

Report No.:

Test Time: 2022-06-29 16:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: VMC34334BL

Current: 0.289 A

Power Factor: 0.986

Voltage: 119.9 V

Power: 34.26 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2135 lm

Downward Ratio: 77%

Horizontal Diffuse Angle(50%): H35.3

Vertical Diffuse Angle(50%): V35.6

Luminaire Efficacy Rating (LER): 62.37

Max. Intensity: 4124.17 cd

S/MH(C0/C180): 0.59

Total Rated Lamp Lumens: 2135.0 lm

Efficiency: 100%

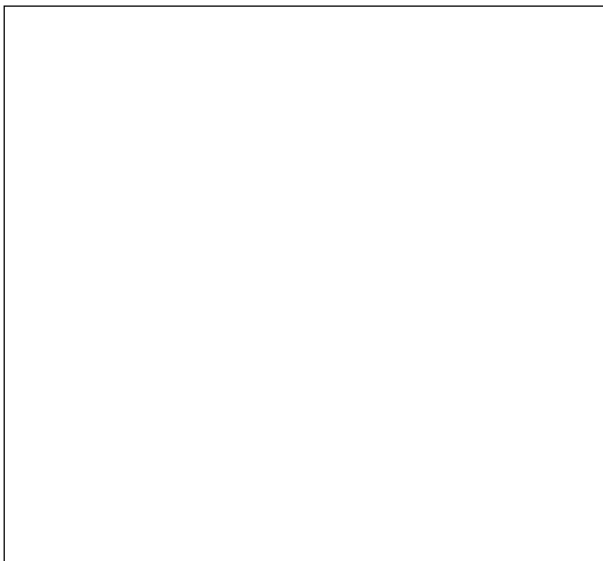
Upward Ratio: 23%

Central Intensity: 4057.6 cd

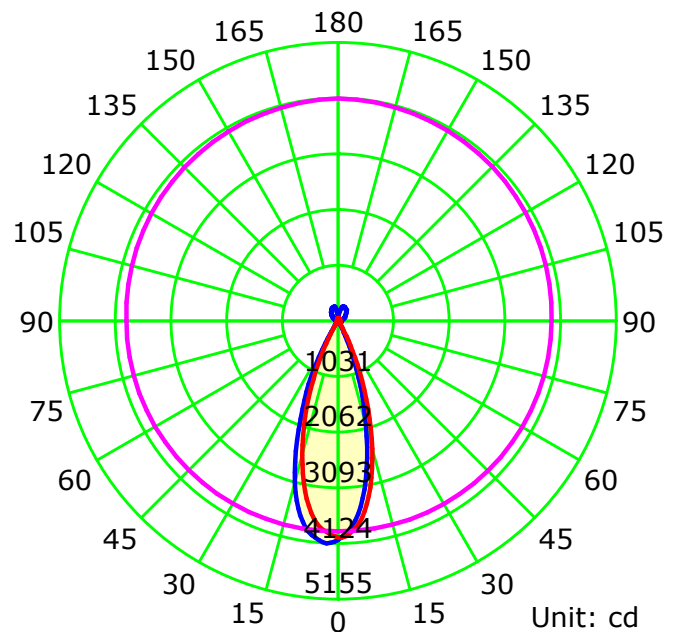
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 0.59

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 35.3°

— C0-C180 — C90-C270 — G3

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

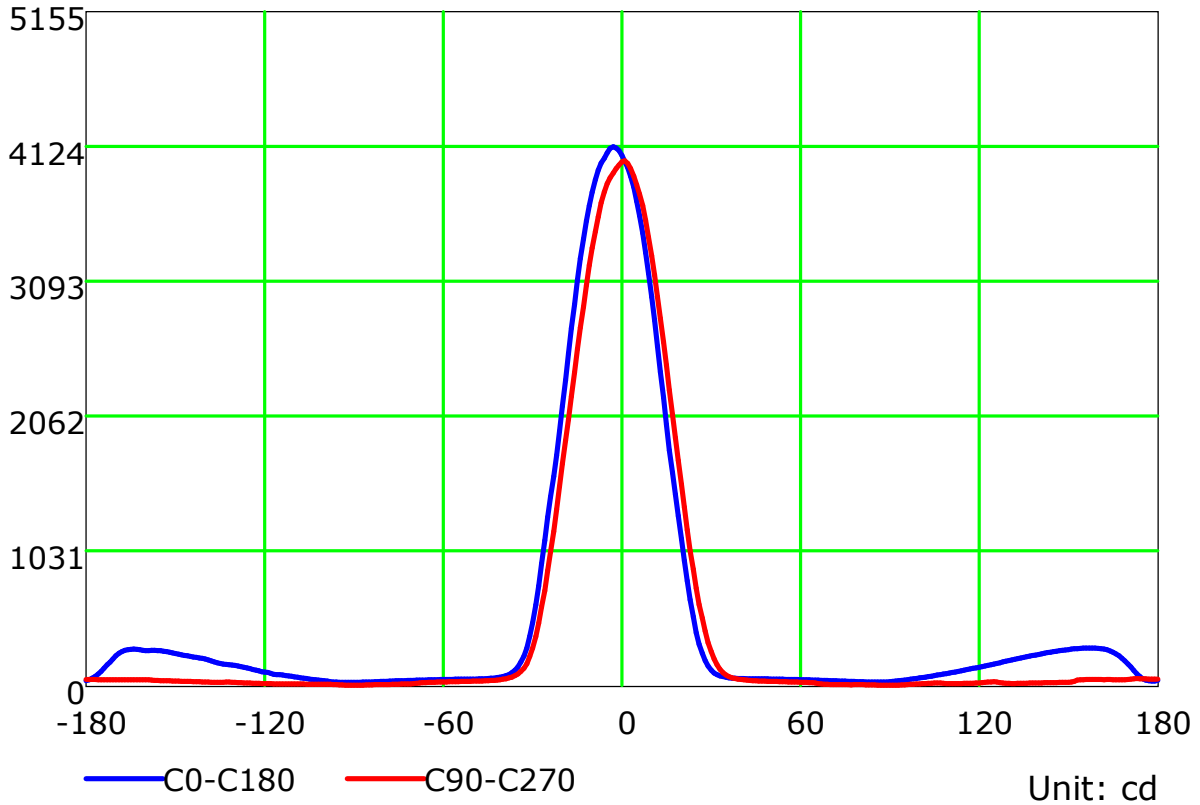
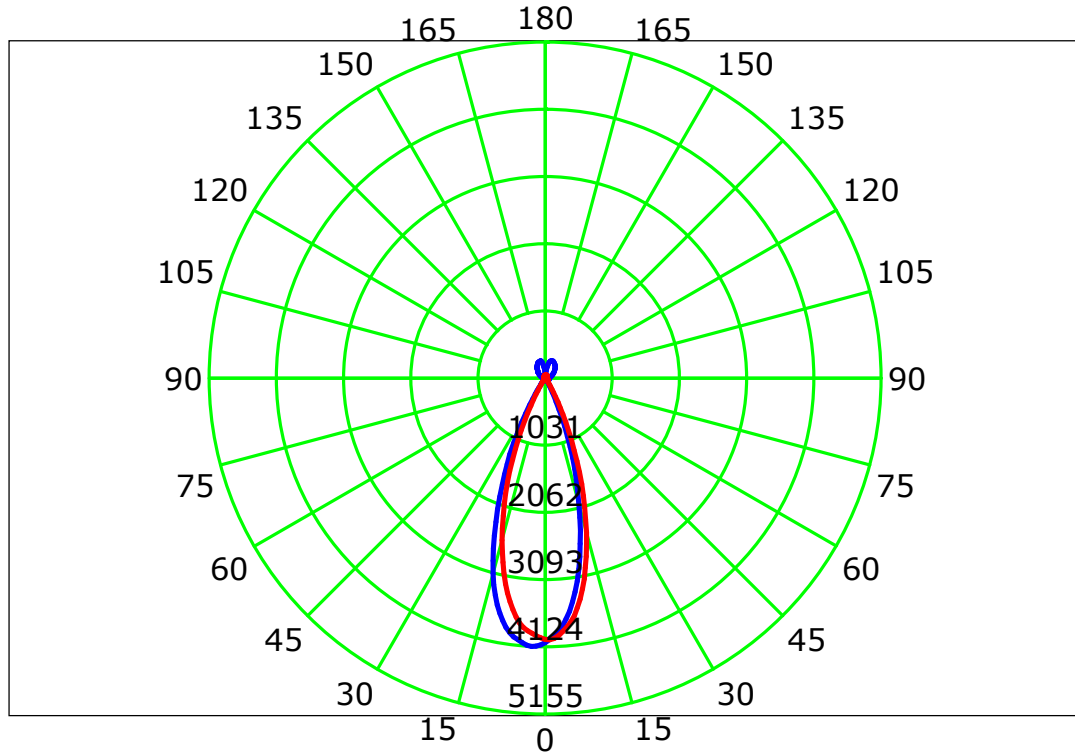
Test Device: GPM-1600

Distance: 6.500 m

Humidity:

Inspector:

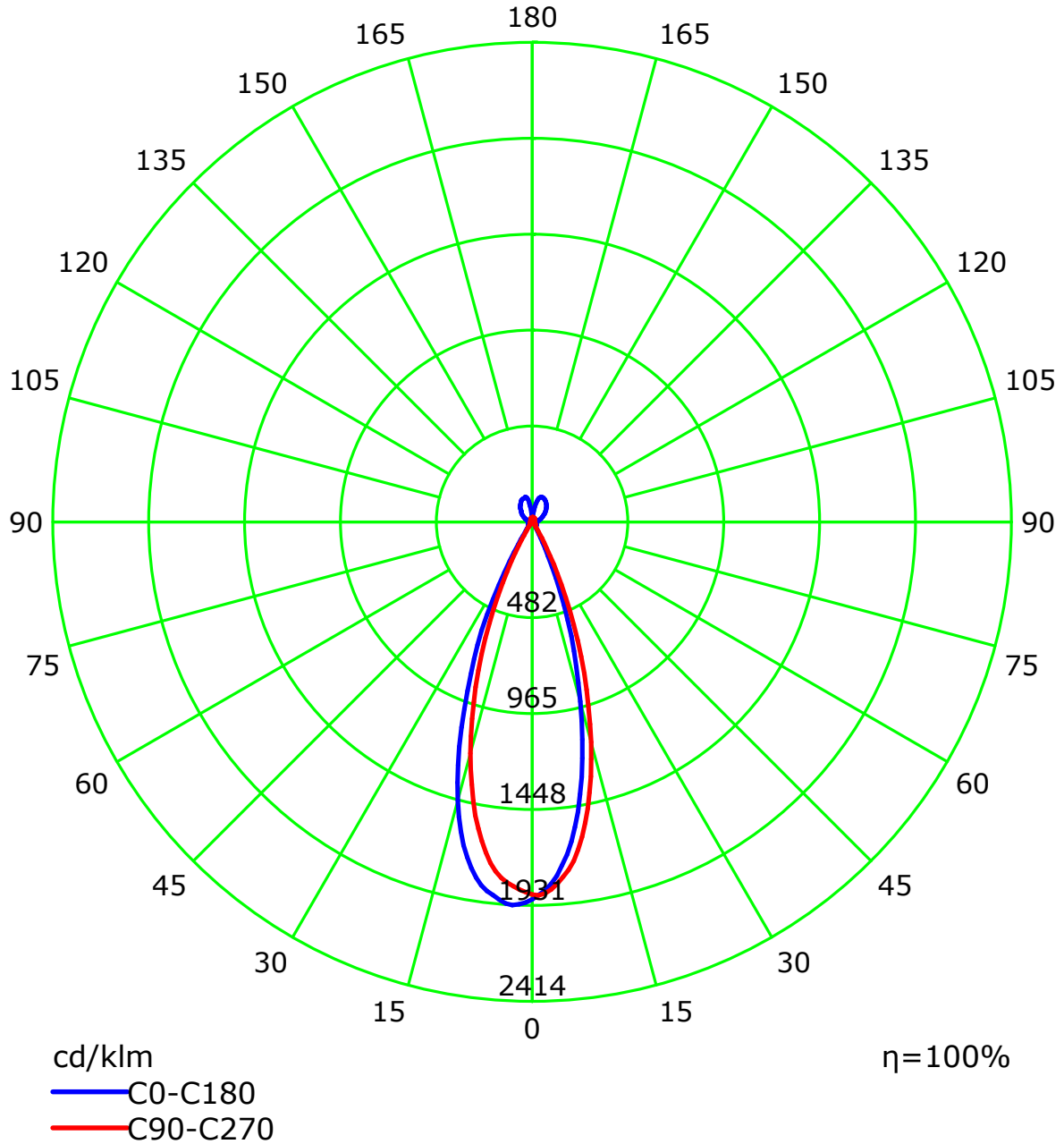
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



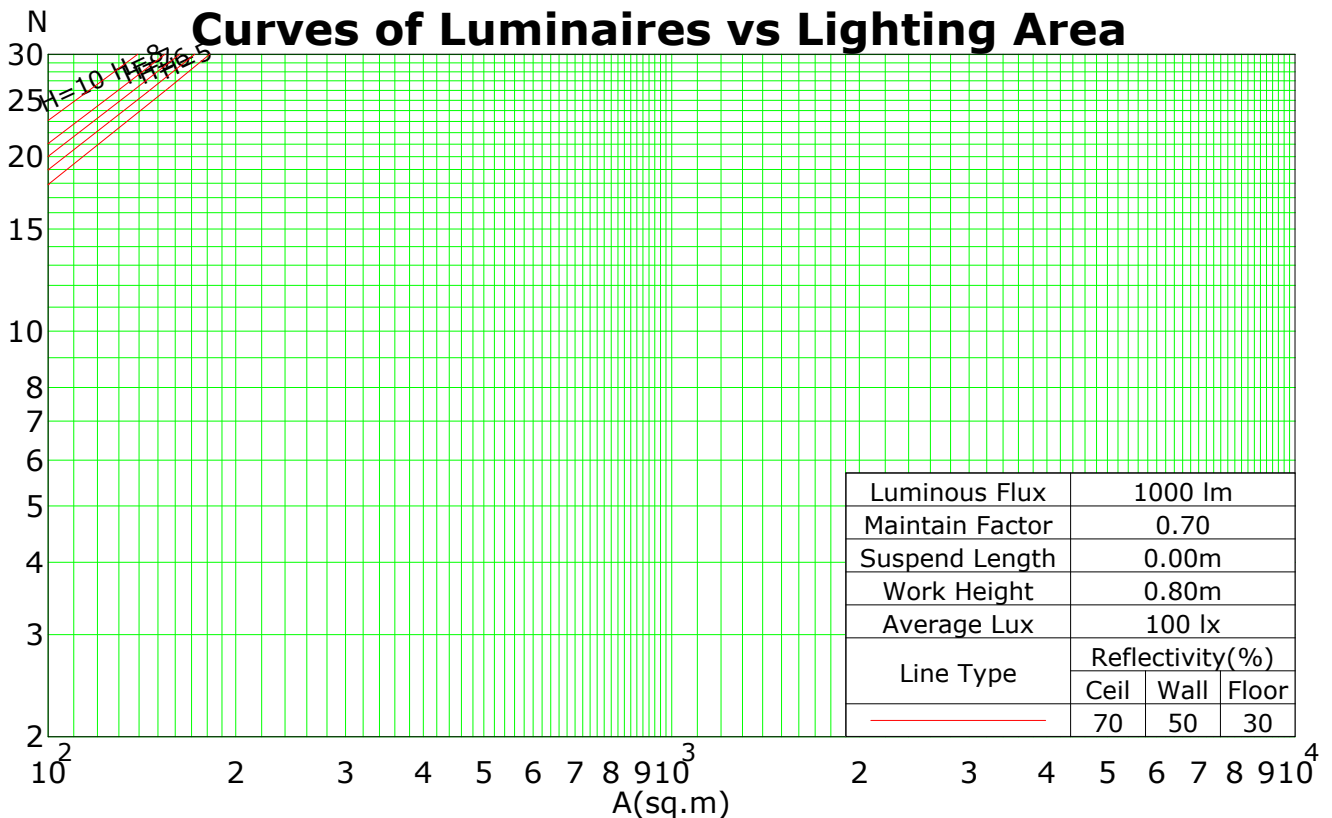
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	107	104	101	99	102	100	97	95	92	90	88	84	83	81	77	76	75	72
2	102	97	92	89	97	93	89	86	86	83	81	79	77	76	74	72	71	68
3	96	90	85	81	93	87	82	79	81	77	75	75	73	71	70	68	67	64
4	92	84	79	75	88	82	77	73	77	73	70	72	69	66	68	65	63	61
5	88	79	74	70	84	77	72	68	73	69	66	69	65	63	65	62	60	58
6	84	75	69	65	81	73	68	64	69	65	62	66	62	60	62	60	58	56
7	80	71	66	62	77	69	64	61	66	62	59	63	60	57	60	57	55	53
8	77	68	62	58	74	66	61	58	63	59	56	61	57	54	58	55	53	51
9	74	65	59	56	71	63	58	55	61	56	54	58	55	52	56	53	51	49
10	71	62	57	53	69	61	56	52	58	54	51	56	53	50	54	51	49	48

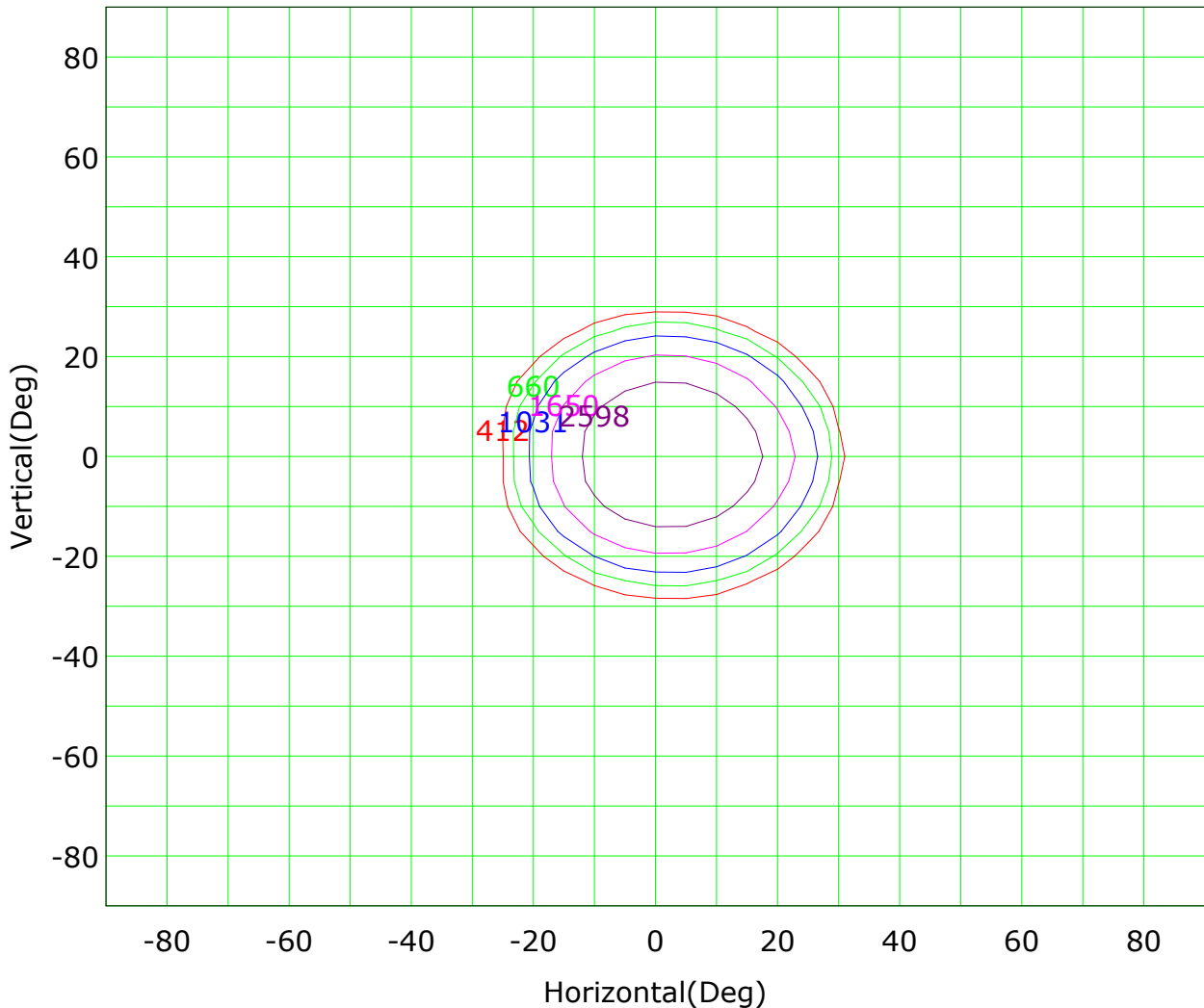
Spacing Criteria (0-180): 0.59
 Spacing Criteria (90-270): 0.59
 Spacing Criteria (Diagonal): 0.57



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 4124 cd

- | | |
|-------------------|-------------------|
| — (10%): 412 cd | — (16%): 660 cd |
| — (25%): 1031 cd | — (40%): 1650 cd |
| — (63%): 2598 cd | — (100%): 4124 cd |

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

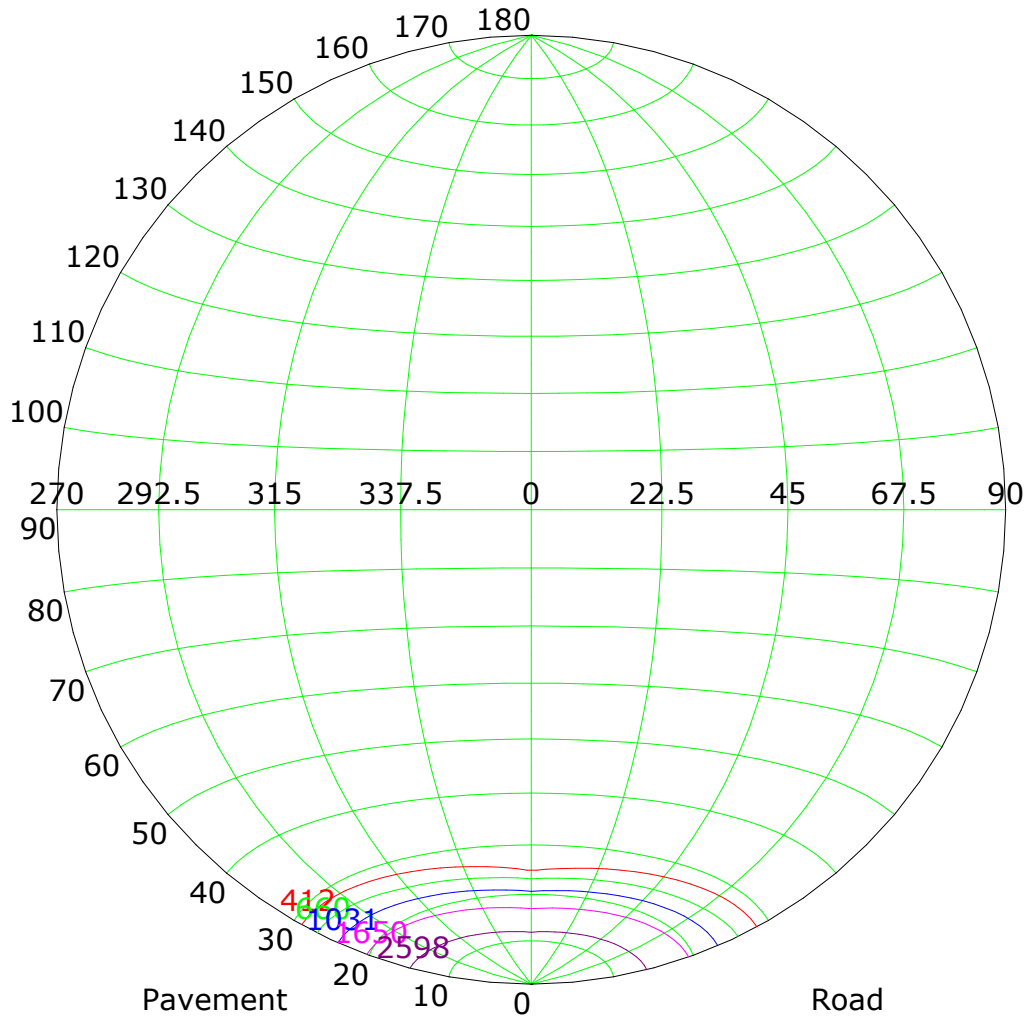
Test Device: GPM-1600

Distance: 6.500 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 4124 cd

— (10%): 412 cd	— (16%): 660 cd
— (25%): 1031 cd	— (40%): 1650 cd
— (63%): 2598 cd	— (100%): 4124 cd

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

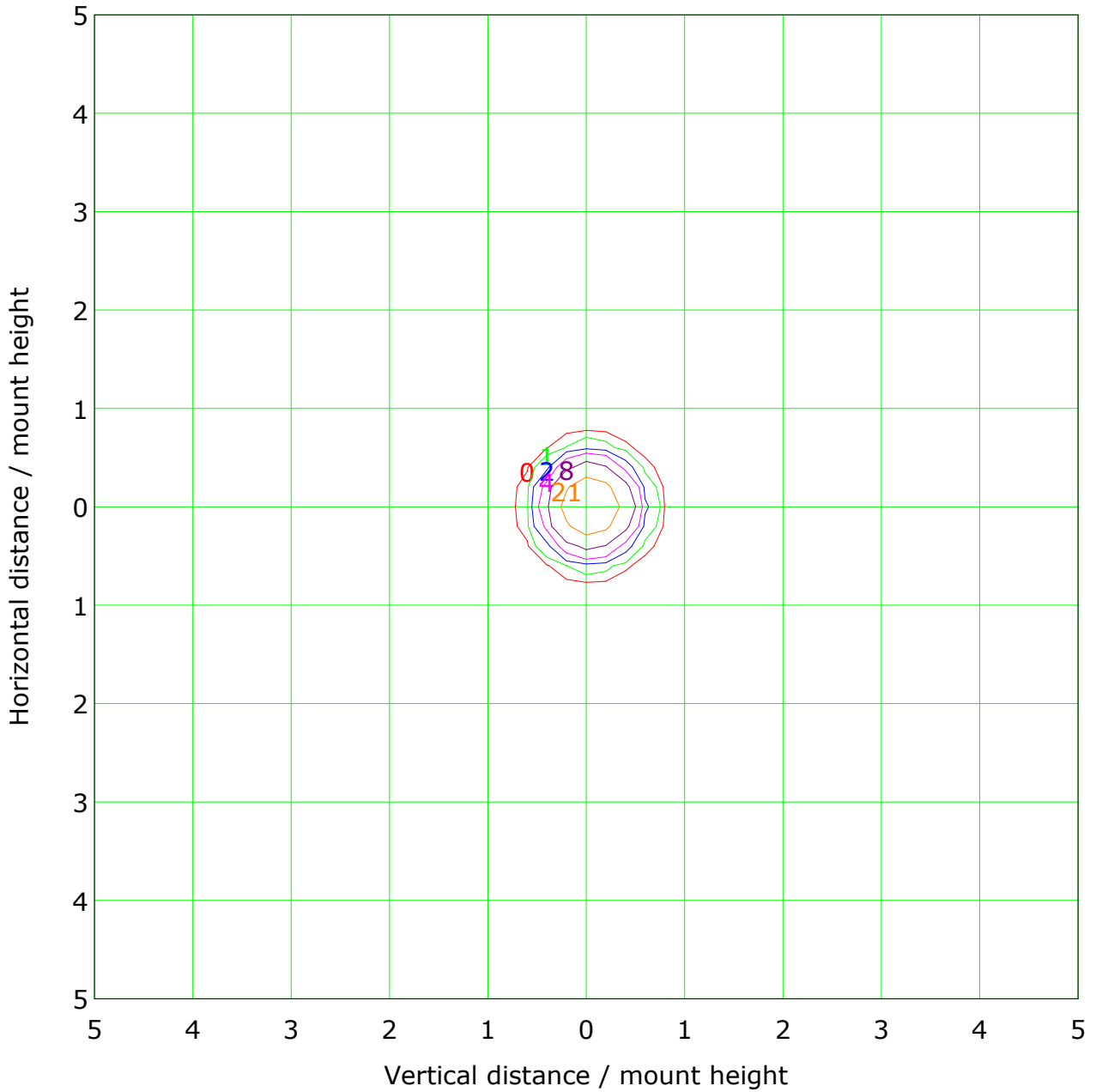
Test Device: GPM-1600

Distance: 6.500 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 41.1 lx	
<ul style="list-style-type: none"> — (1%): 0.4 lx — (5%): 2.1 lx — (20%): 8.2 lx — (100%): 41.1 lx 	<ul style="list-style-type: none"> — (2%): 0.8 lx — (10%): 4.1 lx — (50%): 20.5 lx 		

