

Report No.: 52.08016 Reflex Recessed
Downlight

Test Time: 2024/9/15 15:15

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 0.113 A
Power Factor: 0.970

Luminaire Description: 25W
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 220.3 V
Power: 24.11 W

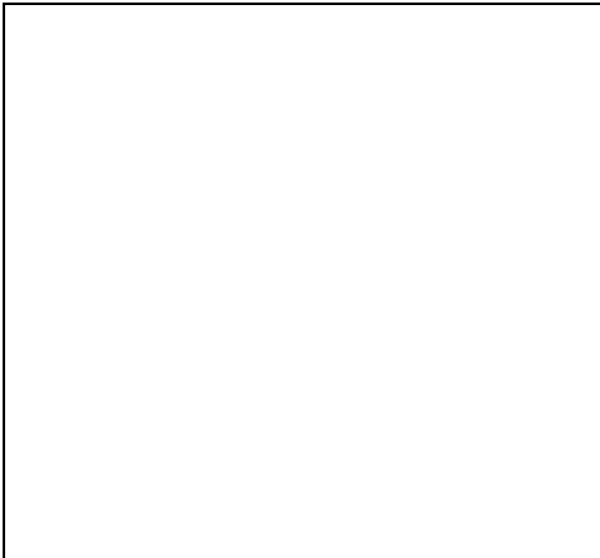
Photometric Results

CIE Class: Direct
Measurement Flux: 1219.9 lm
Downward Ratio: 98%
Horizontal Diffuse Angle(50%): H33.7
Vertical Diffuse Angle(50%): V30.6
Luminaire Efficacy Rating (LER): 50.65
Max. Intensity: 3118.5 cd
S/MH(C0/C180): 0.55

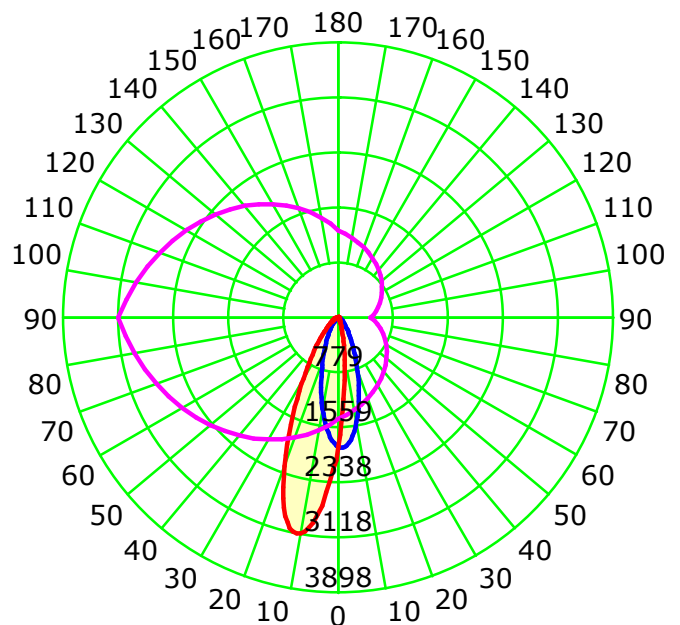
Total Rated Lamp Lumens: 1219.9 lm
Efficiency: 100%
Upward Ratio: 2%

C0r0 Intensity: 1834.77 cd
Pos of Max. Intensity: H270 V11
S/MH(C90/C270): 0.76

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

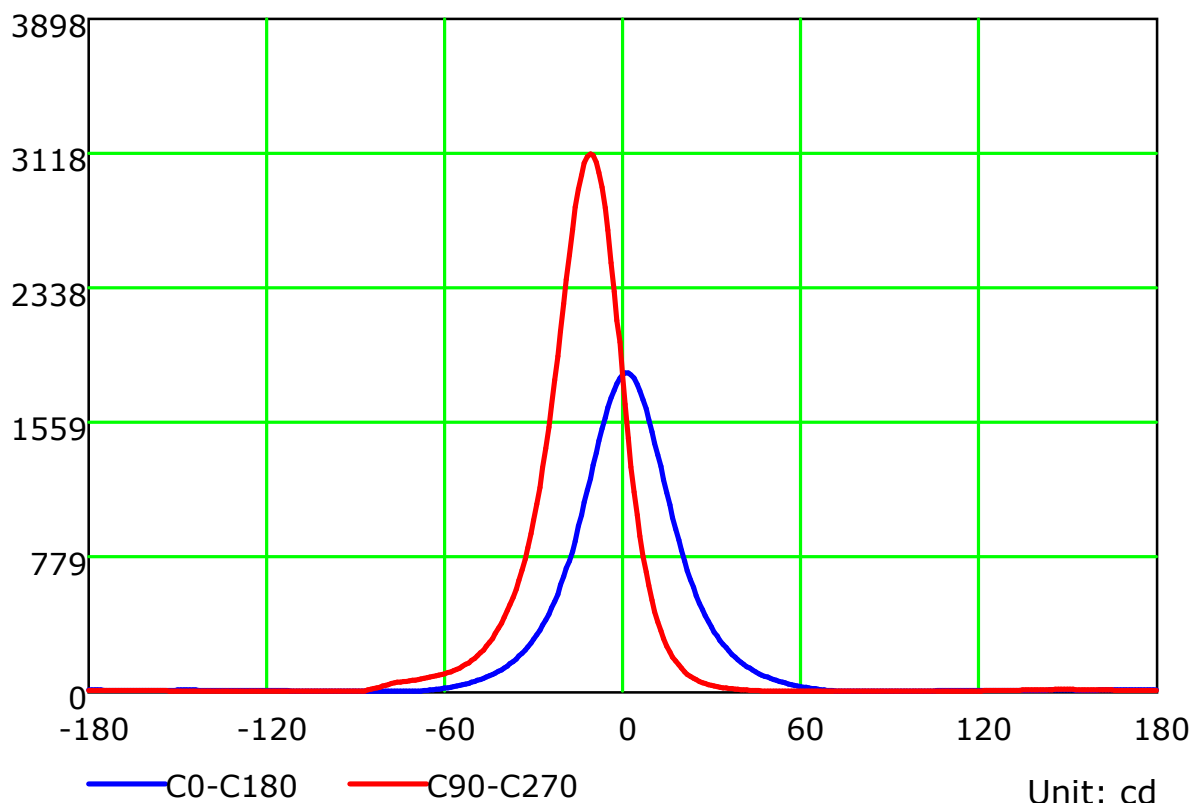
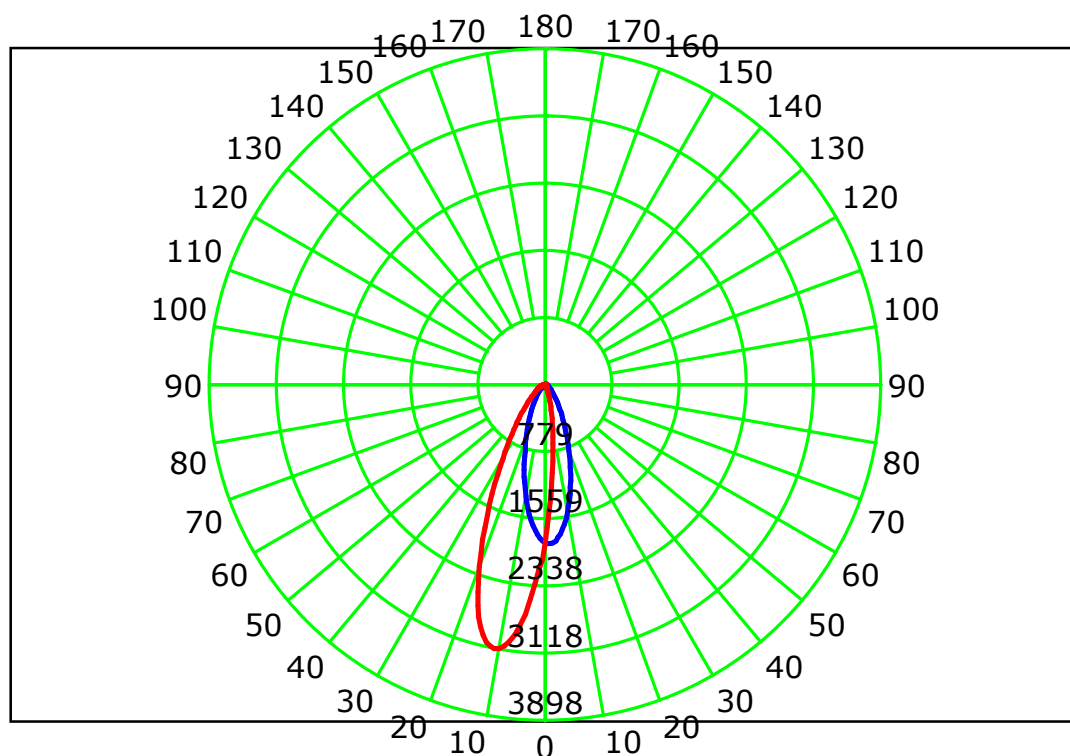
Average Diffuse Angle(50%): 30.0°

— C0-C180 — C90-C270 — G11

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
Humidity: 65
Inspector:

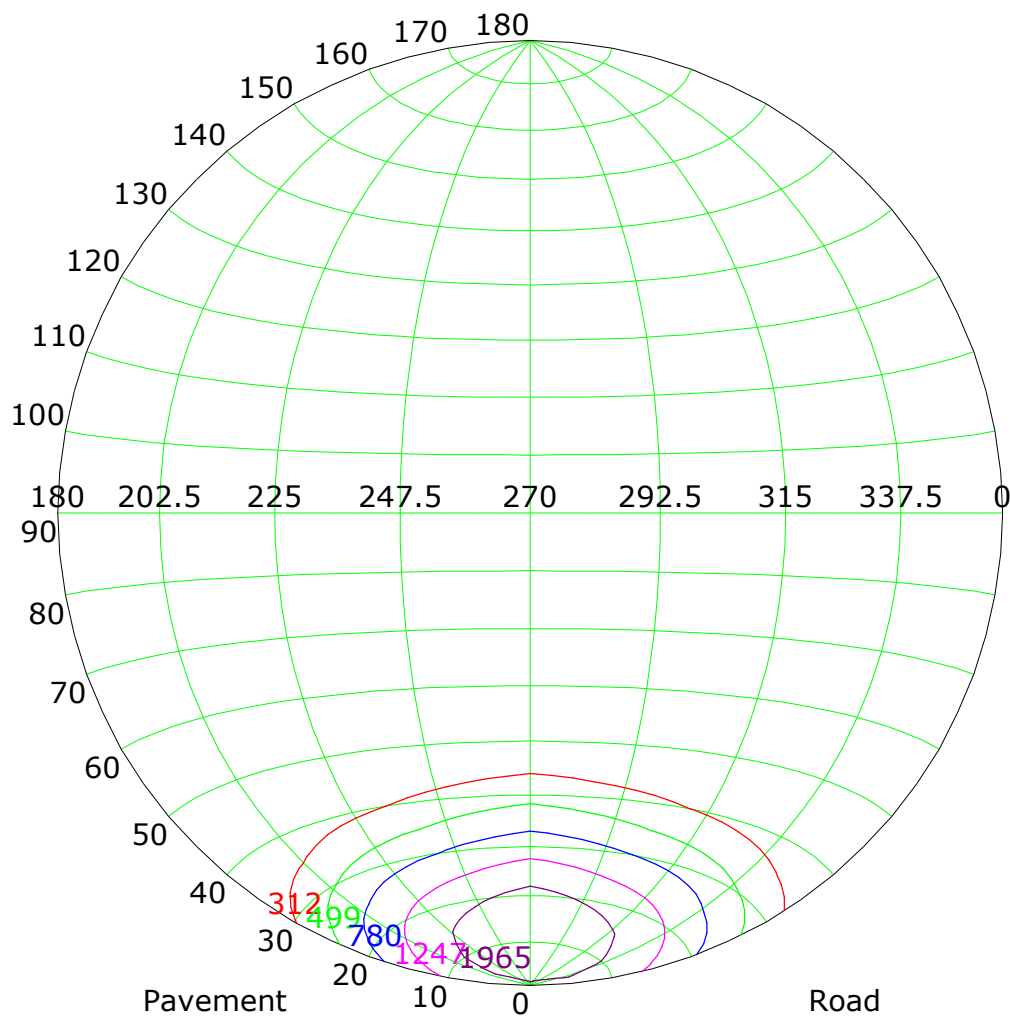
Luminous Intensity Distribution Curve



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Inspector:

Isocandela (sphere)



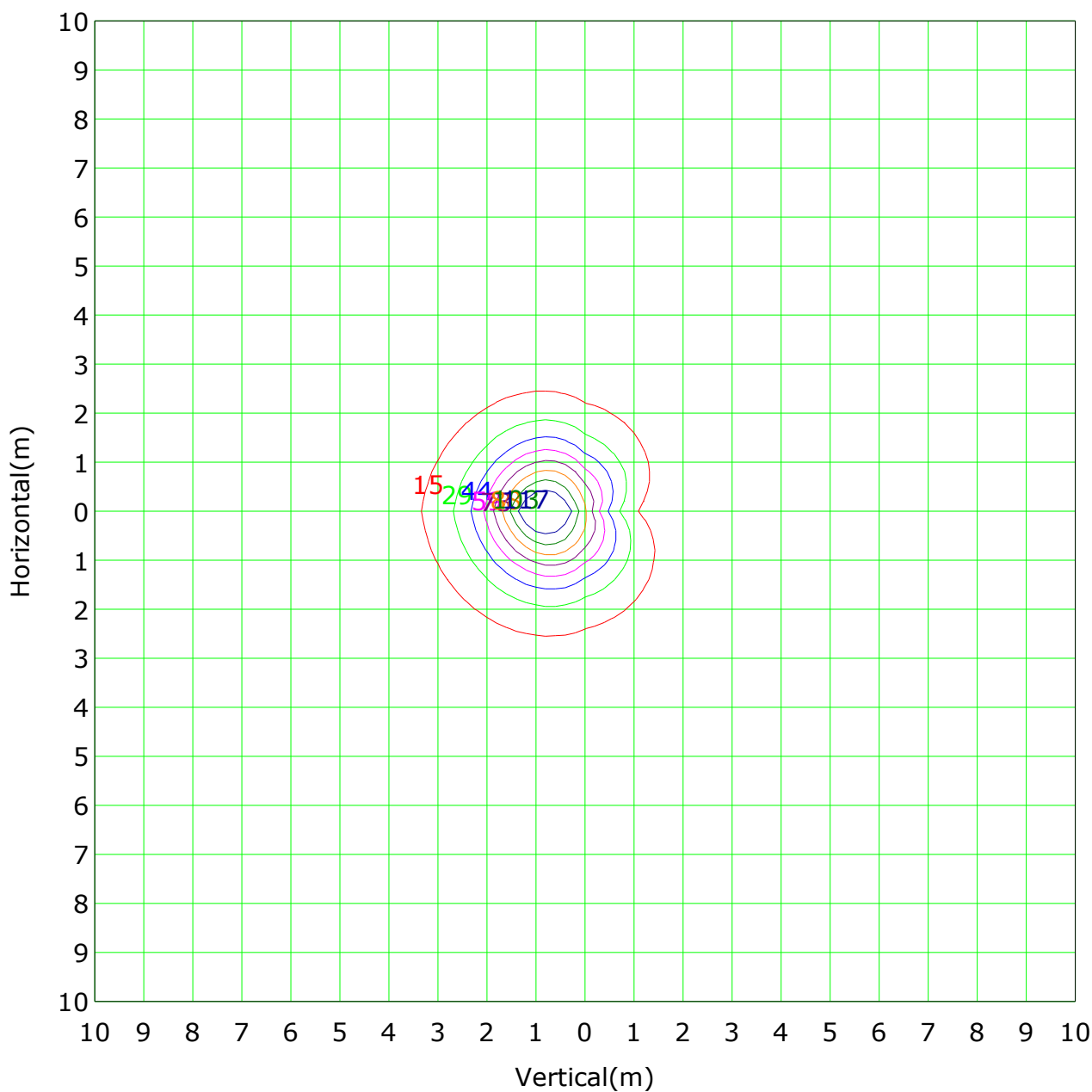
Imax (100%): 3118 cd

(10%): 312 cd	(16%): 499 cd
(25%): 780 cd	(40%): 1247 cd
(63%): 1965 cd	(100%): 3118 cd

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Test Type: TYPE C
Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
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Humidity: 65
Inspector:

IsoLux Plot



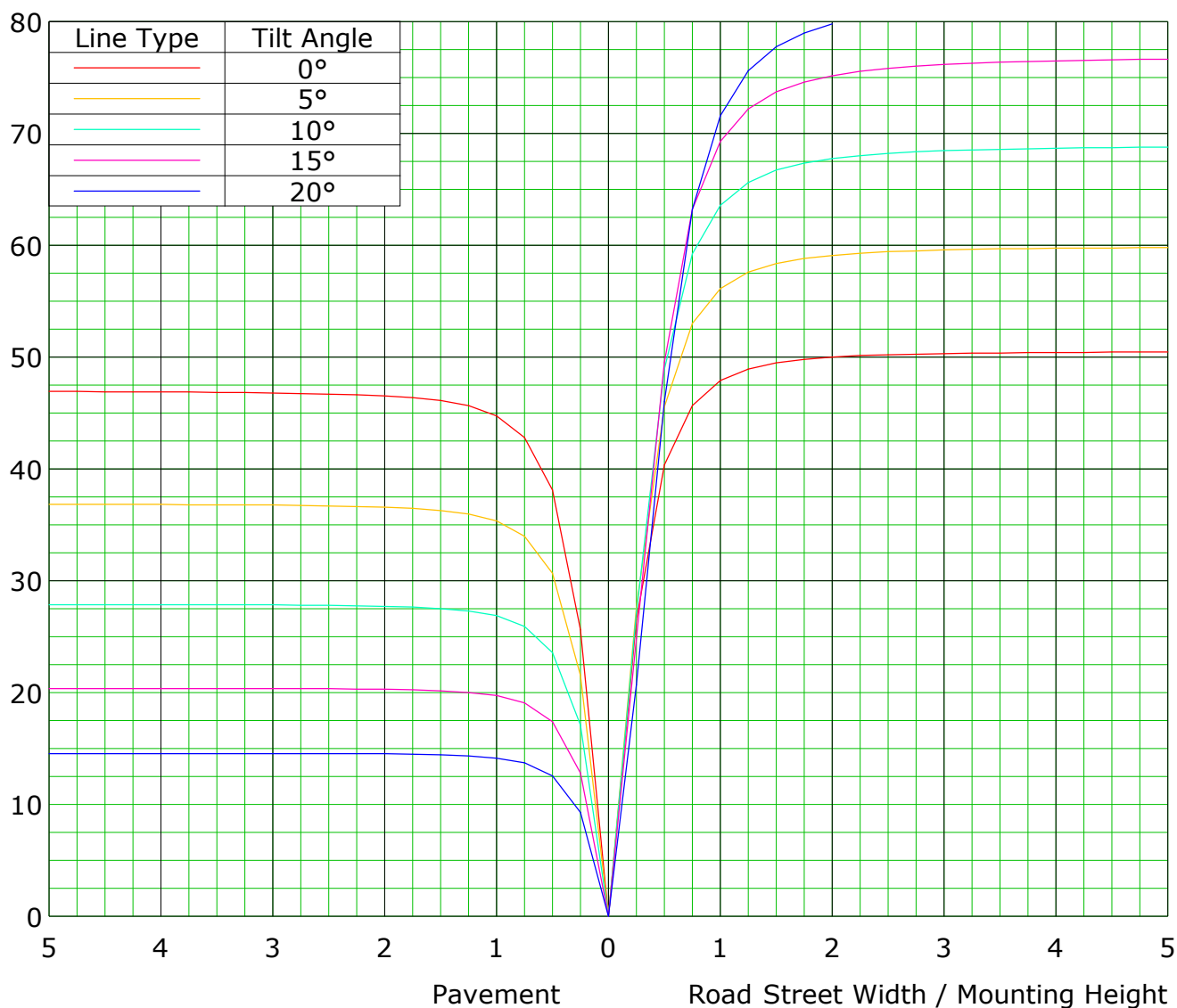
Mounting Height: 4.5m		Max Lux(100%): 146.6 lx	
— (10%): 14.7 lx		— (20%): 29.3 lx	
— (30%): 44.0 lx		— (40%): 58.7 lx	
— (50%): 73.3 lx		— (60%): 88.0 lx	
— (70%): 102.6 lx		— (80%): 117.3 lx	

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Test Device: GPM-1800B
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Humidity: 65
Inspector:

Roadway CU Curve

Efficiency(%)



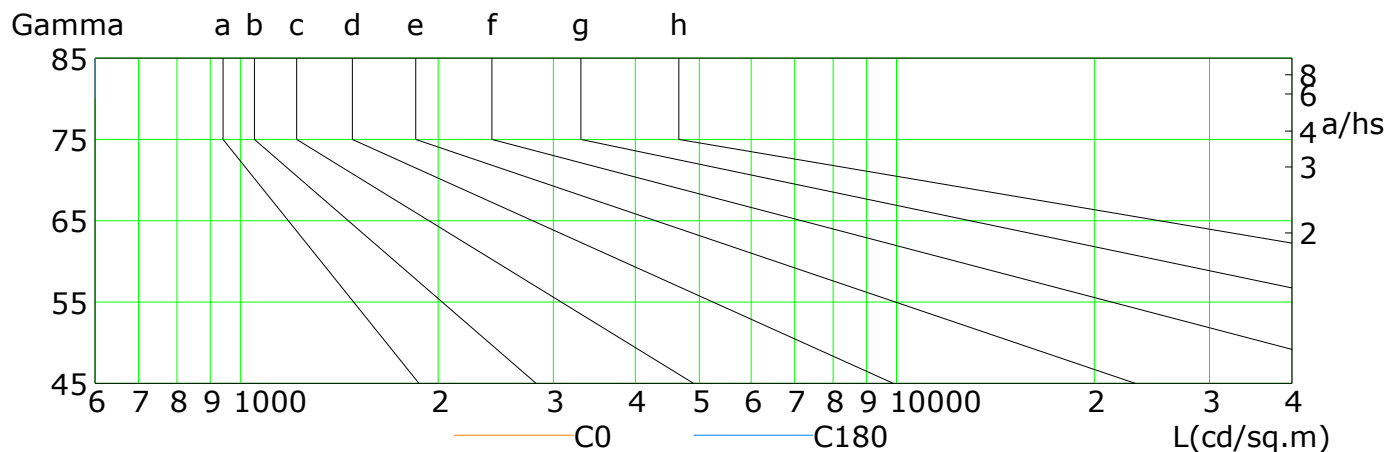
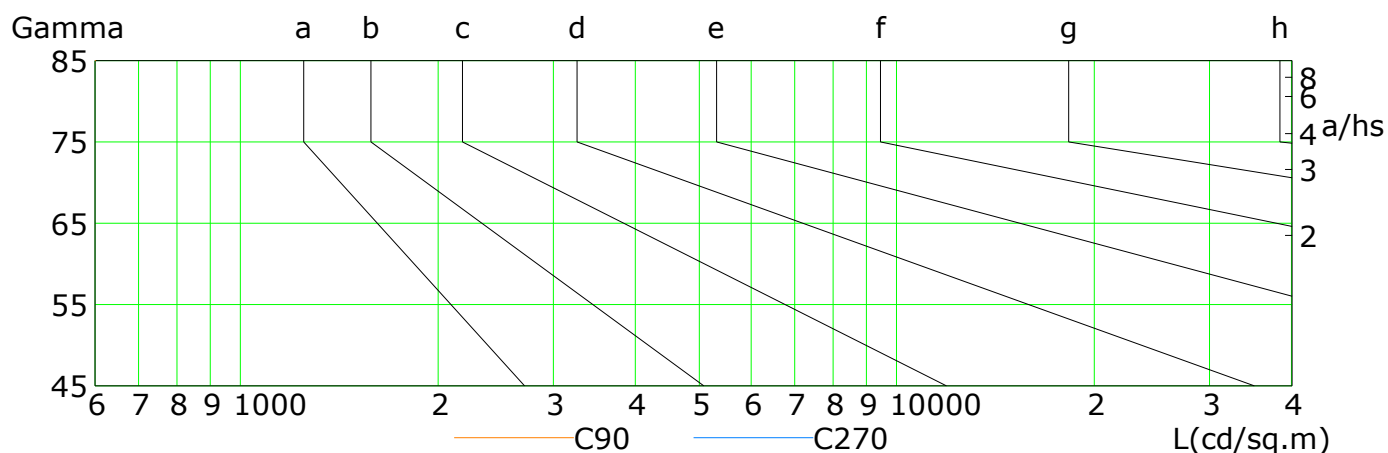
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Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
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Humidity: 65
Inspector:

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

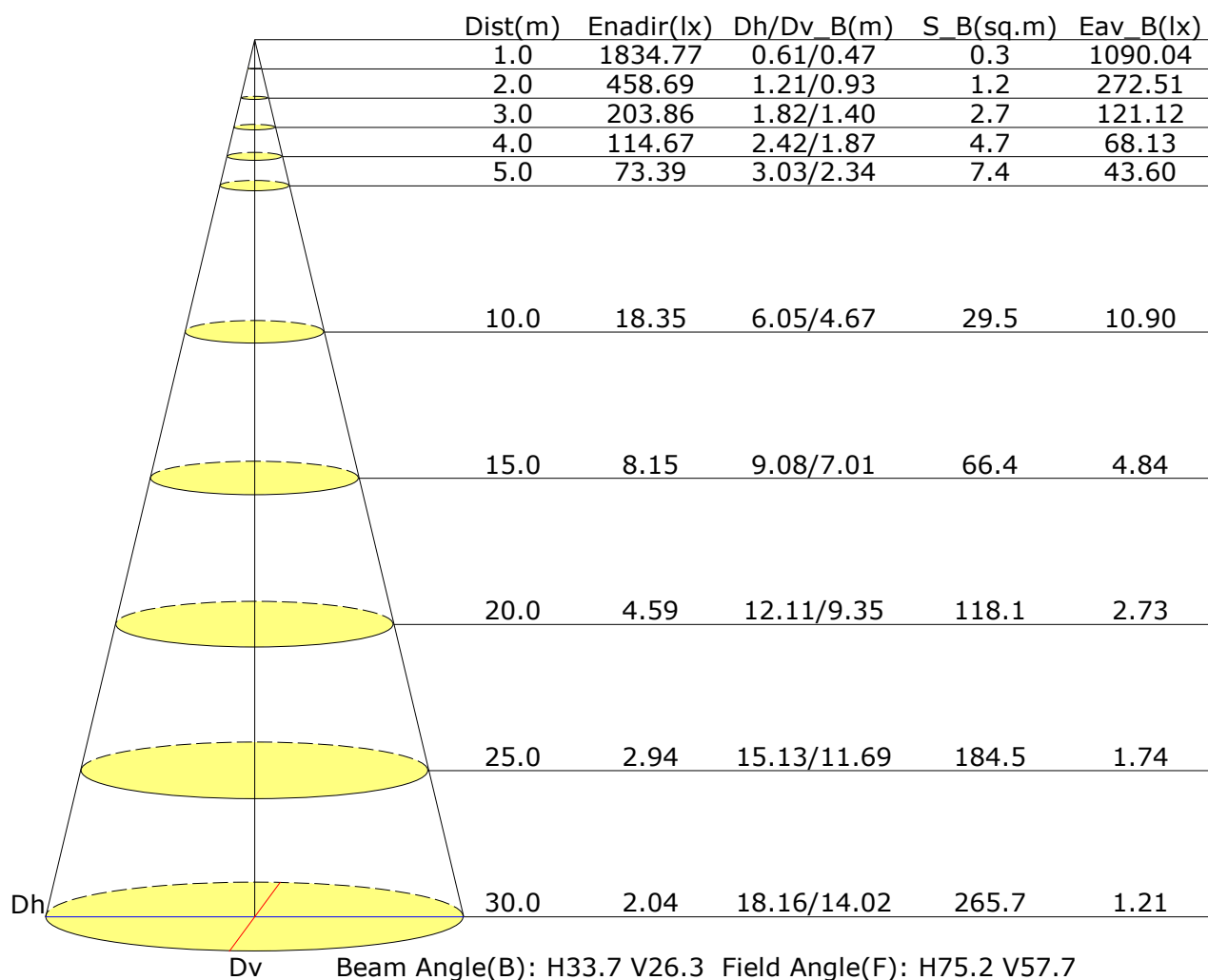


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	114	76	48	29	15	5	1	0	0
C90	5	2	2	1	1	1	1	1	0
C180	90	57	35	19	8	2	1	0	0
C270	285	192	136	103	83	66	54	36	12

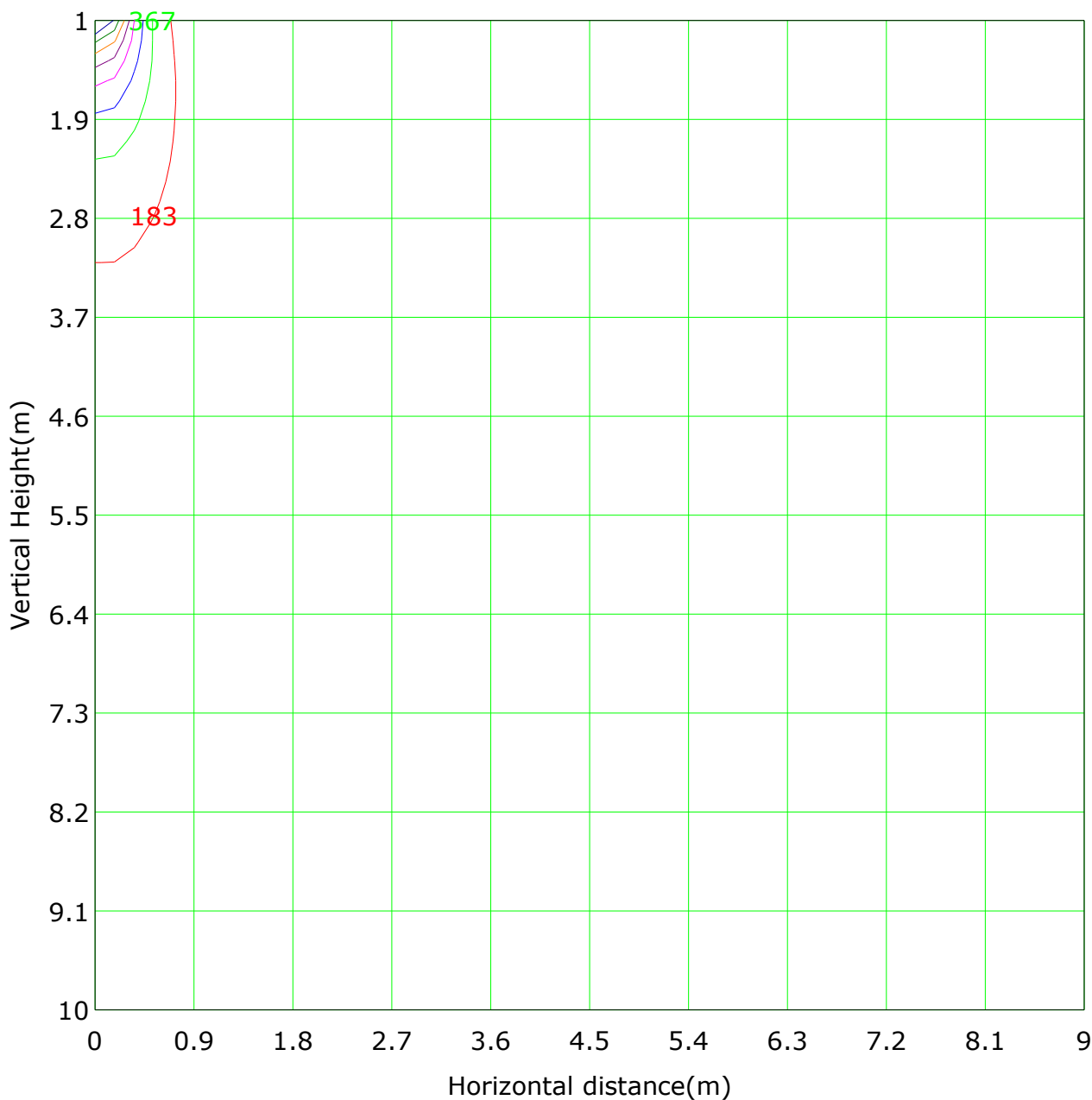
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Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
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Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 1834.8 lx

— (10%): 183.5 lx	— (20%): 367.0 lx
— (30%): 550.4 lx	— (40%): 733.9 lx
— (50%): 917.4 lx	— (60%): 1100.9 lx
— (70%): 1284.3 lx	— (80%): 1467.8 lx

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Humidity: 65
Inspector:

Area Flux Table

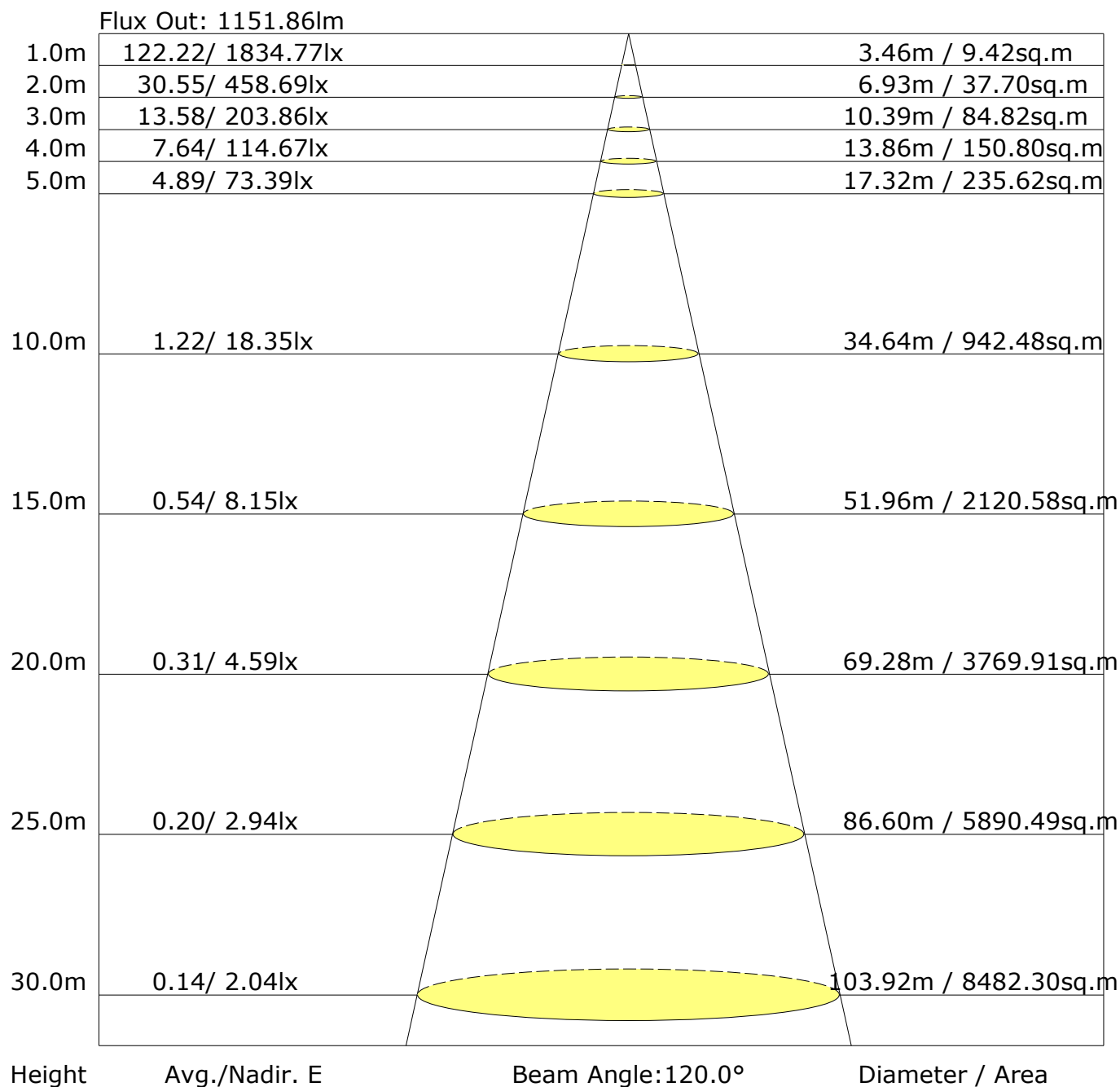
Unit: lm

Vertical plane	Horizontal plane																		Flux(T)	Flux(E)	
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80			90
-90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0
-80	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.5	1.3	1.0	0.7	0.4	0.2	0.1	0.0	0.0	0.0	10.1	0.0
-70	0.0	0.0	0.1	0.3	0.6	1.0	1.5	2.0	2.4	2.4	2.0	1.5	1.0	0.6	0.3	0.1	0.0	0.0	0.0	16.0	0.0
-60	0.0	0.0	0.2	0.4	0.8	1.5	2.3	3.2	4.0	4.0	3.3	2.4	1.6	0.9	0.4	0.2	0.0	0.0	0.0	25.2	0.0
-50	0.0	0.0	0.2	0.5	1.1	2.3	4.0	6.2	8.2	8.3	6.3	4.2	2.4	1.3	0.6	0.2	0.0	0.0	0.0	45.7	6.8
-40	0.0	0.0	0.2	0.6	1.6	3.5	7.2	12.6	18.3	18.4	12.9	7.5	3.8	1.8	0.7	0.2	0.0	0.0	0.0	89.3	65.1
-30	0.0	0.0	0.2	0.7	2.0	5.1	11.8	24.6	40.9	41.3	25.4	12.6	5.6	2.3	0.9	0.2	0.0	0.0	0.0	173.7	155.8
-20	0.0	0.0	0.2	0.7	2.3	6.3	16.3	38.8	71.2	72.3	41.0	17.8	7.0	2.7	0.9	0.2	0.0	0.0	0.0	277.8	262.1
-10	0.0	0.0	0.1	0.7	2.2	6.0	15.6	37.2	65.8	68.3	41.6	18.1	7.1	2.7	0.9	0.2	0.0	0.0	0.0	266.5	250.9
0	0.0	0.0	0.1	0.6	1.9	4.7	10.9	22.5	33.9	36.4	27.0	13.5	5.8	2.3	0.8	0.2	0.0	0.0	0.0	160.7	143.2
10	0.0	0.0	0.1	0.5	1.4	3.3	6.7	10.9	11.6	12.8	13.0	8.1	4.1	1.8	0.7	0.2	0.0	0.0	0.0	75.1	43.9
20	0.0	0.0	0.1	0.3	0.9	2.0	3.4	4.3	3.5	3.9	5.2	4.1	2.5	1.2	0.5	0.1	0.0	0.0	0.0	32.0	0.0
30	0.0	0.0	0.0	0.2	0.5	1.0	1.5	1.7	1.1	1.3	2.0	1.9	1.3	0.7	0.3	0.1	0.0	0.0	0.0	13.7	0.0
40	0.0	0.0	0.0	0.1	0.3	0.5	0.6	0.6	0.4	0.4	0.7	0.8	0.7	0.4	0.2	0.0	0.0	0.0	0.0	5.6	0.0
50	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	2.1	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flux(T)	0.0	0.3	1.5	5.9	16.3	38.2	83.2	166.4	263.2	271.9	182.4	94.0	44.1	19.4	7.6	2.1	0.3	0.0	0.0	1197	
Flux(E)	0.0	0.0	0.0	0.0	0.0	2.9	55.4	142.9	241.8	250.6	159.2	67.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0		928

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Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
Humidity: 65
Inspector:

The Average Illuminance Effective Figure



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Test Type: TYPE C
Temperature: 26
Operator: Jacky

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Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
Humidity: 65
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 1220lm ($8\log(F/F_0) = 0.7$).

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
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	1835.9	1.8	1.8	0.14	0.14
1.0-2.0	1825.0	5.2	7.0	0.43	0.57
2.0-3.0	1806.5	8.6	15.6	0.71	1.28
3.0-4.0	1795.4	12.0	27.7	0.99	2.27
4.0-5.0	1785.7	15.4	43.0	1.26	3.53
5.0-6.0	1769.5	18.6	61.6	1.52	5.05
6.0-7.0	1744.0	21.7	83.3	1.77	6.83
7.0-8.0	1713.8	24.5	107.8	2.01	8.84
8.0-9.0	1679.1	27.2	135.0	2.23	11.07
9.0-10.0	1637.6	29.6	164.7	2.43	13.50
10.0-11.0	1589.2	31.8	196.4	2.60	16.10
11.0-12.0	1537.3	33.6	230.0	2.76	18.86
12.0-13.0	1482.5	35.2	265.2	2.88	21.74
13.0-14.0	1421.0	36.4	301.6	2.98	24.72
14.0-15.0	1354.8	37.2	338.8	3.05	27.77
15.0-16.0	1284.5	37.6	376.4	3.09	30.86
16.0-17.0	1210.6	37.7	414.1	3.09	33.95
17.0-18.0	1137.4	37.5	451.6	3.07	37.02
18.0-19.0	1067.4	37.1	488.8	3.04	40.07
19.0-20.0	1000.0	36.6	525.4	3.00	43.07
20.0-21.0	929.4	35.7	561.1	2.93	46.00
21.0-22.0	859.9	34.6	595.6	2.83	48.83
22.0-23.0	796.2	33.4	629.1	2.74	51.57
23.0-24.0	735.3	32.2	661.2	2.64	54.20
24.0-25.0	677.1	30.8	692.0	2.52	56.73
25.0-26.0	623.8	29.5	721.4	2.41	59.14
26.0-27.0	575.0	28.1	749.6	2.31	61.45
27.0-28.0	528.2	26.7	776.3	2.19	63.64
28.0-29.0	484.9	25.4	801.7	2.08	65.72
29.0-30.0	446.1	24.1	825.8	1.97	67.69
30.0-31.0	410.2	22.8	848.6	1.87	69.57
31.0-32.0	376.5	21.6	870.2	1.77	71.33
32.0-33.0	345.3	20.3	890.5	1.67	73.00
33.0-34.0	317.5	19.2	909.8	1.58	74.58
34.0-35.0	292.2	18.1	927.9	1.49	76.06
35.0-36.0	269.2	17.1	945.0	1.41	77.47

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 Humidity: 65
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	247.6	16.2	961.2	1.32	78.79
37.0-38.0	228.0	15.2	976.4	1.25	80.04
38.0-39.0	211.1	14.4	990.8	1.18	81.22
39.0-40.0	194.6	13.6	1004.4	1.11	82.34
40.0-41.0	179.0	12.7	1017.1	1.04	83.38
41.0-42.0	164.8	12.0	1029.1	0.98	84.36
42.0-43.0	151.7	11.2	1040.4	0.92	85.28
43.0-44.0	139.6	10.5	1050.9	0.86	86.15
44.0-45.0	128.6	9.9	1060.8	0.81	86.96
45.0-46.0	118.1	9.2	1070.0	0.76	87.72
46.0-47.0	107.9	8.6	1078.6	0.70	88.42
47.0-48.0	99.2	8.0	1086.6	0.66	89.08
48.0-49.0	92.0	7.6	1094.2	0.62	89.70
49.0-50.0	85.3	7.1	1101.3	0.58	90.28
50.0-51.0	78.7	6.7	1107.9	0.55	90.82
51.0-52.0	72.7	6.2	1114.2	0.51	91.34
52.0-53.0	67.3	5.9	1120.0	0.48	91.82
53.0-54.0	62.3	5.5	1125.5	0.45	92.27
54.0-55.0	57.5	5.1	1130.7	0.42	92.69
55.0-56.0	53.2	4.8	1135.5	0.39	93.08
56.0-57.0	49.4	4.5	1140.0	0.37	93.45
57.0-58.0	45.6	4.2	1144.2	0.35	93.80
58.0-59.0	42.2	3.9	1148.2	0.32	94.12
59.0-60.0	39.3	3.7	1151.9	0.30	94.42
60.0-61.0	36.7	3.5	1155.4	0.29	94.71
61.0-62.0	34.1	3.3	1158.7	0.27	94.98
62.0-63.0	31.7	3.1	1161.7	0.25	95.23
63.0-64.0	29.6	2.9	1164.6	0.24	95.47
64.0-65.0	27.6	2.7	1167.4	0.22	95.70
65.0-66.0	25.7	2.6	1169.9	0.21	95.91
66.0-67.0	23.9	2.4	1172.3	0.20	96.10
67.0-68.0	22.2	2.2	1174.6	0.18	96.29
68.0-69.0	20.6	2.1	1176.7	0.17	96.46
69.0-70.0	19.3	2.0	1178.7	0.16	96.62
70.0-71.0	18.0	1.9	1180.5	0.15	96.78
71.0-72.0	16.9	1.8	1182.3	0.14	96.92

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 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	16.0	1.7	1184.0	0.14	97.06
73.0-74.0	15.2	1.6	1185.6	0.13	97.19
74.0-75.0	14.5	1.5	1187.1	0.13	97.31
75.0-76.0	13.8	1.5	1188.6	0.12	97.43
76.0-77.0	13.0	1.4	1190.0	0.11	97.55
77.0-78.0	11.9	1.3	1191.2	0.10	97.65
78.0-79.0	10.8	1.2	1192.4	0.10	97.75
79.0-80.0	9.7	1.0	1193.4	0.09	97.83
80.0-81.0	8.5	0.9	1194.4	0.08	97.91
81.0-82.0	7.2	0.8	1195.1	0.06	97.97
82.0-83.0	5.8	0.6	1195.8	0.05	98.02
83.0-84.0	4.7	0.5	1196.3	0.04	98.06
84.0-85.0	3.6	0.4	1196.7	0.03	98.10
85.0-86.0	2.5	0.3	1196.9	0.02	98.12
86.0-87.0	1.3	0.1	1197.1	0.01	98.13
87.0-88.0	0.3	0.0	1197.1	0.00	98.13
88.0-89.0	0.0	0.0	1197.1	0.00	98.13
89.0-90.0	0.0	0.0	1197.1	0.00	98.13
90.0-91.0	0.0	0.0	1197.1	0.00	98.13
91.0-92.0	0.1	0.0	1197.1	0.00	98.13
92.0-93.0	0.2	0.0	1197.1	0.00	98.14
93.0-94.0	0.3	0.0	1197.2	0.00	98.14
94.0-95.0	0.5	0.1	1197.2	0.00	98.14
95.0-96.0	0.6	0.1	1197.3	0.01	98.15
96.0-97.0	0.7	0.1	1197.4	0.01	98.15
97.0-98.0	0.7	0.1	1197.4	0.01	98.16
98.0-99.0	0.8	0.1	1197.5	0.01	98.17
99.0-100.0	0.8	0.1	1197.6	0.01	98.18
100.0-101.0	0.9	0.1	1197.7	0.01	98.18
101.0-102.0	0.9	0.1	1197.8	0.01	98.19
102.0-103.0	1.0	0.1	1197.9	0.01	98.20
103.0-104.0	1.4	0.1	1198.1	0.01	98.21
104.0-105.0	1.8	0.2	1198.3	0.02	98.23
105.0-106.0	2.0	0.2	1198.5	0.02	98.24
106.0-107.0	2.1	0.2	1198.7	0.02	98.26
107.0-108.0	2.2	0.2	1198.9	0.02	98.28

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
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	2.3	0.2	1199.2	0.02	98.30
109.0-110.0	2.4	0.2	1199.4	0.02	98.32
110.0-111.0	2.5	0.3	1199.6	0.02	98.34
111.0-112.0	2.6	0.3	1199.9	0.02	98.36
112.0-113.0	2.7	0.3	1200.2	0.02	98.39
113.0-114.0	2.9	0.3	1200.5	0.02	98.41
114.0-115.0	3.1	0.3	1200.8	0.03	98.43
115.0-116.0	3.2	0.3	1201.1	0.03	98.46
116.0-117.0	3.4	0.3	1201.4	0.03	98.49
117.0-118.0	3.5	0.3	1201.8	0.03	98.52
118.0-119.0	3.7	0.4	1202.1	0.03	98.54
119.0-120.0	3.7	0.4	1202.5	0.03	98.57
120.0-121.0	3.8	0.4	1202.8	0.03	98.60
121.0-122.0	3.8	0.4	1203.2	0.03	98.63
122.0-123.0	3.8	0.4	1203.5	0.03	98.66
123.0-124.0	3.8	0.4	1203.9	0.03	98.69
124.0-125.0	3.8	0.3	1204.2	0.03	98.72
125.0-126.0	3.8	0.3	1204.6	0.03	98.75
126.0-127.0	3.9	0.3	1204.9	0.03	98.77
127.0-128.0	3.9	0.3	1205.3	0.03	98.80
128.0-129.0	3.9	0.3	1205.6	0.03	98.83
129.0-130.0	3.9	0.3	1205.9	0.03	98.86
130.0-131.0	3.9	0.3	1206.3	0.03	98.88
131.0-132.0	4.0	0.3	1206.6	0.03	98.91
132.0-133.0	4.1	0.3	1206.9	0.03	98.94
133.0-134.0	4.3	0.3	1207.3	0.03	98.97
134.0-135.0	4.5	0.4	1207.6	0.03	99.00
135.0-136.0	4.7	0.4	1208.0	0.03	99.02
136.0-137.0	5.0	0.4	1208.4	0.03	99.06
137.0-138.0	5.2	0.4	1208.7	0.03	99.09
138.0-139.0	5.5	0.4	1209.1	0.03	99.12
139.0-140.0	5.8	0.4	1209.6	0.03	99.15
140.0-141.0	6.1	0.4	1210.0	0.03	99.19
141.0-142.0	6.4	0.4	1210.4	0.04	99.22
142.0-143.0	6.6	0.4	1210.9	0.04	99.26
143.0-144.0	6.9	0.4	1211.3	0.04	99.30

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.684 m [K=1.2000]
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	7.1	0.5	1211.8	0.04	99.33
145.0-146.0	7.3	0.5	1212.2	0.04	99.37
146.0-147.0	7.5	0.5	1212.7	0.04	99.41
147.0-148.0	7.6	0.4	1213.1	0.04	99.45
148.0-149.0	7.7	0.4	1213.6	0.04	99.48
149.0-150.0	7.7	0.4	1214.0	0.04	99.52
150.0-151.0	7.6	0.4	1214.4	0.03	99.55
151.0-152.0	7.4	0.4	1214.8	0.03	99.58
152.0-153.0	6.9	0.3	1215.1	0.03	99.61
153.0-154.0	6.5	0.3	1215.4	0.03	99.64
154.0-155.0	6.5	0.3	1215.7	0.03	99.66
155.0-156.0	6.7	0.3	1216.1	0.02	99.69
156.0-157.0	6.7	0.3	1216.3	0.02	99.71
157.0-158.0	6.8	0.3	1216.6	0.02	99.73
158.0-159.0	6.9	0.3	1216.9	0.02	99.76
159.0-160.0	6.9	0.3	1217.2	0.02	99.78
160.0-161.0	7.0	0.3	1217.4	0.02	99.80
161.0-162.0	7.0	0.2	1217.7	0.02	99.82
162.0-163.0	7.1	0.2	1217.9	0.02	99.84
163.0-164.0	7.1	0.2	1218.1	0.02	99.86
164.0-165.0	7.1	0.2	1218.3	0.02	99.87
165.0-166.0	7.1	0.2	1218.5	0.02	99.89
166.0-167.0	7.1	0.2	1218.7	0.01	99.90
167.0-168.0	7.1	0.2	1218.9	0.01	99.92
168.0-169.0	7.2	0.2	1219.0	0.01	99.93
169.0-170.0	7.2	0.1	1219.2	0.01	99.94
170.0-171.0	7.2	0.1	1219.3	0.01	99.95
171.0-172.0	7.2	0.1	1219.4	0.01	99.96
172.0-173.0	7.3	0.1	1219.5	0.01	99.97
173.0-174.0	7.3	0.1	1219.6	0.01	99.98
174.0-175.0	7.3	0.1	1219.7	0.01	99.99
175.0-176.0	7.3	0.1	1219.8	0.01	99.99
176.0-177.0	7.4	0.0	1219.8	0.00	99.99
177.0-178.0	7.4	0.0	1219.9	0.00	100.00
178.0-179.0	7.4	0.0	1219.9	0.00	100.00
179.0-180.0	7.4	0.0	1219.9	0.00	100.00

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1060.78 lm

%lum = 87.0%

%lamp = 87.0%

cone flux(120°): 1151.86 lm

%lum = 94.4%

%lamp = 94.4%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	1834.8	1834.8	1834.8	1834.8	1834.8					
G1.0	1845.5	1663.2	1815.9	2023.5	1845.5					
G2.0	1845.7	1469.1	1783.8	2153.2	1845.7					
G3.0	1837.2	1300.8	1745.2	2317.4	1837.2					
G4.0	1818.0	1155.8	1701.9	2487.0	1818.0					
G5.0	1780.8	1021.8	1644.7	2675.8	1780.8					
G6.0	1741.9	901.3	1586.1	2803.4	1741.9					
G7.0	1690.5	782.1	1524.3	2922.8	1690.5					
G8.0	1637.5	692.4	1453.4	3007.5	1637.5					
G9.0	1577.4	612.7	1382.7	3069.1	1577.4					
G10.0	1507.2	529.0	1313.5	3108.9	1507.2					
G11.0	1439.6	461.7	1235.4	3118.5	1439.6					
G12.0	1370.0	404.1	1165.9	3103.3	1370.0					
G13.0	1305.1	349.2	1097.8	3064.8	1305.1					
G14.0	1225.4	306.0	1023.8	2995.8	1225.4					
G15.0	1153.0	263.1	958.5	2912.5	1153.0					
G16.0	1082.1	227.6	868.7	2810.2	1082.1					
G17.0	1006.7	199.9	811.0	2678.8	1006.7					
G18.0	940.8	175.8	755.1	2531.5	940.8					
G19.0	877.3	154.9	715.0	2389.0	877.3					
G20.0	817.0	134.5	664.5	2247.8	817.0					
G21.0	754.4	111.8	616.7	2088.9	754.4					
G22.0	700.7	98.5	563.0	1944.9	700.7					
G23.0	649.5	85.8	522.1	1804.9	649.5					
G24.0	602.2	75.7	484.1	1657.9	602.2					
G25.0	553.3	67.0	445.8	1530.6	553.3					
G26.0	512.3	59.2	413.3	1408.9	512.3					
G27.0	474.1	51.8	383.8	1296.4	474.1					
G28.0	438.4	45.9	353.6	1182.0	438.4					
G29.0	404.7	40.6	328.3	1085.3	404.7					
G30.0	374.4	36.2	304.2	994.7	374.4					
G31.0	344.3	32.4	281.5	913.9	344.3					
G32.0	319.5	28.9	258.6	832.7	319.5					
G33.0	294.3	24.0	239.2	765.3	294.3					
G34.0	273.1	21.5	221.2	701.8	273.1					
G35.0	253.1	19.1	204.5	643.3	253.1					
G36.0	234.0	17.1	189.1	593.4	234.0					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	214.7	15.4	173.4	543.9	214.7					
G38.0	198.6	13.7	160.4	504.2	198.6					
G39.0	183.6	12.3	148.0	467.9	183.6					
G40.0	168.7	11.0	135.7	429.5	168.7					
G41.0	155.9	9.7	125.4	395.8	155.9					
G42.0	144.1	7.8	115.6	364.0	144.1					
G43.0	134.6	6.7	105.8	335.4	134.6					
G44.0	123.4	5.9	97.6	307.6	123.4					
G45.0	114.0	5.0	90.0	285.1	114.0					
G46.0	101.2	4.0	82.2	263.2	101.2					
G47.0	93.3	3.0	75.5	241.1	93.3					
G48.0	85.4	2.3	69.2	223.4	85.4					
G49.0	82.1	2.2	63.5	207.7	82.1					
G50.0	75.7	2.0	57.4	191.9	75.7					
G51.0	69.0	1.9	52.3	179.2	69.0					
G52.0	63.5	1.9	47.4	166.7	63.5					
G53.0	58.3	1.7	42.2	156.5	58.3					
G54.0	53.4	1.7	38.2	146.3	53.4					
G55.0	48.4	1.5	34.5	136.3	48.4					
G56.0	44.0	1.4	30.8	128.6	44.0					
G57.0	39.9	1.3	27.5	121.2	39.9					
G58.0	35.6	1.3	24.5	113.7	35.6					
G59.0	31.1	1.2	21.5	108.3	31.1					
G60.0	28.8	1.1	18.7	103.2	28.8					
G61.0	25.8	1.0	16.4	98.5	25.8					
G62.0	22.6	0.9	14.0	93.9	22.6					
G63.0	19.8	0.9	11.9	89.9	19.8					
G64.0	17.3	0.9	9.9	86.3	17.3					
G65.0	15.1	0.8	8.0	82.6	15.1					
G66.0	12.6	0.7	6.3	79.3	12.6					
G67.0	10.5	0.7	4.8	76.1	10.5					
G68.0	8.7	0.7	3.5	72.5	8.7					
G69.0	7.0	0.7	2.7	69.4	7.0					
G70.0	5.3	0.7	2.0	66.4	5.3					
G71.0	3.8	0.7	1.9	63.4	3.8					
G72.0	2.8	0.7	1.8	60.4	2.8					
G73.0	1.8	0.7	1.6	58.0	1.8					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	1.2	0.7	1.4	56.1	1.2					
G75.0	0.8	0.7	1.0	54.0	0.8					
G76.0	0.7	0.7	0.8	52.0	0.7					
G77.0	0.0	0.7	0.0	48.9	0.0					
G78.0	0.0	0.7	0.0	44.8	0.0					
G79.0	0.0	0.7	0.0	40.2	0.0					
G80.0	0.0	0.7	0.0	36.1	0.0					
G81.0	0.0	0.0	0.0	31.6	0.0					
G82.0	0.0	0.0	0.0	25.9	0.0					
G83.0	0.0	0.0	0.0	20.7	0.0					
G84.0	0.0	0.0	0.0	16.5	0.0					
G85.0	0.0	0.0	0.0	12.3	0.0					
G86.0	0.0	0.0	0.0	7.8	0.0					
G87.0	0.0	0.0	0.0	2.3	0.0					
G88.0	0.0	0.0	0.0	0.0	0.0					
G89.0	0.0	0.0	0.0	0.0	0.0					
G90.0	0.0	0.0	0.0	0.0	0.0					
G91.0	0.0	0.0	0.0	0.0	0.0					
G92.0	0.0	0.7	0.0	0.0	0.0					
G93.0	0.0	0.7	0.0	0.0	0.0					
G94.0	0.0	0.8	0.7	0.0	0.0					
G95.0	0.8	0.9	0.8	0.0	0.8					
G96.0	0.9	1.0	0.8	0.0	0.9					
G97.0	1.0	1.0	0.8	0.0	1.0					
G98.0	1.0	1.1	0.9	0.0	1.0					
G99.0	1.1	1.3	0.8	0.0	1.1					
G100.0	1.0	1.3	0.9	0.0	1.0					
G101.0	1.2	1.5	1.0	0.0	1.2					
G102.0	1.1	1.5	1.1	0.0	1.1					
G103.0	1.3	1.5	1.4	0.0	1.3					
G104.0	2.9	1.6	2.3	0.0	2.9					
G105.0	3.6	1.6	2.5	0.0	3.6					
G106.0	3.9	1.7	2.7	0.0	3.9					
G107.0	4.0	1.8	2.9	0.0	4.0					
G108.0	4.0	1.9	2.9	0.0	4.0					
G109.0	4.1	2.0	3.1	0.0	4.1					
G110.0	4.2	2.1	3.3	0.0	4.2					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	4.4	2.2	3.5	0.0	4.4					
G112.0	4.5	2.3	3.7	0.0	4.5					
G113.0	4.6	2.3	3.9	0.0	4.6					
G114.0	4.8	2.5	4.0	0.7	4.8					
G115.0	5.1	2.6	4.2	0.7	5.1					
G116.0	5.3	2.8	4.4	0.9	5.3					
G117.0	5.4	2.9	4.4	1.1	5.4					
G118.0	5.5	3.1	4.6	1.2	5.5					
G119.0	5.6	3.2	4.8	1.3	5.6					
G120.0	5.5	3.4	4.9	1.3	5.5					
G121.0	5.3	3.6	5.0	1.3	5.3					
G122.0	5.0	3.8	5.0	1.3	5.0					
G123.0	4.8	4.0	5.0	1.4	4.8					
G124.0	4.6	4.3	5.0	1.4	4.6					
G125.0	4.5	4.4	5.0	1.3	4.5					
G126.0	4.4	4.8	4.9	1.4	4.4					
G127.0	4.3	5.0	4.8	1.4	4.3					
G128.0	4.2	5.3	4.8	1.3	4.2					
G129.0	4.0	5.6	4.7	1.3	4.0					
G130.0	3.9	5.9	4.6	1.3	3.9					
G131.0	3.8	6.2	4.5	1.3	3.8					
G132.0	3.8	6.5	4.6	1.3	3.8					
G133.0	4.0	6.9	4.7	1.3	4.0					
G134.0	4.3	7.3	4.8	1.3	4.3					
G135.0	4.5	7.7	5.0	1.4	4.5					
G136.0	4.8	8.1	5.3	1.3	4.8					
G137.0	5.0	8.4	5.6	1.4	5.0					
G138.0	5.3	8.7	5.9	1.5	5.3					
G139.0	5.7	9.0	6.3	1.5	5.7					
G140.0	6.1	9.4	6.6	1.7	6.1					
G141.0	6.6	9.7	6.9	1.7	6.6					
G142.0	7.0	10.0	7.2	1.9	7.0					
G143.0	7.2	10.3	7.4	2.0	7.2					
G144.0	7.5	10.7	7.6	2.2	7.5					
G145.0	7.8	10.9	7.8	2.2	7.8					
G146.0	8.0	11.2	8.0	2.4	8.0					
G147.0	8.2	11.5	8.0	2.6	8.2					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 Humidity: 65
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	8.4	11.7	7.8	2.6	8.4					
G149.0	8.7	11.7	7.6	2.8	8.7					
G150.0	8.5	11.8	7.5	3.0	8.5					
G151.0	8.6	11.5	6.4	3.2	8.6					
G152.0	8.7	11.1	6.1	3.4	8.7					
G153.0	6.6	9.3	6.2	3.7	6.6					
G154.0	6.5	9.1	6.3	3.8	6.5					
G155.0	6.7	9.1	6.5	4.2	6.7					
G156.0	7.0	8.9	6.6	4.4	7.0					
G157.0	7.0	8.7	6.7	4.6	7.0					
G158.0	7.2	8.6	6.8	4.8	7.2					
G159.0	7.2	8.5	6.9	5.0	7.2					
G160.0	7.4	8.3	6.9	5.2	7.4					
G161.0	7.5	8.1	7.0	5.4	7.5					
G162.0	7.6	7.9	7.0	5.6	7.6					
G163.0	7.8	7.7	7.1	5.8	7.8					
G164.0	7.8	7.6	7.2	6.0	7.8					
G165.0	7.8	7.5	7.2	6.2	7.8					
G166.0	7.8	7.3	7.2	6.3	7.8					
G167.0	7.8	7.1	7.2	6.4	7.8					
G168.0	7.9	7.0	7.2	6.5	7.9					
G169.0	8.0	6.8	7.3	6.6	8.0					
G170.0	8.0	6.7	7.3	6.8	8.0					
G171.0	8.0	6.6	7.4	6.8	8.0					
G172.0	8.0	6.7	7.4	6.9	8.0					
G173.0	8.0	6.7	7.4	7.0	8.0					
G174.0	8.0	6.8	7.4	7.0	8.0					
G175.0	8.0	6.8	7.4	7.1	8.0					
G176.0	8.0	6.8	7.5	7.0	8.0					
G177.0	8.0	6.8	7.5	7.2	8.0					
G178.0	7.9	6.9	7.5	7.0	7.9					
G179.0	7.9	6.9	7.6	7.0	7.9					
G180.0	7.8	6.9	7.6	7.0	7.8					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.684 m [K=1.2000]
 Humidity: 65
 Inspector: