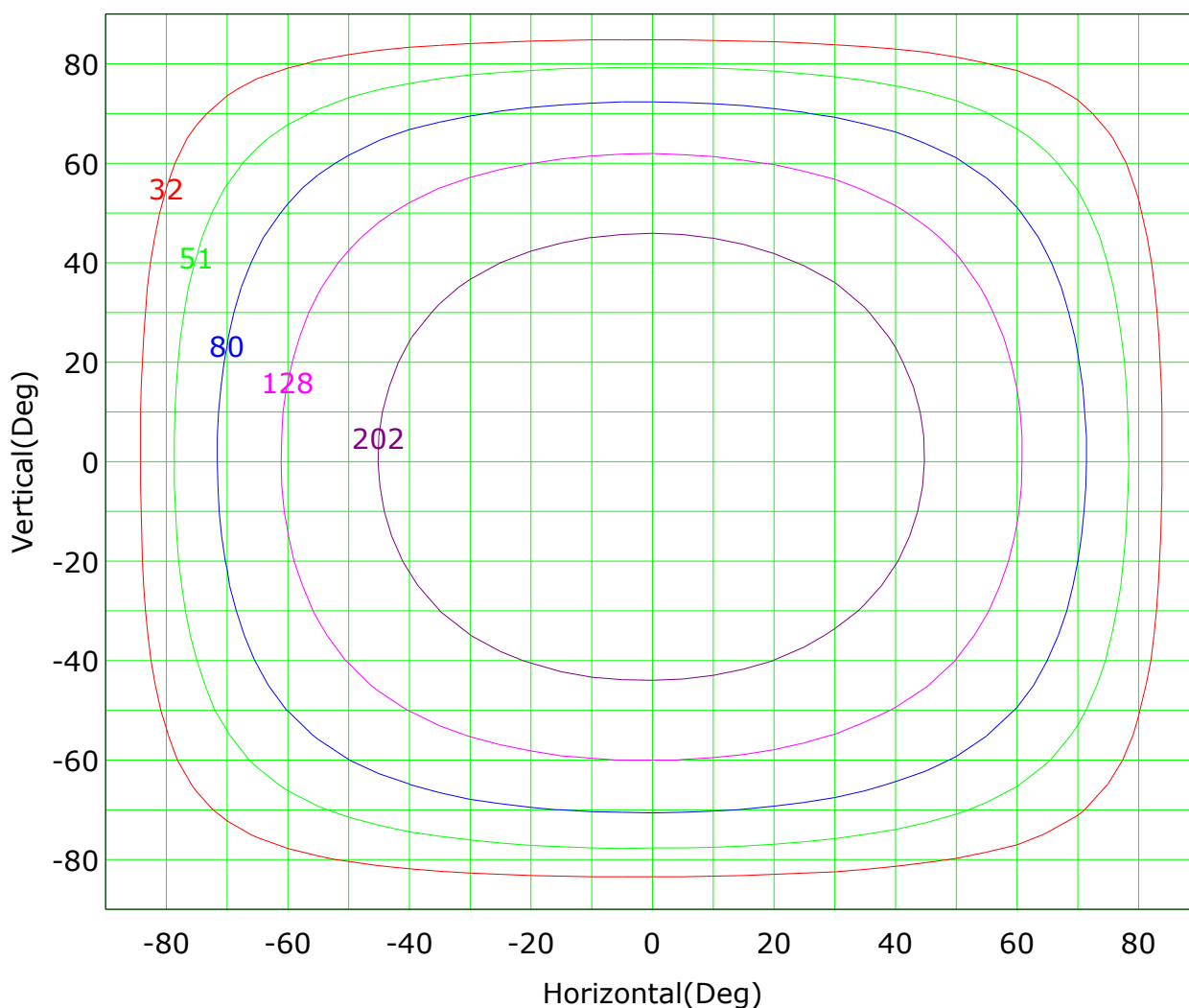
Spacing Criteria (Diagonal): 1.34



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Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Isocandela (rectangle)



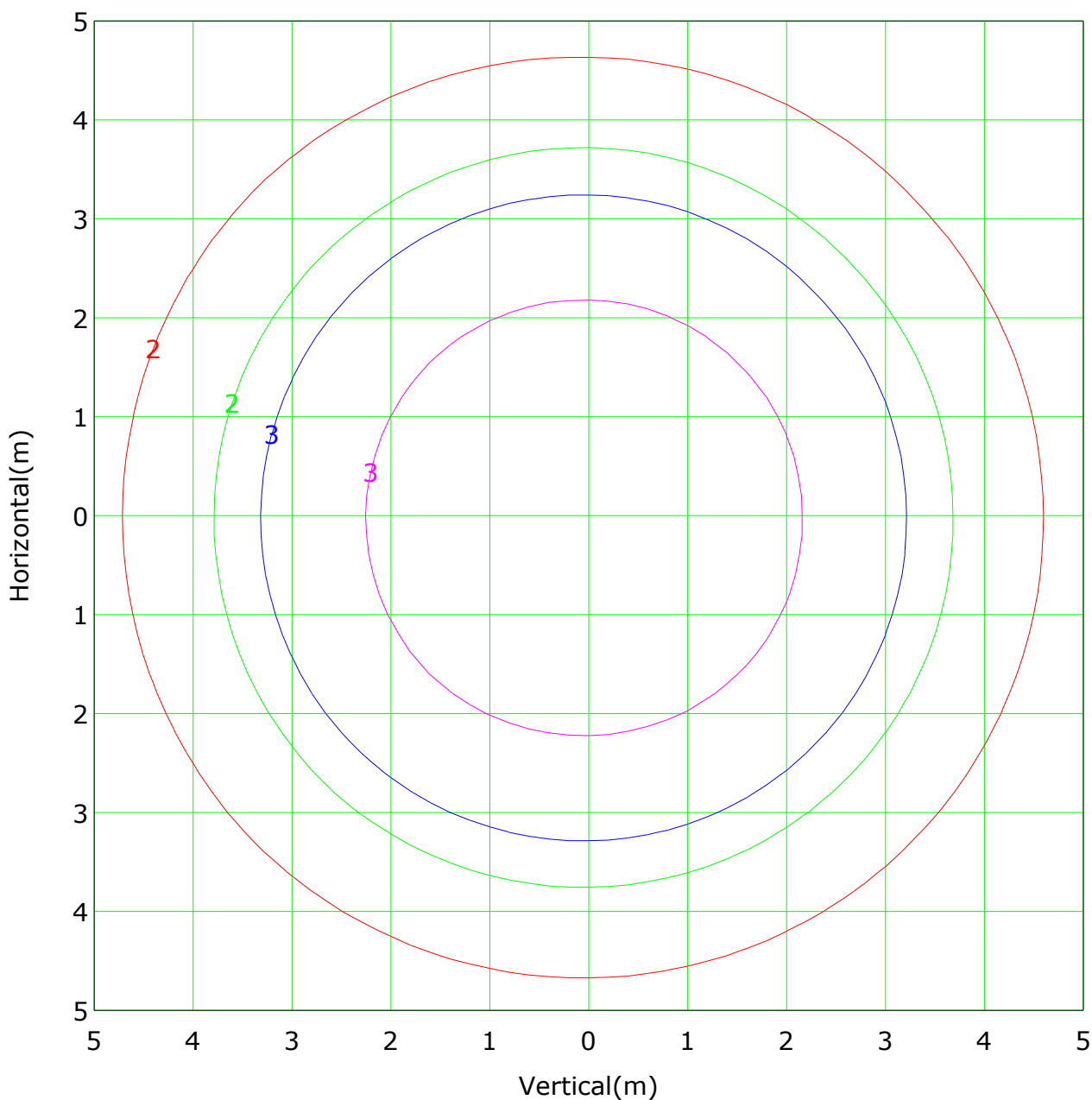
Imax (100%): 320 cd

(10%):	32 cd	(16%):	51 cd
(25%):	80 cd	(40%):	128 cd
(63%):	202 cd	(100%):	320 cd

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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: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 3.2 lx

(65%): 2.1 lx	(75%): 2.4 lx
(80%): 2.6 lx	(90%): 2.9 lx
(100%): 3.2 lx	

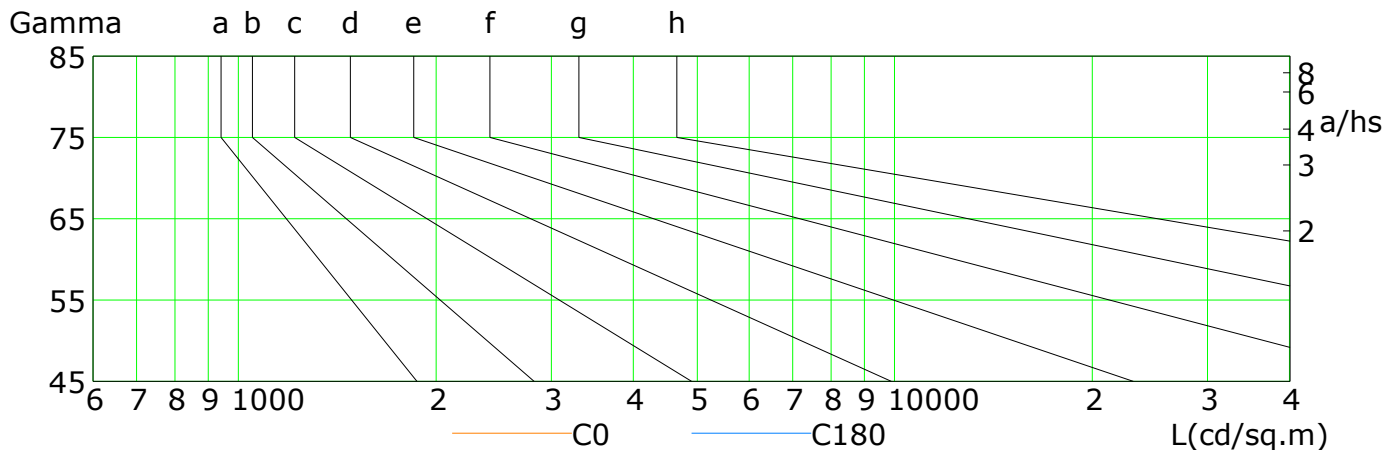
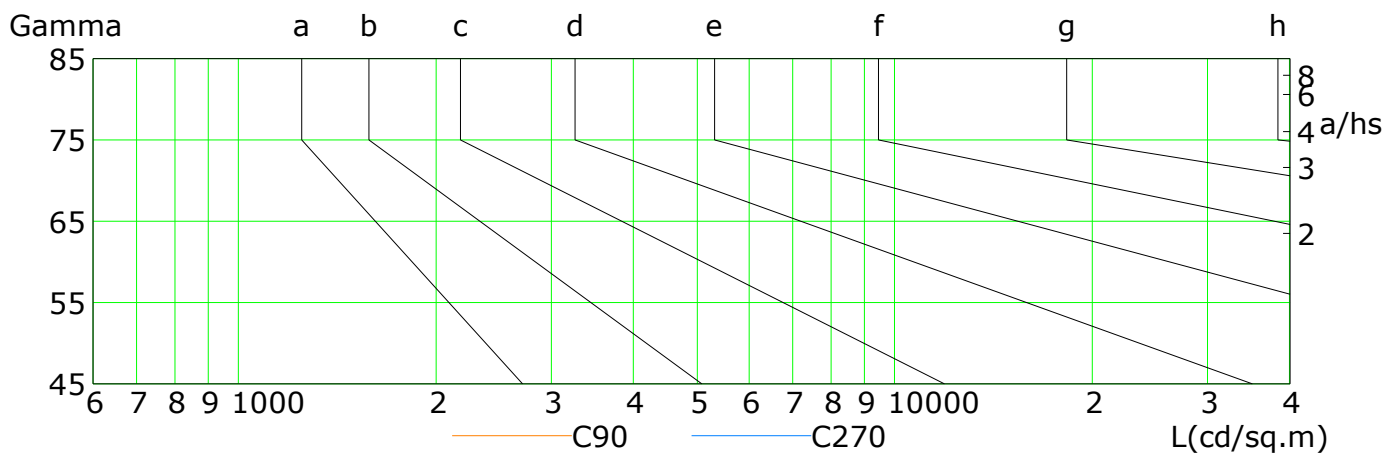
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Test Type: TYPE C
Temperature: 26
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Test Device: GPM-1800B
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Humidity: 65
Inspector:

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

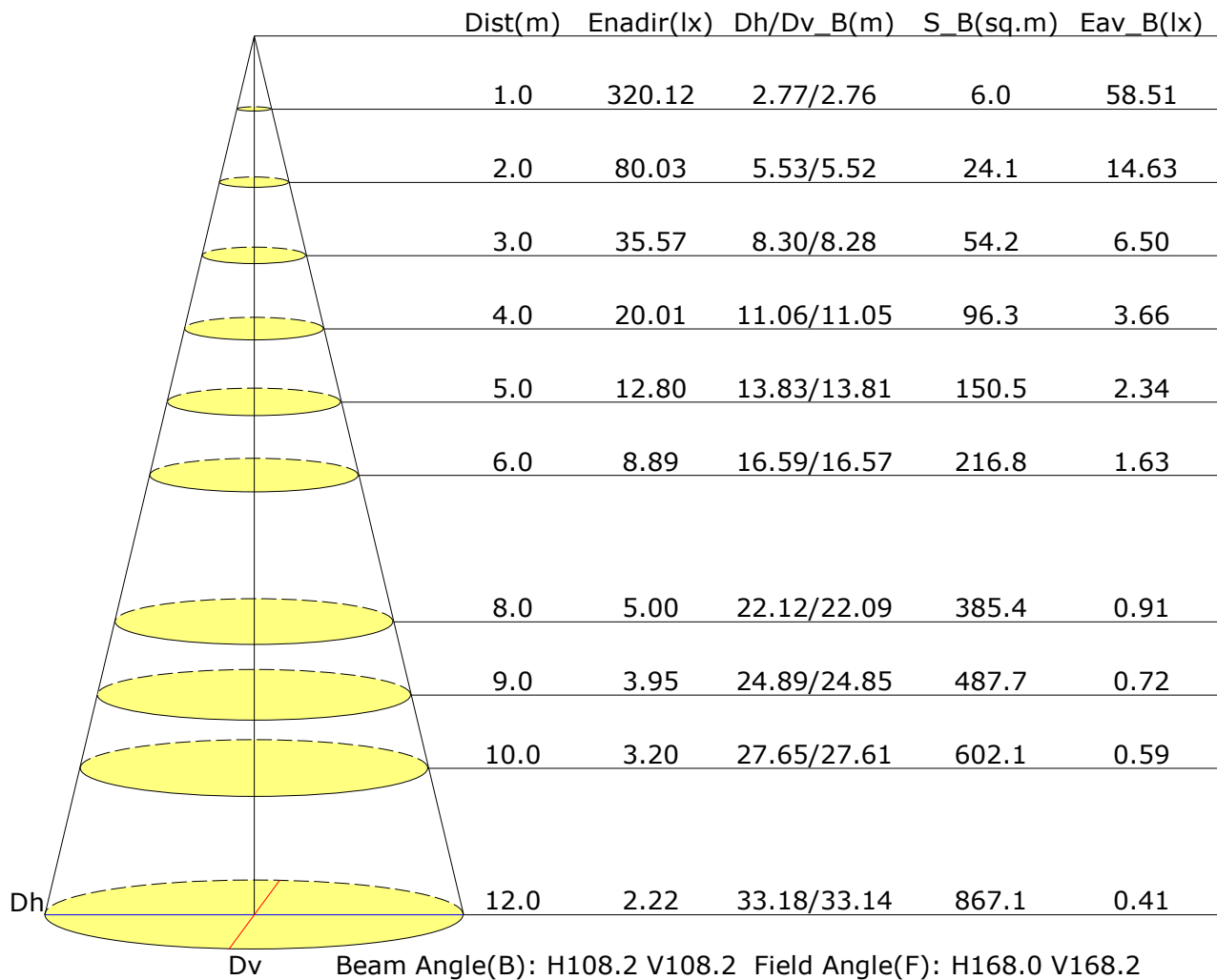


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	202	179	156	133	110	87	66	46	29
C90	198	175	152	129	106	83	61	43	27
C180	201	178	156	132	110	87	65	45	29
C270	205	183	160	137	113	90	68	48	31

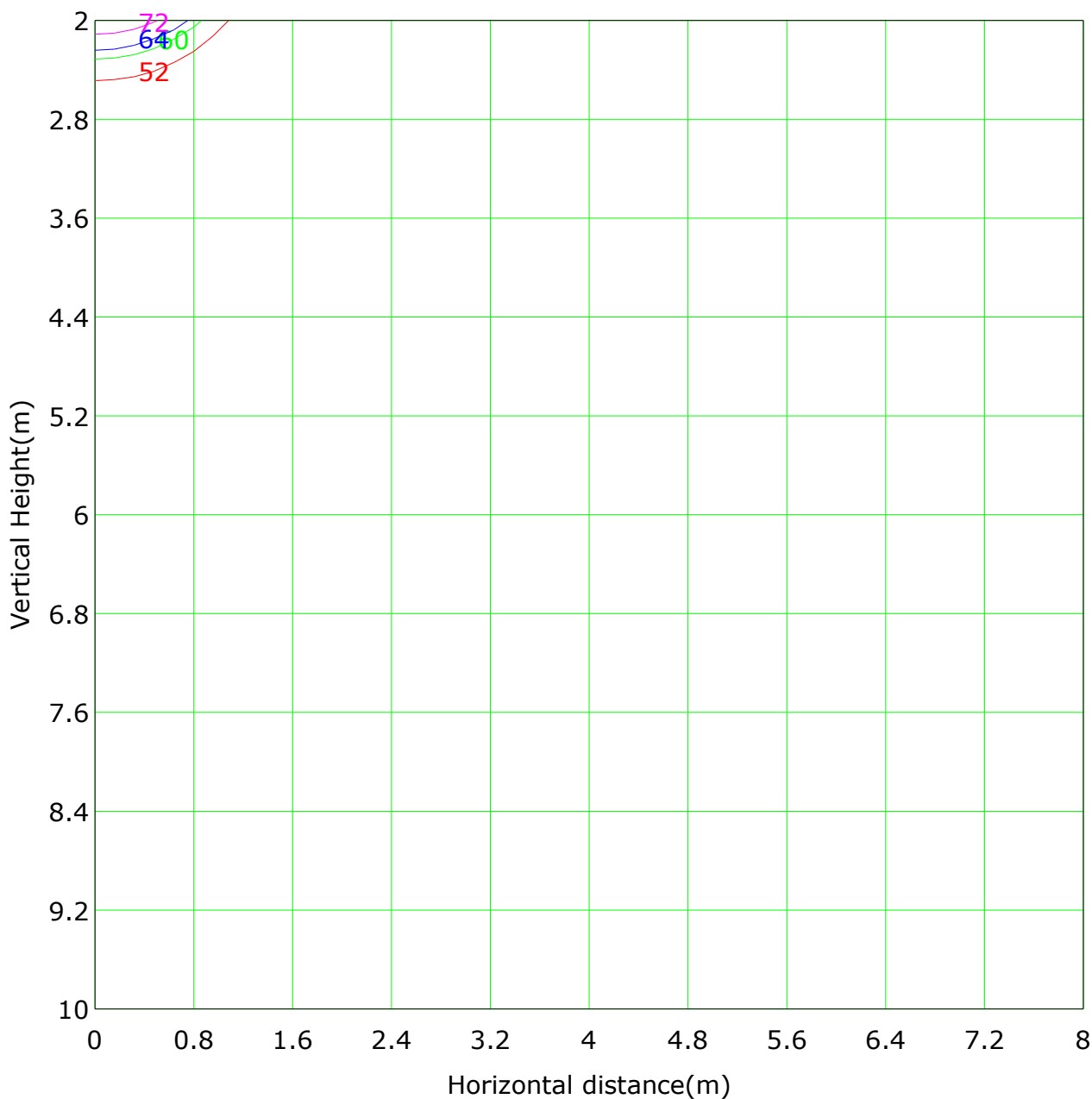
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Test Type: TYPE C
Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Illuminance at a Distance

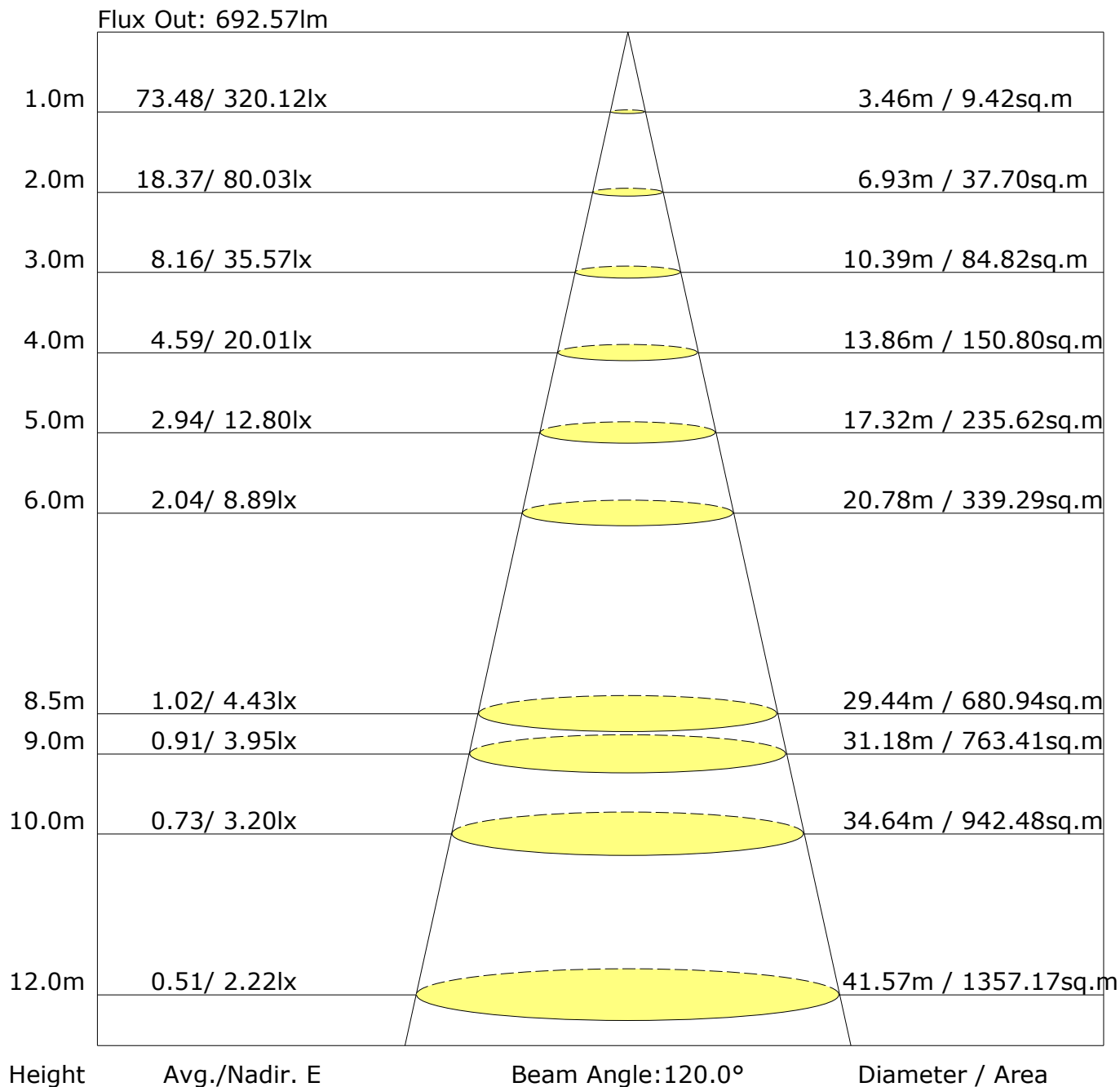


Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 10.0m Max Lux: 80.0 lx
— (65%): 52.0 lx — (75%): 60.0 lx
— (80%): 64.0 lx — (90%): 72.0 lx
— (100%): 80.0 lx

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 930lm ($8\log(F/F_0) = -0.3$).

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Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.508 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	320.0	0.3	0.3	0.03	0.03
1.0-2.0	319.8	0.9	1.2	0.10	0.13
2.0-3.0	319.6	1.5	2.8	0.16	0.30
3.0-4.0	319.2	2.1	4.9	0.23	0.53
4.0-5.0	318.7	2.7	7.6	0.29	0.82
5.0-6.0	318.0	3.3	11.0	0.36	1.18
6.0-7.0	317.2	3.9	14.9	0.42	1.60
7.0-8.0	316.2	4.5	19.4	0.49	2.09
8.0-9.0	315.1	5.1	24.5	0.55	2.64
9.0-10.0	313.9	5.7	30.2	0.61	3.25
10.0-11.0	312.5	6.2	36.5	0.67	3.92
11.0-12.0	311.0	6.8	43.3	0.73	4.65
12.0-13.0	309.4	7.3	50.6	0.79	5.44
13.0-14.0	307.8	7.9	58.5	0.85	6.29
14.0-15.0	306.0	8.4	66.9	0.90	7.19
15.0-16.0	303.9	8.9	75.8	0.96	8.15
16.0-17.0	301.7	9.4	85.2	1.01	9.16
17.0-18.0	299.6	9.9	95.1	1.06	10.23
18.0-19.0	297.2	10.3	105.4	1.11	11.34
19.0-20.0	294.7	10.8	116.2	1.16	12.50
20.0-21.0	292.2	11.2	127.4	1.21	13.71
21.0-22.0	289.5	11.6	139.1	1.25	14.96
22.0-23.0	286.7	12.0	151.1	1.29	16.25
23.0-24.0	283.9	12.4	163.5	1.34	17.59
24.0-25.0	281.0	12.8	176.3	1.37	18.96
25.0-26.0	277.8	13.1	189.4	1.41	20.37
26.0-27.0	274.6	13.4	202.8	1.45	21.82
27.0-28.0	271.3	13.7	216.6	1.48	23.29
28.0-29.0	267.9	14.0	230.6	1.51	24.80
29.0-30.0	264.4	14.3	244.9	1.54	26.34
30.0-31.0	260.9	14.5	259.4	1.56	27.90
31.0-32.0	257.2	14.7	274.1	1.58	29.48
32.0-33.0	253.5	14.9	289.1	1.61	31.09
33.0-34.0	249.7	15.1	304.2	1.63	32.72
34.0-35.0	245.8	15.3	319.4	1.64	34.36
35.0-36.0	241.8	15.4	334.8	1.66	36.01

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Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	237.8	15.5	350.4	1.67	37.68
37.0-38.0	233.8	15.6	366.0	1.68	39.36
38.0-39.0	229.7	15.7	381.7	1.69	41.05
39.0-40.0	225.6	15.7	397.4	1.69	42.74
40.0-41.0	221.4	15.8	413.1	1.70	44.44
41.0-42.0	217.1	15.8	428.9	1.70	46.13
42.0-43.0	212.7	15.8	444.7	1.70	47.83
43.0-44.0	208.3	15.7	460.4	1.69	49.52
44.0-45.0	203.9	15.7	476.1	1.69	51.20
45.0-46.0	199.6	15.6	491.7	1.68	52.88
46.0-47.0	194.9	15.5	507.2	1.67	54.55
47.0-48.0	190.4	15.4	522.6	1.66	56.21
48.0-49.0	186.0	15.3	537.9	1.64	57.85
49.0-50.0	181.5	15.1	553.0	1.63	59.48
50.0-51.0	176.8	15.0	568.0	1.61	61.09
51.0-52.0	172.2	14.8	582.7	1.59	62.68
52.0-53.0	167.7	14.6	597.3	1.57	64.24
53.0-54.0	163.0	14.4	611.7	1.55	65.79
54.0-55.0	158.3	14.1	625.8	1.52	67.31
55.0-56.0	153.8	13.9	639.7	1.49	68.81
56.0-57.0	149.1	13.6	653.4	1.47	70.27
57.0-58.0	144.4	13.4	666.7	1.44	71.71
58.0-59.0	139.8	13.1	679.8	1.41	73.11
59.0-60.0	135.2	12.8	692.6	1.37	74.49
60.0-61.0	130.6	12.5	705.0	1.34	75.83
61.0-62.0	125.9	12.1	717.2	1.30	77.13
62.0-63.0	121.2	11.8	728.9	1.27	78.40
63.0-64.0	116.6	11.4	740.4	1.23	79.63
64.0-65.0	112.0	11.1	751.5	1.19	80.82
65.0-66.0	107.4	10.7	762.2	1.15	81.98
66.0-67.0	102.7	10.3	772.5	1.11	83.09
67.0-68.0	98.1	9.9	782.5	1.07	84.16
68.0-69.0	93.6	9.6	792.0	1.03	85.19
69.0-70.0	89.0	9.1	801.2	0.98	86.17
70.0-71.0	84.4	8.7	809.9	0.94	87.11
71.0-72.0	80.1	8.3	818.2	0.90	88.00

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Test Device: GPM-1800B
Distance: 8.508 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	75.7	7.9	826.1	0.85	88.85
73.0-74.0	71.4	7.5	833.6	0.81	89.66
74.0-75.0	67.2	7.1	840.7	0.76	90.43
75.0-76.0	63.1	6.7	847.4	0.72	91.15
76.0-77.0	59.0	6.3	853.7	0.68	91.82
77.0-78.0	55.1	5.9	859.6	0.63	92.46
78.0-79.0	51.3	5.5	865.1	0.59	93.05
79.0-80.0	47.6	5.1	870.3	0.55	93.60
80.0-81.0	43.9	4.7	875.0	0.51	94.11
81.0-82.0	40.4	4.4	879.4	0.47	94.58
82.0-83.0	37.1	4.0	883.4	0.43	95.02
83.0-84.0	33.8	3.7	887.1	0.40	95.41
84.0-85.0	30.8	3.4	890.5	0.36	95.78
85.0-86.0	27.8	3.0	893.5	0.33	96.10
86.0-87.0	25.0	2.7	896.3	0.29	96.40
87.0-88.0	22.4	2.5	898.7	0.26	96.66
88.0-89.0	19.9	2.2	900.9	0.23	96.90
89.0-90.0	17.5	1.9	902.8	0.21	97.10
90.0-91.0	15.4	1.7	904.5	0.18	97.29
91.0-92.0	13.3	1.5	906.0	0.16	97.44
92.0-93.0	11.4	1.3	907.2	0.13	97.58
93.0-94.0	9.7	1.1	908.3	0.11	97.69
94.0-95.0	8.2	0.9	909.2	0.10	97.79
95.0-96.0	6.8	0.7	909.9	0.08	97.87
96.0-97.0	5.5	0.6	910.5	0.06	97.93
97.0-98.0	4.3	0.5	911.0	0.05	97.98
98.0-99.0	3.2	0.3	911.3	0.04	98.02
99.0-100.0	2.1	0.2	911.6	0.02	98.04
100.0-101.0	1.5	0.2	911.7	0.02	98.06
101.0-102.0	1.1	0.1	911.9	0.01	98.07
102.0-103.0	1.0	0.1	912.0	0.01	98.09
103.0-104.0	1.0	0.1	912.1	0.01	98.10
104.0-105.0	1.1	0.1	912.2	0.01	98.11
105.0-106.0	1.2	0.1	912.3	0.01	98.12
106.0-107.0	1.2	0.1	912.4	0.01	98.14
107.0-108.0	1.3	0.1	912.6	0.02	98.15

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 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	1.5	0.2	912.7	0.02	98.17
109.0-110.0	1.6	0.2	912.9	0.02	98.18
110.0-111.0	1.7	0.2	913.1	0.02	98.20
111.0-112.0	1.8	0.2	913.2	0.02	98.22
112.0-113.0	2.0	0.2	913.4	0.02	98.25
113.0-114.0	2.1	0.2	913.7	0.02	98.27
114.0-115.0	2.3	0.2	913.9	0.02	98.29
115.0-116.0	2.4	0.2	914.1	0.03	98.32
116.0-117.0	2.6	0.3	914.4	0.03	98.35
117.0-118.0	2.9	0.3	914.7	0.03	98.38
118.0-119.0	3.1	0.3	915.0	0.03	98.41
119.0-120.0	3.4	0.3	915.3	0.03	98.44
120.0-121.0	3.6	0.3	915.6	0.04	98.48
121.0-122.0	3.8	0.4	916.0	0.04	98.52
122.0-123.0	3.9	0.4	916.3	0.04	98.56
123.0-124.0	4.0	0.4	916.7	0.04	98.60
124.0-125.0	4.2	0.4	917.1	0.04	98.64
125.0-126.0	4.3	0.4	917.5	0.04	98.68
126.0-127.0	4.5	0.4	917.9	0.04	98.72
127.0-128.0	4.6	0.4	918.3	0.04	98.76
128.0-129.0	4.8	0.4	918.7	0.04	98.81
129.0-130.0	4.9	0.4	919.1	0.04	98.85
130.0-131.0	5.0	0.4	919.5	0.04	98.90
131.0-132.0	5.1	0.4	919.9	0.04	98.94
132.0-133.0	5.2	0.4	920.3	0.04	98.99
133.0-134.0	5.3	0.4	920.8	0.05	99.03
134.0-135.0	5.4	0.4	921.2	0.05	99.08
135.0-136.0	5.5	0.4	921.6	0.05	99.12
136.0-137.0	5.5	0.4	922.0	0.04	99.17
137.0-138.0	5.6	0.4	922.4	0.04	99.21
138.0-139.0	5.7	0.4	922.8	0.04	99.26
139.0-140.0	5.8	0.4	923.3	0.04	99.30
140.0-141.0	5.9	0.4	923.7	0.04	99.34
141.0-142.0	6.0	0.4	924.1	0.04	99.39
142.0-143.0	6.1	0.4	924.5	0.04	99.43
143.0-144.0	6.0	0.4	924.9	0.04	99.47

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 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	5.9	0.4	925.3	0.04	99.52
145.0-146.0	5.8	0.4	925.6	0.04	99.55
146.0-147.0	5.7	0.3	926.0	0.04	99.59
147.0-148.0	5.6	0.3	926.3	0.04	99.63
148.0-149.0	5.5	0.3	926.6	0.03	99.66
149.0-150.0	5.4	0.3	926.9	0.03	99.69
150.0-151.0	5.2	0.3	927.2	0.03	99.72
151.0-152.0	4.9	0.3	927.4	0.03	99.75
152.0-153.0	4.7	0.2	927.7	0.03	99.78
153.0-154.0	4.4	0.2	927.9	0.02	99.80
154.0-155.0	4.0	0.2	928.1	0.02	99.82
155.0-156.0	3.5	0.2	928.2	0.02	99.84
156.0-157.0	3.0	0.1	928.4	0.01	99.85
157.0-158.0	2.7	0.1	928.5	0.01	99.86
158.0-159.0	2.6	0.1	928.6	0.01	99.87
159.0-160.0	2.7	0.1	928.7	0.01	99.89
160.0-161.0	2.7	0.1	928.8	0.01	99.90
161.0-162.0	2.7	0.1	928.9	0.01	99.91
162.0-163.0	2.7	0.1	929.0	0.01	99.92
163.0-164.0	2.8	0.1	929.1	0.01	99.92
164.0-165.0	2.8	0.1	929.1	0.01	99.93
165.0-166.0	2.8	0.1	929.2	0.01	99.94
166.0-167.0	2.8	0.1	929.3	0.01	99.95
167.0-168.0	2.8	0.1	929.4	0.01	99.96
168.0-169.0	2.9	0.1	929.4	0.01	99.96
169.0-170.0	2.9	0.1	929.5	0.01	99.97
170.0-171.0	2.9	0.1	929.5	0.01	99.98
171.0-172.0	2.9	0.0	929.6	0.01	99.98
172.0-173.0	2.9	0.0	929.6	0.00	99.99
173.0-174.0	2.9	0.0	929.7	0.00	99.99
174.0-175.0	2.9	0.0	929.7	0.00	99.99
175.0-176.0	3.0	0.0	929.7	0.00	100.00
176.0-177.0	3.0	0.0	929.7	0.00	100.00
177.0-178.0	3.0	0.0	929.8	0.00	100.00
178.0-179.0	3.0	0.0	929.8	0.00	100.00
179.0-180.0	3.0	0.0	929.8	0.00	100.00

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 476.08 lm

%lum = 51.2%

%lamp = 51.2%

cone flux(120°): 692.57 lm

%lum = 74.5%

%lamp = 74.5%

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	
G1.0	319.8	320.0	319.9	320.0	319.5	320.0	320.0	320.3	319.8	
G2.0	319.8	319.8	319.6	319.7	319.3	319.9	319.9	320.2	319.8	
G3.0	319.6	319.4	319.3	319.2	319.1	319.5	319.8	320.0	319.6	
G4.0	318.7	318.9	318.6	318.6	318.6	319.1	319.4	319.6	318.7	
G5.0	318.9	318.3	317.8	317.7	318.1	318.5	318.9	319.2	318.9	
G6.0	318.0	317.6	317.0	317.0	316.7	317.8	318.2	318.5	318.0	
G7.0	317.0	316.6	315.8	315.9	316.3	317.0	317.5	317.6	317.0	
G8.0	315.9	315.6	314.9	314.8	315.0	316.0	316.5	316.7	315.9	
G9.0	314.6	314.4	313.5	313.4	313.9	314.9	315.4	315.8	314.6	
G10.0	313.9	313.1	312.1	312.2	312.1	313.7	314.2	314.5	313.9	
G11.0	312.2	311.6	310.6	310.4	311.3	312.3	313.0	313.3	312.2	
G12.0	310.8	310.2	308.9	308.8	309.2	310.7	311.5	311.9	310.8	
G13.0	309.0	308.3	307.3	306.9	307.8	309.1	309.8	310.5	309.0	
G14.0	307.7	306.6	305.3	305.2	306.1	307.5	308.3	308.9	307.7	
G15.0	305.7	304.6	303.3	302.9	304.1	305.6	306.5	307.0	305.7	
G16.0	303.4	302.4	301.0	300.8	301.6	303.5	304.5	305.0	303.4	
G17.0	301.4	300.3	298.9	298.6	299.9	301.4	302.2	303.0	301.4	
G18.0	299.4	298.0	296.4	296.3	297.3	299.0	300.3	300.7	299.4	
G19.0	297.0	295.6	293.8	293.6	295.0	296.7	298.0	298.4	297.0	
G20.0	293.9	293.0	291.3	290.9	292.8	294.3	295.6	296.0	293.9	
G21.0	291.9	290.4	288.7	288.0	289.7	291.7	292.8	293.7	291.9	
G22.0	288.8	287.4	285.7	285.3	287.5	288.9	290.4	290.8	288.8	
G23.0	286.4	284.7	282.7	282.1	284.3	286.1	287.6	288.1	286.4	
G24.0	283.4	281.9	279.9	279.3	281.2	284.5	284.9	285.3	283.4	
G25.0	280.0	278.6	276.5	276.1	278.1	282.0	281.6	282.5	280.0	
G26.0	277.2	275.4	273.4	272.7	274.6	278.7	278.8	279.3	277.2	
G27.0	273.4	272.2	270.0	269.4	271.9	274.9	275.6	276.1	273.4	
G28.0	270.6	268.9	266.7	266.0	268.3	272.1	272.1	272.9	270.6	
G29.0	266.9	265.5	263.2	262.4	265.1	268.1	268.9	269.4	266.9	
G30.0	263.2	261.7	259.4	258.6	261.9	265.3	265.6	266.2	263.2	
G31.0	259.9	258.2	255.8	255.1	258.0	260.8	262.0	262.6	259.9	
G32.0	255.9	254.4	251.8	251.2	254.1	257.7	258.2	259.1	255.9	
G33.0	252.7	250.7	248.3	247.6	250.7	253.4	254.6	255.1	252.7	
G34.0	248.6	246.6	244.4	243.4	246.9	249.9	251.0	251.5	248.6	
G35.0	244.6	242.7	240.3	239.5	242.9	245.8	247.2	247.6	244.6	
G36.0	240.8	238.5	236.3	235.6	238.5	242.3	243.0	244.0	240.8	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	236.3	234.5	232.4	231.2	235.0	237.9	239.2	240.0	236.3	
G38.0	232.8	230.6	227.9	227.3	230.7	233.8	235.2	235.7	232.8	
G39.0	228.4	226.7	223.8	223.1	226.9	229.8	230.9	231.7	228.4	
G40.0	224.2	222.7	219.6	218.6	222.2	226.0	226.8	227.8	224.2	
G41.0	219.8	218.0	215.5	214.4	218.5	221.5	222.7	223.6	219.8	
G42.0	215.1	214.0	210.8	210.3	214.0	217.1	218.6	219.1	215.1	
G43.0	211.3	209.4	206.6	205.6	210.0	212.9	214.0	214.8	211.3	
G44.0	206.8	204.8	201.9	201.2	205.1	208.0	209.6	210.7	206.8	
G45.0	202.3	200.5	197.5	197.0	201.1	204.1	205.5	206.4	202.3	
G46.0	197.8	196.3	193.2	192.1	196.5	199.4	201.1	202.1	197.8	
G47.0	192.9	191.4	188.4	187.8	191.8	194.8	196.3	197.3	192.9	
G48.0	188.9	186.7	183.9	183.4	187.6	190.3	191.9	192.9	188.9	
G49.0	184.2	182.4	179.4	179.0	183.1	186.1	187.5	188.5	184.2	
G50.0	179.5	177.9	175.0	174.5	178.4	181.4	182.8	183.7	179.5	
G51.0	174.7	173.1	170.1	169.7	173.7	176.6	178.3	179.3	174.7	
G52.0	170.3	168.3	165.5	165.1	169.5	172.3	173.9	174.8	170.3	
G53.0	165.6	164.1	161.0	160.7	164.9	167.8	168.9	170.0	165.6	
G54.0	161.0	158.9	156.0	155.8	160.2	163.1	164.5	165.4	161.0	
G55.0	156.5	154.5	151.6	151.4	155.5	158.2	160.0	161.0	156.5	
G56.0	151.5	149.8	147.0	146.9	151.3	154.0	155.5	156.0	151.5	
G57.0	147.2	144.8	142.6	141.9	146.3	148.9	150.5	151.5	147.2	
G58.0	142.5	140.4	137.6	137.5	141.7	144.5	146.0	146.9	142.5	
G59.0	138.0	135.7	133.1	133.0	137.2	139.7	141.4	142.0	138.0	
G60.0	133.0	131.2	128.6	128.6	132.2	135.4	136.9	137.5	133.0	
G61.0	128.7	126.1	124.1	123.6	127.9	130.4	131.9	132.9	128.7	
G62.0	123.9	121.8	119.1	119.2	123.2	125.8	127.4	127.9	123.9	
G63.0	119.0	117.0	114.6	114.7	118.4	121.0	122.9	123.4	119.0	
G64.0	114.4	112.6	110.0	110.2	113.9	116.3	117.9	118.5	114.4	
G65.0	110.1	108.1	105.6	105.8	109.6	112.1	113.4	113.9	110.1	
G66.0	105.3	103.1	101.1	100.9	104.8	107.1	108.6	109.4	105.3	
G67.0	101.0	98.4	96.3	96.4	100.2	102.5	104.0	104.5	101.0	
G68.0	96.0	94.1	91.9	92.1	95.4	98.0	99.5	99.9	96.0	
G69.0	91.6	89.6	87.5	87.7	90.8	93.1	95.0	95.5	91.6	
G70.0	86.8	84.8	82.7	82.9	86.5	88.8	90.1	90.4	86.8	
G71.0	82.5	80.4	78.4	78.6	81.7	84.3	85.7	86.0	82.5	
G72.0	78.2	76.2	74.3	74.4	77.3	80.0	81.3	81.6	78.2	
G73.0	73.7	71.9	70.0	70.2	73.2	75.3	76.7	77.4	73.7	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	69.6	67.8	65.9	65.7	68.6	71.3	72.5	72.7	69.6	
G75.0	65.5	63.7	61.4	61.7	64.7	66.8	68.4	68.6	65.5	
G76.0	61.4	59.4	57.6	57.8	60.6	62.7	63.9	64.5	61.4	
G77.0	57.6	55.5	53.8	54.0	56.4	58.8	60.0	60.5	57.6	
G78.0	53.6	51.8	50.1	50.3	52.5	54.6	56.2	56.3	53.6	
G79.0	49.7	48.2	46.6	46.8	48.7	51.0	52.0	52.4	49.7	
G80.0	46.0	44.7	43.1	42.9	44.8	47.2	48.2	48.7	46.0	
G81.0	42.6	41.0	39.4	39.6	41.1	43.4	44.7	44.7	42.6	
G82.0	39.2	37.7	36.3	36.5	38.2	39.9	41.2	41.2	39.2	
G83.0	35.5	34.5	33.2	33.3	34.6	36.8	37.6	37.9	35.5	
G84.0	32.5	31.5	30.2	30.0	31.6	33.5	34.4	34.5	32.5	
G85.0	29.4	28.6	27.4	27.3	28.6	30.6	31.3	31.2	29.4	
G86.0	26.6	25.8	24.5	24.6	25.8	27.4	28.1	28.2	26.6	
G87.0	24.0	23.3	21.9	22.1	22.9	24.7	25.4	25.4	24.0	
G88.0	21.4	20.5	19.6	19.7	20.5	22.0	22.7	22.5	21.4	
G89.0	18.8	18.2	17.4	17.3	18.1	19.3	20.0	20.0	18.8	
G90.0	16.6	16.0	15.3	15.2	16.0	17.1	17.7	17.7	16.6	
G91.0	14.5	14.0	13.4	13.2	13.7	14.9	15.5	15.5	14.5	
G92.0	12.6	11.5	11.5	11.5	11.9	12.8	13.3	13.3	12.6	
G93.0	10.7	9.6	9.9	9.7	10.3	11.0	11.5	11.5	10.7	
G94.0	9.1	8.1	8.4	8.3	8.5	9.3	9.8	9.8	9.1	
G95.0	7.6	6.8	7.1	7.0	7.1	7.8	8.2	8.1	7.6	
G96.0	6.1	5.5	5.8	5.7	5.8	6.2	6.7	6.6	6.1	
G97.0	4.9	4.4	4.7	4.5	4.7	5.0	5.4	5.4	4.9	
G98.0	3.7	3.0	3.7	3.6	3.4	3.9	4.3	4.2	3.7	
G99.0	2.9	1.5	2.9	2.8	2.6	2.9	3.2	2.3	2.9	
G100.0	2.1	0.9	2.2	1.5	1.8	1.4	2.4	1.0	2.1	
G101.0	1.4	1.0	1.7	1.2	1.3	1.1	1.7	0.9	1.4	
G102.0	1.0	1.0	1.3	1.0	0.8	0.9	1.2	0.9	1.0	
G103.0	0.9	1.0	1.1	1.0	0.8	1.0	1.0	1.0	0.9	
G104.0	1.0	1.0	1.2	1.0	0.9	0.9	1.0	1.0	1.0	
G105.0	1.1	1.1	1.3	1.0	1.3	1.0	1.1	1.1	1.1	
G106.0	1.4	1.1	1.3	1.1	1.5	1.0	1.1	1.1	1.4	
G107.0	1.3	1.3	1.3	1.4	1.1	1.2	1.1	1.3	1.3	
G108.0	1.4	1.5	1.4	1.6	1.2	1.3	1.2	1.6	1.4	
G109.0	1.4	1.7	1.4	1.7	1.3	1.5	1.3	1.7	1.4	
G110.0	1.4	1.9	1.7	1.8	1.4	1.5	1.5	1.8	1.4	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	1.6	2.0	2.0	1.9	1.6	1.6	1.8	1.8	1.6	
G112.0	1.7	2.1	2.2	2.0	1.6	1.7	2.2	1.9	1.7	
G113.0	1.8	2.2	2.5	2.1	1.8	1.8	2.4	2.0	1.8	
G114.0	1.8	2.4	2.8	2.2	1.9	2.0	2.6	2.1	1.8	
G115.0	1.9	2.6	2.9	2.2	2.0	2.2	2.8	2.3	1.9	
G116.0	2.0	2.7	3.0	2.3	2.1	2.3	2.8	2.7	2.0	
G117.0	2.5	3.1	3.0	2.4	2.4	2.6	2.9	3.1	2.5	
G118.0	2.6	3.4	3.2	2.6	2.6	2.9	3.0	3.3	2.6	
G119.0	3.1	3.6	3.3	2.8	2.9	3.3	3.1	3.5	3.1	
G120.0	3.8	3.7	3.4	2.9	3.8	3.5	3.2	3.6	3.8	
G121.0	3.9	4.1	3.6	3.1	4.0	3.6	3.3	3.8	3.9	
G122.0	4.2	4.2	3.7	3.3	4.2	3.7	3.4	4.1	4.2	
G123.0	4.3	4.3	3.9	3.4	4.4	3.8	3.4	4.3	4.3	
G124.0	4.5	4.4	4.0	3.5	4.6	4.0	3.5	4.4	4.5	
G125.0	4.7	4.6	4.1	3.6	4.7	4.2	3.6	4.6	4.7	
G126.0	4.9	4.7	4.2	3.8	4.9	4.4	3.7	4.7	4.9	
G127.0	5.1	4.7	4.3	4.0	5.0	4.5	3.8	4.9	5.1	
G128.0	5.2	4.9	4.4	4.1	5.2	4.7	4.0	5.0	5.2	
G129.0	5.4	5.0	4.5	4.2	5.3	4.8	4.1	5.2	5.4	
G130.0	5.5	5.2	4.6	4.3	5.4	4.9	4.2	5.3	5.5	
G131.0	5.6	5.3	4.6	4.4	5.5	5.0	4.2	5.4	5.6	
G132.0	5.8	5.4	4.7	4.5	5.7	5.1	4.4	5.5	5.8	
G133.0	5.8	5.5	4.9	4.6	5.8	5.2	4.5	5.5	5.8	
G134.0	5.9	5.6	5.0	4.6	5.9	5.3	4.6	5.6	5.9	
G135.0	6.0	5.8	5.2	4.7	6.0	5.3	4.7	5.8	6.0	
G136.0	6.1	5.8	5.2	4.7	6.1	5.4	4.8	5.9	6.1	
G137.0	6.2	5.9	5.3	4.7	6.1	5.5	4.9	6.0	6.2	
G138.0	6.4	6.0	5.4	4.5	6.3	5.5	5.0	6.0	6.4	
G139.0	6.5	6.2	5.5	4.5	6.3	5.6	5.1	6.2	6.5	
G140.0	6.6	6.4	5.6	4.7	6.4	5.7	5.2	6.2	6.6	
G141.0	6.7	6.5	5.7	5.1	6.5	5.7	5.3	6.3	6.7	
G142.0	6.8	6.5	5.9	5.1	6.6	5.8	5.4	6.3	6.8	
G143.0	6.8	6.5	5.8	5.1	6.6	5.8	5.5	6.4	6.8	
G144.0	6.8	6.5	5.9	5.0	5.8	5.8	5.6	6.4	6.8	
G145.0	6.1	6.4	5.9	5.1	5.6	5.8	5.7	6.5	6.1	
G146.0	5.8	6.2	6.0	4.7	5.6	5.7	5.8	6.1	5.8	
G147.0	5.9	6.1	6.1	4.2	5.6	5.5	5.7	5.7	5.9	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 m [K=1.0000]
Humidity: 65
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	5.9	5.9	6.2	4.0	5.7	5.5	5.6	5.6	5.9	
G149.0	6.0	5.7	5.9	3.8	5.7	5.6	5.3	5.7	6.0	
G150.0	5.9	5.6	5.5	3.6	5.6	5.5	4.7	5.7	5.9	
G151.0	5.8	5.6	4.6	3.6	5.6	5.5	3.8	5.8	5.8	
G152.0	5.8	5.7	3.6	3.6	5.5	5.5	2.8	5.8	5.8	
G153.0	5.8	5.1	3.2	3.7	5.5	4.7	2.6	5.7	5.8	
G154.0	5.9	4.5	3.2	3.9	5.5	4.1	2.7	4.9	5.9	
G155.0	5.8	4.2	2.9	3.5	4.2	3.6	2.7	3.2	5.8	
G156.0	4.4	3.3	2.8	3.0	3.9	2.7	2.8	2.7	4.4	
G157.0	3.7	3.1	2.8	3.0	2.3	2.6	2.7	2.6	3.7	
G158.0	2.6	2.8	2.7	2.8	2.4	2.5	2.7	2.6	2.6	
G159.0	2.6	2.8	2.8	2.7	2.4	2.6	2.7	2.6	2.6	
G160.0	2.6	2.8	2.8	2.8	2.4	2.6	2.8	2.7	2.6	
G161.0	2.6	2.8	2.8	2.8	2.4	2.7	2.8	2.7	2.6	
G162.0	2.7	2.8	2.9	2.8	2.5	2.7	2.8	2.7	2.7	
G163.0	2.7	2.8	2.8	2.8	2.5	2.8	2.8	2.8	2.7	
G164.0	2.7	2.8	2.8	2.8	2.5	2.8	2.9	2.8	2.7	
G165.0	2.7	2.9	2.9	2.9	2.5	2.8	2.9	2.8	2.7	
G166.0	2.7	2.9	2.9	2.8	2.5	2.8	2.9	2.8	2.7	
G167.0	2.7	2.9	3.0	2.8	2.6	2.8	3.0	2.9	2.7	
G168.0	2.8	2.9	3.0	2.9	2.6	2.8	3.0	2.9	2.8	
G169.0	2.8	2.9	3.0	3.0	2.6	2.8	3.0	2.9	2.8	
G170.0	2.8	2.9	3.0	3.0	2.7	2.9	3.0	2.9	2.8	
G171.0	2.8	3.0	3.0	3.0	2.6	2.9	3.0	2.9	2.8	
G172.0	2.8	3.0	3.0	3.0	2.7	2.9	3.0	3.0	2.8	
G173.0	2.8	3.0	3.1	3.0	2.7	2.9	3.0	3.0	2.8	
G174.0	2.8	3.0	3.1	3.0	2.7	2.8	3.0	3.0	2.8	
G175.0	2.9	3.1	3.1	3.0	2.7	2.9	3.1	3.0	2.9	
G176.0	2.9	3.1	3.1	3.0	2.7	3.0	3.0	3.0	2.9	
G177.0	2.9	3.1	3.1	3.0	2.8	3.0	3.1	3.0	2.9	
G178.0	2.9	3.1	3.3	3.0	2.7	3.0	3.1	3.0	2.9	
G179.0	2.9	3.1	3.1	3.0	2.8	3.1	3.1	3.0	2.9	
G180.0	2.9	3.1	3.0	3.1	2.7	3.0	3.0	3.1	2.9	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.508 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