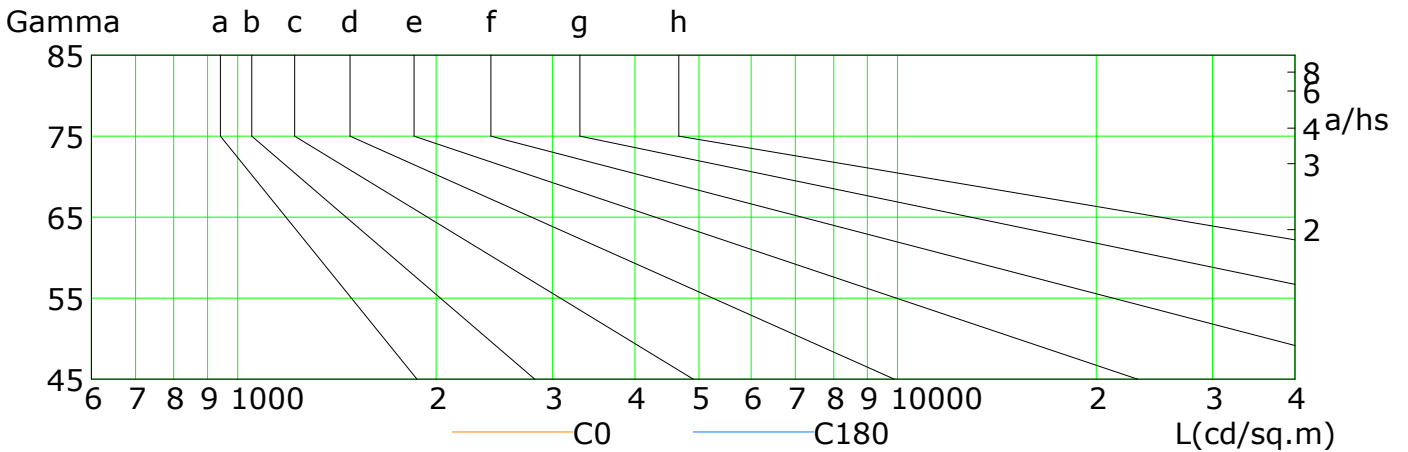
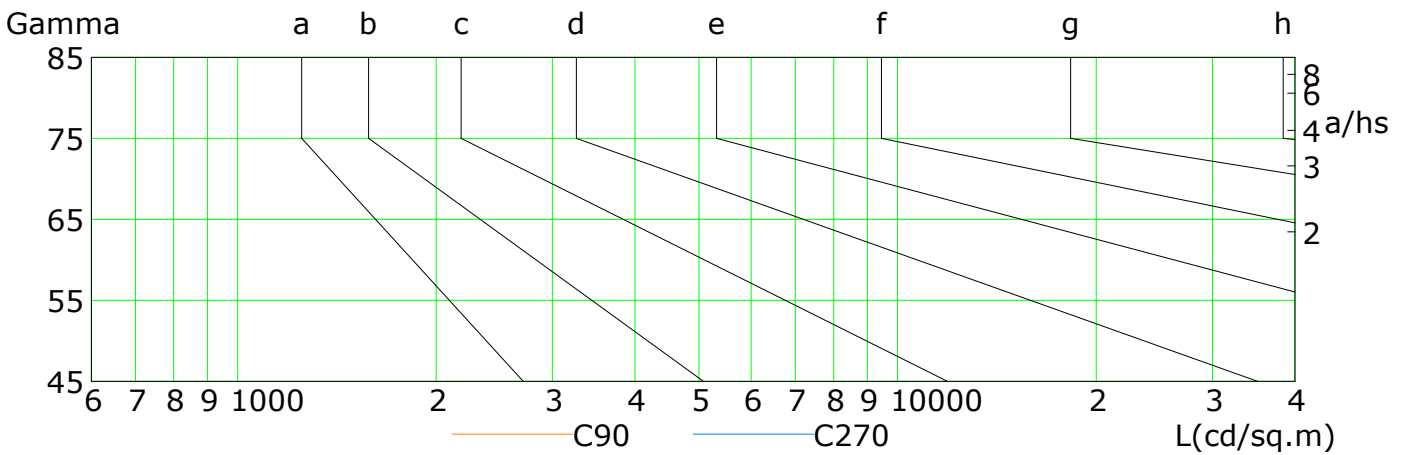
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	53	51	49	46	43	39	35	30	27
C90	38	34	30	26	20	9	8	8	5
C180	55	51	50	47	44	41	38	33	28
C270	39	34	32	28	25	16	12	8	6

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

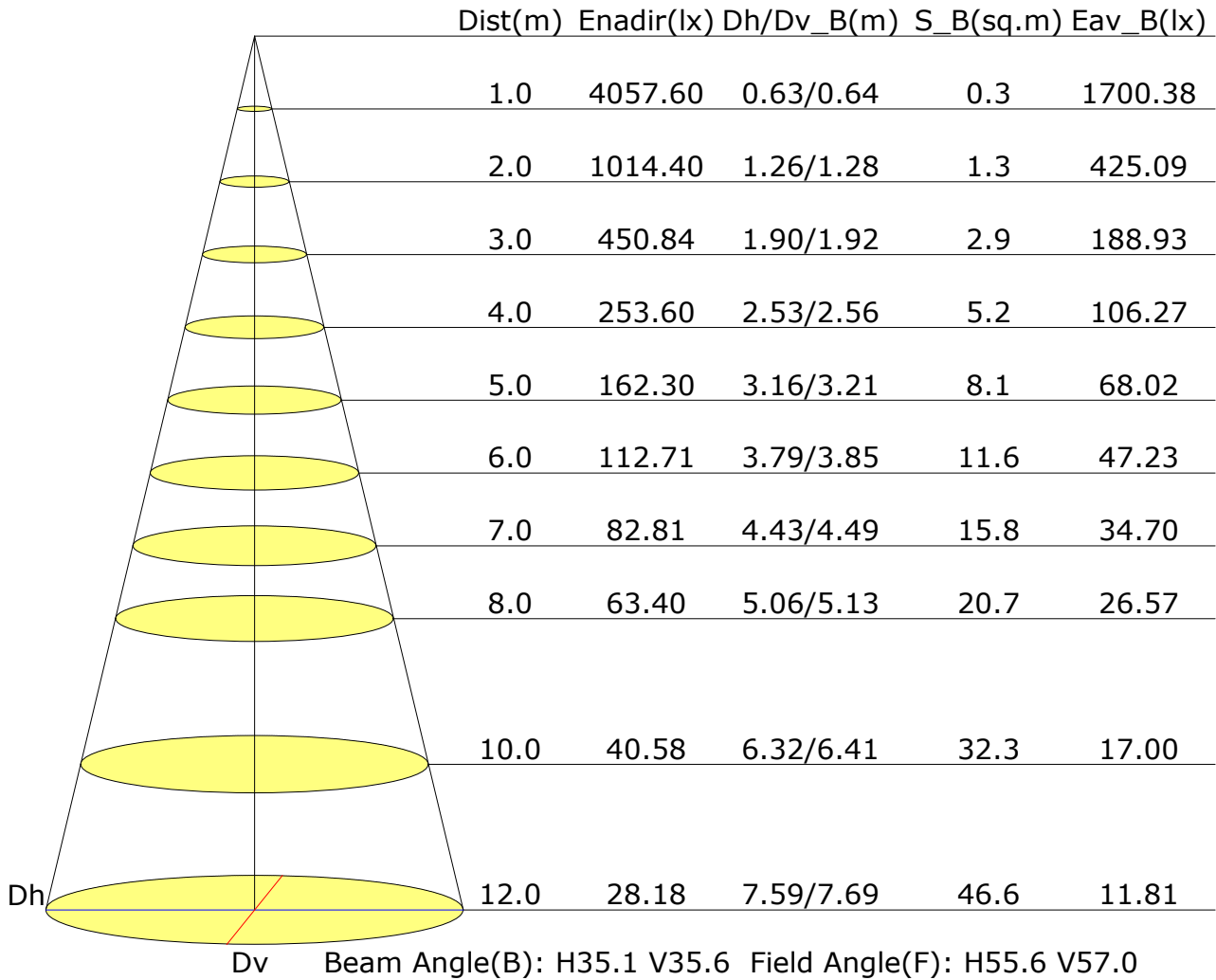
Test Device: GPM-1600

Distance: 6.500 m

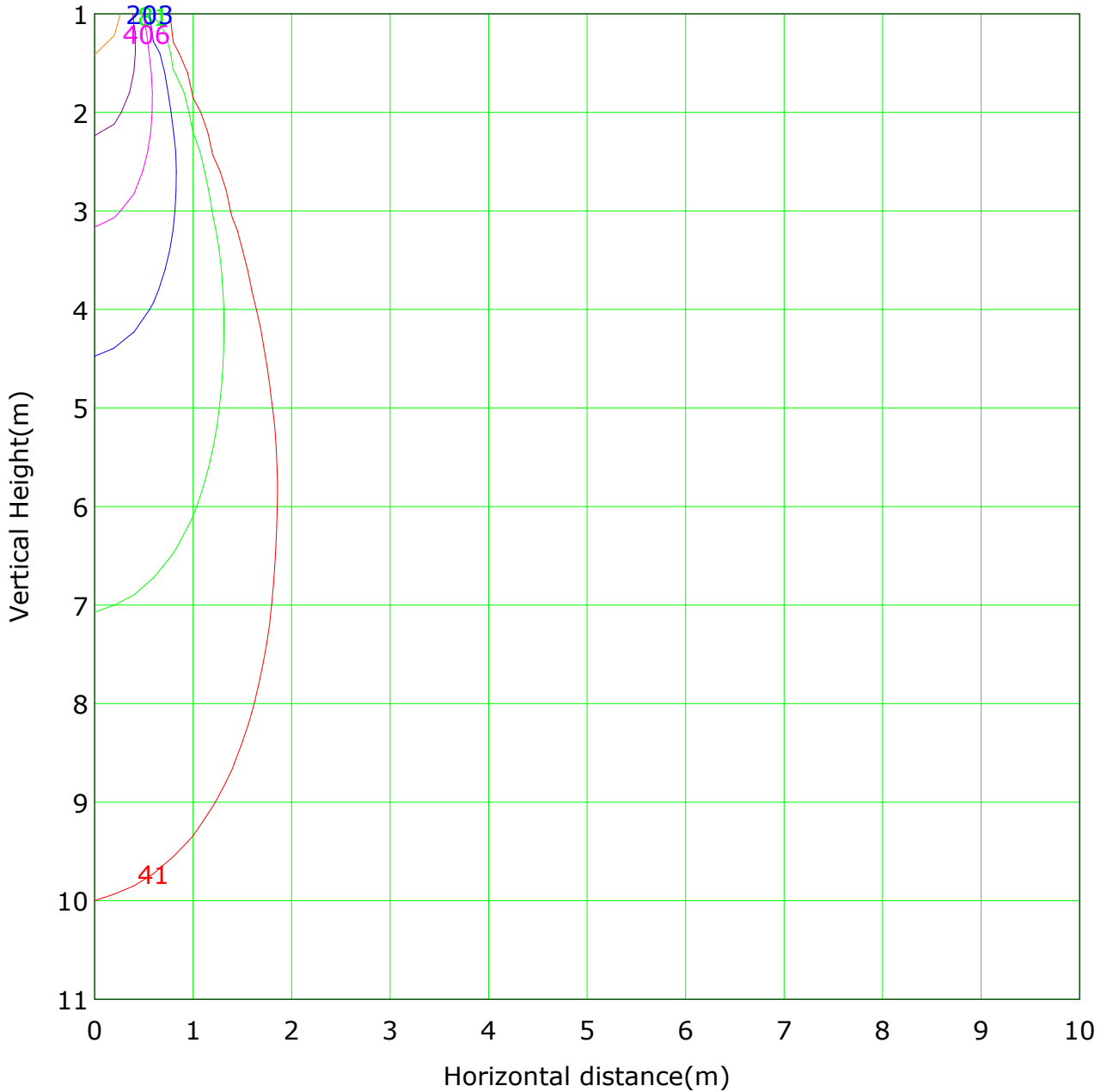
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

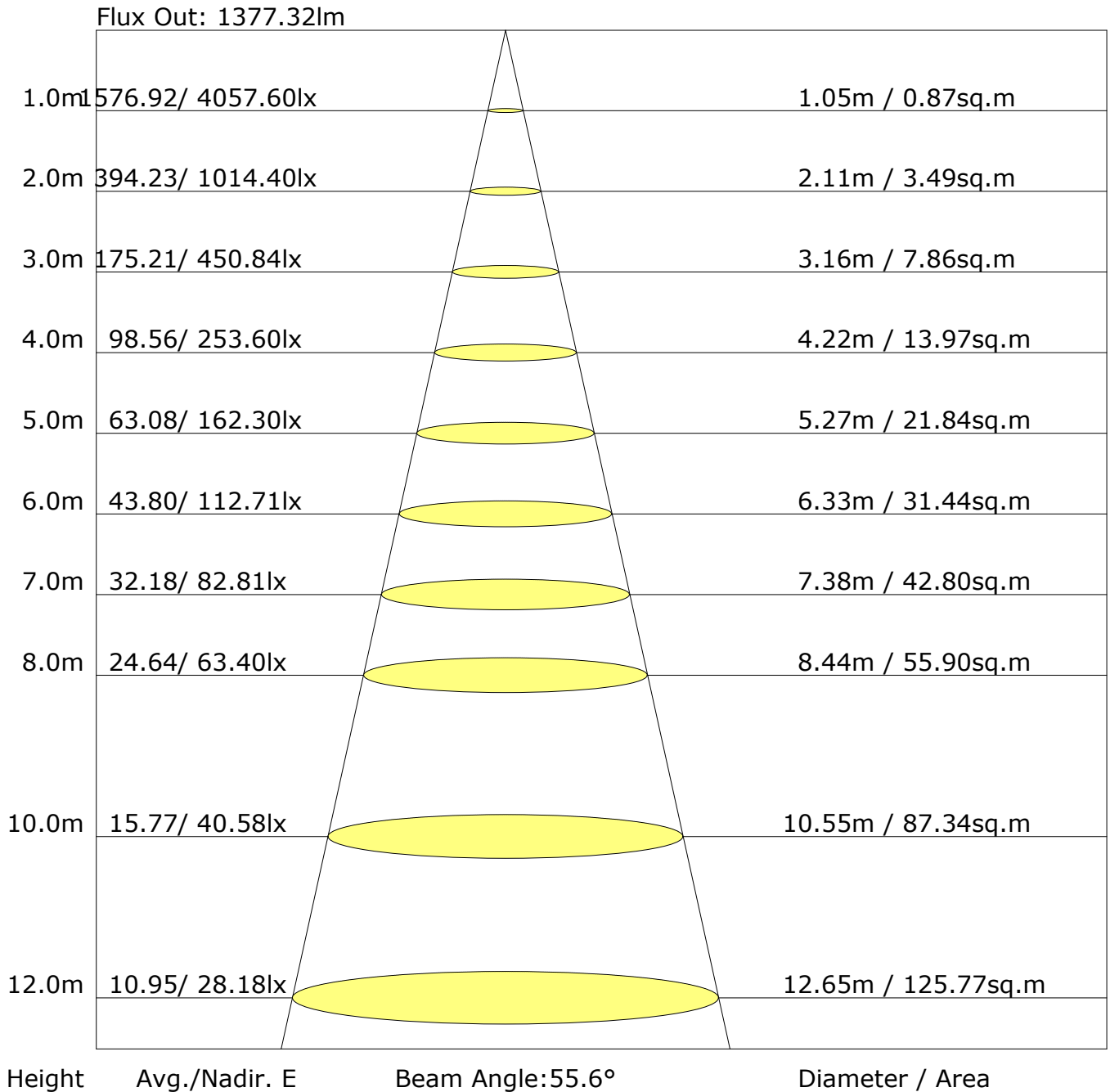


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4057.6 lx
 (1%): 40.6 lx (2%): 81.2 lx
 (5%): 202.9 lx (10%): 405.8 lx
 (20%): 811.5 lx (50%): 2028.8 lx
 (100%): 4057.6 lx

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

UGR Table

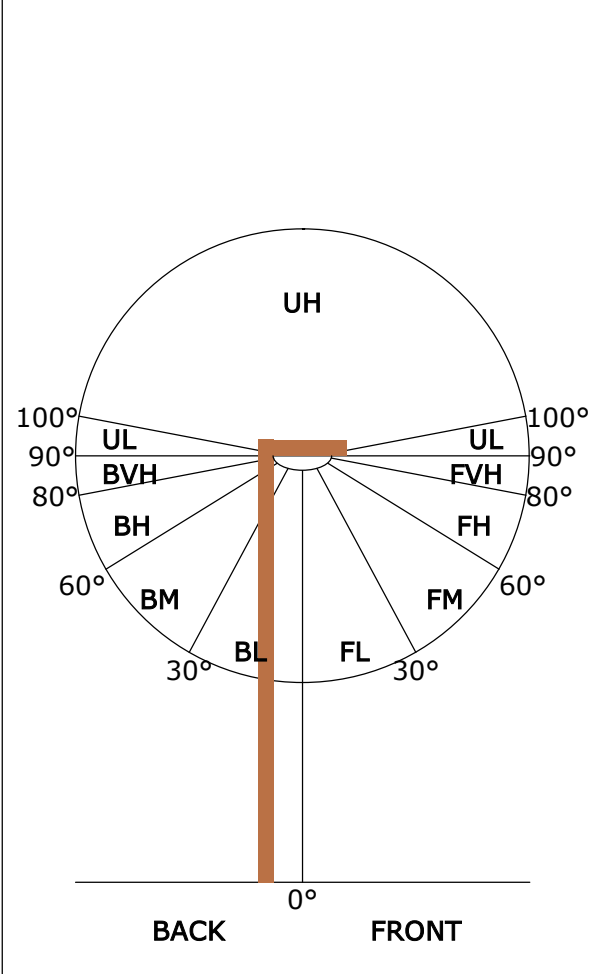
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 2135lm ($8\log(F/F_0) = 2.6$).

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	808	37.9
	FL (0°-30°)	701	32.8
	FM (30°-60°)	71	3.3
	FH (60°-80°)	27	1.3
	FVH (80°-90°)	9	0.4
	BACK LIGHT	834	39.1
	BL (0°-30°)	722	33.8
	BM (30°-60°)	73	3.4
	BH (60°-80°)	29	1.4
	BVH (80°-90°)	9	0.4
	UP LIGHT	493	23.1
	UL (90°-100°)	24	1.1
	UH (100°-180°)	469	22.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U3 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U3 G0

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	0.79	0.84	0.88	0.90	0.94	0.97	0.99	1.01	1.03	
	0.30		0.74	0.80	0.83	0.86	0.91	0.94	0.96	0.99	1.01	
	0.20		0.71	0.76	0.80	0.83	0.88	0.91	0.93	0.96	0.99	
0.50	0.50	0.20	0.75	0.80	0.83	0.85	0.88	0.90	0.91	0.93	0.94	
	0.30		0.72	0.76	0.79	0.82	0.85	0.87	0.89	0.91	0.93	
	0.20		0.69	0.74	0.77	0.79	0.83	0.85	0.87	0.90	0.91	
0.30	0.50	0.20	0.72	0.76	0.78	0.80	0.82	0.83	0.85	0.86	0.87	
	0.30		0.69	0.73	0.76	0.77	0.80	0.82	0.83	0.85	0.86	
	0.20		0.67	0.71	0.74	0.76	0.78	0.80	0.82	0.83	0.85	
0.00	0.00	0.00	0.64	0.66	0.68	0.70	0.71	0.72	0.73	0.74	0.75	
<p>Rating:34W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.56	0.47	0.40	0.35	0.28	0.24	0.20	0.16	0.13	
	0.30		0.47	0.40	0.35	0.31	0.26	0.22	0.19	0.15	0.12	
	0.20		0.40	0.35	0.31	0.28	0.23	0.20	0.18	0.14	0.12	
0.50	0.50	0.20	0.48	0.40	0.34	0.30	0.24	0.23	0.17	0.13	0.11	
	0.30		0.41	0.35	0.30	0.27	0.22	0.18	0.16	0.13	0.11	
	0.20		0.35	0.31	0.27	0.24	0.20	0.17	0.15	0.12	0.10	
0.30	0.50	0.20	0.41	0.34	0.29	0.25	0.20	0.17	0.14	0.11	0.09	
	0.30		0.35	0.30	0.26	0.23	0.18	0.16	0.13	0.11	0.09	
	0.20		0.31	0.27	0.23	0.21	0.17	0.15	0.13	0.10	0.08	
0.00	0.00	0.00	0.15	0.12	0.10	0.09	0.07	0.06	0.05	0.04	0.03	
<p>Rating:34W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.35	0.37	0.38	0.39	0.40	0.41	0.42	0.42	0.43	
	0.30		0.31	0.33	0.35	0.36	0.37	0.39	0.39	0.41	0.41	
	0.20		0.29	0.30	0.32	0.33	0.35	0.36	0.37	0.39	0.40	
0.50	0.50	0.20	0.34	0.36	0.37	0.37	0.39	0.39	0.40	0.41	0.41	
	0.30		0.31	0.32	0.34	0.35	0.36	0.37	0.38	0.39	0.40	
	0.20		0.28	0.30	0.31	0.33	0.34	0.36	0.36	0.38	0.39	
0.30	0.50	0.20	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.39	
	0.30		0.30	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38	
	0.20		0.28	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.37	
0.00	0.00	0.00	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
<p>Rating:34W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	4028.9	3.9	3.9	0.18	0.18
1.0-2.0	4016.3	11.5	15.4	0.54	0.72
2.0-3.0	3991.1	19.1	34.5	0.89	1.61
3.0-4.0	3950.7	26.4	60.9	1.24	2.85
4.0-5.0	3895.0	33.5	94.4	1.57	4.42
5.0-6.0	3827.8	40.2	134.7	1.88	6.31
6.0-7.0	3749.3	46.5	181.2	2.18	8.49
7.0-8.0	3654.0	52.3	233.5	2.45	10.94
8.0-9.0	3541.9	57.4	290.9	2.69	13.63
9.0-10.0	3414.6	61.8	352.7	2.89	16.52
10.0-11.0	3276.2	65.5	418.2	3.07	19.59
11.0-12.0	3126.2	68.3	486.5	3.20	22.79
12.0-13.0	2964.5	70.4	556.9	3.30	26.08
13.0-14.0	2796.2	71.6	628.5	3.35	29.44
14.0-15.0	2621.2	72.0	700.5	3.37	32.81
15.0-16.0	2437.8	71.4	771.9	3.35	36.15
16.0-17.0	2253.0	70.2	842.1	3.29	39.44
17.0-18.0	2073.2	68.4	910.4	3.20	42.64
18.0-19.0	1896.7	66.0	976.4	3.09	45.73
19.0-20.0	1717.4	62.9	1039.3	2.94	48.68
20.0-21.0	1537.1	59.0	1098.3	2.76	51.44
21.0-22.0	1362.5	54.8	1153.1	2.56	54.01
22.0-23.0	1196.9	50.2	1203.3	2.35	56.36
23.0-24.0	1044.8	45.7	1249.0	2.14	58.50
24.0-25.0	901.1	41.0	1290.0	1.92	60.42
25.0-26.0	761.8	36.0	1326.0	1.68	62.11
26.0-27.0	634.4	31.0	1357.0	1.45	63.56
27.0-28.0	519.6	26.3	1383.3	1.23	64.79
28.0-29.0	416.5	21.8	1405.1	1.02	65.81
29.0-30.0	328.2	17.7	1422.8	0.83	66.64
30.0-31.0	256.7	14.3	1437.1	0.67	67.31
31.0-32.0	200.6	11.5	1448.6	0.54	67.85
32.0-33.0	157.9	9.3	1457.9	0.44	68.29
33.0-34.0	127.6	7.7	1465.6	0.36	68.65
34.0-35.0	104.7	6.5	1472.1	0.30	68.95
35.0-36.0	88.1	5.6	1477.7	0.26	69.21

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	76.1	5.0	1482.7	0.23	69.45
37.0-38.0	67.7	4.5	1487.2	0.21	69.66
38.0-39.0	61.6	4.2	1491.4	0.20	69.86
39.0-40.0	57.1	4.0	1495.4	0.19	70.04
40.0-41.0	53.8	3.8	1499.2	0.18	70.22
41.0-42.0	51.4	3.7	1503.0	0.18	70.40
42.0-43.0	49.4	3.7	1506.6	0.17	70.57
43.0-44.0	47.7	3.6	1510.2	0.17	70.74
44.0-45.0	46.6	3.6	1513.8	0.17	70.90
45.0-46.0	45.7	3.6	1517.4	0.17	71.07
46.0-47.0	44.8	3.6	1521.0	0.17	71.24
47.0-48.0	44.0	3.6	1524.5	0.17	71.41
48.0-49.0	43.5	3.6	1528.1	0.17	71.57
49.0-50.0	42.9	3.6	1531.7	0.17	71.74
50.0-51.0	42.3	3.6	1535.2	0.17	71.91
51.0-52.0	41.8	3.6	1538.8	0.17	72.08
52.0-53.0	41.4	3.6	1542.4	0.17	72.24
53.0-54.0	40.8	3.6	1546.0	0.17	72.41
54.0-55.0	40.2	3.6	1549.6	0.17	72.58
55.0-56.0	39.7	3.6	1553.2	0.17	72.75
56.0-57.0	39.2	3.6	1556.8	0.17	72.92
57.0-58.0	38.5	3.6	1560.3	0.17	73.08
58.0-59.0	37.9	3.5	1563.9	0.17	73.25
59.0-60.0	37.4	3.5	1567.4	0.17	73.41
60.0-61.0	36.7	3.5	1570.9	0.16	73.58
61.0-62.0	36.1	3.5	1574.4	0.16	73.74
62.0-63.0	35.5	3.5	1577.9	0.16	73.90
63.0-64.0	34.8	3.4	1581.3	0.16	74.06
64.0-65.0	33.8	3.3	1584.6	0.16	74.22
65.0-66.0	32.5	3.2	1587.9	0.15	74.37
66.0-67.0	31.1	3.1	1591.0	0.15	74.52
67.0-68.0	29.6	3.0	1594.0	0.14	74.66
68.0-69.0	28.1	2.9	1596.8	0.13	74.79
69.0-70.0	26.8	2.8	1599.6	0.13	74.92
70.0-71.0	25.9	2.7	1602.3	0.13	75.05
71.0-72.0	25.1	2.6	1604.9	0.12	75.17

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	24.4	2.6	1607.5	0.12	75.29
73.0-74.0	23.8	2.5	1610.0	0.12	75.41
74.0-75.0	23.2	2.5	1612.4	0.11	75.52
75.0-76.0	22.6	2.4	1614.8	0.11	75.63
76.0-77.0	21.9	2.3	1617.1	0.11	75.74
77.0-78.0	21.2	2.3	1619.4	0.11	75.85
78.0-79.0	20.7	2.2	1621.6	0.10	75.95
79.0-80.0	20.1	2.2	1623.8	0.10	76.06
80.0-81.0	19.6	2.1	1625.9	0.10	76.16
81.0-82.0	19.2	2.1	1628.0	0.10	76.25
82.0-83.0	18.6	2.0	1630.0	0.09	76.35
83.0-84.0	17.8	1.9	1632.0	0.09	76.44
84.0-85.0	17.0	1.9	1633.8	0.09	76.53
85.0-86.0	16.3	1.8	1635.6	0.08	76.61
86.0-87.0	15.8	1.7	1637.3	0.08	76.69
87.0-88.0	15.5	1.7	1639.0	0.08	76.77
88.0-89.0	15.5	1.7	1640.7	0.08	76.85
89.0-90.0	15.7	1.7	1642.5	0.08	76.93
90.0-91.0	16.1	1.8	1644.2	0.08	77.01
91.0-92.0	16.6	1.8	1646.0	0.09	77.10
92.0-93.0	17.2	1.9	1647.9	0.09	77.19
93.0-94.0	18.3	2.0	1649.9	0.09	77.28
94.0-95.0	19.8	2.2	1652.1	0.10	77.38
95.0-96.0	21.6	2.4	1654.4	0.11	77.49
96.0-97.0	23.6	2.6	1657.0	0.12	77.61
97.0-98.0	25.6	2.8	1659.8	0.13	77.74
98.0-99.0	27.6	3.0	1662.8	0.14	77.88
99.0-100.0	29.5	3.2	1666.0	0.15	78.03
100.0-101.0	31.4	3.4	1669.4	0.16	78.19
101.0-102.0	33.2	3.6	1673.0	0.17	78.36
102.0-103.0	35.1	3.8	1676.7	0.18	78.53
103.0-104.0	37.0	3.9	1680.7	0.18	78.72
104.0-105.0	39.0	4.1	1684.8	0.19	78.91
105.0-106.0	40.9	4.3	1689.1	0.20	79.11
106.0-107.0	42.7	4.5	1693.6	0.21	79.32
107.0-108.0	44.2	4.6	1698.2	0.22	79.54

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	45.9	4.8	1703.0	0.22	79.77
109.0-110.0	47.6	4.9	1707.9	0.23	80.00
110.0-111.0	49.3	5.1	1713.0	0.24	80.23
111.0-112.0	51.1	5.2	1718.2	0.24	80.48
112.0-113.0	52.9	5.4	1723.6	0.25	80.73
113.0-114.0	55.1	5.5	1729.1	0.26	80.99
114.0-115.0	57.3	5.7	1734.8	0.27	81.26
115.0-116.0	59.1	5.8	1740.7	0.27	81.53
116.0-117.0	61.0	6.0	1746.7	0.28	81.81
117.0-118.0	63.5	6.2	1752.8	0.29	82.10
118.0-119.0	66.7	6.4	1759.3	0.30	82.40
119.0-120.0	69.6	6.6	1765.9	0.31	82.71
120.0-121.0	72.1	6.8	1772.7	0.32	83.03
121.0-122.0	75.0	7.0	1779.7	0.33	83.36
122.0-123.0	78.5	7.3	1787.0	0.34	83.70
123.0-124.0	81.9	7.5	1794.5	0.35	84.05
124.0-125.0	85.0	7.7	1802.2	0.36	84.41
125.0-126.0	87.6	7.8	1810.0	0.37	84.78
126.0-127.0	89.8	7.9	1817.9	0.37	85.15
127.0-128.0	91.8	8.0	1825.9	0.37	85.52
128.0-129.0	93.6	8.0	1833.9	0.38	85.90
129.0-130.0	95.8	8.1	1842.0	0.38	86.28
130.0-131.0	98.1	8.2	1850.2	0.38	86.66
131.0-132.0	100.5	8.3	1858.5	0.39	87.05
132.0-133.0	102.7	8.3	1866.8	0.39	87.44
133.0-134.0	104.5	8.3	1875.1	0.39	87.82
134.0-135.0	106.5	8.3	1883.4	0.39	88.21
135.0-136.0	109.0	8.4	1891.8	0.39	88.61
136.0-137.0	112.0	8.5	1900.2	0.40	89.00
137.0-138.0	115.1	8.5	1908.8	0.40	89.40
138.0-139.0	118.4	8.6	1917.4	0.40	89.81
139.0-140.0	121.8	8.7	1926.0	0.41	90.21
140.0-141.0	124.7	8.7	1934.7	0.41	90.62
141.0-142.0	127.1	8.7	1943.4	0.41	91.03
142.0-143.0	129.3	8.6	1952.0	0.40	91.43
143.0-144.0	131.5	8.6	1960.6	0.40	91.83

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 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	133.8	8.5	1969.1	0.40	92.23
145.0-146.0	136.1	8.5	1977.6	0.40	92.63
146.0-147.0	138.3	8.4	1986.0	0.39	93.02
147.0-148.0	140.6	8.3	1994.3	0.39	93.41
148.0-149.0	142.7	8.2	2002.4	0.38	93.79
149.0-150.0	144.9	8.1	2010.5	0.38	94.17
150.0-151.0	147.5	8.0	2018.5	0.37	94.54
151.0-152.0	150.8	7.9	2026.4	0.37	94.91
152.0-153.0	154.3	7.8	2034.2	0.37	95.28
153.0-154.0	157.4	7.7	2041.9	0.36	95.64
154.0-155.0	159.2	7.5	2049.4	0.35	95.99
155.0-156.0	160.3	7.3	2056.7	0.34	96.33
156.0-157.0	161.2	7.0	2063.7	0.33	96.66
157.0-158.0	161.8	6.8	2070.5	0.32	96.98
158.0-159.0	162.0	6.5	2077.0	0.30	97.28
159.0-160.0	161.9	6.2	2083.2	0.29	97.57
160.0-161.0	161.8	5.9	2089.2	0.28	97.85
161.0-162.0	161.9	5.6	2094.8	0.26	98.12
162.0-163.0	161.5	5.3	2100.1	0.25	98.37
163.0-164.0	160.4	5.0	2105.1	0.23	98.60
164.0-165.0	158.3	4.6	2109.8	0.22	98.82
165.0-166.0	154.8	4.3	2114.0	0.20	99.02
166.0-167.0	150.2	3.8	2117.8	0.18	99.20
167.0-168.0	144.3	3.4	2121.3	0.16	99.36
168.0-169.0	136.7	3.0	2124.3	0.14	99.50
169.0-170.0	127.4	2.5	2126.8	0.12	99.62
170.0-171.0	116.6	2.1	2128.9	0.10	99.71
171.0-172.0	104.9	1.7	2130.6	0.08	99.79
172.0-173.0	93.5	1.3	2132.0	0.06	99.86
173.0-174.0	81.9	1.0	2133.0	0.05	99.90
174.0-175.0	70.5	0.7	2133.7	0.03	99.94
175.0-176.0	61.3	0.5	2134.2	0.02	99.96
176.0-177.0	54.4	0.4	2134.6	0.02	99.98
177.0-178.0	49.6	0.2	2134.8	0.01	99.99
178.0-179.0	46.4	0.1	2135.0	0.01	100.00
179.0-180.0	44.6	0.0	2135.0	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	4057.6	4007.1	4057.6	4007.1	4057.6					
G1.0	4011.4	4014.4	4093.1	3982.9	4011.4					
G2.0	3963.5	3995.6	4113.7	3955.7	3963.5					
G3.0	3897.8	3956.6	4124.2	3921.8	3897.8					
G4.0	3813.4	3897.1	4109.6	3885.4	3813.4					
G5.0	3707.4	3830.8	4075.4	3841.1	3707.4					
G6.0	3595.9	3760.4	4034.6	3776.7	3595.9					
G7.0	3461.0	3673.2	3997.8	3695.0	3461.0					
G8.0	3313.4	3559.8	3944.8	3587.1	3313.4					
G9.0	3154.8	3430.1	3871.6	3473.5	3154.8					
G10.0	2974.4	3286.9	3776.1	3349.6	2974.4					
G11.0	2794.9	3139.8	3671.7	3216.1	2794.9					
G12.0	2597.1	2974.1	3553.8	3062.6	2597.1					
G13.0	2401.8	2809.6	3418.6	2898.4	2401.8					
G14.0	2204.3	2629.0	3268.6	2739.5	2204.3					
G15.0	1998.2	2452.0	3103.1	2575.0	1998.2					
G16.0	1801.3	2260.8	2916.4	2395.6	1801.3					
G17.0	1630.2	2072.6	2735.4	2211.5	1630.2					
G18.0	1462.2	1896.6	2541.5	2035.9	1462.2					
G19.0	1299.4	1723.3	2336.5	1878.2	1299.4					
G20.0	1123.4	1539.8	2139.5	1699.0	1123.4					
G21.0	957.0	1366.4	1946.8	1525.0	957.0					
G22.0	801.2	1192.1	1761.9	1349.3	801.2					
G23.0	657.9	1033.1	1601.2	1178.3	657.9					
G24.0	527.1	890.3	1446.4	1024.4	527.1					
G25.0	404.7	745.7	1290.3	880.1	404.7					
G26.0	316.5	620.8	1110.2	726.5	316.5					
G27.0	247.4	516.8	934.6	602.7	247.4					
G28.0	193.2	418.7	764.1	479.4	193.2					
G29.0	150.2	330.0	619.4	377.0	150.2					
G30.0	118.7	260.5	481.6	287.8	118.7					
G31.0	97.5	204.6	377.8	225.0	97.5					
G32.0	83.9	160.2	288.4	167.3	83.9					
G33.0	75.6	126.8	227.3	134.0	75.6					
G34.0	69.1	100.3	179.7	107.8	69.1					
G35.0	64.8	82.0	144.3	89.4	64.8					
G36.0	61.1	69.2	117.7	76.0	61.1					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	58.8	61.0	99.4	66.0	58.8					
G38.0	57.0	54.8	85.4	59.1	57.0					
G39.0	55.4	50.7	76.6	53.6	55.4					
G40.0	54.5	47.3	69.8	49.2	54.5					
G41.0	54.0	44.6	65.1	46.2	54.0					
G42.0	53.3	42.6	61.9	43.7	53.3					
G43.0	52.9	40.7	58.6	41.4	52.9					
G44.0	52.9	39.2	56.5	39.8	52.9					
G45.0	52.9	37.8	55.2	38.6	52.9					
G46.0	52.7	36.7	53.8	37.6	52.7					
G47.0	52.4	35.6	52.9	36.4	52.4					
G48.0	52.3	34.8	52.1	35.8	52.3					
G49.0	52.1	34.2	51.4	35.0	52.1					
G50.0	51.4	33.6	51.0	34.5	51.4					
G51.0	50.8	32.7	50.7	34.0	50.8					
G52.0	50.4	32.0	50.5	33.6	50.4					
G53.0	49.8	31.4	50.2	33.1	49.8					
G54.0	49.0	30.5	49.8	32.4	49.0					
G55.0	48.6	29.8	49.6	31.8	48.6					
G56.0	48.3	29.0	49.2	31.2	48.3					
G57.0	48.0	28.4	48.6	30.5	48.0					
G58.0	47.1	27.7	48.0	29.8	47.1					
G59.0	46.7	27.1	47.7	29.2	46.7					
G60.0	46.2	26.4	47.1	28.4	46.2					
G61.0	45.8	25.8	46.5	27.5	45.8					
G62.0	44.9	25.3	46.1	27.0	44.9					
G63.0	44.5	24.5	45.5	26.2	44.5					
G64.0	43.6	23.1	44.9	25.8	43.6					
G65.0	42.9	20.5	44.2	25.3	42.9					
G66.0	42.3	17.1	43.7	24.3	42.3					
G67.0	41.4	14.0	43.2	22.8	41.4					
G68.0	40.7	11.8	42.6	20.3	40.7					
G69.0	39.8	10.0	41.7	17.8	39.8					
G70.0	39.0	9.3	41.1	15.9	39.0					
G71.0	38.3	8.8	40.5	14.4	38.3					
G72.0	37.3	8.5	39.8	13.4	37.3					
G73.0	36.5	8.1	39.0	12.8	36.5					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	35.5	7.8	38.4	12.4	35.5					
G75.0	34.6	7.7	37.7	11.6	34.6					
G76.0	33.9	7.5	36.8	11.2	33.9					
G77.0	32.8	7.2	35.8	10.0	32.8					
G78.0	32.1	7.5	35.0	9.3	32.1					
G79.0	31.4	7.9	33.9	8.4	31.4					
G80.0	30.3	7.7	33.0	8.4	30.3					
G81.0	29.5	7.4	32.0	9.0	29.5					
G82.0	28.6	6.9	31.2	9.1	28.6					
G83.0	27.8	6.2	30.2	8.5	27.8					
G84.0	27.5	5.6	29.3	6.9	27.5					
G85.0	27.0	5.2	28.4	6.0	27.0					
G86.0	27.0	4.3	27.7	5.2	27.0					
G87.0	27.0	3.8	27.1	4.4	27.0					
G88.0	27.4	3.7	26.4	4.1	27.4					
G89.0	28.6	3.5	25.9	4.1	28.6					
G90.0	30.5	3.5	25.5	4.0	30.5					
G91.0	32.8	3.4	25.0	3.8	32.8					
G92.0	35.3	3.4	24.9	3.8	35.3					
G93.0	37.8	3.5	24.7	4.0	37.8					
G94.0	40.3	5.3	24.7	5.7	40.3					
G95.0	43.2	7.1	25.3	7.1	43.2					
G96.0	46.2	8.7	27.0	8.5	46.2					
G97.0	49.3	10.8	29.2	9.4	49.3					
G98.0	52.4	11.8	31.5	10.8	52.4					
G99.0	55.5	13.3	34.3	11.2	55.5					
G100.0	58.9	14.6	37.0	11.3	58.9					
G101.0	62.3	15.9	39.5	11.5	62.3					
G102.0	65.8	17.1	42.3	11.6	65.8					
G103.0	69.5	17.8	45.1	11.8	69.5					
G104.0	73.2	18.9	47.9	12.1	73.2					
G105.0	76.9	19.9	50.8	12.1	76.9					
G106.0	80.8	20.5	53.9	12.2	80.8					
G107.0	84.5	19.7	57.1	12.5	84.5					
G108.0	88.7	17.8	60.8	12.7	88.7					
G109.0	92.6	16.8	64.7	13.1	92.6					
G110.0	96.8	15.0	68.3	13.4	96.8					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	101.0	15.2	71.4	13.4	101.0					
G112.0	105.3	15.8	74.1	12.8	105.3					
G113.0	109.7	16.4	76.4	13.0	109.7					
G114.0	114.0	16.9	81.9	12.7	114.0					
G115.0	118.6	17.5	83.9	12.7	118.6					
G116.0	122.8	18.3	85.3	13.4	122.8					
G117.0	127.5	18.9	87.5	14.0	127.5					
G118.0	132.3	19.3	94.1	14.7	132.3					
G119.0	137.0	19.7	101.0	15.3	137.0					
G120.0	141.8	20.8	104.6	16.2	141.8					
G121.0	146.5	22.7	107.1	16.9	146.5					
G122.0	151.4	25.0	112.8	17.7	151.4					
G123.0	156.3	27.5	119.0	18.6	156.3					
G124.0	161.3	28.9	124.3	19.3	161.3					
G125.0	166.1	29.6	130.2	20.0	166.1					
G126.0	171.3	27.7	135.5	20.8	171.3					
G127.0	176.1	24.5	140.8	21.8	176.1					
G128.0	181.4	20.5	146.5	22.4	181.4					
G129.0	186.4	17.8	150.4	23.7	186.4					
G130.0	191.6	17.4	154.4	24.9	191.6					
G131.0	196.3	16.5	158.0	26.1	196.3					
G132.0	201.6	17.1	161.1	27.0	201.6					
G133.0	206.6	17.4	163.5	27.0	206.6					
G134.0	211.5	18.1	165.4	26.5	211.5					
G135.0	216.2	18.4	169.2	26.4	216.2					
G136.0	221.1	19.0	175.4	26.4	221.1					
G137.0	226.1	19.7	181.9	26.7	226.1					
G138.0	230.6	20.0	189.3	26.8	230.6					
G139.0	235.1	20.6	197.9	27.3	235.1					
G140.0	239.8	21.2	204.7	27.8	239.8					
G141.0	244.0	21.8	209.6	28.6	244.0					
G142.0	248.3	22.2	212.7	29.5	248.3					
G143.0	252.4	22.7	216.4	30.2	252.4					
G144.0	256.4	23.0	220.0	31.2	256.4					
G145.0	260.2	23.7	224.0	32.0	260.2					
G146.0	263.9	24.0	228.0	32.7	263.9					
G147.0	267.5	24.6	232.6	33.4	267.5					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	270.7	24.9	237.0	34.2	270.7					
G149.0	273.6	25.3	241.4	34.9	273.6					
G150.0	276.6	25.8	246.1	35.8	276.6					
G151.0	279.4	28.4	251.8	36.5	279.4					
G152.0	281.9	33.7	257.1	37.1	281.9					
G153.0	284.0	41.8	261.0	37.7	284.0					
G154.0	286.0	46.1	264.1	38.3	286.0					
G155.0	287.2	46.2	267.2	38.9	287.2					
G156.0	288.1	46.5	268.9	39.5	288.1					
G157.0	288.7	46.5	270.4	40.7	288.7					
G158.0	288.4	46.5	270.5	42.6	288.4					
G159.0	287.6	46.5	268.8	45.1	287.6					
G160.0	286.3	46.5	268.6	45.4	286.3					
G161.0	283.6	46.7	271.7	45.7	283.6					
G162.0	280.0	46.4	275.0	45.8	280.0					
G163.0	274.7	46.5	277.5	46.0	274.7					
G164.0	266.9	46.5	279.4	46.1	266.9					
G165.0	256.1	46.4	278.8	46.1	256.1					
G166.0	243.3	46.4	275.4	46.1	243.3					
G167.0	228.1	46.2	270.1	46.2	228.1					
G168.0	210.2	46.1	260.8	46.2	210.2					
G169.0	188.8	46.1	248.9	46.4	188.8					
G170.0	166.1	47.1	229.3	46.4	166.1					
G171.0	142.4	49.3	205.6	46.2	142.4					
G172.0	117.4	52.7	179.2	46.4	117.4					
G173.0	92.6	54.2	159.4	46.2	92.6					
G174.0	69.5	53.6	133.9	46.1	69.5					
G175.0	53.6	52.9	108.3	46.1	53.6					
G176.0	42.6	52.1	88.7	46.0	42.6					
G177.0	37.0	51.4	71.0	46.5	37.0					
G178.0	35.3	50.7	57.1	47.4	35.3					
G179.0	36.4	49.8	46.2	47.9	36.4					
G180.0	39.9	49.0	39.0	48.6	39.9					

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600
 Distance: 6.500 m
 Humidity:
 Inspector: