

Report No.: 3

Test Time: 2017/12/20 14:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: WANT-ECOUFFO-100 Voltage: 220 V
 Current: 0.458 A Power: 98.53 W
 Power Factor: 0.979

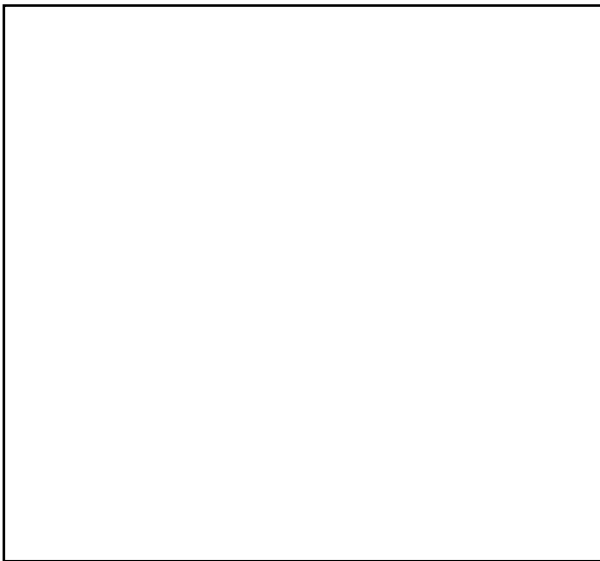
Photometric Results

CIE Class: Direct
 Measurement Flux: 8817.3 lm
 Downward Ratio: 99%
 Horizontal Diffuse Angle(50%): H57.4
 Vertical Diffuse Angle(50%): V57.9
 Luminaire Efficacy Rating (LER): 89.54
 Max. Intensity: 6853.05 cd
 S/MH(C0/C180): 0.85

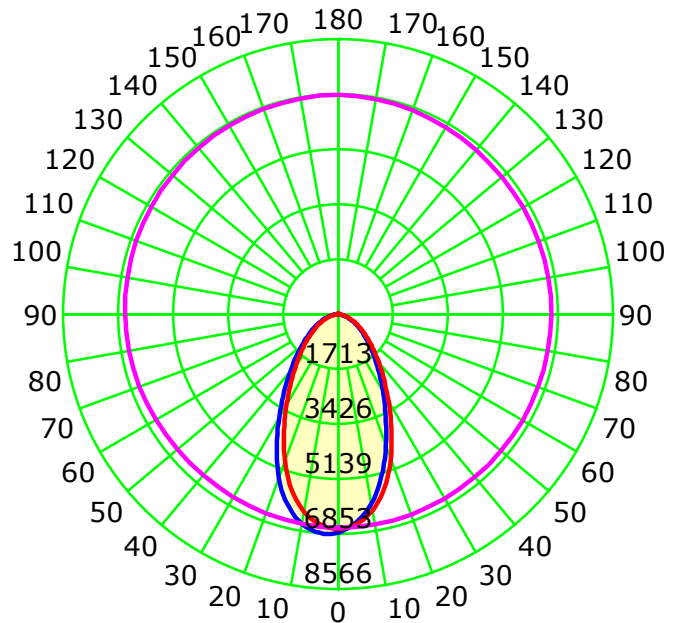
Total Rated Lamp Lumens: 8817.3 lm
 Efficiency: 100%
 Upward Ratio: 1%

Central Intensity: 6794.81 cd
 Pos of Max. Intensity: H180 V3
 S/MH(C90/C270): 0.85

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

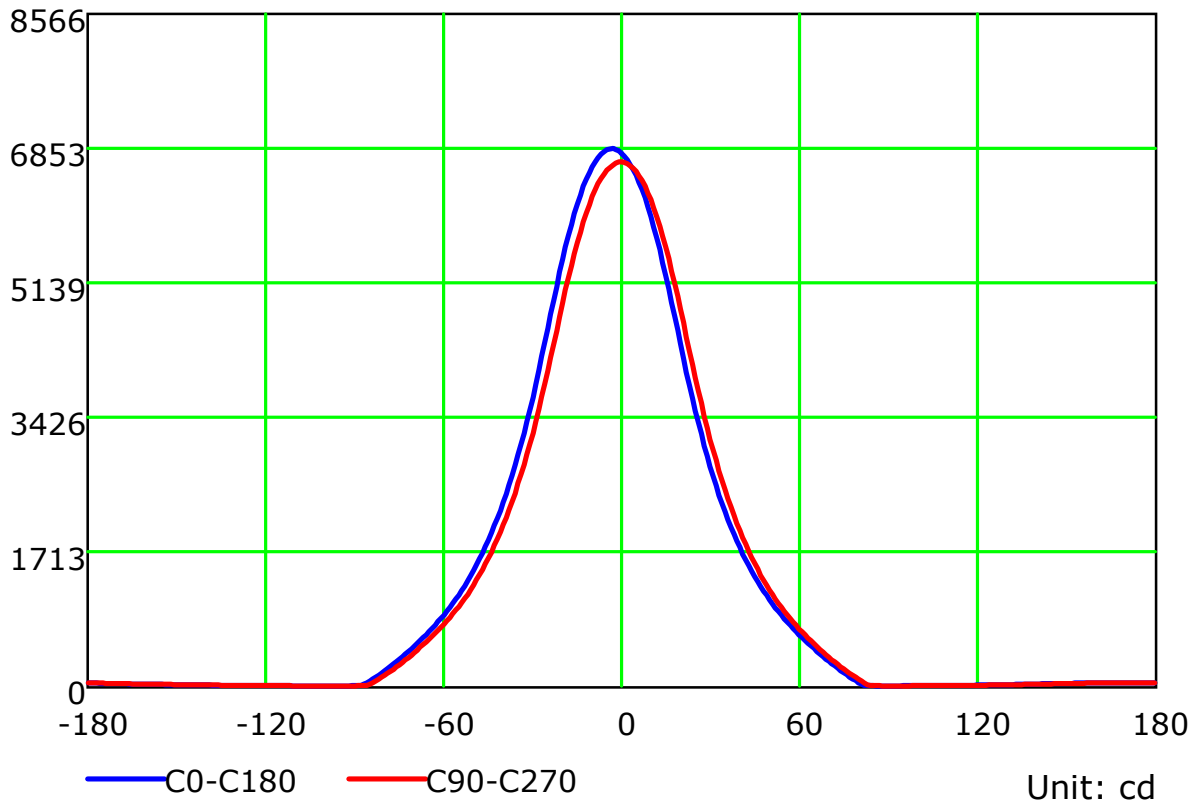
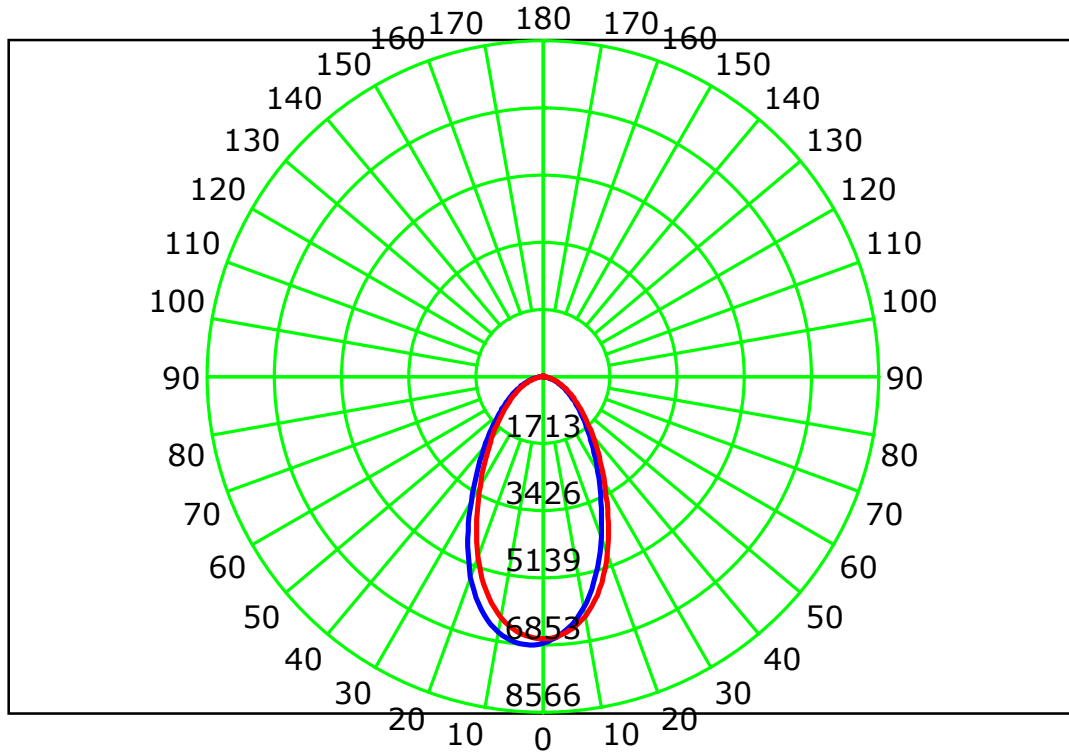
Average Diffuse Angle(50%): 57.6°

— C0-C180 — C90-C270 — G3

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

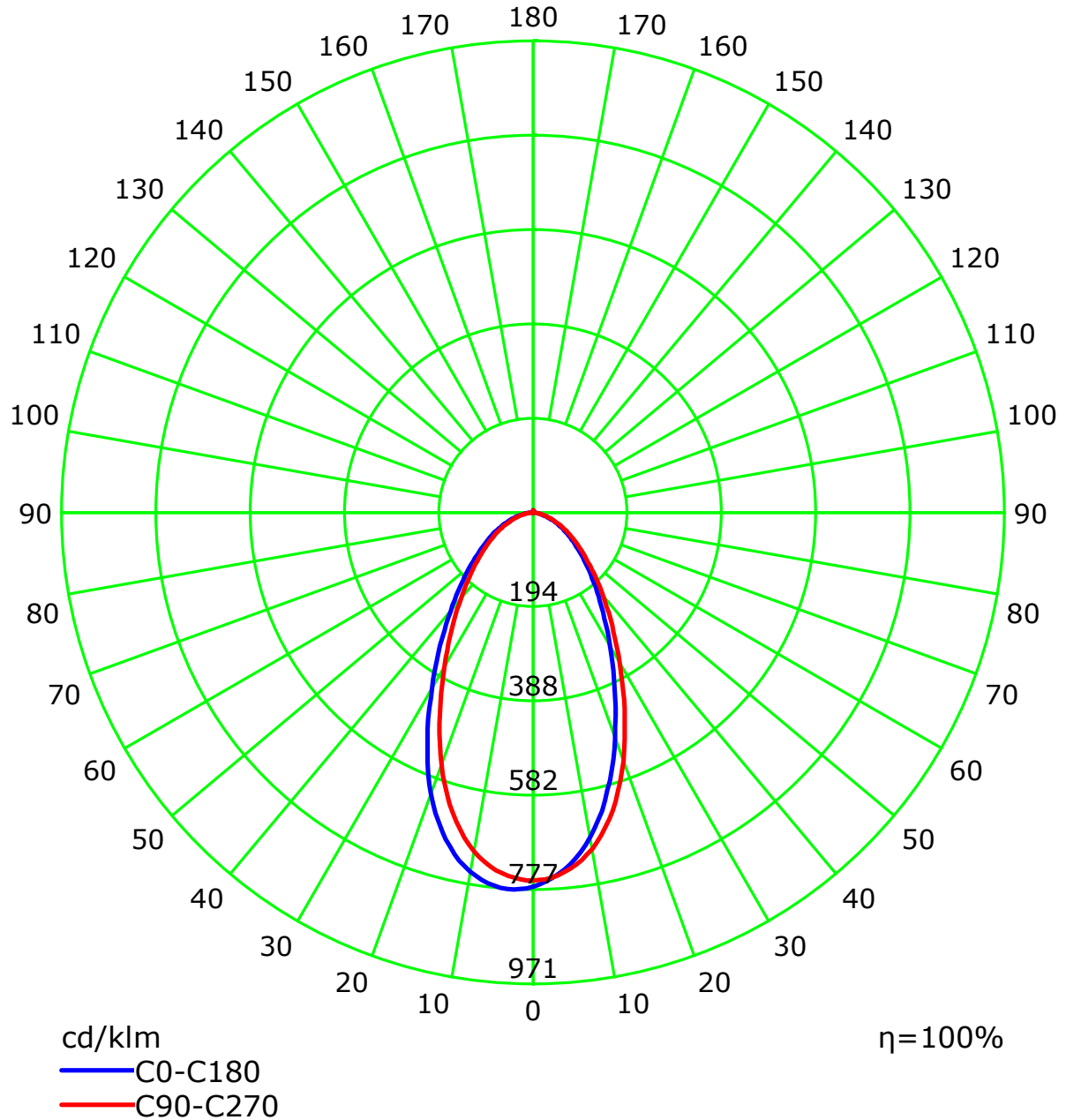
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



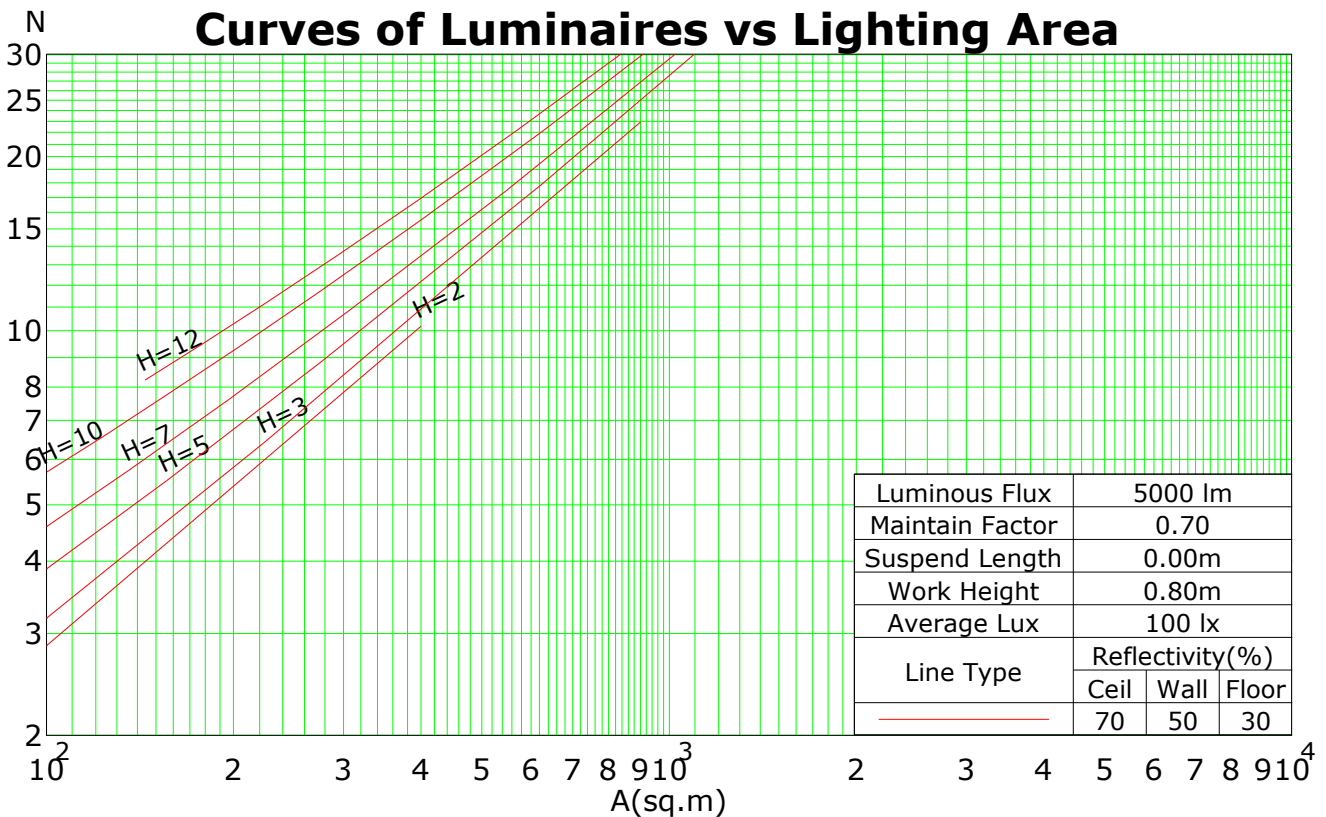
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 Inspector:

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	111	107	104	101	108	105	102	99	100	98	96	96	94	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	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	73	70	68
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	66	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	60	55	52	50
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	56	51	47	45
8	69	57	50	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

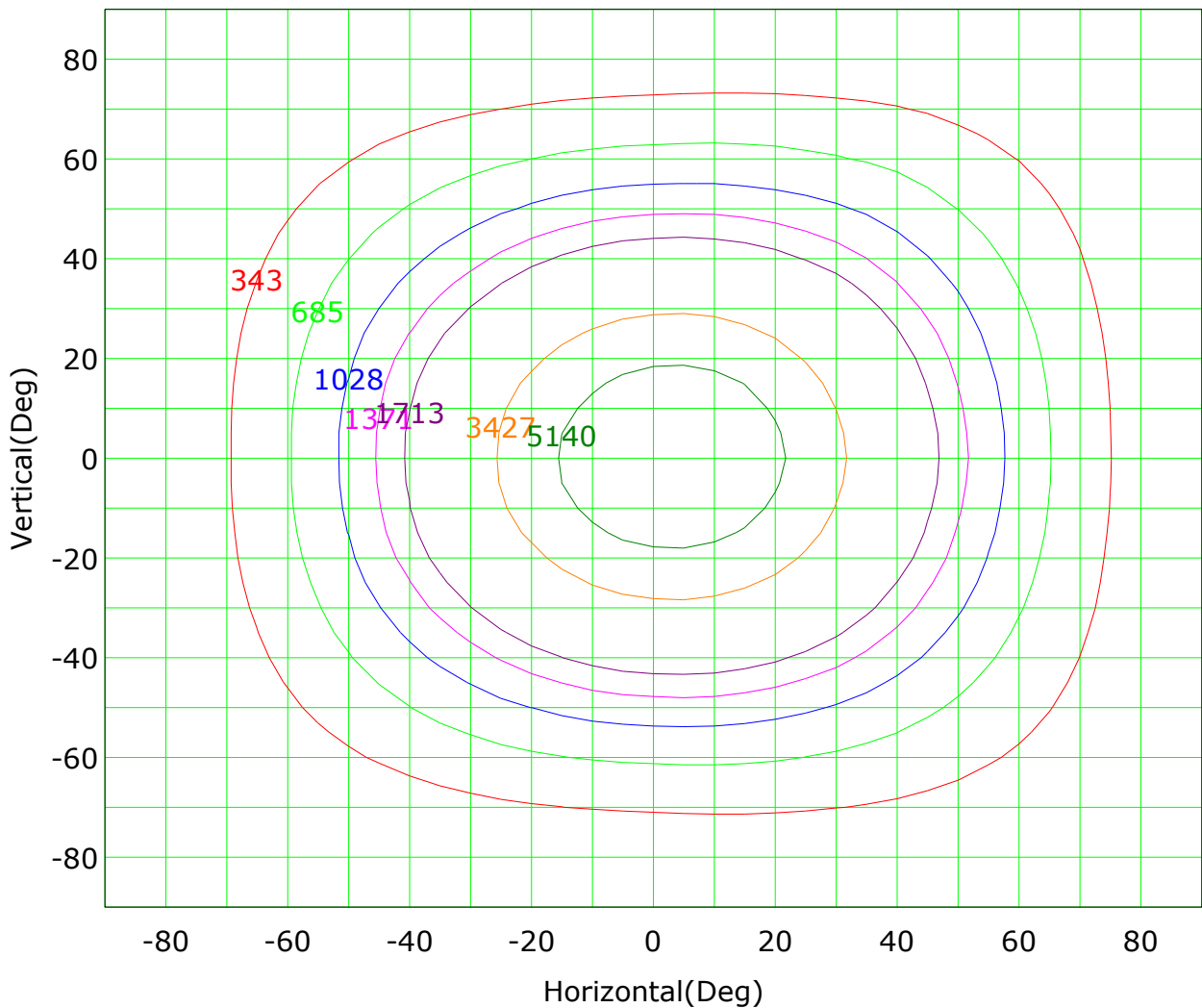
Spacing Criteria (0-180): 0.85
 Spacing Criteria (90-270): 0.85
 Spacing Criteria (Diagonal): 0.91



C Plane (°):0.0-360.0: 45.0
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 Test Device: GPM-1800B
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 Humidity: 58
 Inspector:

Isocandela (rectangle)



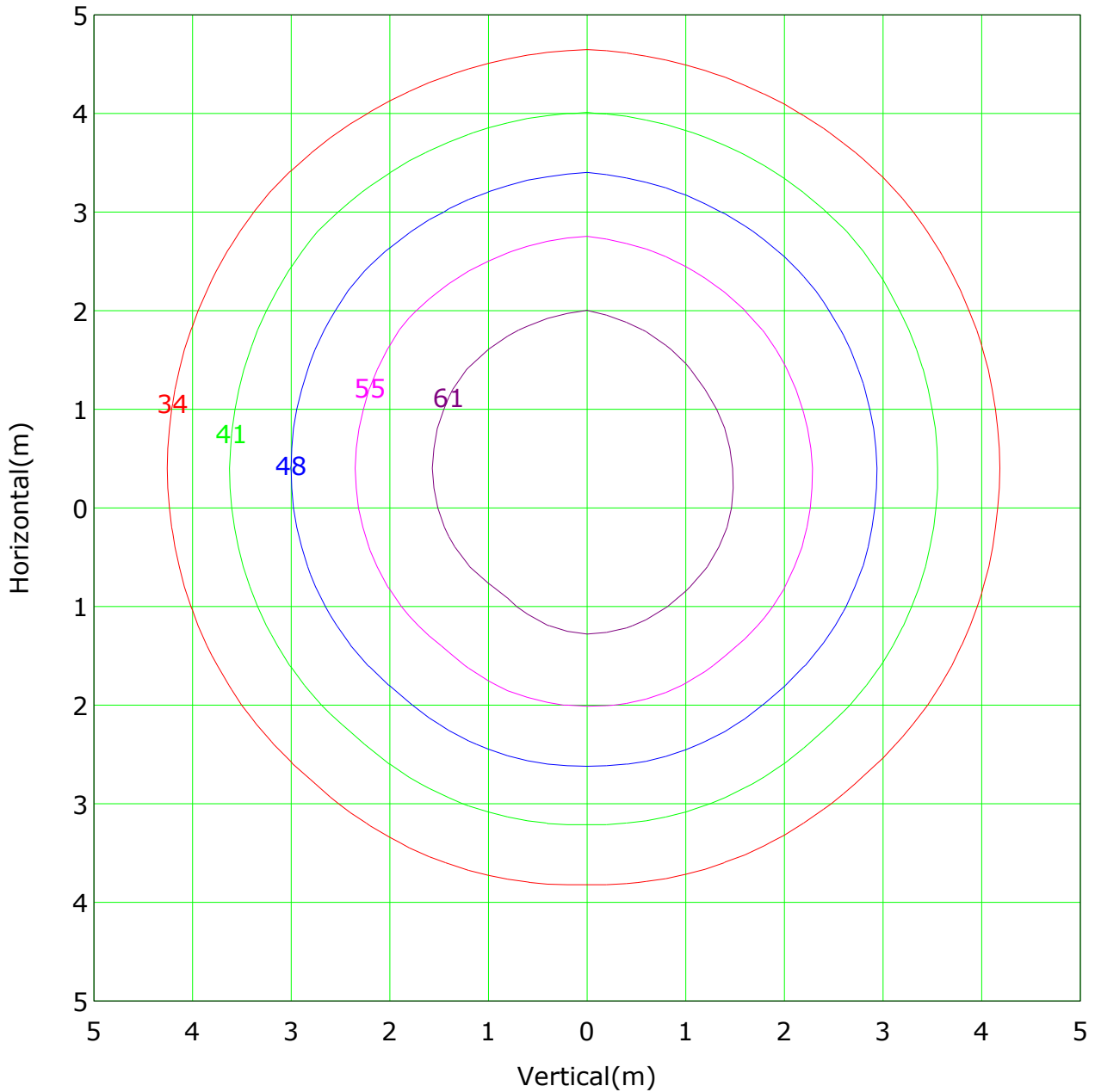
Imax (100%): 6853 cd

— (5%): 343 cd	— (10%): 685 cd
— (15%): 1028 cd	— (20%): 1371 cd
— (25%): 1713 cd	— (50%): 3427 cd
— (75%): 5140 cd	— (100%): 6853 cd

C Plane (°):0.0-360.0: 45.0
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 Distance: 7.992 m
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 Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 68.3 lx	
— (50%): 34.2 lx	— (60%): 41.0 lx	— (80%): 54.6 lx	— (100%): 68.3 lx
— (70%): 47.8 lx			
— (90%): 61.5 lx			

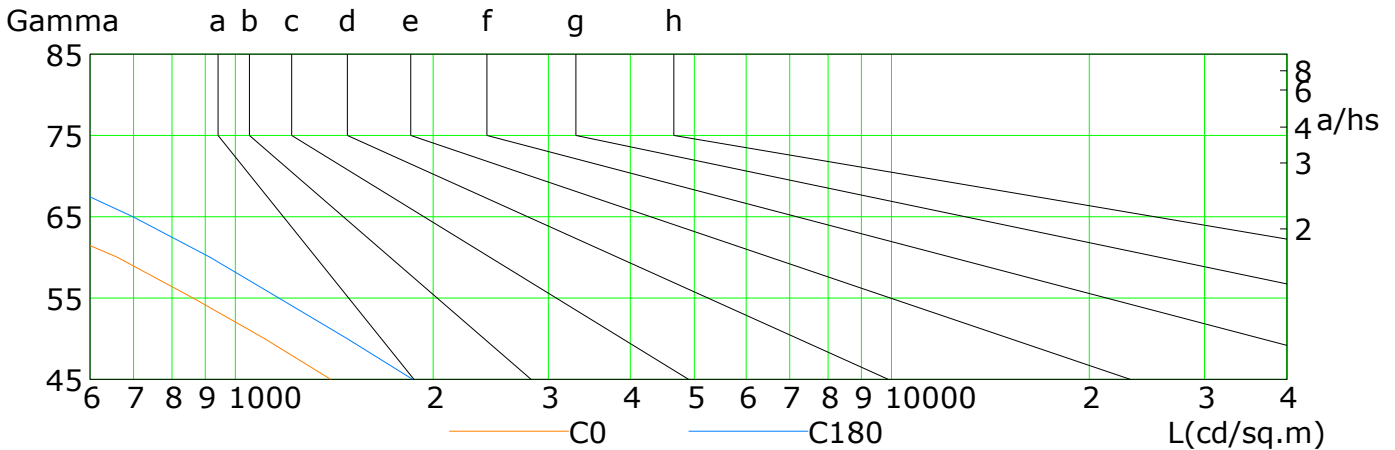
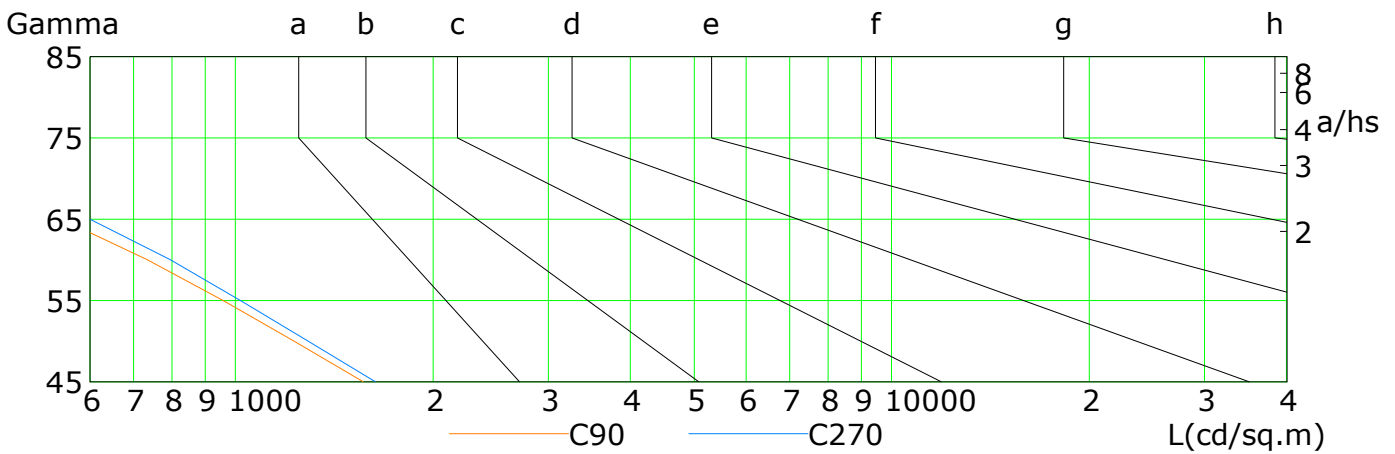
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Gamma Plane (°):0.0-180.0:1.0
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 Distance: 7.992 m
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 Inspector:

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

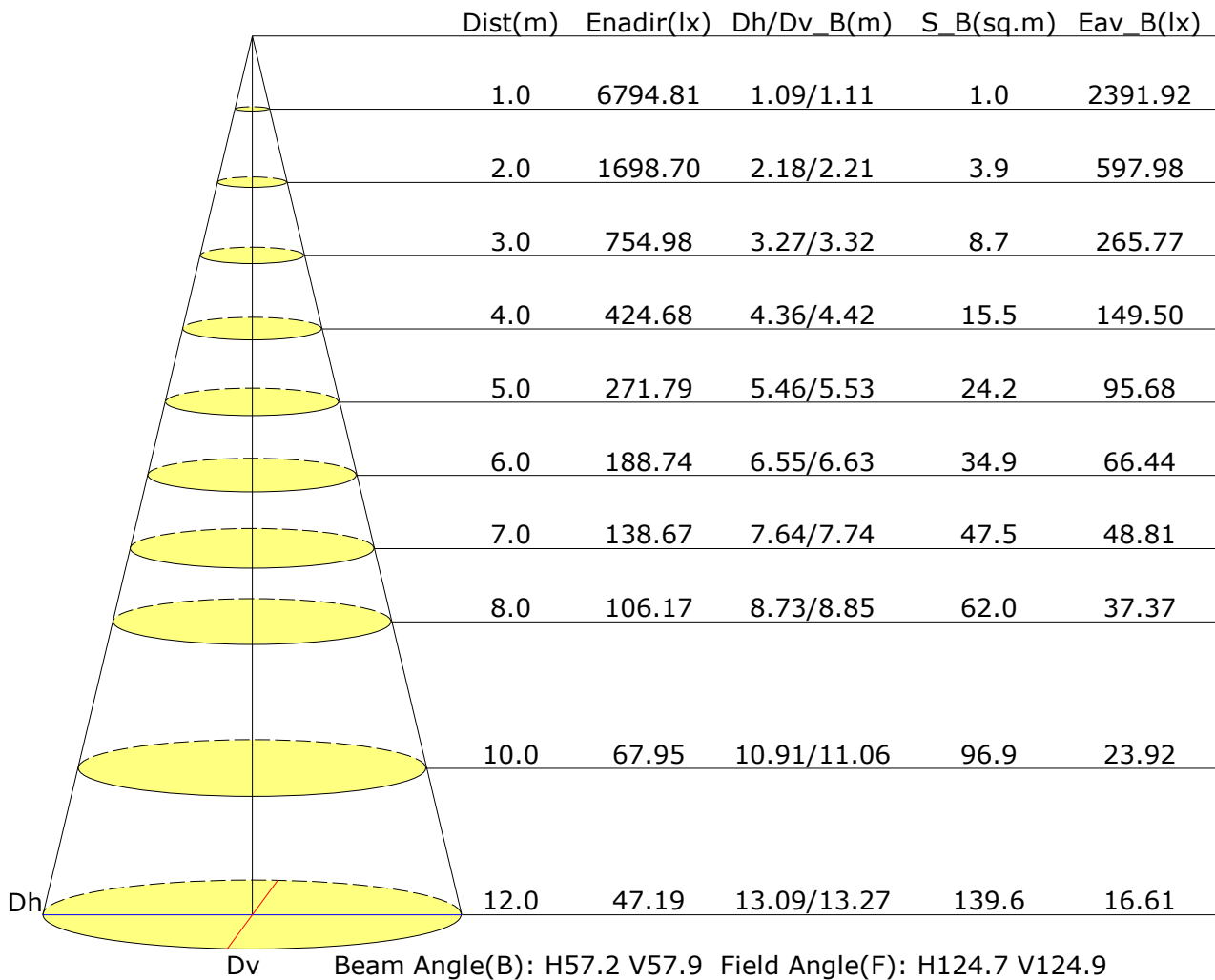


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1397	1107	863	660	481	319	175	49	9
C90	1568	1227	959	734	544	373	223	91	12
C180	1863	1480	1166	913	698	513	349	197	67
C270	1635	1290	1019	795	601	431	275	141	25

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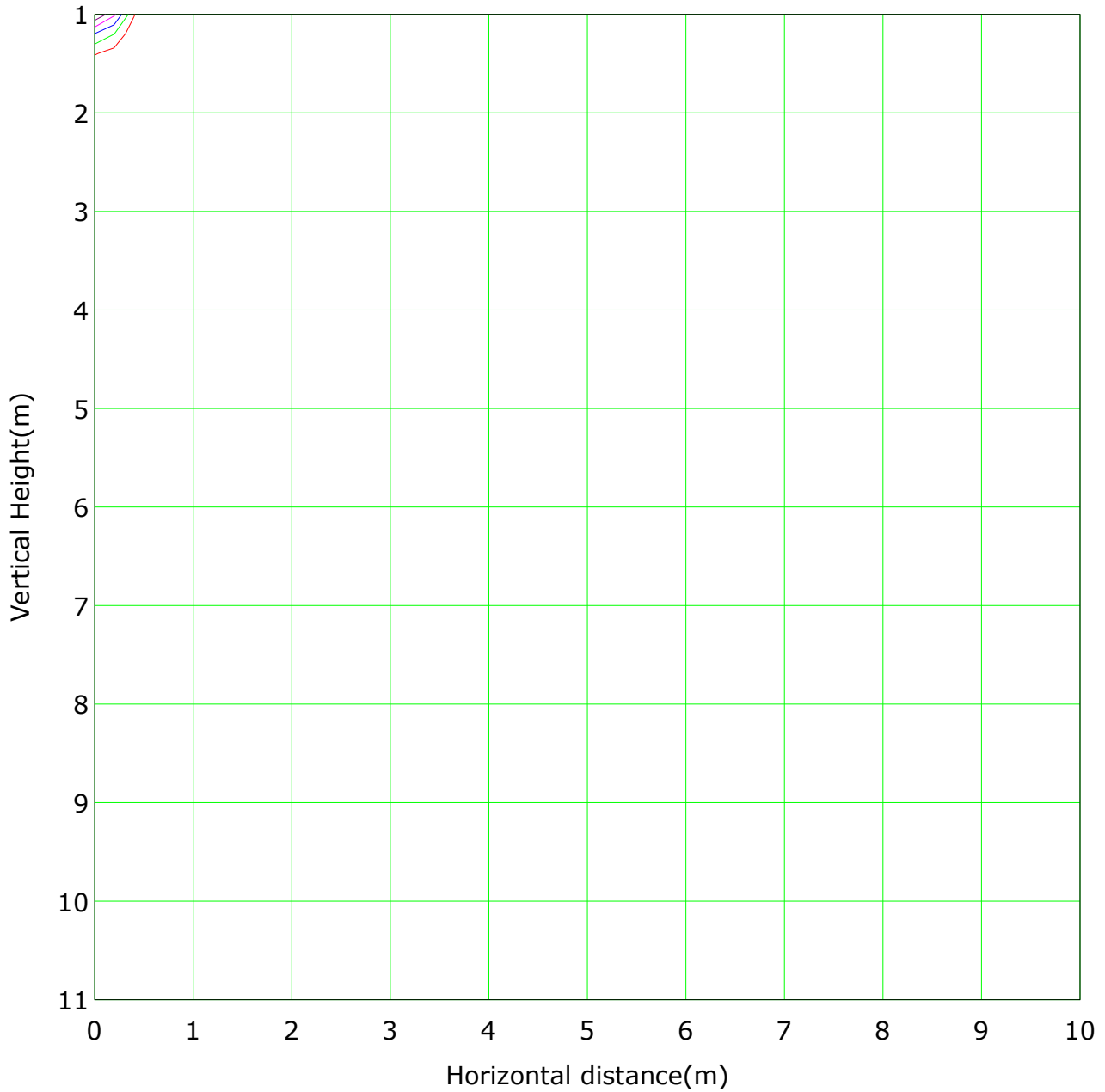
Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Vertical IsoLux Plot



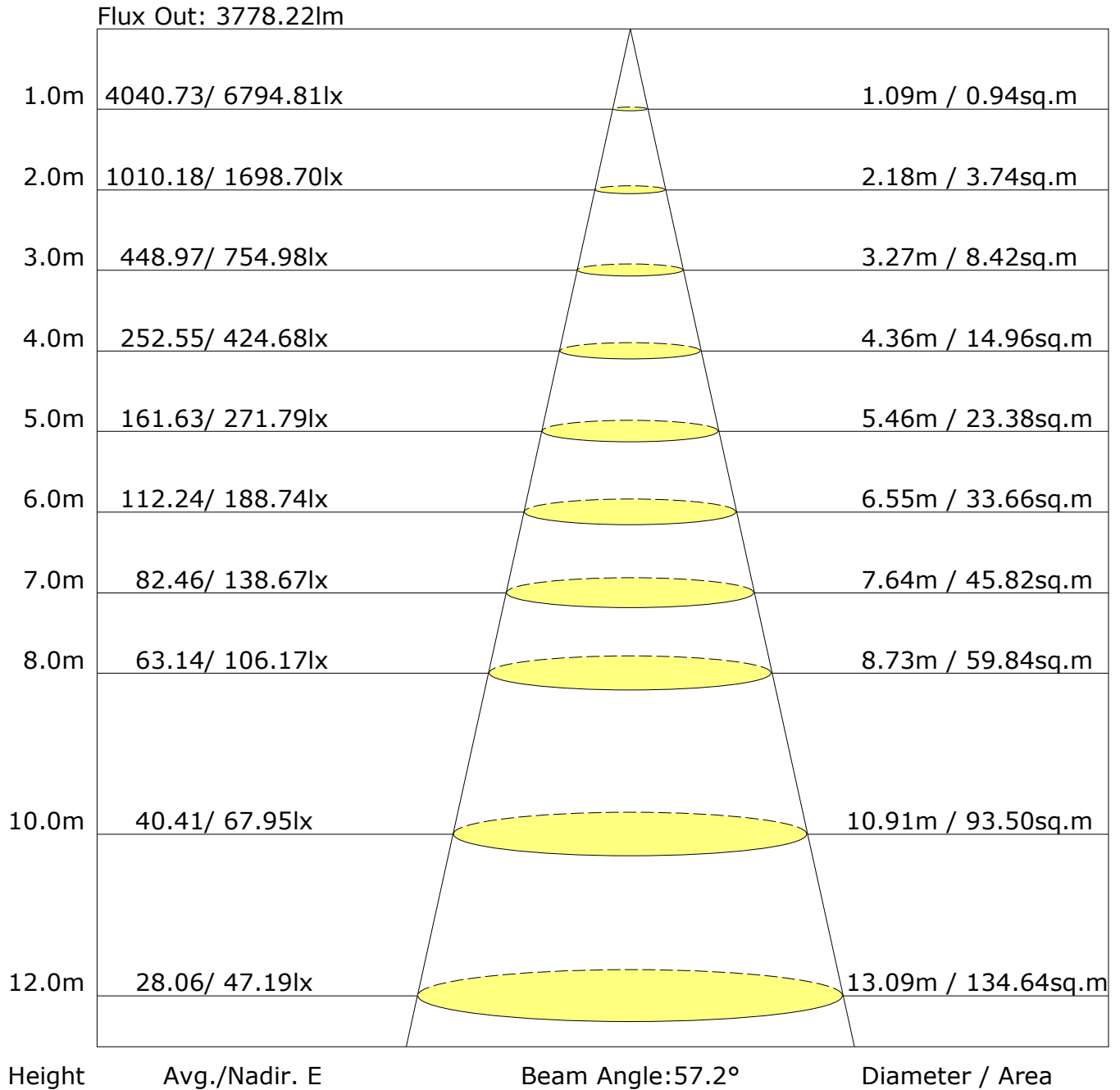
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 6794.8 lx

— (50%):3397.4 lx	— (60%):4076.9 lx
— (70%):4756.4 lx	— (80%):5435.8 lx
— (90%):6115.3 lx	— (100%):6794.8 lx

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 45.0
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 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-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 8817lm ($8\log(F/F_0) = 7.6$).

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.66	0.75	0.82	0.86	0.93	0.97	1.00	1.04	1.06
		0.30	0.59	0.69	0.76	0.81	0.88	0.93	0.96	1.00	1.03
		0.20	0.55	0.64	0.71	0.76	0.84	0.89	0.92	0.97	1.01
0.50	0.50	0.20	0.65	0.73	0.79	0.84	0.90	0.94	0.96	1.00	1.02
		0.30	0.58	0.68	0.74	0.79	0.85	0.90	0.93	0.97	0.99
		0.20	0.54	0.63	0.70	0.75	0.82	0.86	0.90	0.95	0.97
0.30	0.50	0.20	0.63	0.71	0.77	0.81	0.87	0.90	0.93	0.96	0.98
		0.30	0.58	0.66	0.72	0.77	0.83	0.87	0.90	0.94	0.96
		0.20	0.54	0.62	0.69	0.74	0.80	0.84	0.88	0.92	0.94
0.00	0.00	0.00	0.52	0.60	0.66	0.70	0.77	0.81	0.83	0.87	0.89

Rating:99W Photometrically tested without ceiling board.
 Multiply UF values by service correction factors
 Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.85	0.70	0.59	0.51	0.40	0.33	0.28	0.21	0.17
	0.30		0.71	0.60	0.51	0.45	0.36	0.30	0.26	0.20	0.17
	0.20		0.61	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16
0.50	0.50	0.20	0.82	0.67	0.56	0.48	0.38	0.35	0.26	0.20	0.16
	0.30		0.69	0.58	0.49	0.43	0.35	0.29	0.25	0.19	0.16
	0.20		0.60	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15
0.30	0.50	0.20	0.79	0.64	0.53	0.46	0.36	0.29	0.25	0.19	0.15
	0.30		0.67	0.56	0.48	0.42	0.33	0.27	0.23	0.18	0.15
	0.20		0.59	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14
0.00	0.00	0.00	0.48	0.39	0.33	0.29	0.23	0.19	0.16	0.12	0.10
<p>Rating:99W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23
	0.30		0.10	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.20
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:99W Photometrically tested without ceiling board.
 Multiply UF values by service correction factors
 Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	6713.2	6.4	6.4	0.07	0.07
1.0-2.0	6703.6	19.2	25.7	0.22	0.29
2.0-3.0	6684.6	32.0	57.6	0.36	0.65
3.0-4.0	6656.7	44.6	102.2	0.51	1.16
4.0-5.0	6619.6	57.0	159.2	0.65	1.81
5.0-6.0	6572.6	69.1	228.2	0.78	2.59
6.0-7.0	6515.9	80.9	309.1	0.92	3.51
7.0-8.0	6450.0	92.3	401.5	1.05	4.55
8.0-9.0	6374.3	103.3	504.8	1.17	5.72
9.0-10.0	6289.3	113.8	618.6	1.29	7.02
10.0-11.0	6193.9	123.8	742.4	1.40	8.42
11.0-12.0	6087.9	133.1	875.5	1.51	9.93
12.0-13.0	5973.5	141.8	1017.3	1.61	11.54
13.0-14.0	5848.6	149.7	1167.0	1.70	13.24
14.0-15.0	5714.1	156.9	1323.9	1.78	15.01
15.0-16.0	5574.4	163.4	1487.2	1.85	16.87
16.0-17.0	5427.9	169.1	1656.3	1.92	18.78
17.0-18.0	5274.3	173.9	1830.2	1.97	20.76
18.0-19.0	5115.1	178.0	2008.2	2.02	22.78
19.0-20.0	4951.0	181.2	2189.4	2.06	24.83
20.0-21.0	4781.4	183.6	2373.1	2.08	26.91
21.0-22.0	4606.8	185.1	2558.2	2.10	29.01
22.0-23.0	4433.2	186.0	2744.3	2.11	31.12
23.0-24.0	4261.1	186.3	2930.6	2.11	33.24
24.0-25.0	4090.3	186.0	3116.6	2.11	35.35
25.0-26.0	3923.8	185.2	3301.8	2.10	37.45
26.0-27.0	3760.0	184.0	3485.8	2.09	39.53
27.0-28.0	3598.3	182.2	3668.0	2.07	41.60
28.0-29.0	3441.4	180.1	3848.1	2.04	43.64
29.0-30.0	3290.9	177.7	4025.8	2.02	45.66
30.0-31.0	3148.3	175.2	4201.0	1.99	47.65
31.0-32.0	3010.3	172.5	4373.5	1.96	49.60
32.0-33.0	2875.1	169.4	4542.9	1.92	51.52
33.0-34.0	2747.3	166.3	4709.2	1.89	53.41
34.0-35.0	2626.6	163.1	4872.3	1.85	55.26
35.0-36.0	2509.4	159.8	5032.1	1.81	57.07

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 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	2395.4	156.3	5188.4	1.77	58.84
37.0-38.0	2286.6	152.6	5341.0	1.73	60.57
38.0-39.0	2184.5	149.1	5490.2	1.69	62.27
39.0-40.0	2087.5	145.6	5635.8	1.65	63.92
40.0-41.0	1993.8	142.0	5777.8	1.61	65.53
41.0-42.0	1903.9	138.3	5916.1	1.57	67.10
42.0-43.0	1818.1	134.7	6050.8	1.53	68.62
43.0-44.0	1735.9	131.0	6181.9	1.49	70.11
44.0-45.0	1656.6	127.3	6309.2	1.44	71.55
45.0-46.0	1580.0	123.6	6432.8	1.40	72.96
46.0-47.0	1507.9	119.9	6552.7	1.36	74.32
47.0-48.0	1439.4	116.4	6669.1	1.32	75.64
48.0-49.0	1373.8	112.8	6781.9	1.28	76.92
49.0-50.0	1310.8	109.3	6891.2	1.24	78.16
50.0-51.0	1249.6	105.7	6997.0	1.20	79.36
51.0-52.0	1191.6	102.3	7099.2	1.16	80.52
52.0-53.0	1136.6	98.9	7198.1	1.12	81.64
53.0-54.0	1084.0	95.6	7293.7	1.08	82.72
54.0-55.0	1034.2	92.3	7386.0	1.05	83.77
55.0-56.0	985.8	89.1	7475.1	1.01	84.78
56.0-57.0	938.7	85.8	7560.9	0.97	85.75
57.0-58.0	893.1	82.6	7643.5	0.94	86.69
58.0-59.0	848.8	79.4	7722.9	0.90	87.59
59.0-60.0	806.5	76.2	7799.1	0.86	88.45
60.0-61.0	766.0	73.1	7872.2	0.83	89.28
61.0-62.0	726.5	70.0	7942.2	0.79	90.08
62.0-63.0	687.8	66.9	8009.1	0.76	90.83
63.0-64.0	649.2	63.7	8072.8	0.72	91.56
64.0-65.0	611.4	60.5	8133.3	0.69	92.24
65.0-66.0	575.2	57.4	8190.7	0.65	92.89
66.0-67.0	539.9	54.3	8245.0	0.62	93.51
67.0-68.0	505.2	51.2	8296.2	0.58	94.09
68.0-69.0	470.8	48.0	8344.2	0.54	94.64
69.0-70.0	436.6	44.8	8389.1	0.51	95.14
70.0-71.0	403.2	41.7	8430.8	0.47	95.62
71.0-72.0	371.2	38.6	8469.4	0.44	96.05

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 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	339.7	35.5	8504.9	0.40	96.46
73.0-74.0	308.3	32.4	8537.3	0.37	96.83
74.0-75.0	277.5	29.3	8566.6	0.33	97.16
75.0-76.0	247.7	26.3	8592.9	0.30	97.46
76.0-77.0	218.5	23.3	8616.2	0.26	97.72
77.0-78.0	189.3	20.3	8636.5	0.23	97.95
78.0-79.0	161.7	17.4	8653.9	0.20	98.15
79.0-80.0	135.4	14.6	8668.5	0.17	98.31
80.0-81.0	109.9	11.9	8680.4	0.13	98.45
81.0-82.0	85.9	9.3	8689.7	0.11	98.55
82.0-83.0	65.2	7.1	8696.8	0.08	98.63
83.0-84.0	48.3	5.3	8702.0	0.06	98.69
84.0-85.0	34.4	3.8	8705.8	0.04	98.74
85.0-86.0	23.5	2.6	8708.4	0.03	98.77
86.0-87.0	15.7	1.7	8710.1	0.02	98.78
87.0-88.0	11.1	1.2	8711.3	0.01	98.80
88.0-89.0	8.9	1.0	8712.3	0.01	98.81
89.0-90.0	8.0	0.9	8713.2	0.01	98.82
90.0-91.0	7.3	0.8	8714.0	0.01	98.83
91.0-92.0	6.9	0.8	8714.7	0.01	98.84
92.0-93.0	6.8	0.7	8715.4	0.01	98.85
93.0-94.0	6.9	0.8	8716.2	0.01	98.85
94.0-95.0	6.9	0.8	8717.0	0.01	98.86
95.0-96.0	7.1	0.8	8717.7	0.01	98.87
96.0-97.0	7.2	0.8	8718.5	0.01	98.88
97.0-98.0	7.3	0.8	8719.3	0.01	98.89
98.0-99.0	7.5	0.8	8720.1	0.01	98.90
99.0-100.0	7.7	0.8	8721.0	0.01	98.91
100.0-101.0	7.9	0.8	8721.8	0.01	98.92
101.0-102.0	8.0	0.9	8722.7	0.01	98.93
102.0-103.0	8.2	0.9	8723.6	0.01	98.94
103.0-104.0	8.4	0.9	8724.4	0.01	98.95
104.0-105.0	8.6	0.9	8725.4	0.01	98.96
105.0-106.0	8.8	0.9	8726.3	0.01	98.97
106.0-107.0	9.0	0.9	8727.2	0.01	98.98
107.0-108.0	9.2	1.0	8728.2	0.01	98.99

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	9.4	1.0	8729.2	0.01	99.00
109.0-110.0	9.7	1.0	8730.2	0.01	99.01
110.0-111.0	9.9	1.0	8731.2	0.01	99.02
111.0-112.0	10.1	1.0	8732.2	0.01	99.04
112.0-113.0	10.5	1.1	8733.3	0.01	99.05
113.0-114.0	10.7	1.1	8734.4	0.01	99.06
114.0-115.0	11.0	1.1	8735.5	0.01	99.07
115.0-116.0	11.4	1.1	8736.6	0.01	99.09
116.0-117.0	11.6	1.1	8737.7	0.01	99.10
117.0-118.0	11.9	1.2	8738.9	0.01	99.11
118.0-119.0	12.3	1.2	8740.1	0.01	99.12
119.0-120.0	12.7	1.2	8741.3	0.01	99.14
120.0-121.0	13.0	1.2	8742.5	0.01	99.15
121.0-122.0	13.5	1.3	8743.8	0.01	99.17
122.0-123.0	13.9	1.3	8745.1	0.01	99.18
123.0-124.0	14.4	1.3	8746.4	0.01	99.20
124.0-125.0	14.8	1.3	8747.7	0.02	99.21
125.0-126.0	15.2	1.4	8749.1	0.02	99.23
126.0-127.0	15.6	1.4	8750.5	0.02	99.24
127.0-128.0	16.1	1.4	8751.9	0.02	99.26
128.0-129.0	16.7	1.4	8753.3	0.02	99.27
129.0-130.0	17.2	1.5	8754.8	0.02	99.29
130.0-131.0	17.8	1.5	8756.2	0.02	99.31
131.0-132.0	18.3	1.5	8757.7	0.02	99.32
132.0-133.0	18.8	1.5	8759.3	0.02	99.34
133.0-134.0	19.3	1.5	8760.8	0.02	99.36
134.0-135.0	19.9	1.6	8762.4	0.02	99.38
135.0-136.0	20.6	1.6	8763.9	0.02	99.40
136.0-137.0	21.2	1.6	8765.5	0.02	99.41
137.0-138.0	21.8	1.6	8767.2	0.02	99.43
138.0-139.0	22.5	1.6	8768.8	0.02	99.45
139.0-140.0	23.1	1.6	8770.4	0.02	99.47
140.0-141.0	23.8	1.7	8772.1	0.02	99.49
141.0-142.0	24.4	1.7	8773.8	0.02	99.51
142.0-143.0	25.0	1.7	8775.4	0.02	99.53
143.0-144.0	25.8	1.7	8777.1	0.02	99.54

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 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	26.5	1.7	8778.8	0.02	99.56
145.0-146.0	27.2	1.7	8780.5	0.02	99.58
146.0-147.0	27.8	1.7	8782.2	0.02	99.60
147.0-148.0	28.5	1.7	8783.9	0.02	99.62
148.0-149.0	29.2	1.7	8785.5	0.02	99.64
149.0-150.0	29.8	1.7	8787.2	0.02	99.66
150.0-151.0	30.4	1.6	8788.8	0.02	99.68
151.0-152.0	31.1	1.6	8790.5	0.02	99.70
152.0-153.0	31.7	1.6	8792.1	0.02	99.71
153.0-154.0	32.3	1.6	8793.6	0.02	99.73
154.0-155.0	32.9	1.6	8795.2	0.02	99.75
155.0-156.0	33.5	1.5	8796.7	0.02	99.77
156.0-157.0	34.0	1.5	8798.2	0.02	99.78
157.0-158.0	34.5	1.4	8799.7	0.02	99.80
158.0-159.0	35.1	1.4	8801.1	0.02	99.82
159.0-160.0	35.6	1.4	8802.4	0.02	99.83
160.0-161.0	36.1	1.3	8803.8	0.01	99.85
161.0-162.0	36.6	1.3	8805.0	0.01	99.86
162.0-163.0	37.1	1.2	8806.3	0.01	99.88
163.0-164.0	37.6	1.2	8807.4	0.01	99.89
164.0-165.0	38.0	1.1	8808.5	0.01	99.90
165.0-166.0	38.5	1.1	8809.6	0.01	99.91
166.0-167.0	39.1	1.0	8810.6	0.01	99.92
167.0-168.0	39.6	0.9	8811.5	0.01	99.94
168.0-169.0	40.1	0.9	8812.4	0.01	99.95
169.0-170.0	40.7	0.8	8813.2	0.01	99.95
170.0-171.0	41.2	0.7	8814.0	0.01	99.96
171.0-172.0	41.6	0.7	8814.6	0.01	99.97
172.0-173.0	42.1	0.6	8815.2	0.01	99.98
173.0-174.0	42.4	0.5	8815.8	0.01	99.98
174.0-175.0	42.7	0.4	8816.2	0.01	99.99
175.0-176.0	43.0	0.4	8816.6	0.00	99.99
176.0-177.0	43.3	0.3	8816.9	0.00	100.00
177.0-178.0	43.4	0.2	8817.1	0.00	100.00
178.0-179.0	43.6	0.1	8817.2	0.00	100.00
179.0-180.0	43.7	0.0	8817.3	0.00	100.00

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instrument
 Test Type: TYPE C
 Temperature: 28
 Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 7.992 m
 Humidity: 58
 Inspector: