

Report No.: TH-1866A

Test Time: 2020/9/24 14:10

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: VMC31840

Luminous Width (mm): -585

Current: 0.385 A

Power Factor: 0.991

Luminous Length (mm): -585

Voltage: 120.0 V

Power: 45.79 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2785.9 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H105.9

Vertical Diffuse Angle(50%): V106.3

Luminaire Efficacy Rating (LER): 60.89

Max. Intensity: 1038.19 cd

S/MH(C0/C180): 1.21

Total Rated Lamp Lumens: 2785.9 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 1037.41 cd

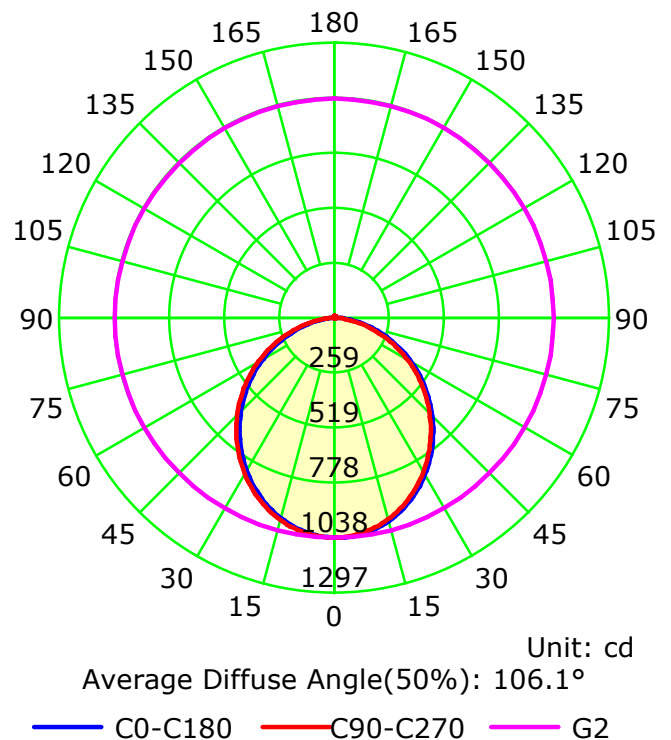
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 1.21

Picture Of Luminaire



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

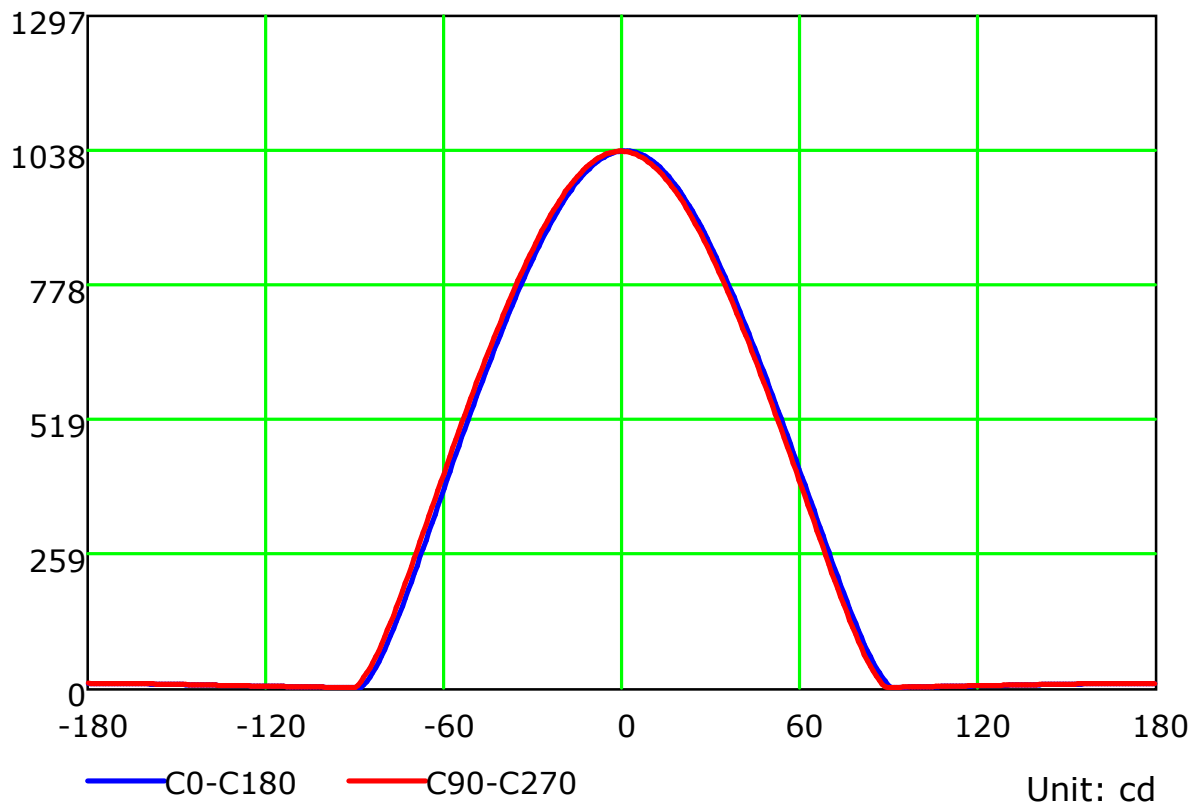
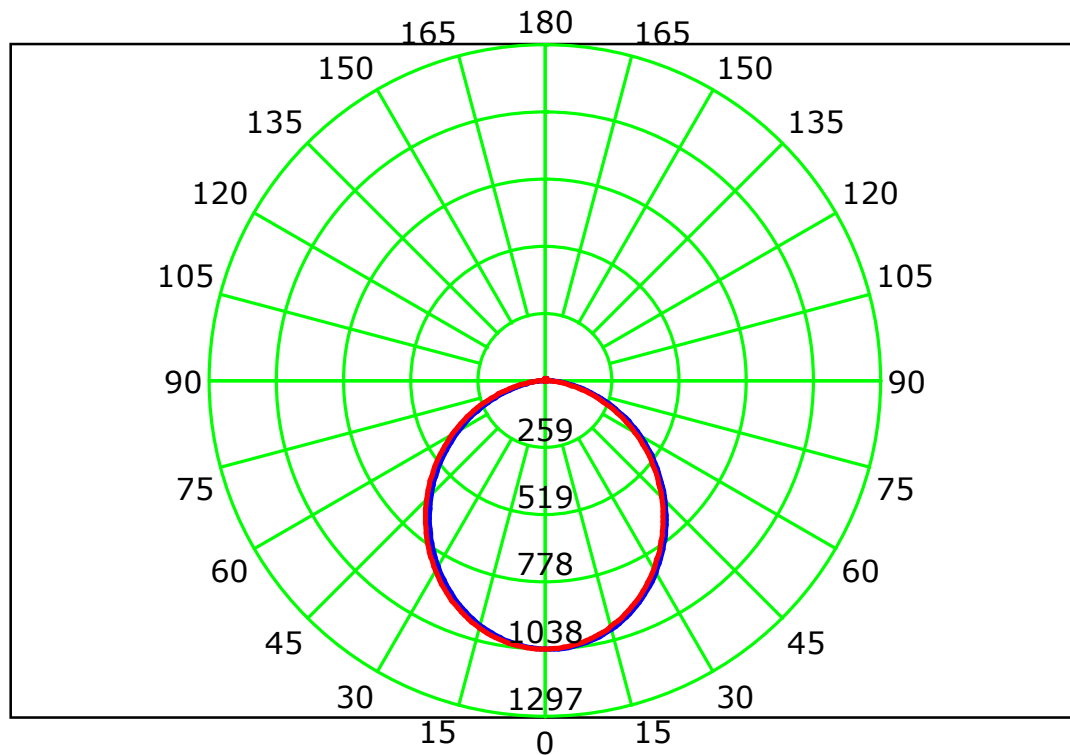
Test Device: GPM-1800B

Distance: 8.598 m

Humidity: 65

Inspector:

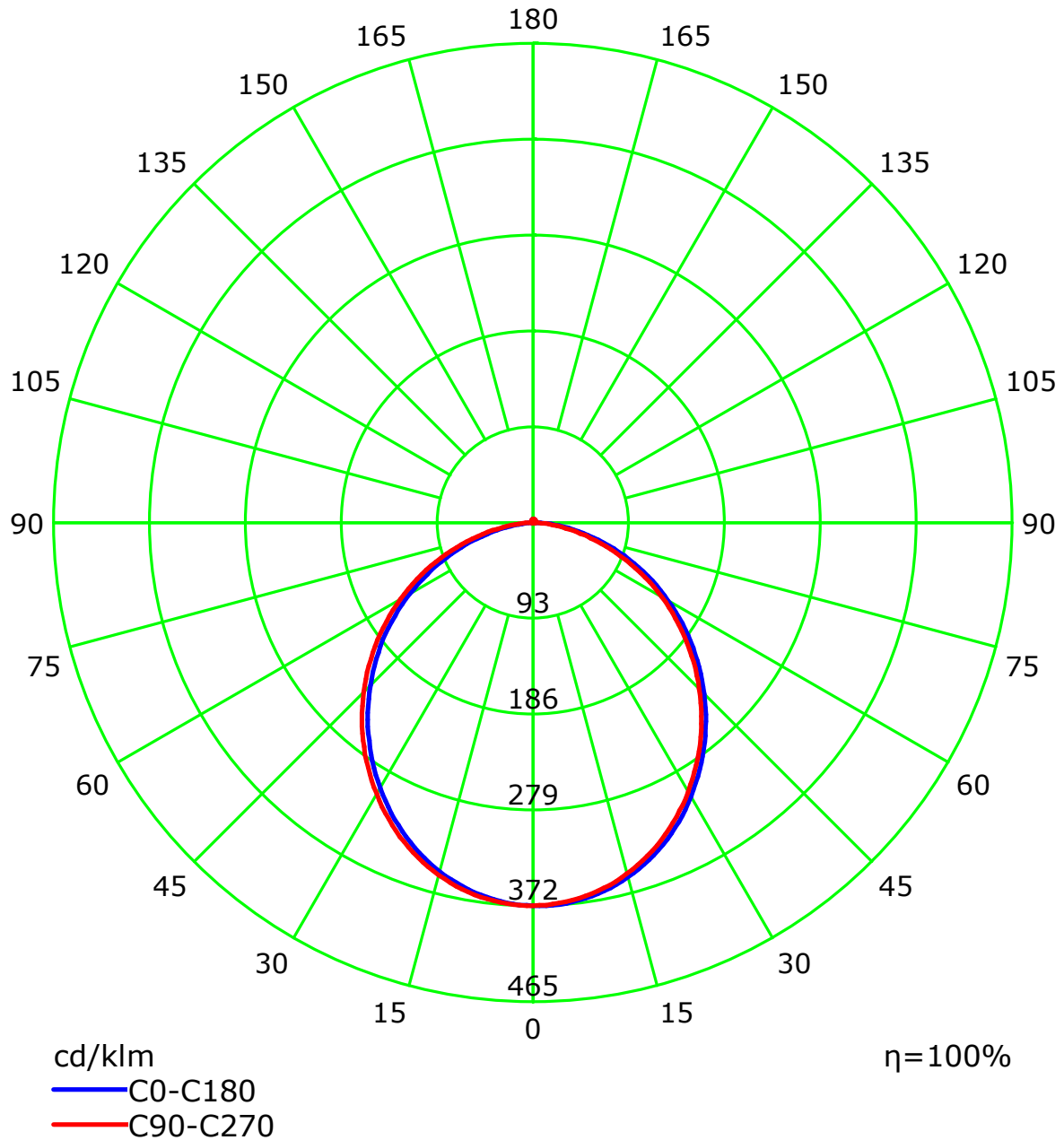
Luminous Intensity Distribution Curve



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)



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:

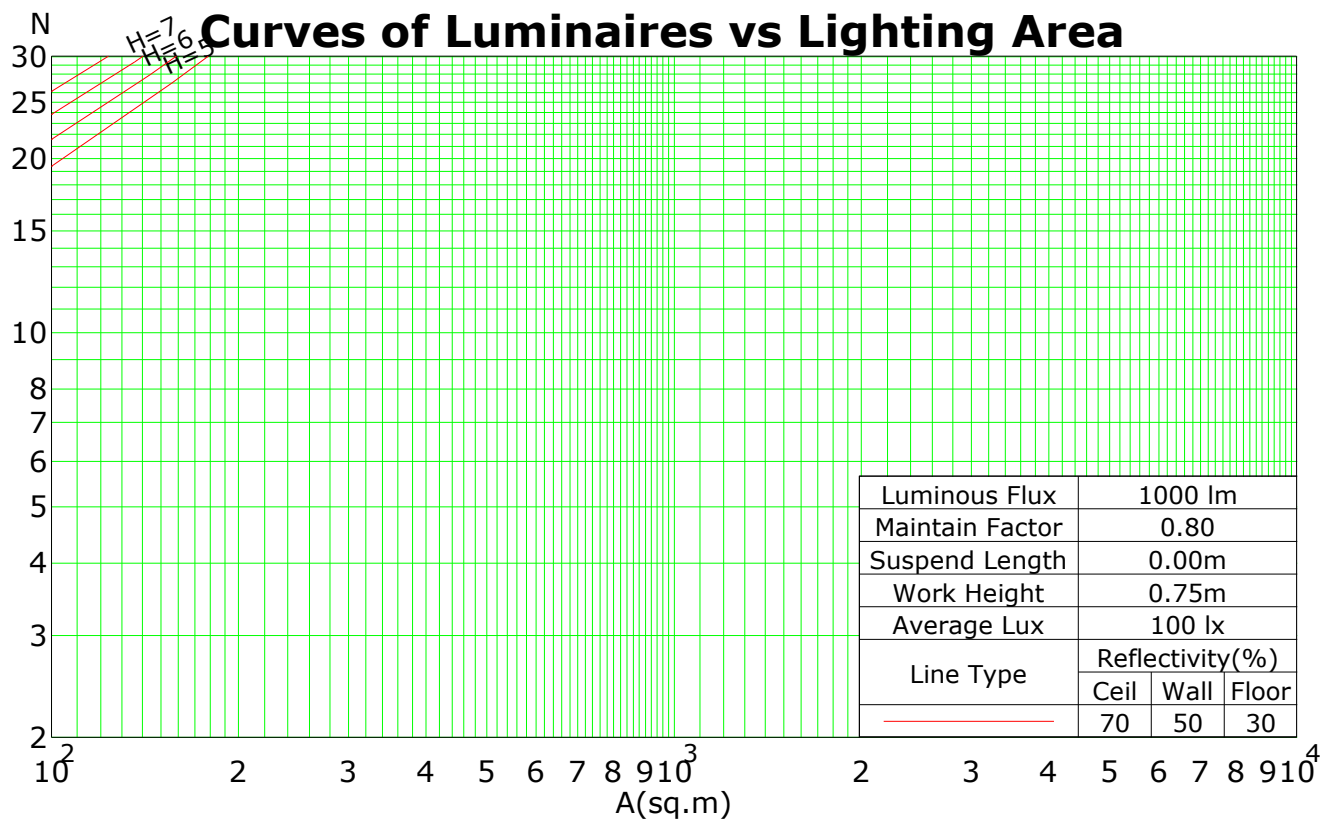
Coefficients Of Utilization - Zonal Cavity Method

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	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	80	70	62	55	67	60	54	65	58	54	62	57	53	50
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

Spacing Criteria (0-180): 1.21

Spacing Criteria (90-270): 1.21

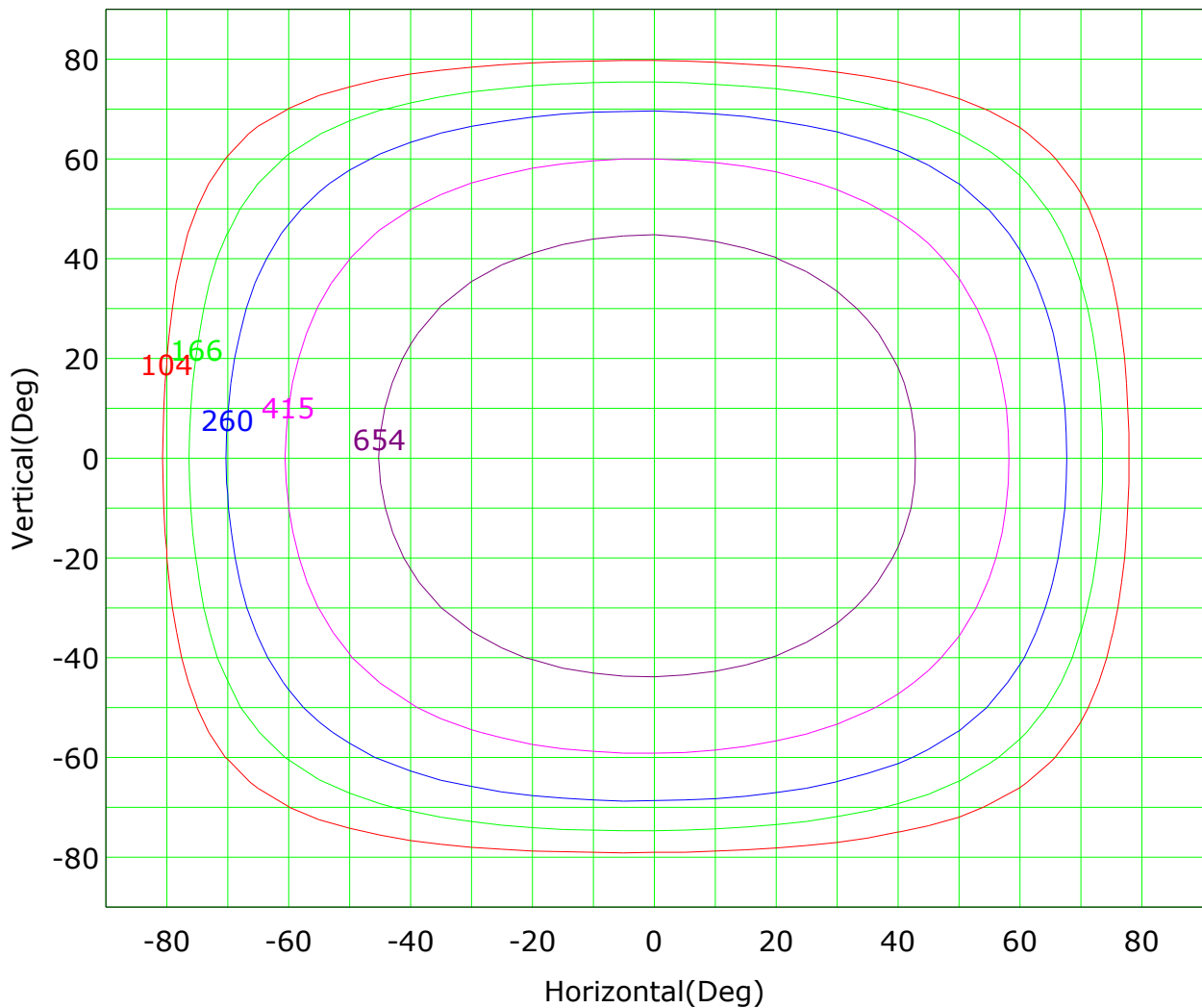
Spacing Criteria (Diagonal): 1.33



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)



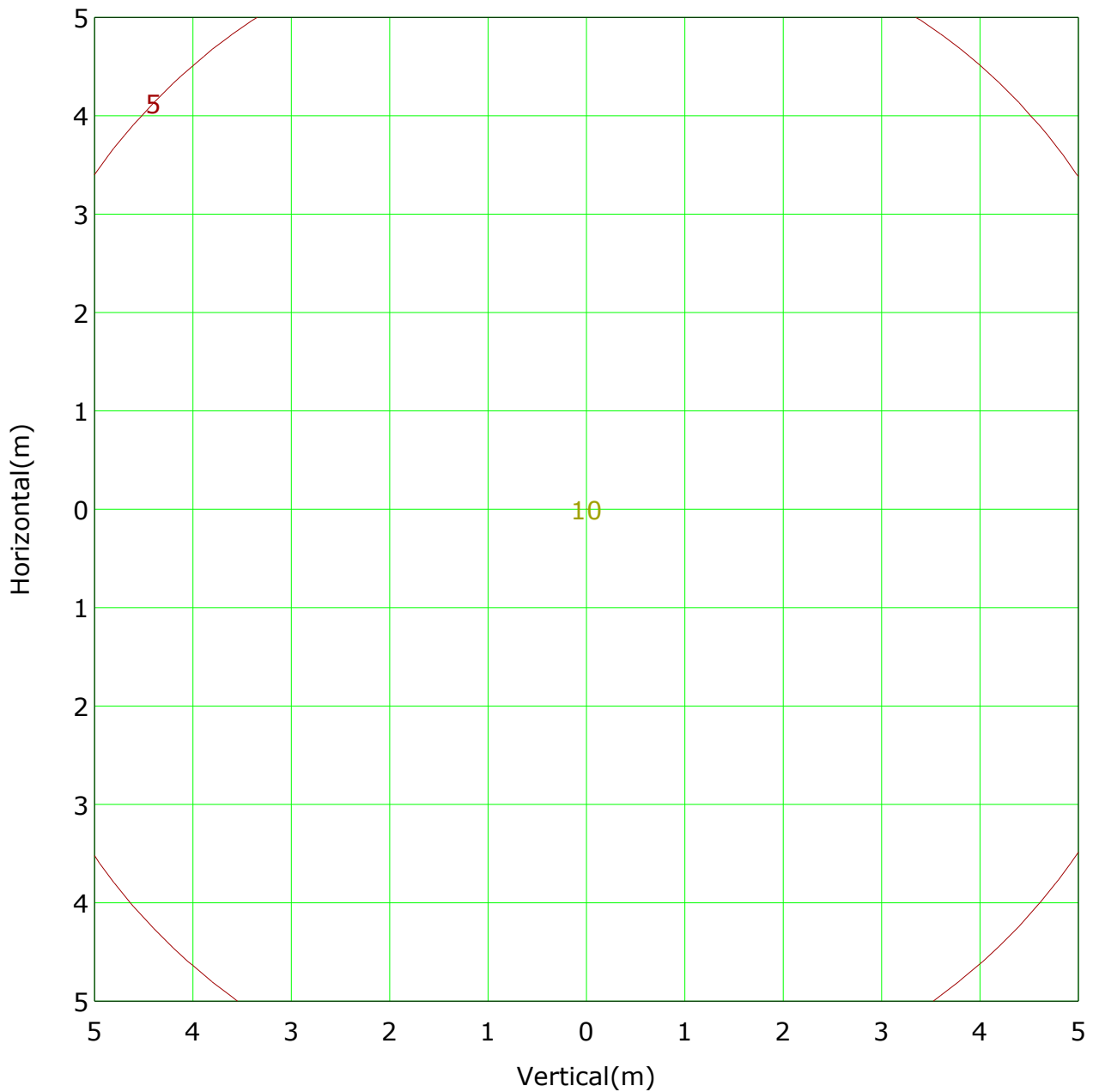
Imax (100%): 1038 cd

(10%): 104 cd	(16%): 166 cd
(25%): 260 cd	(40%): 415 cd
(63%): 654 cd	(100%): 1038 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



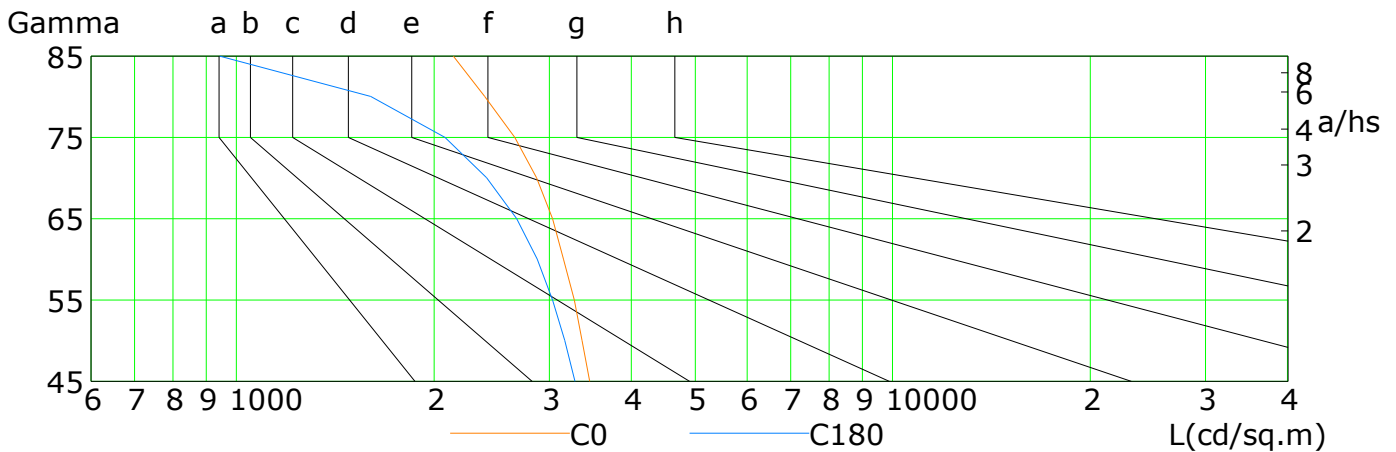
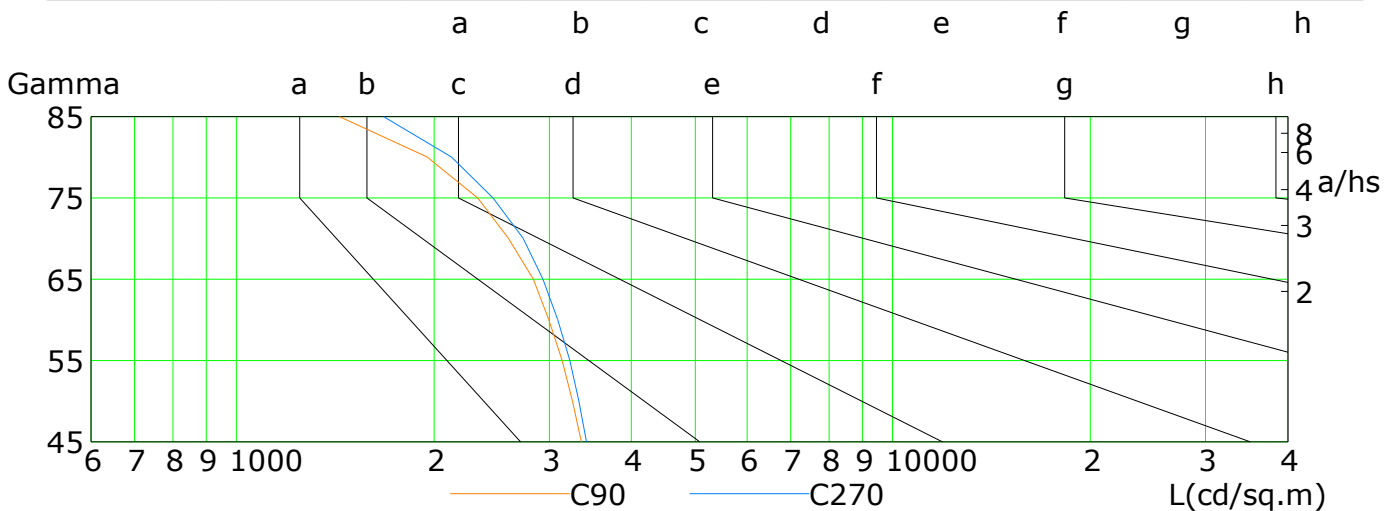
Mounting Height: 10.0m		Max Lux(100%): 10.4 lx	
— (5%):	0.5 lx	— (10%):	1.0 lx
— (15%):	1.6 lx	— (20%):	2.1 lx
— (25%):	2.6 lx	— (30%):	3.1 lx
— (35%):	3.6 lx	— (40%):	4.1 lx
— (50%):	5.2 lx	— (100%):	10.4 lx

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

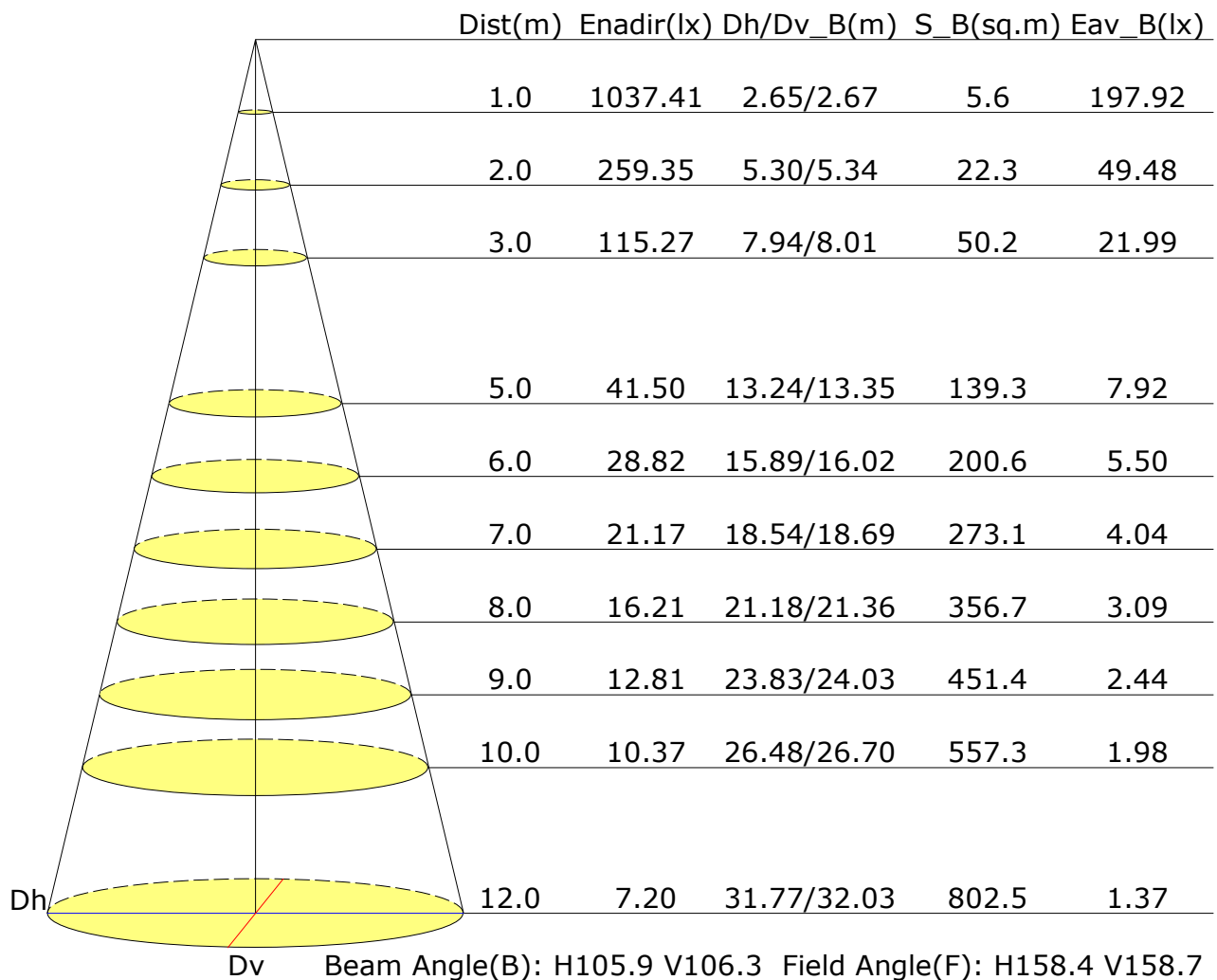


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3456	3362	3270	3151	3031	2867	2655	2392	2142
C90	3352	3252	3138	2992	2834	2600	2331	1953	1435
C180	3281	3168	3032	2877	2676	2408	2078	1602	943
C270	3420	3322	3223	3089	2931	2736	2464	2127	1676

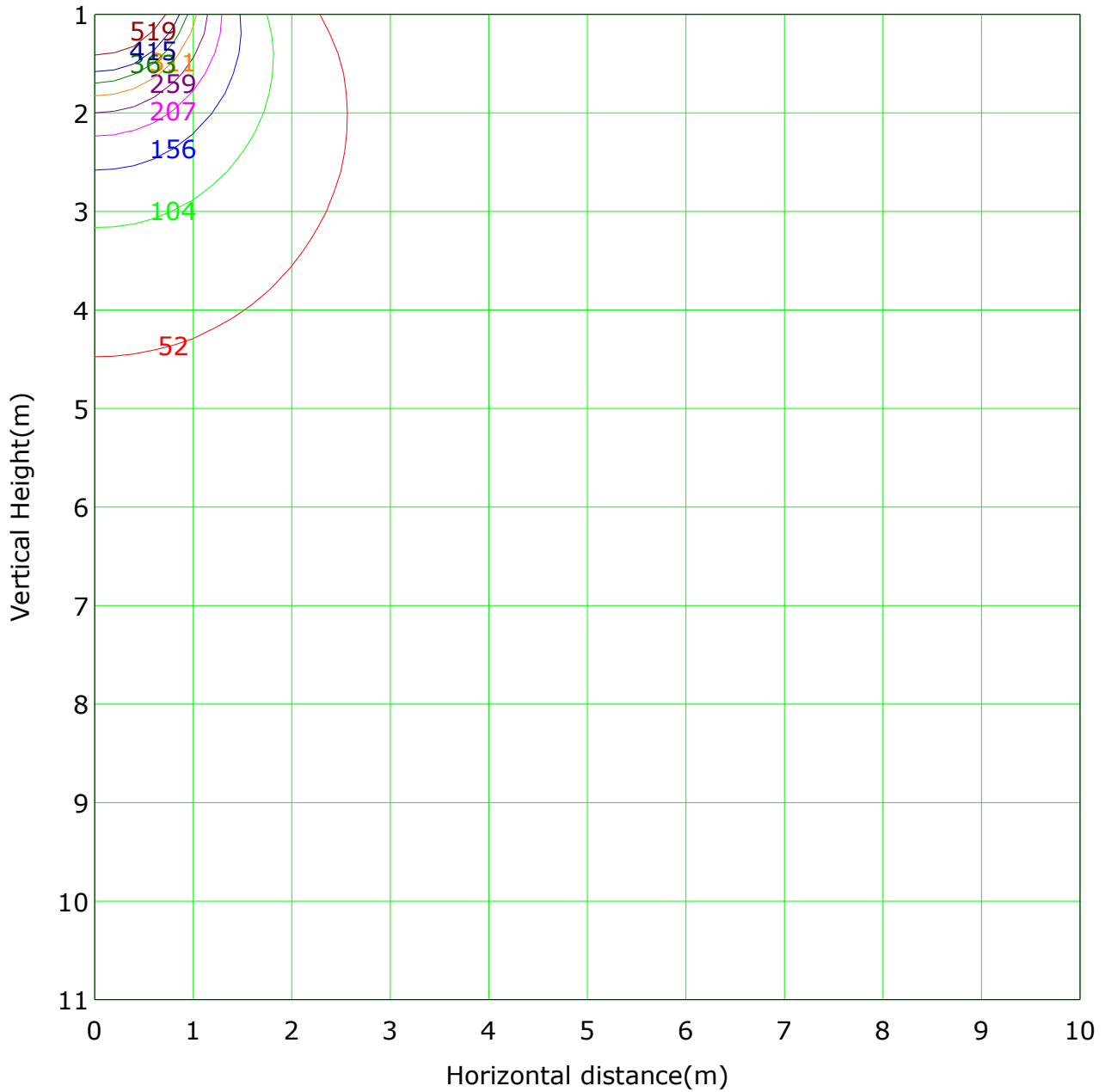
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

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

Illuminance at a Distance



Vertical IsoLux Plot

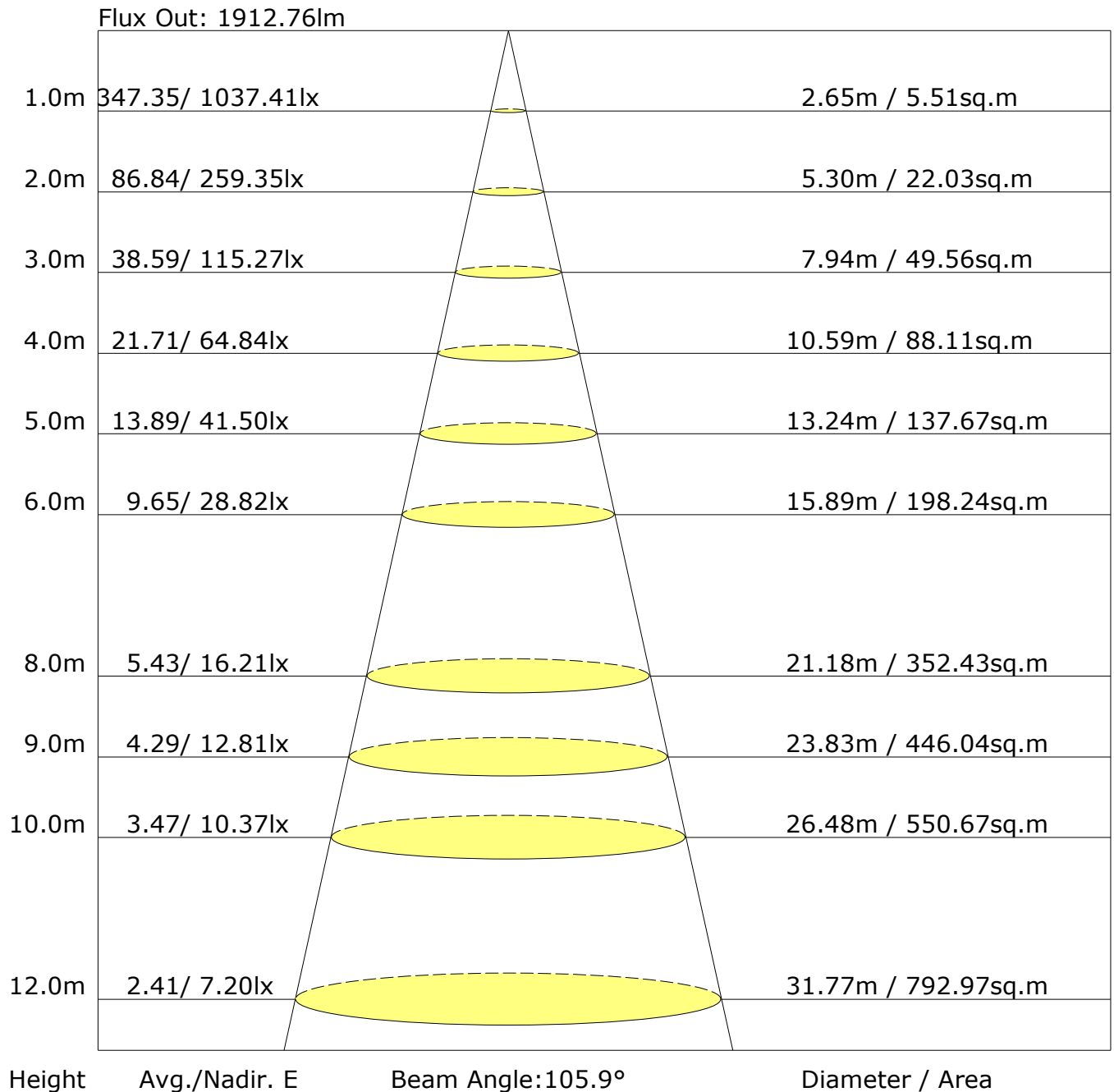


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 1037.4 lx
(5%): 51.9 lx	(10%): 103.7 lx	
(15%): 155.6 lx	(20%): 207.5 lx	
(25%): 259.4 lx	(30%): 311.2 lx	
(35%): 363.1 lx	(40%): 415.0 lx	
(50%): 518.7 lx	(100%):1037.4 lx	

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	16.7	18.0	17.0	18.3	18.6	16.6	17.9	16.9	18.2	18.4
3H	18.2	19.4	18.6	19.7	20.0	18.0	19.2	18.4	19.5	19.8
4H	18.8	20.0	19.2	20.3	20.6	18.6	19.7	18.9	20.0	20.4
6H	19.3	20.4	19.7	20.7	21.0	18.9	20.0	19.3	20.4	20.7
8H	19.4	20.5	19.8	20.8	21.2	19.0	20.1	19.4	20.4	20.8
12H	19.5	20.5	19.9	20.9	21.2	19.1	20.1	19.5	20.4	20.8
X=4H Y=2H	17.3	18.5	17.7	18.8	19.1	17.2	18.4	17.6	18.7	19.0
3H	19.0	20.0	19.4	20.4	20.8	18.9	19.9	19.3	20.2	20.6
4H	19.8	20.7	20.2	21.0	21.4	19.5	20.4	20.0	20.8	21.2
6H	20.3	21.1	20.8	21.5	22.0	20.0	20.8	20.5	21.2	21.7
8H	20.5	21.3	21.0	21.7	22.1	20.2	20.9	20.6	21.3	21.8
12H	20.7	21.3	21.2	21.8	22.2	20.3	20.9	20.7	21.4	21.8
X=8H Y=4H	20.0	20.8	20.5	21.2	21.6	19.8	20.6	20.3	21.0	21.4
6H	20.7	21.3	21.2	21.8	22.3	20.5	21.0	20.9	21.5	22.0
8H	21.0	21.5	21.5	22.0	22.5	20.7	21.2	21.2	21.7	22.2
12H	21.2	21.7	21.8	22.2	22.7	20.8	21.3	21.4	21.8	22.3
X=12H Y=4H	20.1	20.7	20.5	21.1	21.6	19.9	20.5	20.3	21.0	21.4
6H	20.8	21.3	21.3	21.8	22.3	20.5	21.0	21.0	21.5	22.0
8H	21.1	21.6	21.6	22.1	22.6	20.8	21.2	21.3	21.7	22.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.3/-0.5				
S=2.0H	+0.5/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 2786lm ($8\log(F/F_0) = 3.6$).

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1037.2	1.0	1.0	0.04	0.04
1.0-2.0	1036.7	3.0	4.0	0.11	0.14
2.0-3.0	1035.8	5.0	8.9	0.18	0.32
3.0-4.0	1034.3	6.9	15.8	0.25	0.57
4.0-5.0	1032.6	8.9	24.7	0.32	0.89
5.0-6.0	1030.3	10.8	35.6	0.39	1.28
6.0-7.0	1027.6	12.8	48.3	0.46	1.73
7.0-8.0	1024.3	14.7	63.0	0.53	2.26
8.0-9.0	1020.6	16.5	79.5	0.59	2.85
9.0-10.0	1016.4	18.4	97.9	0.66	3.51
10.0-11.0	1011.9	20.2	118.1	0.73	4.24
11.0-12.0	1007.1	22.0	140.2	0.79	5.03
12.0-13.0	1001.9	23.8	163.9	0.85	5.88
13.0-14.0	996.1	25.5	189.4	0.92	6.80
14.0-15.0	989.8	27.2	216.6	0.98	7.78
15.0-16.0	983.1	28.8	245.4	1.03	8.81
16.0-17.0	976.2	30.4	275.8	1.09	9.90
17.0-18.0	968.8	31.9	307.8	1.15	11.05
18.0-19.0	961.0	33.4	341.2	1.20	12.25
19.0-20.0	952.8	34.9	376.1	1.25	13.50
20.0-21.0	944.2	36.3	412.3	1.30	14.80
21.0-22.0	935.2	37.6	449.9	1.35	16.15
22.0-23.0	925.8	38.9	488.8	1.39	17.55
23.0-24.0	916.0	40.1	528.8	1.44	18.98
24.0-25.0	906.1	41.2	570.0	1.48	20.46
25.0-26.0	895.7	42.3	612.3	1.52	21.98
26.0-27.0	884.9	43.3	655.6	1.55	23.53
27.0-28.0	873.9	44.3	699.9	1.59	25.12
28.0-29.0	862.5	45.1	745.0	1.62	26.74
29.0-30.0	851.0	46.0	791.0	1.65	28.39
30.0-31.0	839.1	46.7	837.7	1.68	30.07
31.0-32.0	826.9	47.4	885.1	1.70	31.77
32.0-33.0	814.5	48.0	933.0	1.72	33.49
33.0-34.0	802.0	48.5	981.6	1.74	35.23
34.0-35.0	789.2	49.0	1030.6	1.76	36.99
35.0-36.0	776.2	49.4	1080.0	1.77	38.77

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	762.9	49.8	1129.8	1.79	40.55
37.0-38.0	749.1	50.0	1179.8	1.80	42.35
38.0-39.0	735.6	50.2	1230.0	1.80	44.15
39.0-40.0	721.8	50.3	1280.4	1.81	45.96
40.0-41.0	707.6	50.4	1330.8	1.81	47.77
41.0-42.0	693.4	50.4	1381.2	1.81	49.58
42.0-43.0	679.1	50.3	1431.5	1.81	51.38
43.0-44.0	664.4	50.2	1481.6	1.80	53.18
44.0-45.0	649.7	49.9	1531.5	1.79	54.98
45.0-46.0	634.9	49.7	1581.2	1.78	56.76
46.0-47.0	620.1	49.3	1630.5	1.77	58.53
47.0-48.0	605.0	48.9	1679.4	1.76	60.28
48.0-49.0	589.6	48.4	1727.9	1.74	62.02
49.0-50.0	574.3	47.9	1775.8	1.72	63.74
50.0-51.0	559.0	47.3	1823.1	1.70	65.44
51.0-52.0	543.5	46.6	1869.7	1.67	67.11
52.0-53.0	527.9	45.9	1915.6	1.65	68.76
53.0-54.0	512.1	45.1	1960.8	1.62	70.38
54.0-55.0	496.2	44.3	2005.1	1.59	71.97
55.0-56.0	480.2	43.4	2048.5	1.56	73.53
56.0-57.0	464.1	42.4	2090.9	1.52	75.05
57.0-58.0	448.1	41.4	2132.3	1.49	76.54
58.0-59.0	431.9	40.4	2172.7	1.45	77.99
59.0-60.0	415.6	39.3	2212.0	1.41	79.40
60.0-61.0	399.4	38.1	2250.1	1.37	80.77
61.0-62.0	383.2	36.9	2287.0	1.33	82.09
62.0-63.0	366.8	35.7	2322.7	1.28	83.37
63.0-64.0	350.5	34.4	2357.1	1.23	84.61
64.0-65.0	334.2	33.1	2390.2	1.19	85.80
65.0-66.0	317.5	31.7	2421.9	1.14	86.93
66.0-67.0	301.1	30.3	2452.2	1.09	88.02
67.0-68.0	284.9	28.9	2481.0	1.04	89.06
68.0-69.0	268.5	27.4	2508.4	0.98	90.04
69.0-70.0	252.3	25.9	2534.3	0.93	90.97
70.0-71.0	236.2	24.4	2558.8	0.88	91.85
71.0-72.0	220.1	22.9	2581.6	0.82	92.67

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	204.3	21.4	2603.0	0.77	93.44
73.0-74.0	188.6	19.8	2622.8	0.71	94.15
74.0-75.0	173.3	18.3	2641.1	0.66	94.80
75.0-76.0	158.2	16.8	2657.9	0.60	95.41
76.0-77.0	143.2	15.3	2673.2	0.55	95.96
77.0-78.0	128.5	13.8	2687.0	0.49	96.45
78.0-79.0	114.4	12.3	2699.3	0.44	96.89
79.0-80.0	100.8	10.9	2710.1	0.39	97.28
80.0-81.0	87.7	9.5	2719.6	0.34	97.62
81.0-82.0	75.1	8.2	2727.8	0.29	97.91
82.0-83.0	63.3	6.9	2734.7	0.25	98.16
83.0-84.0	52.2	5.7	2740.3	0.20	98.37
84.0-85.0	41.9	4.6	2744.9	0.16	98.53
85.0-86.0	32.4	3.5	2748.5	0.13	98.66
86.0-87.0	23.4	2.6	2751.0	0.09	98.75
87.0-88.0	15.2	1.7	2752.7	0.06	98.81
88.0-89.0	8.5	0.9	2753.6	0.03	98.84
89.0-90.0	4.1	0.5	2754.1	0.02	98.86
90.0-91.0	2.3	0.2	2754.3	0.01	98.87
91.0-92.0	1.9	0.2	2754.5	0.01	98.87
92.0-93.0	2.0	0.2	2754.7	0.01	98.88
93.0-94.0	2.1	0.2	2755.0	0.01	98.89
94.0-95.0	2.1	0.2	2755.2	0.01	98.90
95.0-96.0	2.2	0.2	2755.5	0.01	98.91
96.0-97.0	2.3	0.3	2755.7	0.01	98.92
97.0-98.0	2.4	0.3	2756.0	0.01	98.93
98.0-99.0	2.5	0.3	2756.2	0.01	98.94
99.0-100.0	2.6	0.3	2756.5	0.01	98.95
100.0-101.0	2.7	0.3	2756.8	0.01	98.96
101.0-102.0	2.8	0.3	2757.1	0.01	98.97
102.0-103.0	2.9	0.3	2757.4	0.01	98.98
103.0-104.0	3.0	0.3	2757.8	0.01	98.99
104.0-105.0	3.1	0.3	2758.1	0.01	99.00
105.0-106.0	3.3	0.3	2758.4	0.01	99.01
106.0-107.0	3.4	0.4	2758.8	0.01	99.03
107.0-108.0	3.5	0.4	2759.2	0.01	99.04

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 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	3.6	0.4	2759.5	0.01	99.05
109.0-110.0	3.7	0.4	2759.9	0.01	99.07
110.0-111.0	3.8	0.4	2760.3	0.01	99.08
111.0-112.0	3.9	0.4	2760.7	0.01	99.10
112.0-113.0	4.0	0.4	2761.1	0.01	99.11
113.0-114.0	4.1	0.4	2761.5	0.01	99.12
114.0-115.0	4.2	0.4	2761.9	0.01	99.14
115.0-116.0	4.3	0.4	2762.3	0.02	99.15
116.0-117.0	4.4	0.4	2762.8	0.02	99.17
117.0-118.0	4.5	0.4	2763.2	0.02	99.19
118.0-119.0	4.6	0.4	2763.6	0.02	99.20
119.0-120.0	4.7	0.4	2764.1	0.02	99.22
120.0-121.0	4.8	0.5	2764.5	0.02	99.23
121.0-122.0	4.9	0.5	2765.0	0.02	99.25
122.0-123.0	5.0	0.5	2765.5	0.02	99.27
123.0-124.0	5.1	0.5	2765.9	0.02	99.28
124.0-125.0	5.2	0.5	2766.4	0.02	99.30
125.0-126.0	5.3	0.5	2766.9	0.02	99.32
126.0-127.0	5.4	0.5	2767.4	0.02	99.33
127.0-128.0	5.6	0.5	2767.8	0.02	99.35
128.0-129.0	5.7	0.5	2768.3	0.02	99.37
129.0-130.0	5.8	0.5	2768.8	0.02	99.39
130.0-131.0	5.9	0.5	2769.3	0.02	99.40
131.0-132.0	6.0	0.5	2769.8	0.02	99.42
132.0-133.0	6.1	0.5	2770.3	0.02	99.44
133.0-134.0	6.2	0.5	2770.8	0.02	99.46
134.0-135.0	6.3	0.5	2771.3	0.02	99.48
135.0-136.0	6.4	0.5	2771.8	0.02	99.49
136.0-137.0	6.5	0.5	2772.3	0.02	99.51
137.0-138.0	6.7	0.5	2772.8	0.02	99.53
138.0-139.0	6.8	0.5	2773.3	0.02	99.55
139.0-140.0	6.9	0.5	2773.8	0.02	99.56
140.0-141.0	7.0	0.5	2774.2	0.02	99.58
141.0-142.0	7.1	0.5	2774.7	0.02	99.60
142.0-143.0	7.2	0.5	2775.2	0.02	99.62
143.0-144.0	7.3	0.5	2775.7	0.02	99.63

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	7.4	0.5	2776.2	0.02	99.65
145.0-146.0	7.5	0.5	2776.6	0.02	99.67
146.0-147.0	7.6	0.5	2777.1	0.02	99.68
147.0-148.0	7.8	0.5	2777.5	0.02	99.70
148.0-149.0	7.9	0.5	2778.0	0.02	99.72
149.0-150.0	8.0	0.4	2778.4	0.02	99.73
150.0-151.0	8.1	0.4	2778.9	0.02	99.75
151.0-152.0	8.2	0.4	2779.3	0.02	99.76
152.0-153.0	8.3	0.4	2779.7	0.02	99.78
153.0-154.0	8.4	0.4	2780.1	0.01	99.79
154.0-155.0	8.5	0.4	2780.5	0.01	99.81
155.0-156.0	8.6	0.4	2780.9	0.01	99.82
156.0-157.0	8.6	0.4	2781.3	0.01	99.84
157.0-158.0	8.7	0.4	2781.7	0.01	99.85
158.0-159.0	8.8	0.4	2782.0	0.01	99.86
159.0-160.0	8.9	0.3	2782.4	0.01	99.87
160.0-161.0	9.0	0.3	2782.7	0.01	99.89
161.0-162.0	9.0	0.3	2783.0	0.01	99.90
162.0-163.0	9.1	0.3	2783.3	0.01	99.91
163.0-164.0	9.2	0.3	2783.6	0.01	99.92
164.0-165.0	9.2	0.3	2783.9	0.01	99.93
165.0-166.0	9.3	0.3	2784.1	0.01	99.94
166.0-167.0	9.3	0.2	2784.4	0.01	99.94
167.0-168.0	9.4	0.2	2784.6	0.01	99.95
168.0-169.0	9.4	0.2	2784.8	0.01	99.96
169.0-170.0	9.5	0.2	2785.0	0.01	99.97
170.0-171.0	9.5	0.2	2785.1	0.01	99.97
171.0-172.0	9.6	0.2	2785.3	0.01	99.98
172.0-173.0	9.6	0.1	2785.4	0.00	99.98
173.0-174.0	9.6	0.1	2785.6	0.00	99.99
174.0-175.0	9.7	0.1	2785.7	0.00	99.99
175.0-176.0	9.7	0.1	2785.7	0.00	99.99
176.0-177.0	9.7	0.1	2785.8	0.00	100.00
177.0-178.0	9.7	0.0	2785.9	0.00	100.00
178.0-179.0	9.8	0.0	2785.9	0.00	100.00
179.0-180.0	9.8	0.0	2785.9	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	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	1037.4	
G1.0	1037.7	1037.6	1036.4	1036.8	1036.5	1036.9	1037.3	1037.1	1037.7	
G2.0	1038.2	1037.1	1035.8	1035.9	1035.8	1035.3	1036.8	1036.4	1038.2	
G3.0	1037.6	1035.9	1034.7	1034.4	1033.9	1033.8	1035.2	1035.5	1037.6	
G4.0	1036.5	1034.6	1032.9	1032.6	1031.9	1031.8	1033.7	1034.4	1036.5	
G5.0	1035.1	1032.9	1031.0	1030.2	1028.8	1029.9	1032.1	1033.1	1035.1	
G6.0	1032.4	1030.7	1028.3	1027.5	1025.8	1027.2	1029.8	1030.8	1032.4	
G7.0	1030.1	1028.1	1024.8	1024.3	1022.3	1023.9	1027.0	1028.1	1030.1	
G8.0	1027.3	1024.8	1021.4	1020.8	1018.3	1020.4	1023.7	1024.2	1027.3	
G9.0	1023.8	1021.3	1016.7	1016.0	1014.1	1015.5	1020.0	1020.6	1023.8	
G10.0	1020.2	1017.5	1012.5	1011.8	1008.5	1011.0	1015.7	1016.6	1020.2	
G11.0	1016.0	1013.2	1007.7	1007.0	1003.3	1006.1	1011.2	1012.1	1016.0	
G12.0	1011.2	1008.4	1002.8	1001.8	997.8	1000.8	1006.4	1007.5	1011.2	
G13.0	1006.3	1003.4	997.2	996.0	991.8	995.3	1001.0	1002.0	1006.3	
G14.0	1001.0	996.8	991.3	990.0	985.5	990.0	994.2	996.5	1001.0	
G15.0	993.9	990.8	983.5	983.5	978.6	982.8	988.0	990.5	993.9	
G16.0	987.6	984.3	976.7	976.7	971.4	975.8	981.3	984.1	987.6	
G17.0	980.9	977.6	969.7	969.6	962.5	968.6	974.5	977.5	980.9	
G18.0	973.6	970.3	962.3	960.8	954.5	960.9	967.1	970.2	973.6	
G19.0	966.2	962.7	954.1	952.8	945.8	952.0	959.4	962.6	966.2	
G20.0	958.2	955.0	945.7	944.8	937.0	943.6	950.1	954.5	958.2	
G21.0	949.0	945.6	937.1	935.6	927.8	934.8	941.7	946.2	949.0	
G22.0	940.5	937.1	927.3	926.7	918.3	925.7	932.9	937.3	940.5	
G23.0	931.5	927.0	917.9	916.5	907.7	915.6	923.8	927.6	931.5	
G24.0	921.5	917.8	907.1	906.9	897.6	905.9	913.5	918.4	921.5	
G25.0	911.8	907.6	897.0	896.9	887.2	895.9	903.8	908.6	911.8	
G26.0	901.2	897.6	886.9	885.1	876.5	885.4	893.0	897.2	901.2	
G27.0	890.9	887.3	875.6	874.5	864.3	873.3	882.6	886.9	890.9	
G28.0	880.3	874.9	864.5	862.9	853.2	862.3	872.3	876.4	880.3	
G29.0	867.7	863.7	853.2	851.5	841.7	851.1	859.9	865.1	867.7	
G30.0	856.6	852.4	841.7	839.8	829.8	839.4	848.6	853.6	856.6	
G31.0	844.6	840.1	828.5	828.0	817.1	826.9	836.9	842.3	844.6	
G32.0	831.9	828.7	815.9	814.8	804.9	814.8	824.7	830.5	831.9	
G33.0	820.1	815.5	803.9	802.5	792.3	802.5	812.5	817.0	820.1	
G34.0	806.9	803.4	791.7	788.9	779.6	790.0	800.4	804.7	806.9	
G35.0	794.7	789.5	777.9	776.2	766.6	777.2	787.9	792.2	794.7	
G36.0	782.1	777.0	765.1	762.4	753.5	762.9	775.2	779.5	782.1	

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	768.4	763.1	752.1	749.3	738.5	749.7	760.6	766.6	768.4	
G38.0	755.2	749.9	737.2	734.1	725.1	736.4	747.6	752.5	755.2	
G39.0	742.2	736.5	723.8	720.5	711.5	723.0	734.5	739.4	742.2	
G40.0	727.1	721.2	710.3	706.9	696.5	707.8	721.1	725.9	727.1	
G41.0	713.6	707.7	695.5	692.0	682.6	694.1	706.2	712.4	713.6	
G42.0	699.8	693.6	681.4	677.8	668.4	680.0	692.4	697.2	699.8	
G43.0	684.9	678.6	667.5	661.9	654.0	665.8	678.4	683.2	684.9	
G44.0	670.9	664.4	651.5	647.7	638.2	650.4	664.3	669.1	670.9	
G45.0	656.8	648.7	637.1	631.7	623.5	635.8	650.0	654.8	656.8	
G46.0	641.0	634.4	622.6	617.2	608.8	621.4	634.3	640.4	641.0	
G47.0	626.5	619.6	606.6	602.4	594.1	606.6	619.9	625.8	626.5	
G48.0	611.9	603.4	591.9	586.4	579.1	590.0	605.3	609.6	611.9	
G49.0	595.8	588.5	577.0	571.4	562.5	575.1	590.6	594.9	595.8	
G50.0	580.8	573.5	561.9	556.2	547.3	560.1	574.0	580.1	580.8	
G51.0	565.9	558.4	545.3	540.9	532.1	543.8	559.1	564.0	565.9	
G52.0	550.9	541.9	530.0	525.5	516.9	528.5	544.0	548.8	550.9	
G53.0	534.6	526.6	514.6	508.4	500.3	513.3	527.7	533.7	534.6	
G54.0	519.4	511.3	499.2	492.9	484.7	497.7	512.3	516.6	519.4	
G55.0	504.1	494.2	483.8	477.2	467.4	480.7	496.9	501.3	504.1	
G56.0	488.9	478.7	466.6	460.4	451.7	465.0	479.8	485.8	488.9	
G57.0	471.5	463.2	450.8	444.7	435.8	449.3	464.1	470.0	471.5	
G58.0	456.0	447.5	435.0	429.0	418.6	431.8	448.5	453.0	456.0	
G59.0	440.5	430.4	419.3	413.2	402.6	415.9	431.1	437.3	440.5	
G60.0	423.5	414.7	402.1	395.6	386.6	400.0	415.2	421.4	423.5	
G61.0	407.8	398.8	386.2	379.6	369.3	384.2	399.4	405.6	407.8	
G62.0	391.9	382.9	370.2	363.6	353.4	367.0	382.3	388.4	391.9	
G63.0	376.1	365.3	354.1	347.6	335.8	351.1	366.4	372.5	376.1	
G64.0	360.3	349.3	338.1	329.9	319.8	335.2	350.5	356.7	360.3	
G65.0	344.3	333.2	321.9	313.8	304.0	317.6	332.9	339.1	344.3	
G66.0	326.7	317.1	304.1	297.7	286.5	301.5	316.8	323.1	326.7	
G67.0	310.8	299.6	288.1	281.7	270.6	285.6	300.9	307.2	310.8	
G68.0	295.1	283.7	272.3	266.0	254.7	268.3	283.5	289.8	295.1	
G69.0	279.2	267.8	256.3	248.6	237.0	252.3	267.5	273.7	279.2	
G70.0	263.5	252.1	239.0	232.9	221.3	236.5	251.6	257.8	263.5	
G71.0	246.3	236.4	223.4	217.3	205.7	219.2	235.7	240.3	246.3	
G72.0	230.8	219.4	207.8	201.9	190.5	203.8	218.6	224.6	230.8	
G73.0	215.2	203.8	192.4	184.9	174.0	188.5	203.2	209.2	215.2	

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	199.8	188.5	177.1	169.8	159.1	171.9	187.9	192.4	199.8	
G75.0	184.7	173.5	162.2	155.0	144.6	157.2	171.4	177.3	184.7	
G76.0	168.2	158.5	147.4	140.4	128.9	142.7	156.6	162.3	168.2	
G77.0	153.6	144.0	131.7	126.4	115.2	127.3	140.8	146.4	153.6	
G78.0	139.1	129.8	117.7	111.3	101.6	113.3	126.4	131.9	139.1	
G79.0	125.2	114.7	104.1	98.0	87.2	99.9	112.6	117.9	125.2	
G80.0	111.6	101.5	91.1	85.3	74.7	86.0	99.3	103.0	111.6	
G81.0	98.4	88.9	78.5	73.1	62.7	73.7	84.9	90.1	98.4	
G82.0	84.4	76.9	65.3	60.8	51.5	62.4	72.5	78.2	84.4	
G83.0	72.2	65.4	54.0	50.4	40.0	51.7	60.8	66.9	72.2	
G84.0	60.6	53.6	43.2	40.5	30.7	41.8	49.1	55.1	60.6	
G85.0	50.2	43.5	33.6	31.2	22.1	31.5	39.3	45.0	50.2	
G86.0	39.4	33.9	24.7	22.4	13.4	22.7	30.0	35.3	39.4	
G87.0	30.3	25.0	15.7	14.3	6.4	14.6	21.3	25.3	30.3	
G88.0	21.7	16.7	8.3	6.5	1.5	6.7	12.5	17.0	21.7	
G89.0	13.9	8.6	2.6	2.1	1.4	1.6	5.5	9.5	13.9	
G90.0	6.9	2.9	2.0	2.2	1.5	1.6	1.6	2.6	6.9	
G91.0	2.1	2.2	2.1	2.2	1.5	1.6	1.6	1.6	2.1	
G92.0	2.0	2.3	2.2	2.3	1.6	1.7	1.7	1.6	2.0	
G93.0	2.2	2.3	2.3	2.4	1.7	1.8	1.7	1.7	2.2	
G94.0	2.2	2.5	2.4	2.5	1.8	1.9	1.8	1.7	2.2	
G95.0	2.3	2.5	2.5	2.6	1.8	2.0	1.9	1.8	2.3	
G96.0	2.5	2.6	2.6	2.6	2.0	2.1	2.0	1.9	2.5	
G97.0	2.5	2.7	2.7	2.7	2.1	2.2	2.1	2.0	2.5	
G98.0	2.7	2.8	2.8	2.8	2.2	2.2	2.2	2.1	2.7	
G99.0	2.8	2.9	3.0	2.9	2.3	2.3	2.3	2.2	2.8	
G100.0	2.8	3.0	3.0	3.0	2.3	2.4	2.4	2.3	2.8	
G101.0	3.0	3.1	3.2	3.1	2.5	2.5	2.5	2.4	3.0	
G102.0	3.1	3.2	3.3	3.2	2.5	2.6	2.6	2.5	3.1	
G103.0	3.2	3.3	3.4	3.4	2.6	2.7	2.7	2.6	3.2	
G104.0	3.3	3.4	3.5	3.5	2.7	2.8	2.8	2.7	3.3	
G105.0	3.4	3.5	3.6	3.6	2.8	2.9	2.9	2.8	3.4	
G106.0	3.6	3.7	3.7	3.7	3.0	3.0	3.0	2.9	3.6	
G107.0	3.6	3.8	3.9	3.8	3.0	3.1	3.1	2.9	3.6	
G108.0	3.8	3.9	4.0	3.9	3.1	3.2	3.2	3.0	3.8	
G109.0	3.8	4.0	4.1	4.0	3.2	3.3	3.3	3.1	3.8	
G110.0	4.0	4.1	4.2	4.2	3.3	3.3	3.4	3.2	4.0	

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	4.1	4.2	4.3	4.2	3.4	3.4	3.5	3.4	4.1	
G112.0	4.2	4.3	4.3	4.3	3.6	3.5	3.6	3.4	4.2	
G113.0	4.3	4.4	4.5	4.5	3.6	3.7	3.7	3.5	4.3	
G114.0	4.4	4.5	4.6	4.6	3.7	3.8	3.7	3.5	4.4	
G115.0	4.5	4.7	4.7	4.7	3.8	3.8	3.9	3.7	4.5	
G116.0	4.6	4.8	4.8	4.8	3.9	3.9	4.0	3.8	4.6	
G117.0	4.7	4.9	5.0	4.8	4.0	4.0	4.0	3.9	4.7	
G118.0	4.8	5.0	5.0	5.0	4.1	4.1	4.2	4.0	4.8	
G119.0	4.9	5.1	5.2	5.1	4.2	4.2	4.2	4.1	4.9	
G120.0	5.1	5.2	5.3	5.2	4.3	4.3	4.3	4.2	5.1	
G121.0	5.2	5.3	5.4	5.3	4.4	4.4	4.4	4.3	5.2	
G122.0	5.3	5.4	5.5	5.4	4.5	4.5	4.5	4.4	5.3	
G123.0	5.4	5.5	5.6	5.5	4.6	4.7	4.6	4.5	5.4	
G124.0	5.5	5.6	5.7	5.6	4.8	4.8	4.8	4.6	5.5	
G125.0	5.6	5.8	5.8	5.8	4.9	4.8	4.9	4.7	5.6	
G126.0	5.7	5.9	5.9	5.9	5.0	5.0	5.0	4.8	5.7	
G127.0	5.8	6.0	6.0	6.0	5.1	5.1	5.1	5.0	5.8	
G128.0	6.0	6.1	6.1	6.1	5.2	5.2	5.2	5.1	6.0	
G129.0	6.1	6.2	6.2	6.2	5.3	5.3	5.3	5.2	6.1	
G130.0	6.2	6.3	6.3	6.3	5.4	5.4	5.4	5.3	6.2	
G131.0	6.3	6.4	6.5	6.4	5.5	5.5	5.6	5.4	6.3	
G132.0	6.5	6.5	6.6	6.5	5.6	5.6	5.7	5.5	6.5	
G133.0	6.5	6.6	6.6	6.6	5.7	5.7	5.8	5.6	6.5	
G134.0	6.6	6.8	6.8	6.8	5.8	5.8	5.9	5.8	6.6	
G135.0	6.7	6.9	6.9	6.8	5.9	5.9	6.0	5.9	6.7	
G136.0	6.8	6.9	6.9	7.0	6.1	6.1	6.1	6.0	6.8	
G137.0	6.9	7.1	7.1	7.1	6.2	6.2	6.3	6.1	6.9	
G138.0	7.0	7.2	7.2	7.2	6.3	6.3	6.4	6.2	7.0	
G139.0	7.1	7.3	7.3	7.3	6.4	6.4	6.5	6.4	7.1	
G140.0	7.2	7.4	7.4	7.4	6.6	6.6	6.6	6.5	7.2	
G141.0	7.3	7.4	7.5	7.4	6.7	6.7	6.7	6.6	7.3	
G142.0	7.4	7.6	7.6	7.6	6.8	6.8	6.8	6.8	7.4	
G143.0	7.5	7.6	7.7	7.7	6.9	6.9	6.9	6.8	7.5	
G144.0	7.6	7.8	7.8	7.8	7.0	7.1	7.1	7.0	7.6	
G145.0	7.7	7.8	7.9	7.9	7.1	7.2	7.2	7.1	7.7	
G146.0	7.8	7.9	8.0	7.9	7.2	7.3	7.3	7.2	7.8	
G147.0	7.9	8.1	8.1	8.0	7.4	7.4	7.4	7.3	7.9	

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	8.0	8.1	8.2	8.1	7.5	7.5	7.5	7.5	8.0	
G149.0	8.1	8.2	8.3	8.2	7.6	7.7	7.7	7.6	8.1	
G150.0	8.2	8.3	8.4	8.3	7.7	7.8	7.8	7.7	8.2	
G151.0	8.3	8.4	8.4	8.4	7.8	7.9	7.9	7.8	8.3	
G152.0	8.4	8.5	8.5	8.4	8.0	8.0	8.1	7.9	8.4	
G153.0	8.5	8.6	8.6	8.6	8.1	8.1	8.3	8.0	8.5	
G154.0	8.6	8.7	8.7	8.6	8.1	8.3	8.3	8.1	8.6	
G155.0	8.6	8.7	8.7	8.7	8.2	8.3	8.4	8.3	8.6	
G156.0	8.7	8.8	8.8	8.8	8.4	8.4	8.5	8.4	8.7	
G157.0	8.8	8.9	8.9	8.9	8.5	8.5	8.6	8.5	8.8	
G158.0	8.8	9.0	9.0	8.9	8.6	8.6	8.7	8.6	8.8	
G159.0	8.9	9.1	9.1	9.0	8.6	8.7	8.7	8.5	8.9	
G160.0	9.0	9.1	9.1	9.1	8.7	8.8	8.8	8.7	9.0	
G161.0	9.1	9.2	9.2	9.2	8.8	8.9	8.9	8.8	9.1	
G162.0	9.2	9.3	9.3	9.2	8.9	9.0	9.0	8.9	9.2	
G163.0	9.2	9.3	9.3	9.2	8.9	9.1	9.0	9.0	9.2	
G164.0	9.2	9.4	9.4	9.3	9.0	9.1	9.1	9.1	9.2	
G165.0	9.3	9.4	9.4	9.3	9.1	9.1	9.2	9.1	9.3	
G166.0	9.4	9.5	9.4	9.4	9.1	9.1	9.3	9.1	9.4	
G167.0	9.4	9.5	9.5	9.4	9.2	9.2	9.3	9.2	9.4	
G168.0	9.4	9.6	9.6	9.5	9.2	9.3	9.4	9.3	9.4	
G169.0	9.5	9.6	9.6	9.5	9.3	9.4	9.4	9.3	9.5	
G170.0	9.5	9.6	9.6	9.6	9.4	9.4	9.5	9.4	9.5	
G171.0	9.6	9.7	9.6	9.6	9.4	9.5	9.5	9.4	9.6	
G172.0	9.6	9.7	9.7	9.6	9.5	9.5	9.6	9.5	9.6	
G173.0	9.6	9.7	9.7	9.6	9.5	9.6	9.6	9.5	9.6	
G174.0	9.7	9.7	9.7	9.6	9.6	9.6	9.7	9.6	9.7	
G175.0	9.7	9.8	9.8	9.7	9.6	9.6	9.7	9.6	9.7	
G176.0	9.8	9.8	9.8	9.7	9.6	9.6	9.7	9.6	9.8	
G177.0	9.8	9.8	9.8	9.7	9.7	9.6	9.8	9.7	9.8	
G178.0	9.8	9.8	9.8	9.7	9.7	9.7	9.8	9.7	9.8	
G179.0	9.8	9.8	9.9	9.8	9.8	9.7	9.8	9.7	9.8	
G180.0	9.8	9.8	9.9	9.7	9.7	9.7	9.9	9.7	9.8	

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: