

Report No.: TH-1948A

Test Time: 2020/10/22 10:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 20069

Current: 0.119 A

Power Factor: 0.935

Voltage: 120.0 V

Power: 13.37 W

Photometric Results

CIE Class: Direct

Measurement Flux: 674.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H84.3

Vertical Diffuse Angle(50%): V95.3

Luminaire Efficacy Rating (LER): 50.53

Max. Intensity: 346.37 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 674.9 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 343.85 cd

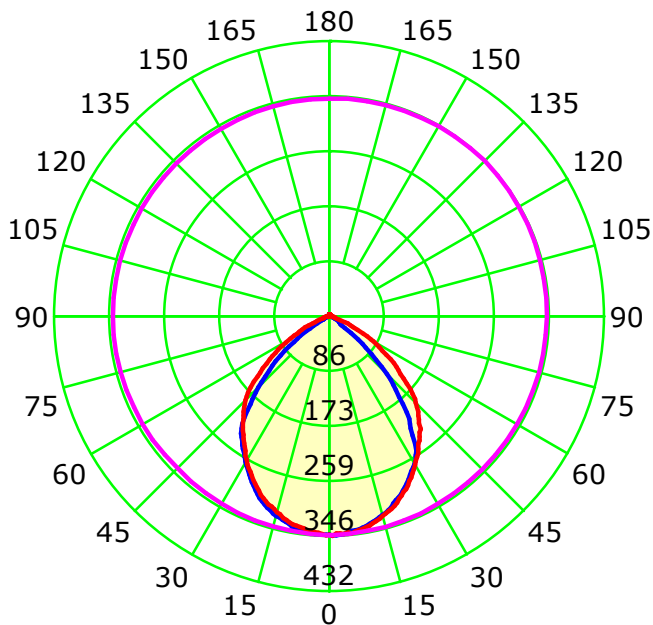
Pos of Max. Intensity: H135 V3

S/MH(C90/C270): 1.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 89.8°

— C0-C180 — C90-C270 — G3

C Plane (°):0.0-360.0: 45.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

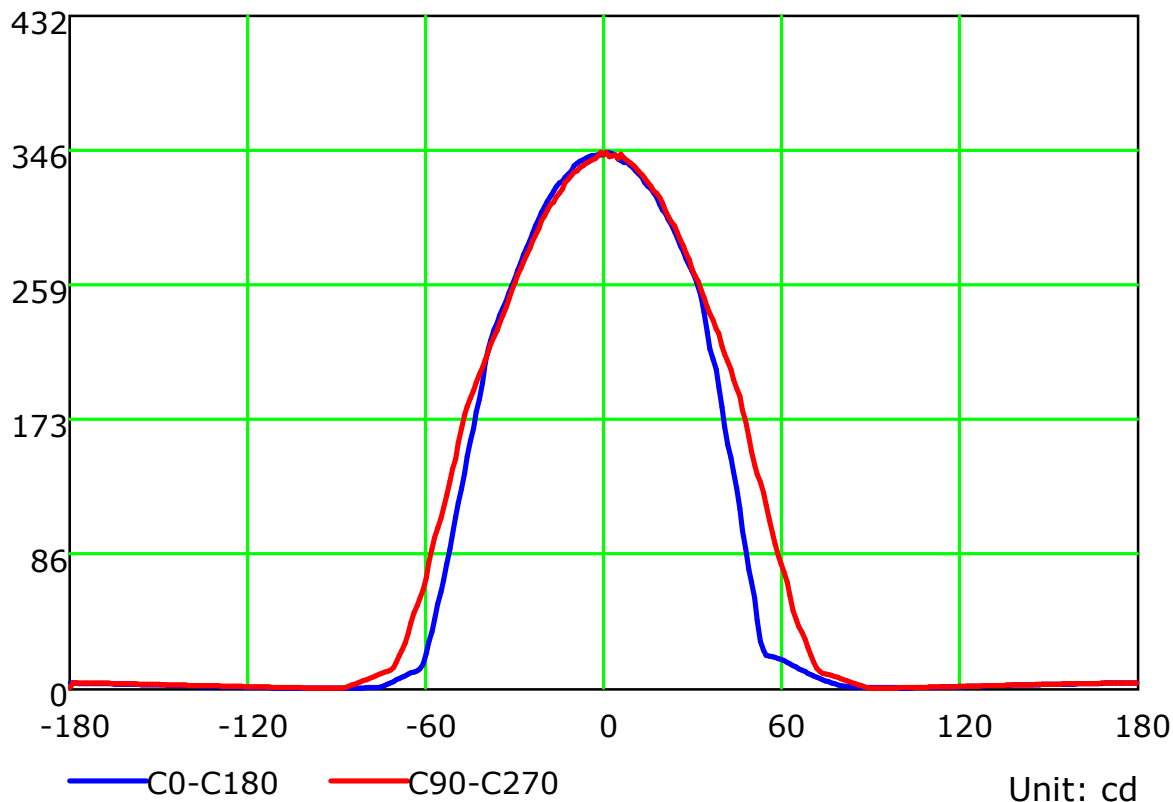
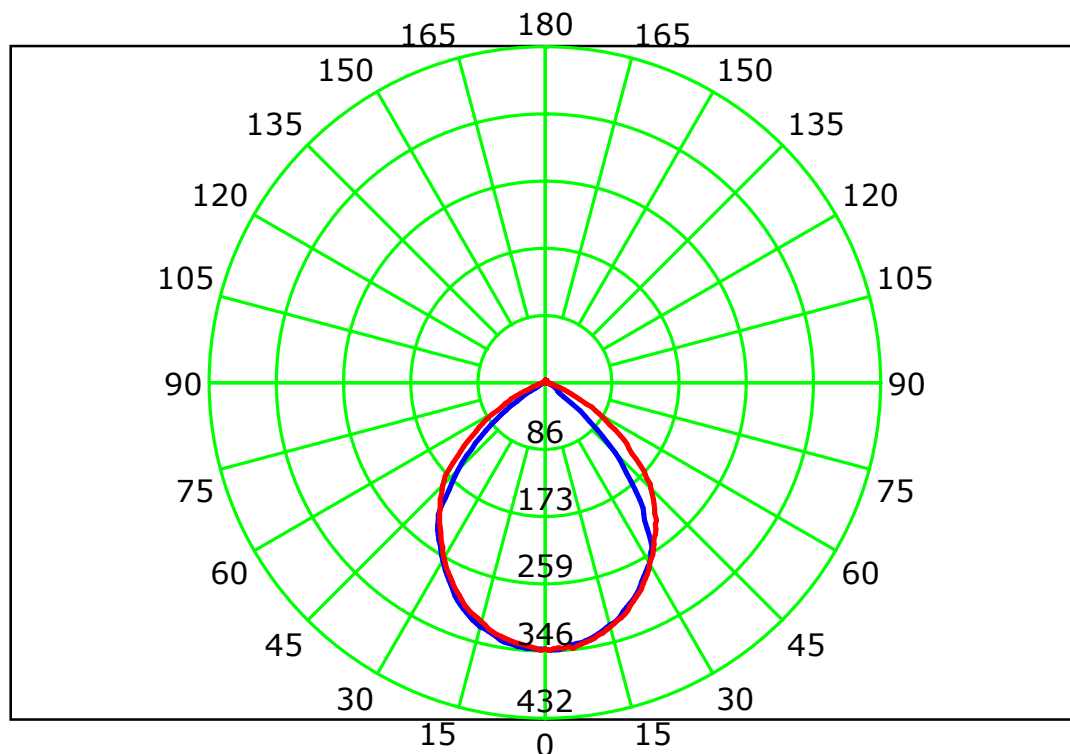
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

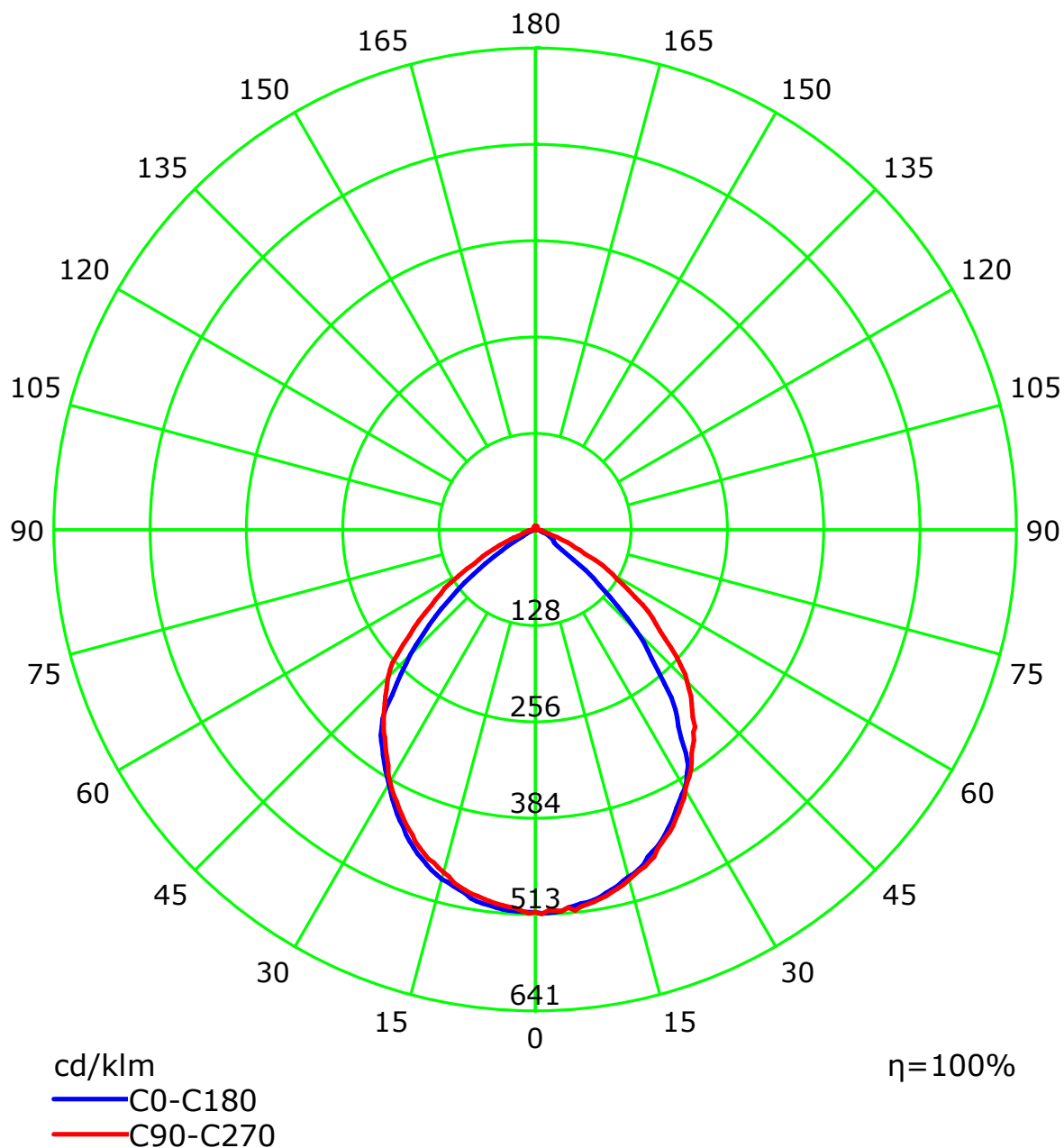
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



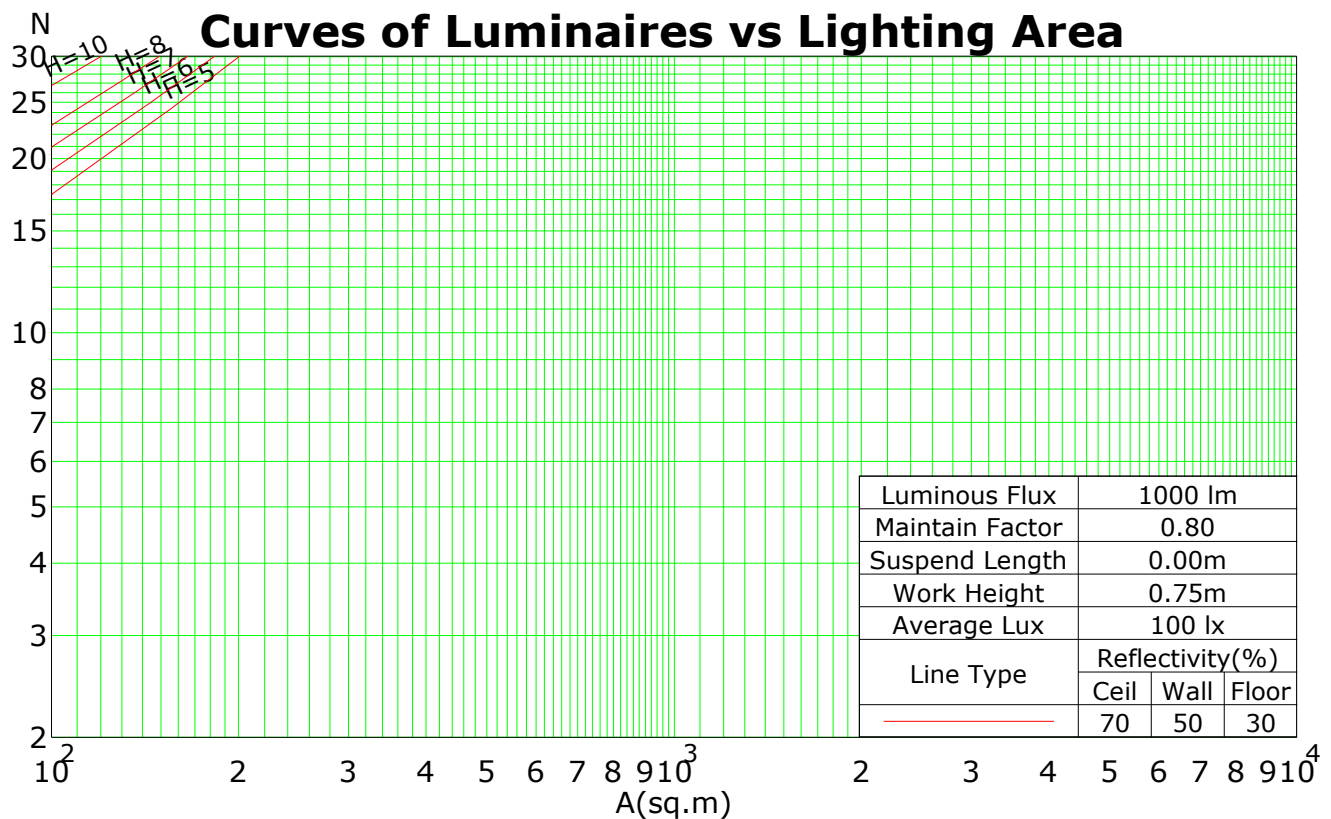
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	96	91	86	100	94	89	85	91	87	83	87	84	81	84	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	74	68	64	72	67	63	70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	74	64	56	51	62	55	50	60	54	50	58	53	49	47
7	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	48	44	43
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	43	38	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

Spacing Criteria (0-180): 1.16

Spacing Criteria (90-270): 1.16

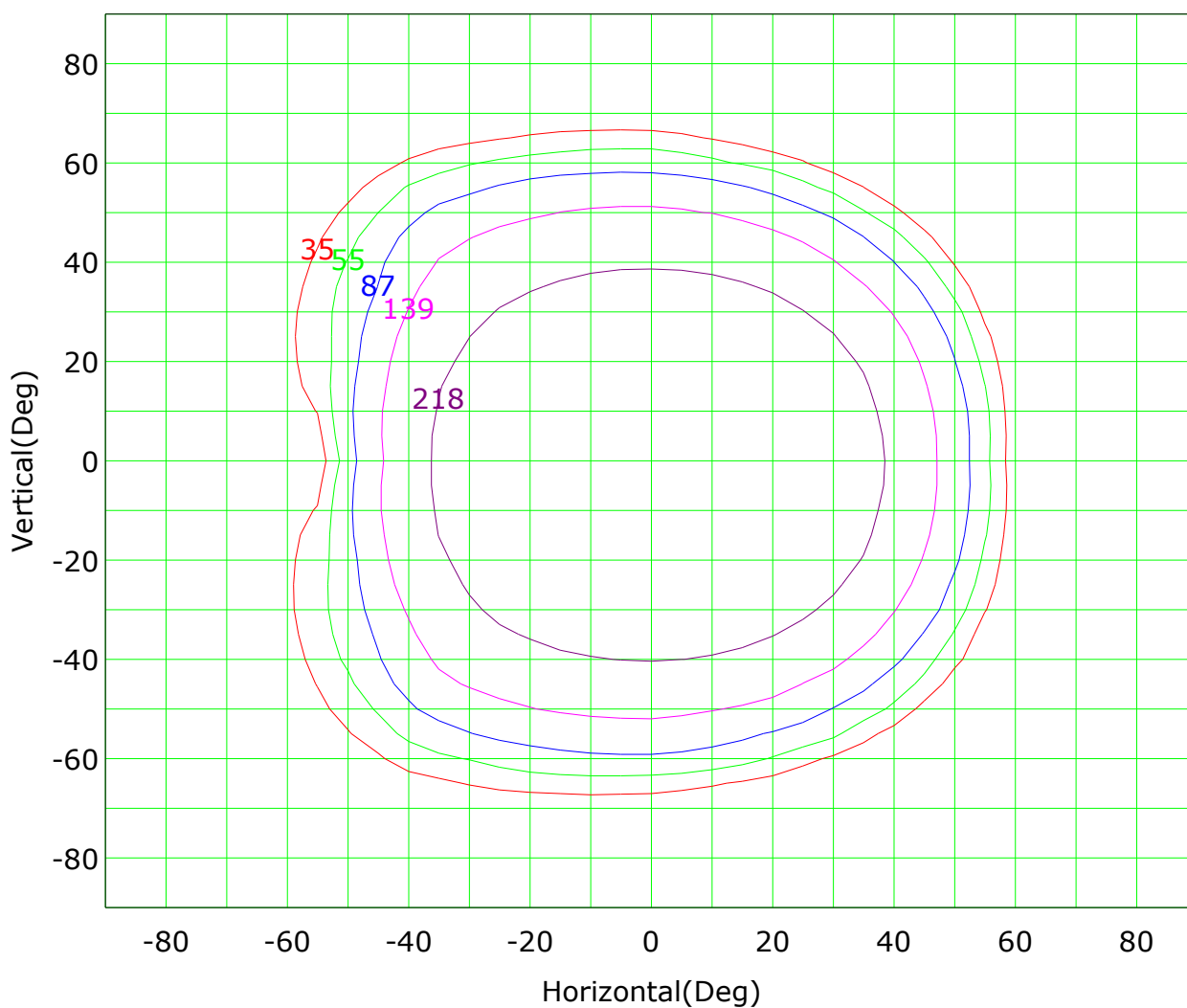
Spacing Criteria (Diagonal): 1.26



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

Isocandela (rectangle)



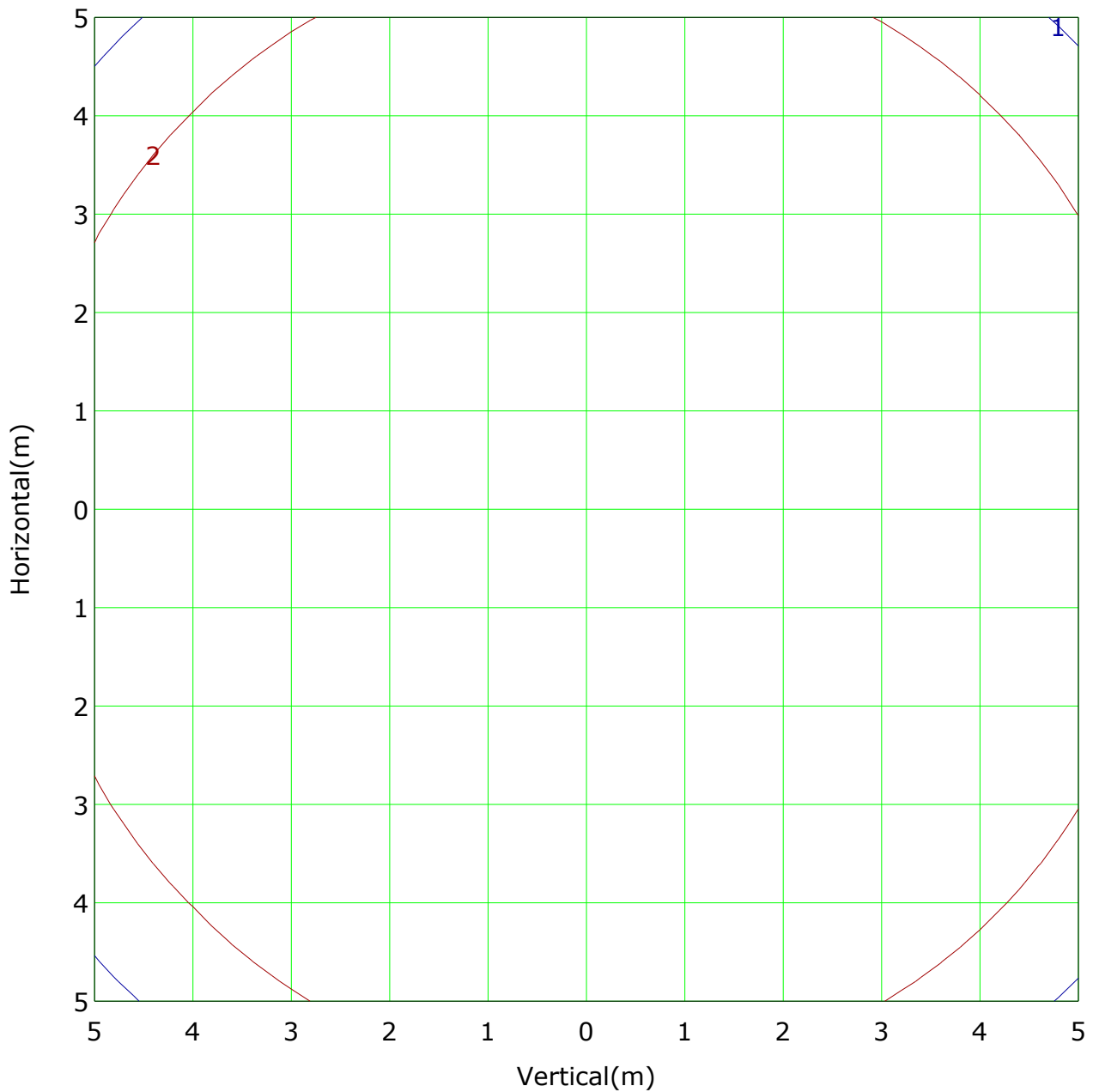
Imax (100%): 346 cd

(10%):	35 cd	(16%):	55 cd
(25%):	87 cd	(40%):	139 cd
(63%):	218 cd	(100%):	346 cd

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 3.5 lx

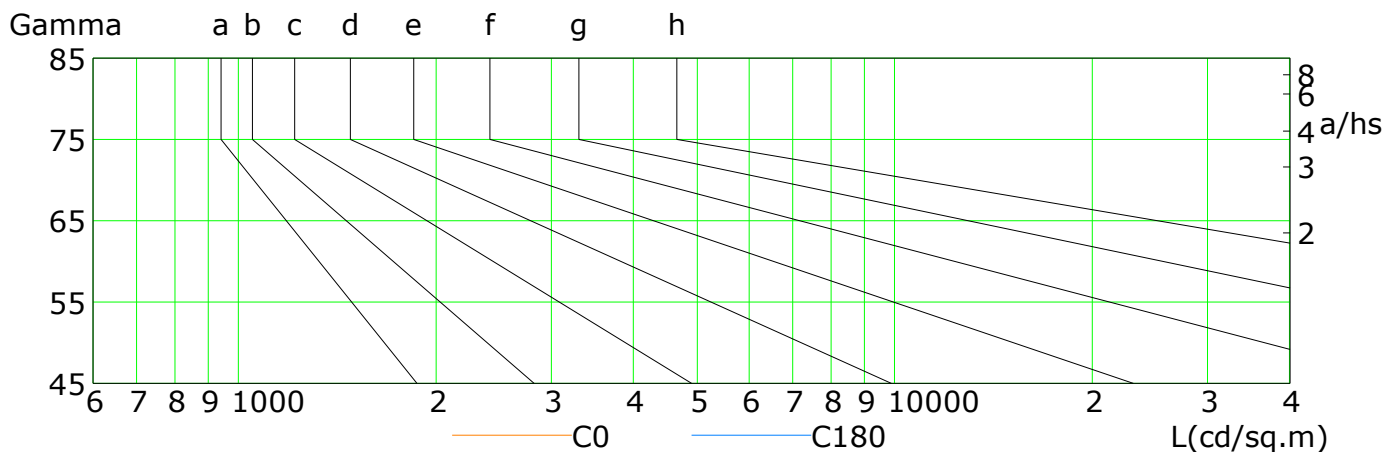
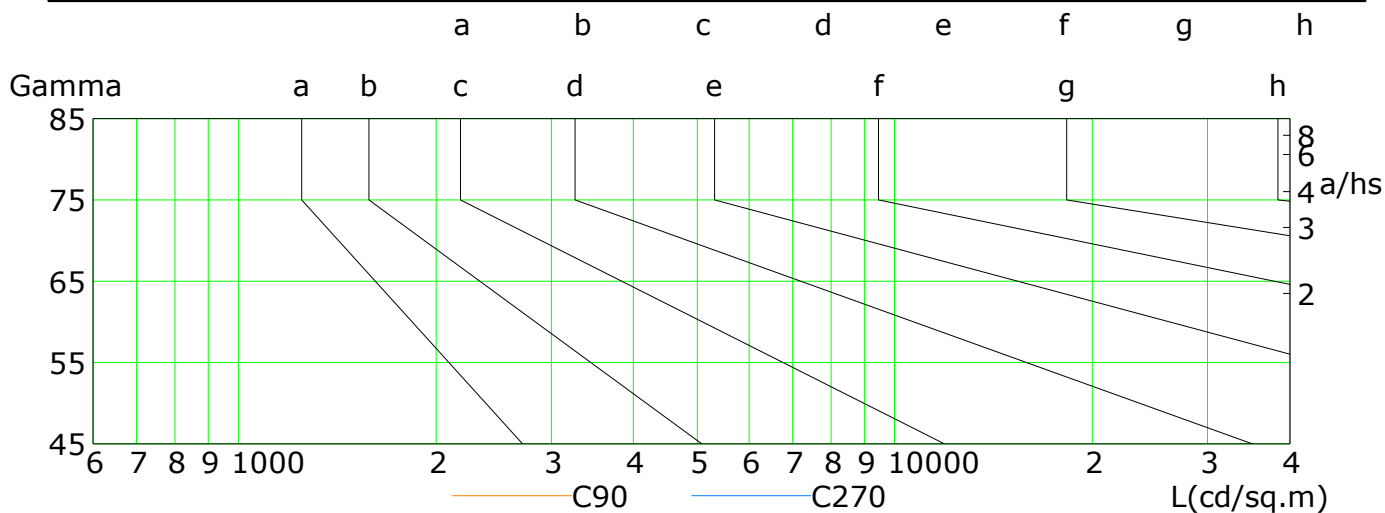
(5%): 0.2 lx	(10%): 0.3 lx
(15%): 0.5 lx	(20%): 0.7 lx
(25%): 0.9 lx	(30%): 1.0 lx
(35%): 1.2 lx	(40%): 1.4 lx
(50%): 1.7 lx	(100%): 3.5 lx

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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

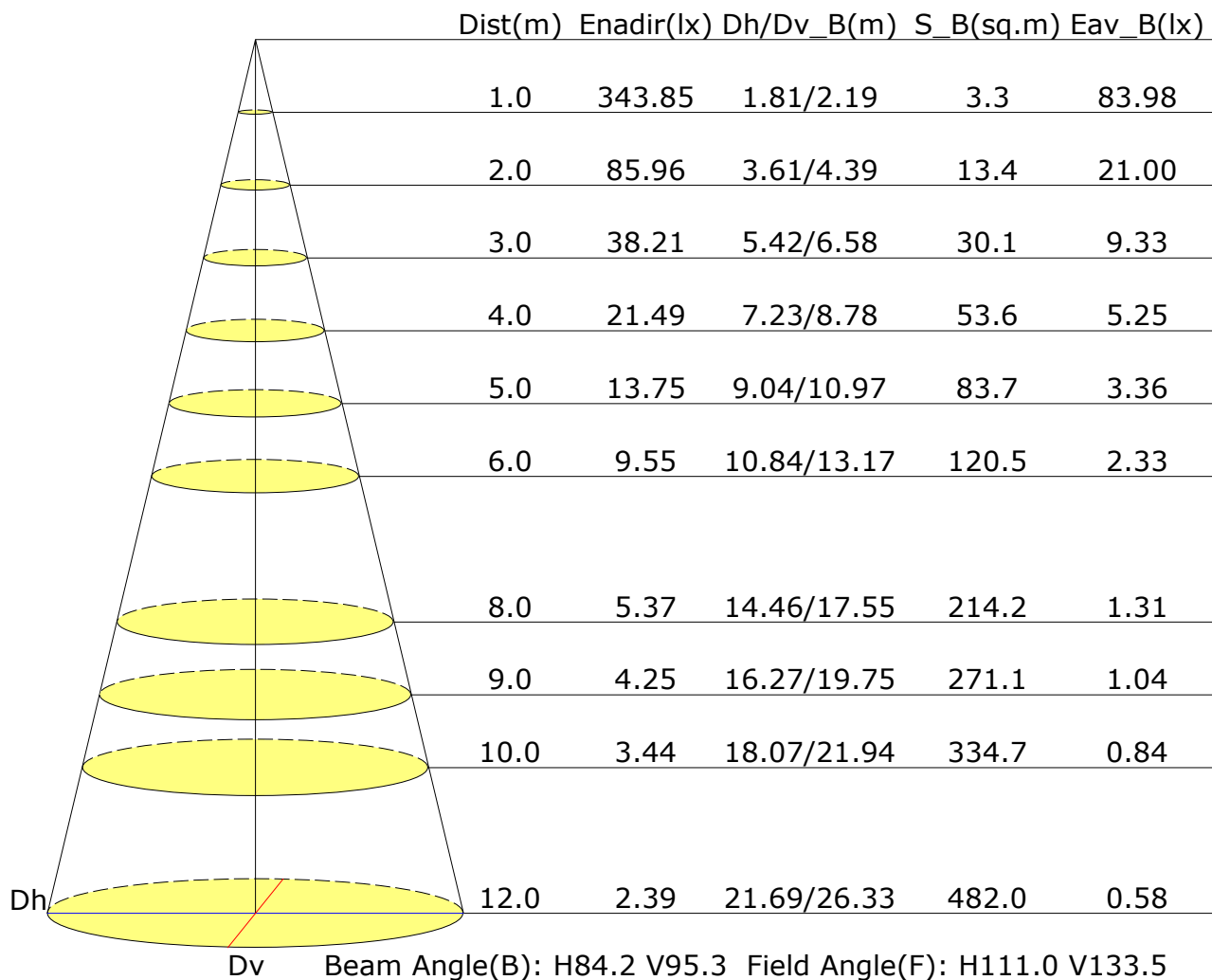


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	129	69	21	19	14	9	5	2	1
C90	193	153	118	81	44	21	9	6	3
C180	159	111	62	23	10	5	1	0	0
C270	187	148	110	71	42	17	10	6	2

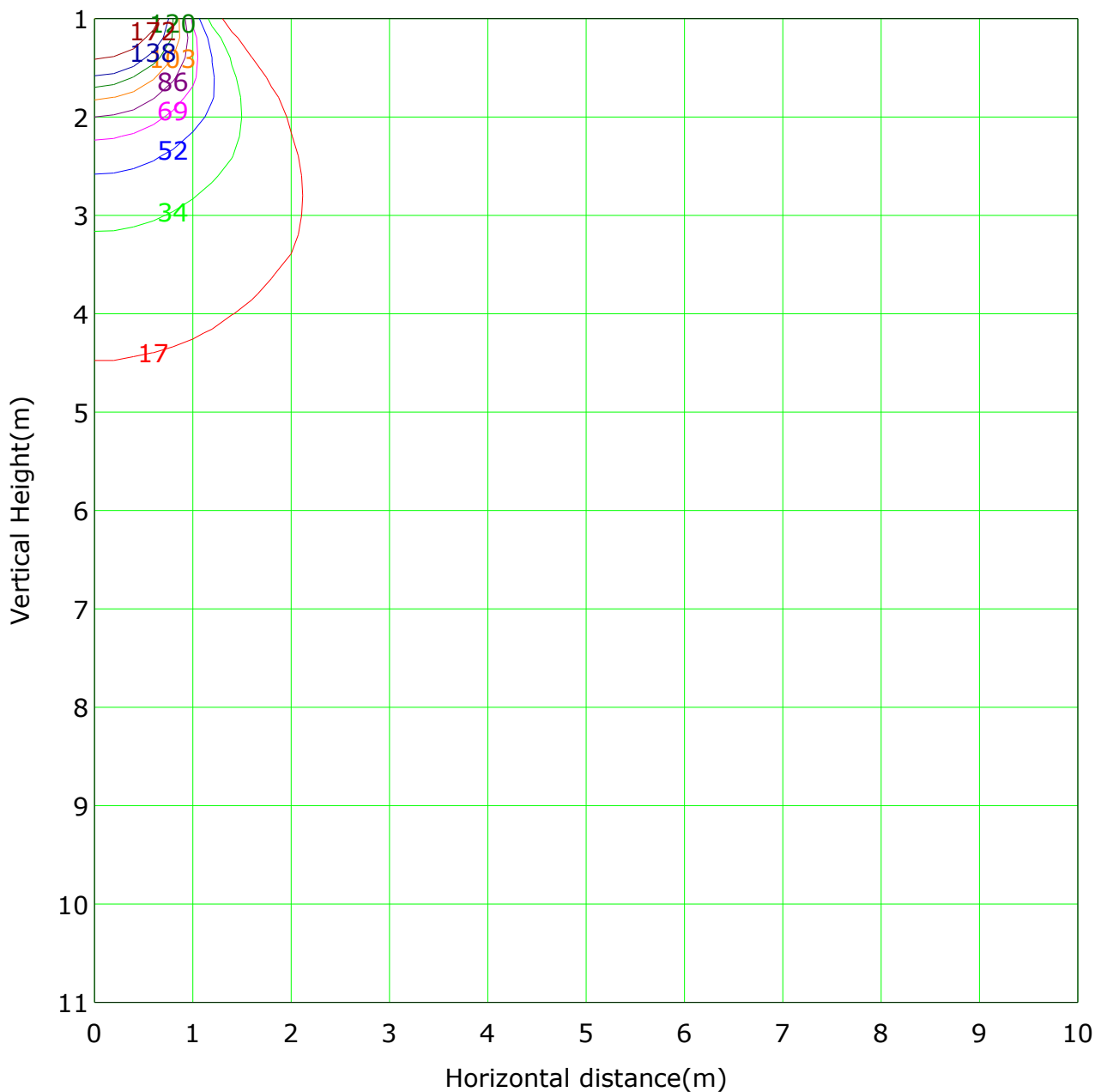
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Test Lab: Inventfine instrument
Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

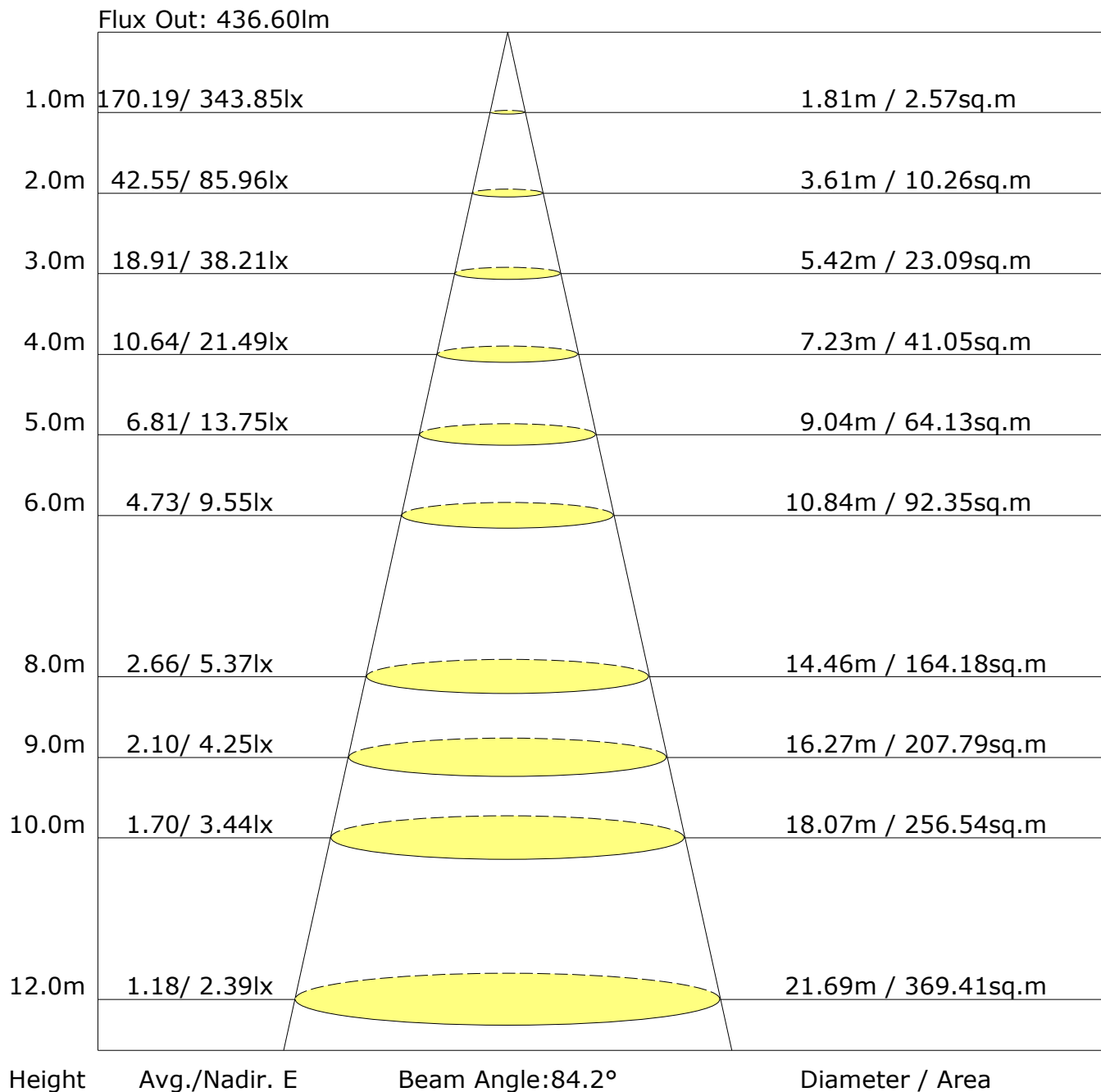


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 343.8 lx
(5%): 17.2 lx	(10%): 34.4 lx	
(15%): 51.6 lx	(20%): 68.8 lx	
(25%): 86.0 lx	(30%): 103.2 lx	
(35%): 120.3 lx	(40%): 137.5 lx	
(50%): 171.9 lx	(100%): 343.8 lx	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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 675lm ($8\log(F/F_0) = -1.4$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	343.7	0.3	0.3	0.05	0.05
1.0-2.0	343.2	1.0	1.3	0.15	0.19
2.0-3.0	342.6	1.6	3.0	0.24	0.44
3.0-4.0	341.8	2.3	5.2	0.34	0.78
4.0-5.0	341.0	2.9	8.2	0.43	1.21
5.0-6.0	340.0	3.6	11.7	0.53	1.74
6.0-7.0	339.3	4.2	16.0	0.62	2.36
7.0-8.0	338.3	4.8	20.8	0.72	3.08
8.0-9.0	337.0	5.5	26.3	0.81	3.89
9.0-10.0	335.6	6.1	32.3	0.90	4.79
10.0-11.0	333.5	6.7	39.0	0.99	5.78
11.0-12.0	331.5	7.2	46.3	1.07	6.85
12.0-13.0	329.2	7.8	54.1	1.16	8.01
13.0-14.0	326.5	8.4	62.4	1.24	9.25
14.0-15.0	323.9	8.9	71.3	1.32	10.57
15.0-16.0	321.5	9.4	80.7	1.40	11.96
16.0-17.0	319.0	9.9	90.7	1.47	13.43
17.0-18.0	316.2	10.4	101.1	1.55	14.98
18.0-19.0	313.4	10.9	112.0	1.62	16.60
19.0-20.0	310.2	11.4	123.4	1.68	18.28
20.0-21.0	306.6	11.8	135.1	1.74	20.02
21.0-22.0	302.8	12.2	147.3	1.80	21.83
22.0-23.0	298.7	12.5	159.8	1.86	23.68
23.0-24.0	295.1	12.9	172.7	1.91	25.60
24.0-25.0	290.9	13.2	186.0	1.96	27.56
25.0-26.0	286.4	13.5	199.5	2.00	29.56
26.0-27.0	281.8	13.8	213.3	2.04	31.60
27.0-28.0	277.1	14.0	227.3	2.08	33.68
28.0-29.0	272.7	14.3	241.6	2.11	35.79
29.0-30.0	268.0	14.5	256.1	2.14	37.94
30.0-31.0	263.4	14.7	270.7	2.17	40.11
31.0-32.0	258.4	14.8	285.5	2.19	42.30
32.0-33.0	253.6	14.9	300.5	2.21	44.52
33.0-34.0	248.4	15.0	315.5	2.23	46.75
34.0-35.0	242.5	15.1	330.6	2.23	48.98
35.0-36.0	236.9	15.1	345.7	2.24	51.21

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	231.5	15.1	360.7	2.24	53.45
37.0-38.0	226.2	15.1	375.8	2.24	55.69
38.0-39.0	220.6	15.1	390.9	2.23	57.92
39.0-40.0	214.1	14.9	405.8	2.21	60.13
40.0-41.0	207.0	14.7	420.6	2.18	62.32
41.0-42.0	200.3	14.6	435.1	2.16	64.47
42.0-43.0	193.8	14.4	449.5	2.13	66.60
43.0-44.0	186.6	14.1	463.6	2.09	68.69
44.0-45.0	178.8	13.7	477.3	2.04	70.72
45.0-46.0	170.9	13.4	490.7	1.98	72.70
46.0-47.0	162.6	12.9	503.6	1.92	74.62
47.0-48.0	154.1	12.5	516.1	1.85	76.46
48.0-49.0	145.4	11.9	528.0	1.77	78.23
49.0-50.0	136.5	11.4	539.4	1.69	79.92
50.0-51.0	127.9	10.8	550.2	1.60	81.52
51.0-52.0	119.2	10.2	560.5	1.52	83.04
52.0-53.0	110.3	9.6	570.1	1.42	84.46
53.0-54.0	101.8	9.0	579.0	1.33	85.79
54.0-55.0	94.2	8.4	587.4	1.25	87.04
55.0-56.0	87.5	7.9	595.3	1.17	88.21
56.0-57.0	80.6	7.4	602.7	1.09	89.30
57.0-58.0	73.9	6.8	609.5	1.01	90.31
58.0-59.0	67.6	6.3	615.9	0.94	91.25
59.0-60.0	61.3	5.8	621.7	0.86	92.11
60.0-61.0	54.9	5.2	626.9	0.78	92.88
61.0-62.0	48.8	4.7	631.6	0.70	93.58
62.0-63.0	43.4	4.2	635.8	0.63	94.21
63.0-64.0	38.6	3.8	639.6	0.56	94.77
64.0-65.0	34.2	3.4	643.0	0.50	95.27
65.0-66.0	30.1	3.0	646.0	0.45	95.71
66.0-67.0	26.3	2.6	648.6	0.39	96.10
67.0-68.0	22.9	2.3	650.9	0.34	96.45
68.0-69.0	19.8	2.0	653.0	0.30	96.75
69.0-70.0	17.0	1.7	654.7	0.26	97.01
70.0-71.0	14.3	1.5	656.2	0.22	97.22
71.0-72.0	12.1	1.3	657.4	0.19	97.41

C Plane (°):0.0-360.0: 45.0
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	10.2	1.1	658.5	0.16	97.57
73.0-74.0	8.7	0.9	659.4	0.14	97.70
74.0-75.0	7.7	0.8	660.2	0.12	97.83
75.0-76.0	7.0	0.7	661.0	0.11	97.94
76.0-77.0	6.4	0.7	661.7	0.10	98.04
77.0-78.0	5.9	0.6	662.3	0.09	98.13
78.0-79.0	5.3	0.6	662.9	0.08	98.21
79.0-80.0	4.8	0.5	663.4	0.08	98.29
80.0-81.0	4.3	0.5	663.9	0.07	98.36
81.0-82.0	3.9	0.4	664.3	0.06	98.42
82.0-83.0	3.5	0.4	664.7	0.06	98.48
83.0-84.0	3.1	0.3	665.0	0.05	98.53
84.0-85.0	2.7	0.3	665.3	0.04	98.57
85.0-86.0	2.4	0.3	665.5	0.04	98.61
86.0-87.0	2.0	0.2	665.8	0.03	98.64
87.0-88.0	1.7	0.2	666.0	0.03	98.67
88.0-89.0	1.5	0.2	666.1	0.02	98.69
89.0-90.0	1.3	0.1	666.3	0.02	98.72
90.0-91.0	1.1	0.1	666.4	0.02	98.73
91.0-92.0	1.0	0.1	666.5	0.02	98.75
92.0-93.0	0.9	0.1	666.6	0.01	98.76
93.0-94.0	0.8	0.1	666.7	0.01	98.78
94.0-95.0	0.7	0.1	666.7	0.01	98.79
95.0-96.0	0.6	0.1	666.8	0.01	98.80
96.0-97.0	0.5	0.1	666.9	0.01	98.81
97.0-98.0	0.5	0.1	666.9	0.01	98.81
98.0-99.0	0.5	0.0	667.0	0.01	98.82
99.0-100.0	0.4	0.0	667.0	0.01	98.83
100.0-101.0	0.4	0.0	667.1	0.01	98.83
101.0-102.0	0.4	0.0	667.1	0.01	98.84
102.0-103.0	0.4	0.0	667.1	0.01	98.85
103.0-104.0	0.4	0.0	667.2	0.01	98.85
104.0-105.0	0.5	0.0	667.2	0.01	98.86
105.0-106.0	0.5	0.1	667.3	0.01	98.87
106.0-107.0	0.5	0.1	667.4	0.01	98.88
107.0-108.0	0.6	0.1	667.4	0.01	98.89

C Plane (°):0.0-360.0: 45.0
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Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	0.6	0.1	667.5	0.01	98.90
109.0-110.0	0.7	0.1	667.5	0.01	98.91
110.0-111.0	0.7	0.1	667.6	0.01	98.92
111.0-112.0	0.7	0.1	667.7	0.01	98.93
112.0-113.0	0.8	0.1	667.8	0.01	98.94
113.0-114.0	0.8	0.1	667.9	0.01	98.95
114.0-115.0	0.9	0.1	667.9	0.01	98.96
115.0-116.0	0.9	0.1	668.0	0.01	98.98
116.0-117.0	1.0	0.1	668.1	0.01	98.99
117.0-118.0	1.0	0.1	668.2	0.01	99.01
118.0-119.0	1.0	0.1	668.3	0.01	99.02
119.0-120.0	1.1	0.1	668.4	0.02	99.04
120.0-121.0	1.1	0.1	668.5	0.02	99.05
121.0-122.0	1.2	0.1	668.6	0.02	99.07
122.0-123.0	1.2	0.1	668.8	0.02	99.09
123.0-124.0	1.3	0.1	668.9	0.02	99.10
124.0-125.0	1.3	0.1	669.0	0.02	99.12
125.0-126.0	1.4	0.1	669.1	0.02	99.14
126.0-127.0	1.4	0.1	669.2	0.02	99.16
127.0-128.0	1.5	0.1	669.4	0.02	99.18
128.0-129.0	1.5	0.1	669.5	0.02	99.20
129.0-130.0	1.6	0.1	669.6	0.02	99.22
130.0-131.0	1.6	0.1	669.8	0.02	99.24
131.0-132.0	1.7	0.1	669.9	0.02	99.26
132.0-133.0	1.7	0.1	670.0	0.02	99.28
133.0-134.0	1.8	0.1	670.2	0.02	99.30
134.0-135.0	1.8	0.1	670.3	0.02	99.32
135.0-136.0	1.9	0.1	670.5	0.02	99.34
136.0-137.0	1.9	0.1	670.6	0.02	99.36
137.0-138.0	1.9	0.1	670.8	0.02	99.38
138.0-139.0	2.0	0.1	670.9	0.02	99.40
139.0-140.0	2.0	0.1	671.0	0.02	99.42
140.0-141.0	2.1	0.1	671.2	0.02	99.45
141.0-142.0	2.1	0.1	671.3	0.02	99.47
142.0-143.0	2.2	0.1	671.5	0.02	99.49
143.0-144.0	2.2	0.1	671.6	0.02	99.51

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.3	0.1	671.8	0.02	99.53
145.0-146.0	2.3	0.1	671.9	0.02	99.55
146.0-147.0	2.4	0.1	672.0	0.02	99.57
147.0-148.0	2.4	0.1	672.2	0.02	99.59
148.0-149.0	2.4	0.1	672.3	0.02	99.62
149.0-150.0	2.5	0.1	672.5	0.02	99.64
150.0-151.0	2.5	0.1	672.6	0.02	99.66
151.0-152.0	2.5	0.1	672.7	0.02	99.68
152.0-153.0	2.6	0.1	672.9	0.02	99.70
153.0-154.0	2.6	0.1	673.0	0.02	99.71
154.0-155.0	2.7	0.1	673.1	0.02	99.73
155.0-156.0	2.7	0.1	673.2	0.02	99.75
156.0-157.0	2.8	0.1	673.4	0.02	99.77
157.0-158.0	2.8	0.1	673.5	0.02	99.79
158.0-159.0	2.9	0.1	673.6	0.02	99.80
159.0-160.0	2.9	0.1	673.7	0.02	99.82
160.0-161.0	3.0	0.1	673.8	0.02	99.84
161.0-162.0	3.0	0.1	673.9	0.02	99.85
162.0-163.0	3.1	0.1	674.0	0.01	99.87
163.0-164.0	3.1	0.1	674.1	0.01	99.88
164.0-165.0	3.1	0.1	674.2	0.01	99.89
165.0-166.0	3.2	0.1	674.3	0.01	99.91
166.0-167.0	3.2	0.1	674.4	0.01	99.92
167.0-168.0	3.2	0.1	674.5	0.01	99.93
168.0-169.0	3.3	0.1	674.5	0.01	99.94
169.0-170.0	3.3	0.1	674.6	0.01	99.95
170.0-171.0	3.3	0.1	674.7	0.01	99.96
171.0-172.0	3.4	0.1	674.7	0.01	99.97
172.0-173.0	3.4	0.0	674.8	0.01	99.98
173.0-174.0	3.4	0.0	674.8	0.01	99.98
174.0-175.0	3.4	0.0	674.8	0.01	99.99
175.0-176.0	3.4	0.0	674.9	0.00	99.99
176.0-177.0	3.5	0.0	674.9	0.00	100.00
177.0-178.0	3.5	0.0	674.9	0.00	100.00
178.0-179.0	3.5	0.0	674.9	0.00	100.00
179.0-180.0	3.3	0.0	674.9	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector:

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	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	
G1.0	345.2	342.2	345.5	343.9	343.8	341.9	345.2	340.1	345.2	
G2.0	344.8	343.5	342.5	343.3	343.7	342.1	343.0	341.2	344.8	
G3.0	344.4	340.5	342.7	346.4	343.3	340.9	341.1	338.8	344.4	
G4.0	343.7	340.1	343.6	342.3	343.3	339.8	340.3	337.8	343.7	
G5.0	341.0	340.5	341.3	341.8	342.6	340.3	339.2	337.7	341.0	
G6.0	340.0	338.2	344.2	339.6	341.7	337.7	338.2	336.4	340.0	
G7.0	338.8	338.8	341.5	340.0	340.6	338.8	336.7	338.2	338.8	
G8.0	338.7	337.6	340.0	338.3	339.8	336.3	335.3	333.7	338.7	
G9.0	337.2	337.5	338.7	337.7	338.3	334.0	333.5	335.5	337.2	
G10.0	335.5	335.3	337.2	337.4	336.7	333.0	332.4	329.8	335.5	
G11.0	333.2	333.2	335.6	334.3	333.2	329.9	330.5	328.6	333.2	
G12.0	331.3	331.4	332.9	334.3	331.2	329.4	328.2	326.6	331.3	
G13.0	329.2	327.8	331.0	330.8	329.1	325.6	326.1	322.0	329.2	
G14.0	325.9	327.1	328.9	328.6	326.8	323.8	321.7	319.6	325.9	
G15.0	323.4	323.1	326.0	324.9	325.7	320.3	319.1	318.3	323.4	
G16.0	322.0	321.7	323.3	322.4	323.0	317.3	316.3	317.1	322.0	
G17.0	319.3	318.5	320.7	321.3	320.0	315.6	313.3	312.6	319.3	
G18.0	316.3	315.2	318.9	318.3	316.9	311.1	311.4	310.1	316.3	
G19.0	311.4	314.1	315.9	316.9	313.7	309.3	308.0	307.3	311.4	
G20.0	308.2	309.6	312.9	312.2	310.2	305.4	304.7	302.9	308.2	
G21.0	305.6	307.8	307.5	308.3	306.5	302.5	301.0	300.9	305.6	
G22.0	302.2	301.2	304.2	304.0	302.5	298.8	296.2	295.7	302.2	
G23.0	298.5	298.6	300.5	300.6	298.5	294.0	292.2	292.0	298.5	
G24.0	294.4	294.7	297.7	299.5	292.8	291.2	288.2	288.1	294.4	
G25.0	290.5	291.4	293.9	292.1	288.4	285.6	283.6	282.5	290.5	
G26.0	285.1	288.7	288.9	287.8	283.9	282.3	279.2	278.3	285.1	
G27.0	280.9	283.2	284.9	281.8	279.3	274.8	275.0	274.2	280.9	
G28.0	276.6	280.3	280.4	277.2	274.5	270.5	270.9	270.0	276.6	
G29.0	272.2	274.7	275.9	272.4	269.4	266.3	266.4	265.7	272.2	
G30.0	268.9	270.7	270.3	267.6	264.3	260.4	261.6	261.1	268.9	
G31.0	264.6	265.3	265.7	263.8	259.4	256.8	256.8	256.6	264.6	
G32.0	258.2	260.1	261.9	257.5	254.6	251.0	250.4	252.2	258.2	
G33.0	253.0	256.3	257.1	255.5	249.7	247.0	245.4	247.6	253.0	
G34.0	242.4	250.3	251.7	247.8	245.2	241.4	240.6	243.1	242.4	
G35.0	229.5	246.8	245.6	245.0	240.4	236.3	235.6	238.4	229.5	
G36.0	218.8	241.4	241.6	238.1	235.8	232.4	230.8	233.8	218.8	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	212.1	237.0	237.5	233.2	231.2	225.8	226.6	227.6	212.1	
G38.0	205.4	232.2	231.5	228.3	224.6	221.0	221.9	222.7	205.4	
G39.0	194.6	226.4	228.8	221.9	219.0	216.3	217.2	217.7	194.6	
G40.0	181.3	221.0	220.6	216.9	209.2	210.7	211.4	212.6	181.3	
G41.0	168.7	214.9	215.6	211.8	196.7	205.6	206.9	208.2	168.7	
G42.0	156.8	211.0	210.5	206.0	186.0	200.1	202.2	204.1	156.8	
G43.0	148.5	205.3	205.4	199.9	177.7	191.9	196.8	198.2	148.5	
G44.0	139.7	201.0	198.9	189.2	167.7	180.7	192.1	192.4	139.7	
G45.0	128.7	196.0	193.3	177.1	159.4	170.3	187.1	187.4	128.7	
G46.0	115.5	189.8	188.0	169.5	149.3	159.4	181.7	181.4	115.5	
G47.0	101.8	183.9	179.0	161.3	138.9	149.2	176.1	176.7	101.8	
G48.0	90.3	175.5	172.2	152.7	128.4	142.8	167.4	169.8	90.3	
G49.0	76.4	167.8	161.7	143.5	119.2	136.4	158.0	163.7	76.4	
G50.0	68.5	159.1	152.9	134.3	110.5	128.9	147.8	155.7	68.5	
G51.0	58.4	152.8	144.3	127.3	99.1	118.3	141.0	147.6	58.4	
G52.0	43.9	146.3	138.0	121.2	89.7	107.5	133.2	139.2	43.9	
G53.0	30.3	137.9	132.8	112.8	80.1	97.8	124.2	130.4	30.3	
G54.0	24.3	130.8	125.9	100.6	69.5	91.1	116.0	123.9	24.3	
G55.0	21.1	123.0	118.2	89.7	62.0	84.3	109.7	117.8	21.1	
G56.0	20.7	115.5	108.6	82.2	54.7	76.2	103.1	112.4	20.7	
G57.0	20.3	109.1	99.9	73.1	44.2	67.2	97.1	105.2	20.3	
G58.0	20.0	103.1	93.0	67.7	36.4	57.5	90.2	97.9	20.0	
G59.0	19.3	97.0	85.8	62.9	29.9	49.2	80.9	90.4	19.3	
G60.0	18.6	89.2	80.5	57.0	22.6	43.6	71.3	82.3	18.6	
G61.0	17.8	80.1	75.0	48.6	15.4	37.7	63.3	75.9	17.8	
G62.0	16.7	71.7	68.4	38.8	12.4	32.3	57.9	68.7	16.7	
G63.0	15.9	66.1	60.1	31.1	11.2	26.3	53.5	63.0	15.9	
G64.0	14.8	60.9	50.1	26.6	10.5	20.2	48.8	57.7	14.8	
G65.0	13.8	56.4	44.1	22.8	10.0	15.1	42.3	52.4	13.8	
G66.0	12.6	52.0	39.7	17.7	9.3	11.9	35.7	46.2	12.6	
G67.0	11.7	47.6	36.2	12.1	8.2	10.1	29.1	40.1	11.7	
G68.0	10.8	42.8	31.6	9.8	7.4	9.3	24.4	34.6	10.8	
G69.0	9.8	35.2	26.6	8.5	6.4	8.7	21.4	29.8	9.8	
G70.0	8.9	30.6	21.2	8.0	5.4	8.0	16.7	26.1	8.9	
G71.0	8.0	26.1	16.9	7.4	4.3	7.1	13.3	21.3	8.0	
G72.0	7.3	22.5	13.1	6.7	3.6	6.3	11.6	17.3	7.3	
G73.0	6.5	17.8	11.0	6.2	2.6	5.5	11.1	14.4	6.5	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	5.7	14.2	9.8	5.3	1.8	4.6	10.4	12.8	5.7	
G75.0	4.9	12.5	9.3	4.7	1.1	3.9	9.8	12.3	4.9	
G76.0	4.2	11.7	8.9	4.0	0.7	3.2	9.0	11.9	4.2	
G77.0	3.5	11.3	8.3	3.3	0.6	2.5	8.2	11.3	3.5	
G78.0	2.9	10.9	7.6	2.6	0.5	1.9	7.4	10.8	2.9	
G79.0	2.3	10.3	7.1	2.1	0.5	1.4	6.5	10.2	2.3	
G80.0	1.9	9.9	6.3	1.6	0.4	0.9	5.7	9.4	1.9	
G81.0	1.6	9.3	5.7	1.2	0.4	0.7	4.9	8.9	1.6	
G82.0	1.4	8.7	5.0	0.9	0.3	0.4	4.2	8.3	1.4	
G83.0	1.2	8.1	4.3	0.6	0.3	0.3	3.5	7.6	1.2	
G84.0	1.1	7.6	3.7	0.5	0.2	0.2	2.7	7.1	1.1	
G85.0	1.0	7.0	3.0	0.4	0.2	0.2	2.1	6.3	1.0	
G86.0	0.9	6.5	2.4	0.3	0.1	0.3	1.4	5.8	0.9	
G87.0	0.8	5.9	1.8	0.3	0.1	0.2	0.7	5.3	0.8	
G88.0	0.8	5.4	1.2	0.3	0.0	0.3	0.3	4.6	0.8	
G89.0	0.7	4.9	0.6	0.3	0.0	0.2	0.1	4.1	0.7	
G90.0	0.7	4.3	0.3	0.4	0.0	0.3	0.2	3.6	0.7	
G91.0	0.6	3.9	0.2	0.4	0.0	0.2	0.1	3.1	0.6	
G92.0	0.6	3.4	0.2	0.4	0.0	0.2	0.2	2.5	0.6	
G93.0	0.5	2.9	0.3	0.4	0.0	0.2	0.2	2.2	0.5	
G94.0	0.5	2.5	0.3	0.4	0.0	0.2	0.2	1.6	0.5	
G95.0	0.5	2.1	0.3	0.4	0.0	0.2	0.2	1.3	0.5	
G96.0	0.5	1.7	0.3	0.4	0.0	0.3	0.3	1.1	0.5	
G97.0	0.4	1.4	0.4	0.5	0.0	0.3	0.3	0.9	0.4	
G98.0	0.5	1.1	0.4	0.5	0.0	0.4	0.3	0.7	0.5	
G99.0	0.4	0.9	0.4	0.5	0.0	0.3	0.4	0.5	0.4	
G100.0	0.4	0.7	0.5	0.5	0.0	0.4	0.4	0.5	0.4	
G101.0	0.4	0.6	0.5	0.6	0.0	0.4	0.4	0.4	0.4	
G102.0	0.3	0.5	0.5	0.6	0.1	0.4	0.5	0.4	0.3	
G103.0	0.4	0.5	0.5	0.6	0.1	0.4	0.5	0.3	0.4	
G104.0	0.4	0.5	0.6	0.7	0.1	0.5	0.5	0.4	0.4	
G105.0	0.4	0.5	0.6	0.7	0.2	0.5	0.5	0.4	0.4	
G106.0	0.5	0.5	0.7	0.7	0.2	0.5	0.6	0.5	0.5	
G107.0	0.5	0.5	0.7	0.8	0.2	0.5	0.6	0.4	0.5	
G108.0	0.5	0.6	0.7	0.8	0.2	0.6	0.7	0.5	0.5	
G109.0	0.6	0.7	0.8	0.8	0.3	0.6	0.7	0.6	0.6	
G110.0	0.6	0.7	0.9	0.9	0.3	0.7	0.7	0.6	0.6	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	0.7	0.7	0.8	0.9	0.3	0.7	0.8	0.6	0.7	
G112.0	0.7	0.8	0.9	1.0	0.4	0.7	0.8	0.7	0.7	
G113.0	0.8	0.9	1.0	1.0	0.5	0.8	0.9	0.7	0.8	
G114.0	0.8	0.9	1.0	1.1	0.5	0.8	0.9	0.8	0.8	
G115.0	0.9	1.0	1.1	1.1	0.5	0.9	0.9	0.8	0.9	
G116.0	0.9	1.0	1.1	1.1	0.5	0.9	1.0	0.9	0.9	
G117.0	1.0	1.0	1.1	1.2	0.6	0.9	1.1	0.9	1.0	
G118.0	1.0	1.1	1.2	1.2	0.7	0.9	1.1	0.9	1.0	
G119.0	1.1	1.2	1.2	1.3	0.7	1.0	1.1	1.0	1.1	
G120.0	1.1	1.3	1.3	1.3	0.8	1.0	1.2	1.0	1.1	
G121.0	1.2	1.3	1.3	1.4	0.8	1.1	1.2	1.1	1.2	
G122.0	1.2	1.4	1.4	1.4	0.9	1.1	1.3	1.1	1.2	
G123.0	1.3	1.3	1.4	1.4	0.9	1.2	1.3	1.1	1.3	
G124.0	1.4	1.4	1.5	1.5	1.0	1.2	1.3	1.2	1.4	
G125.0	1.4	1.5	1.6	1.6	1.0	1.2	1.4	1.2	1.4	
G126.0	1.5	1.5	1.6	1.5	1.0	1.2	1.4	1.3	1.5	
G127.0	1.5	1.5	1.6	1.6	1.1	1.3	1.5	1.3	1.5	
G128.0	1.5	1.6	1.7	1.6	1.2	1.4	1.6	1.4	1.5	
G129.0	1.6	1.6	1.8	1.7	1.2	1.4	1.6	1.4	1.6	
G130.0	1.7	1.7	1.8	1.8	1.3	1.4	1.7	1.5	1.7	
G131.0	1.7	1.7	1.8	1.9	1.3	1.5	1.7	1.5	1.7	
G132.0	1.8	1.8	1.9	1.9	1.4	1.5	1.7	1.5	1.8	
G133.0	1.8	1.8	1.9	2.0	1.4	1.6	1.8	1.6	1.8	
G134.0	1.8	1.9	2.0	1.9	1.5	1.6	1.8	1.6	1.8	
G135.0	1.9	1.9	2.0	2.0	1.5	1.7	1.8	1.7	1.9	
G136.0	2.0	2.0	2.1	2.1	1.6	1.7	1.9	1.8	2.0	
G137.0	2.0	2.1	2.1	2.1	1.6	1.8	1.9	1.8	2.0	
G138.0	2.1	2.1	2.2	2.2	1.7	1.8	1.9	1.9	2.1	
G139.0	2.2	2.1	2.1	2.2	1.7	1.9	2.0	1.9	2.2	
G140.0	2.1	2.2	2.2	2.2	1.7	1.9	2.0	1.9	2.1	
G141.0	2.2	2.3	2.3	2.3	1.8	1.9	2.1	2.0	2.2	
G142.0	2.2	2.3	2.3	2.3	1.9	2.0	2.1	2.0	2.2	
G143.0	2.3	2.3	2.4	2.4	1.9	2.0	2.1	2.1	2.3	
G144.0	2.3	2.4	2.4	2.4	2.0	2.1	2.2	2.1	2.3	
G145.0	2.4	2.4	2.4	2.4	2.0	2.1	2.3	2.2	2.4	
G146.0	2.4	2.4	2.5	2.5	2.0	2.2	2.3	2.2	2.4	
G147.0	2.5	2.5	2.6	2.5	2.0	2.2	2.4	2.3	2.5	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
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	2.5	2.5	2.6	2.6	2.1	2.3	2.4	2.3	2.5	
G149.0	2.5	2.6	2.7	2.6	2.1	2.3	2.5	2.3	2.5	
G150.0	2.5	2.6	2.7	2.7	2.2	2.4	2.5	2.4	2.5	
G151.0	2.6	2.7	2.7	2.7	2.2	2.4	2.5	2.4	2.6	
G152.0	2.6	2.7	2.7	2.7	2.3	2.5	2.6	2.5	2.6	
G153.0	2.7	2.8	2.8	2.7	2.3	2.6	2.6	2.6	2.7	
G154.0	2.7	2.8	2.8	2.8	2.3	2.6	2.6	2.6	2.7	
G155.0	2.7	2.9	2.9	2.8	2.4	2.6	2.8	2.7	2.7	
G156.0	2.8	2.9	2.9	2.9	2.4	2.7	2.8	2.7	2.8	
G157.0	2.8	2.9	3.0	2.9	2.5	2.7	2.9	2.8	2.8	
G158.0	2.8	3.0	3.0	2.9	2.5	2.8	2.9	2.7	2.8	
G159.0	2.9	3.0	3.1	2.9	2.6	2.8	2.9	2.8	2.9	
G160.0	2.9	3.1	3.1	3.0	2.6	2.9	3.0	2.9	2.9	
G161.0	3.0	3.0	3.2	3.0	2.7	2.9	3.1	2.9	3.0	
G162.0	3.0	3.1	3.1	3.0	2.8	3.0	3.1	3.0	3.0	
G163.0	3.1	3.1	3.2	3.1	2.8	3.0	3.2	3.1	3.1	
G164.0	3.1	3.2	3.2	3.1	2.9	3.1	3.2	3.1	3.1	
G165.0	3.2	3.2	3.2	3.2	2.9	3.1	3.3	3.1	3.2	
G166.0	3.2	3.3	3.3	3.2	3.0	3.2	3.3	3.2	3.2	
G167.0	3.3	3.3	3.3	3.3	3.0	3.2	3.3	3.3	3.3	
G168.0	3.3	3.3	3.4	3.2	3.1	3.2	3.3	3.3	3.3	
G169.0	3.3	3.3	3.4	3.3	3.1	3.3	3.4	3.3	3.3	
G170.0	3.3	3.3	3.4	3.3	3.1	3.3	3.4	3.3	3.3	
G171.0	3.4	3.4	3.4	3.3	3.1	3.3	3.5	3.4	3.4	
G172.0	3.4	3.4	3.4	3.4	3.2	3.4	3.5	3.4	3.4	
G173.0	3.5	3.4	3.4	3.4	3.2	3.6	3.5	3.4	3.5	
G174.0	3.4	3.4	3.4	3.4	3.2	3.5	3.5	3.5	3.4	
G175.0	3.5	3.5	3.4	3.5	3.2	3.4	3.5	3.5	3.5	
G176.0	3.5	3.5	3.5	3.4	3.2	3.5	3.5	3.5	3.5	
G177.0	3.5	3.4	3.5	3.5	3.3	3.5	3.5	3.5	3.5	
G178.0	3.5	3.4	3.5	3.5	3.3	3.5	3.6	3.5	3.5	
G179.0	3.5	3.5	3.5	3.5	3.4	3.6	3.6	3.6	3.5	
G180.0	3.6	3.5	3.5	3.5	3.3	3.5	0.8	3.5	3.6	

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.598 m
Humidity: 65
Inspector: