

Report No.:

Test Time:

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Height (mm): 45

Current: 0.320 A

Power Factor: 0.996

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 600

Voltage: 119.9 V

Power: 38.27 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4925.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.5, 159.0, 165.7, 166.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.8, 108.8, 112.6, 112.3

Luminaire Efficacy Rating (LER): 128.75

Max. Intensity: 1677.35 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 4925.4 lm

Efficiency: 100%

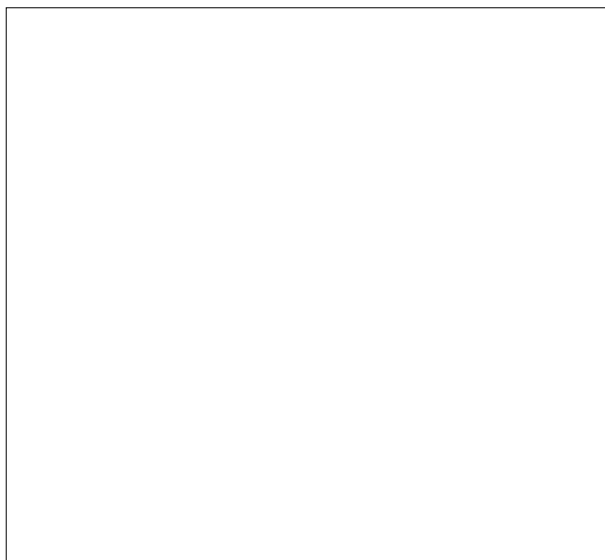
Upward Ratio: 1%

C0r0 Intensity: 1676 cd

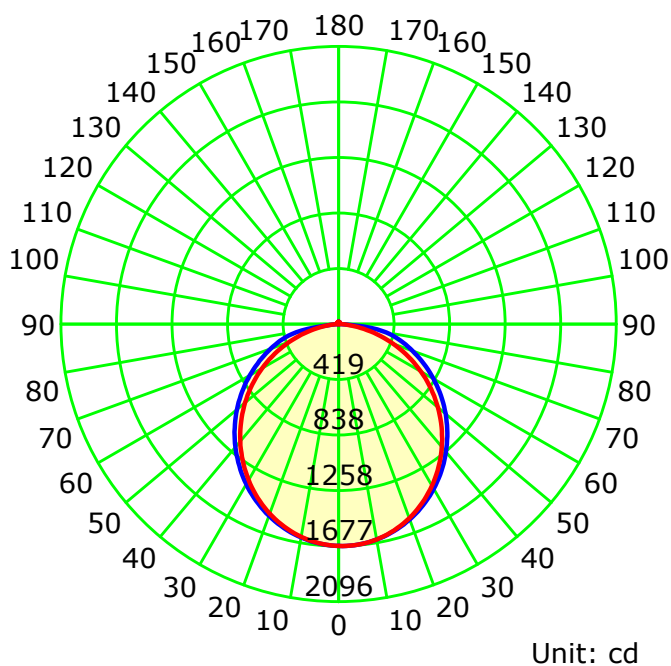
Pos of Max. Intensity: H60 V2

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

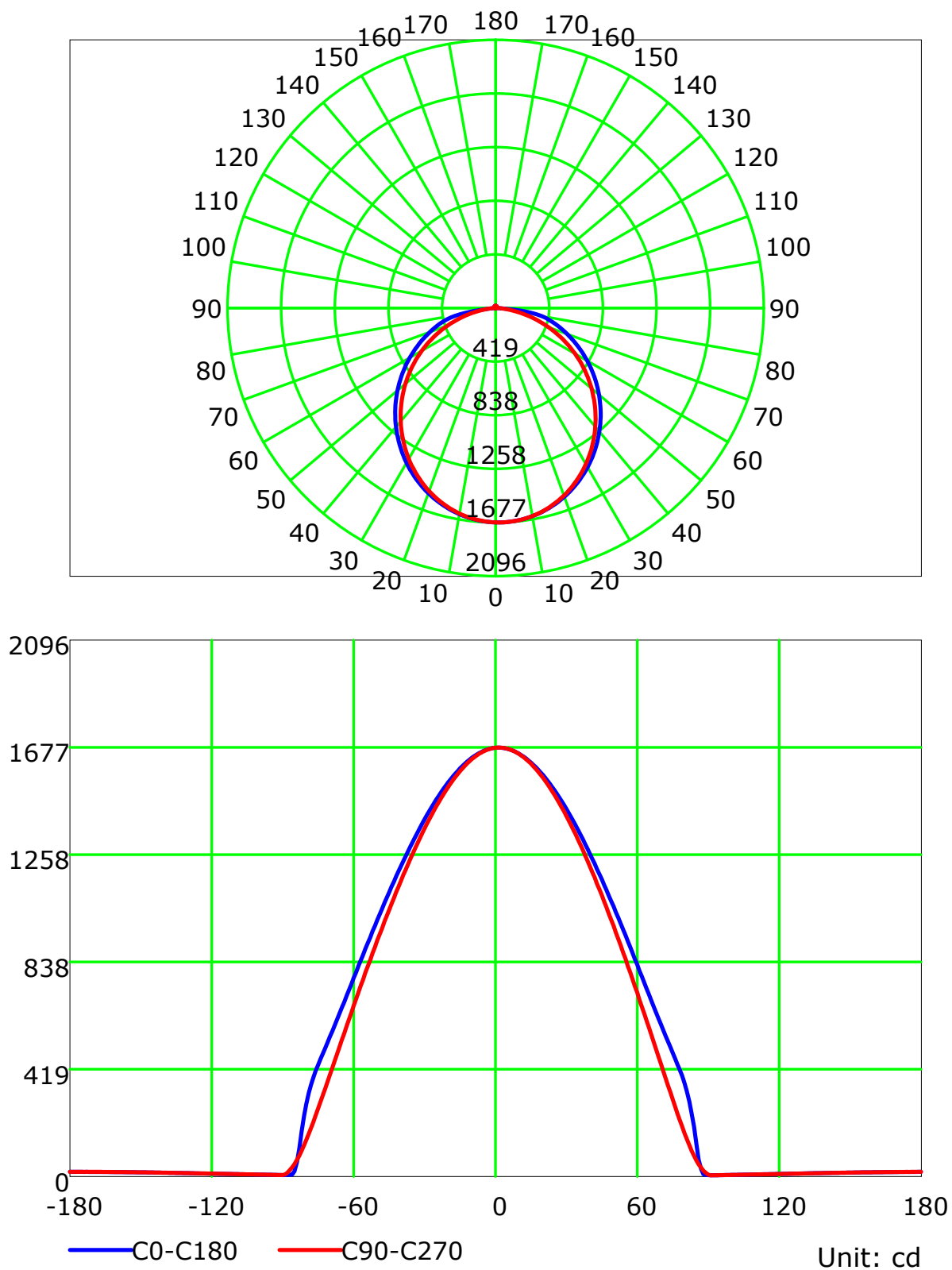
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

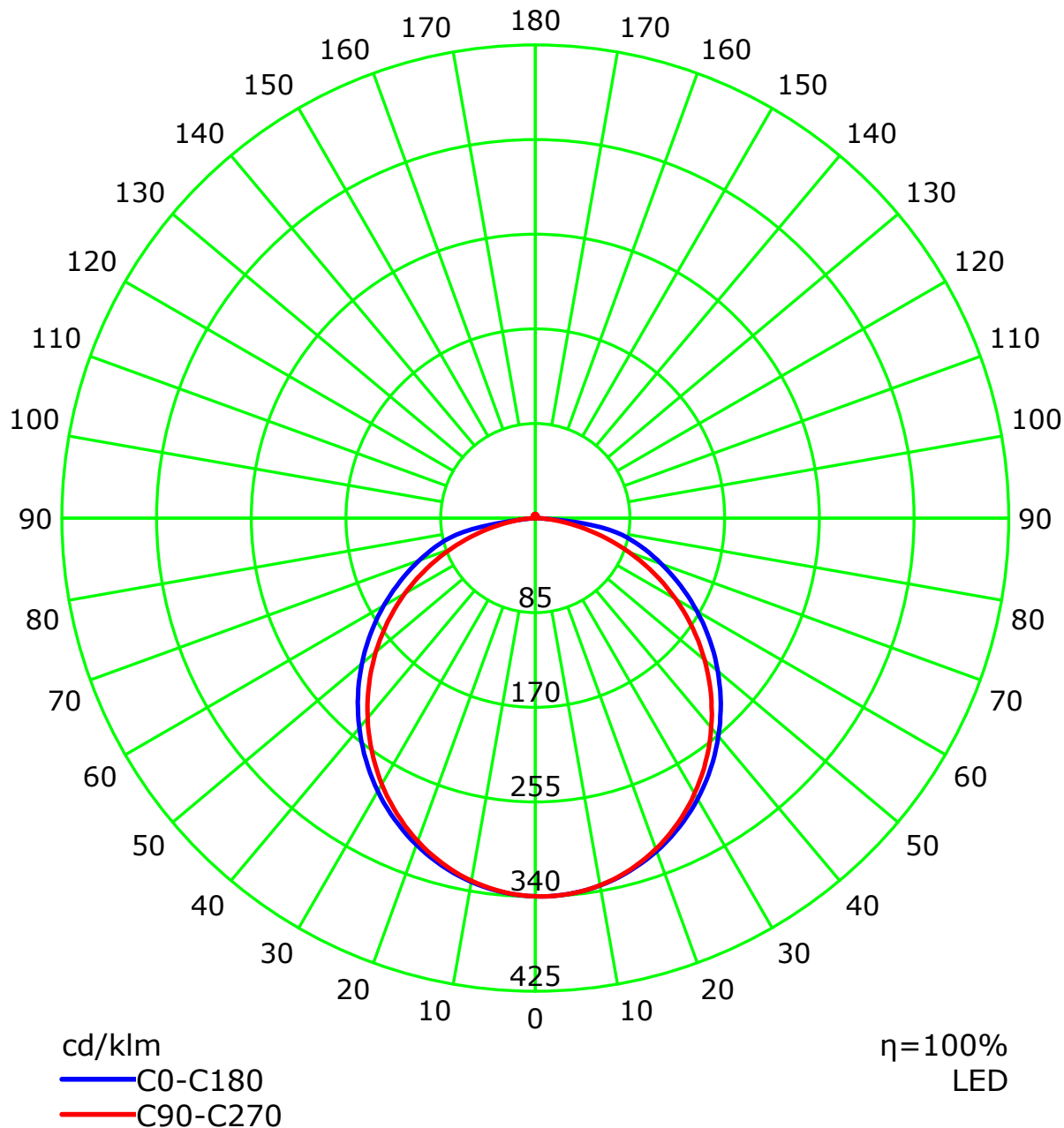
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



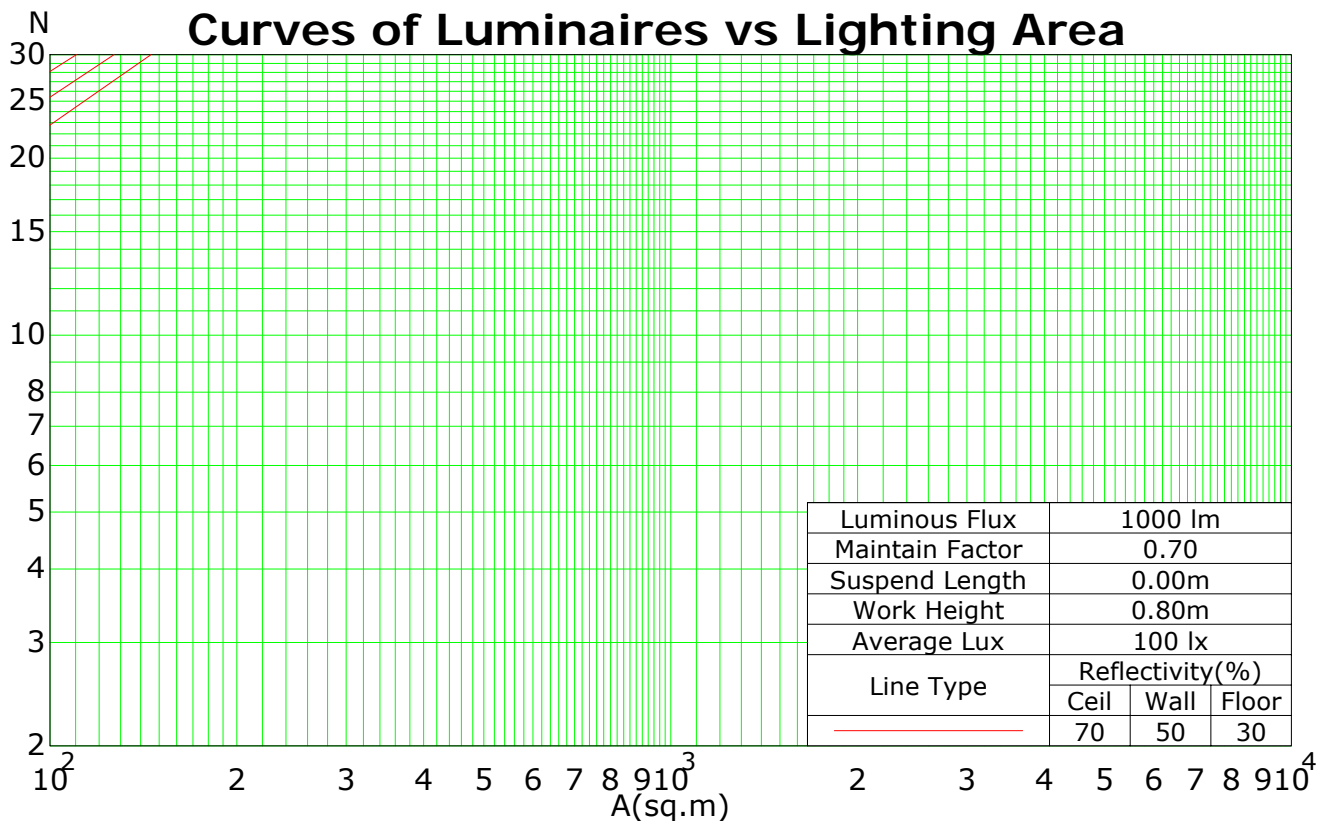
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.93	0.96	0.93	0.90	0.92	0.89	0.87	0.88	0.86	0.84	0.82
2	0.98	0.89	0.82	0.77	0.95	0.87	0.81	0.76	0.84	0.78	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
3	0.89	0.78	0.70	0.63	0.86	0.77	0.69	0.63	0.73	0.67	0.61	0.70	0.65	0.60	0.68	0.63	0.59	0.57
4	0.82	0.69	0.60	0.53	0.79	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.60	0.55	0.50	0.48
5	0.75	0.62	0.53	0.46	0.73	0.61	0.52	0.46	0.58	0.51	0.45	0.56	0.50	0.44	0.54	0.48	0.44	0.42
6	0.69	0.56	0.47	0.40	0.67	0.55	0.46	0.40	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38	0.36
7	0.64	0.50	0.42	0.35	0.62	0.50	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.32
8	0.60	0.46	0.37	0.31	0.58	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.30	0.29
9	0.56	0.42	0.34	0.28	0.54	0.42	0.34	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.27	0.26
10	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.23
Spacing Criteria (Diagonal): 1.37



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

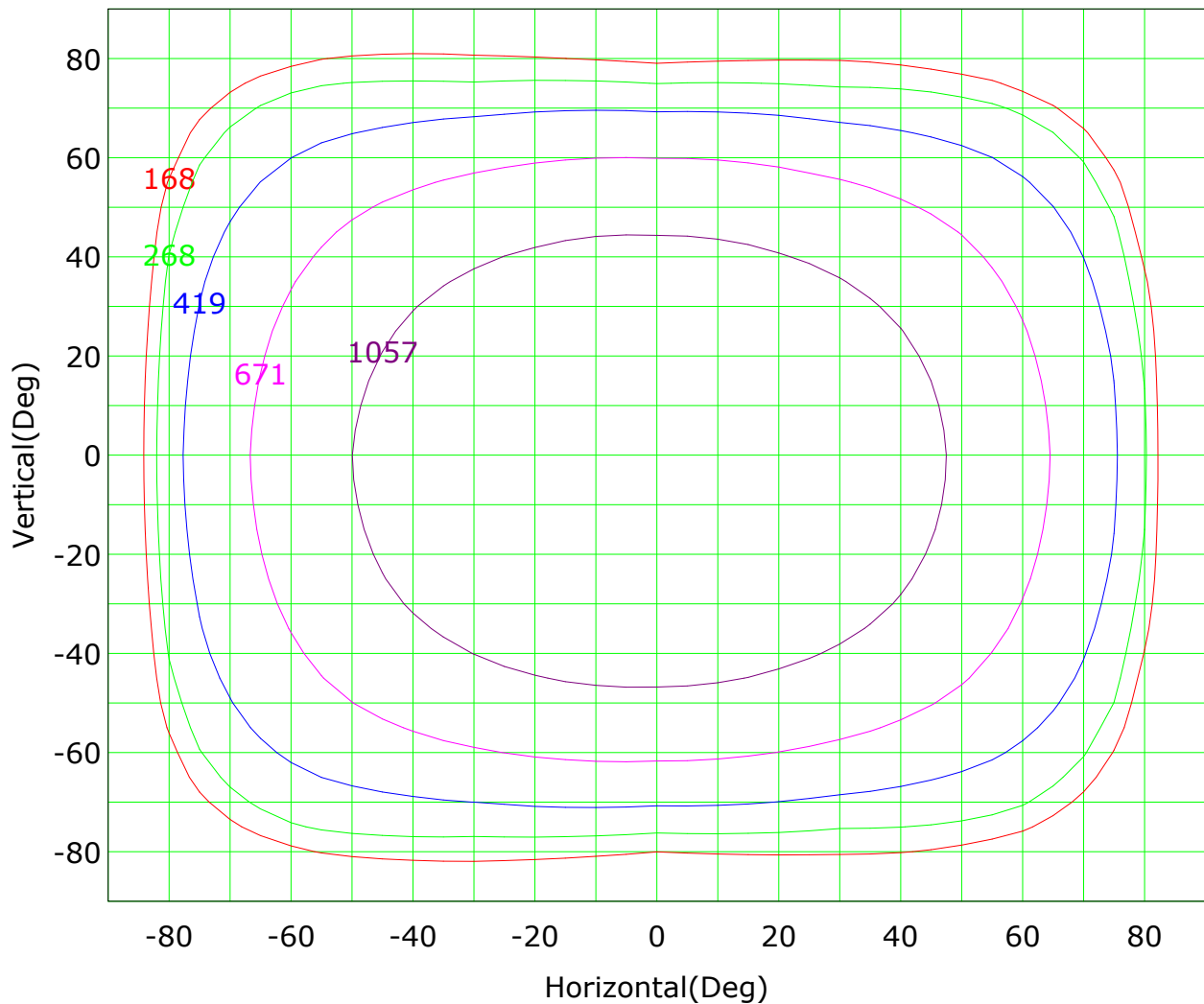
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 1677 cd

(10%): 168 cd	(16%): 268 cd
(25%): 419 cd	(40%): 671 cd
(63%): 1057 cd	(100%): 1677 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

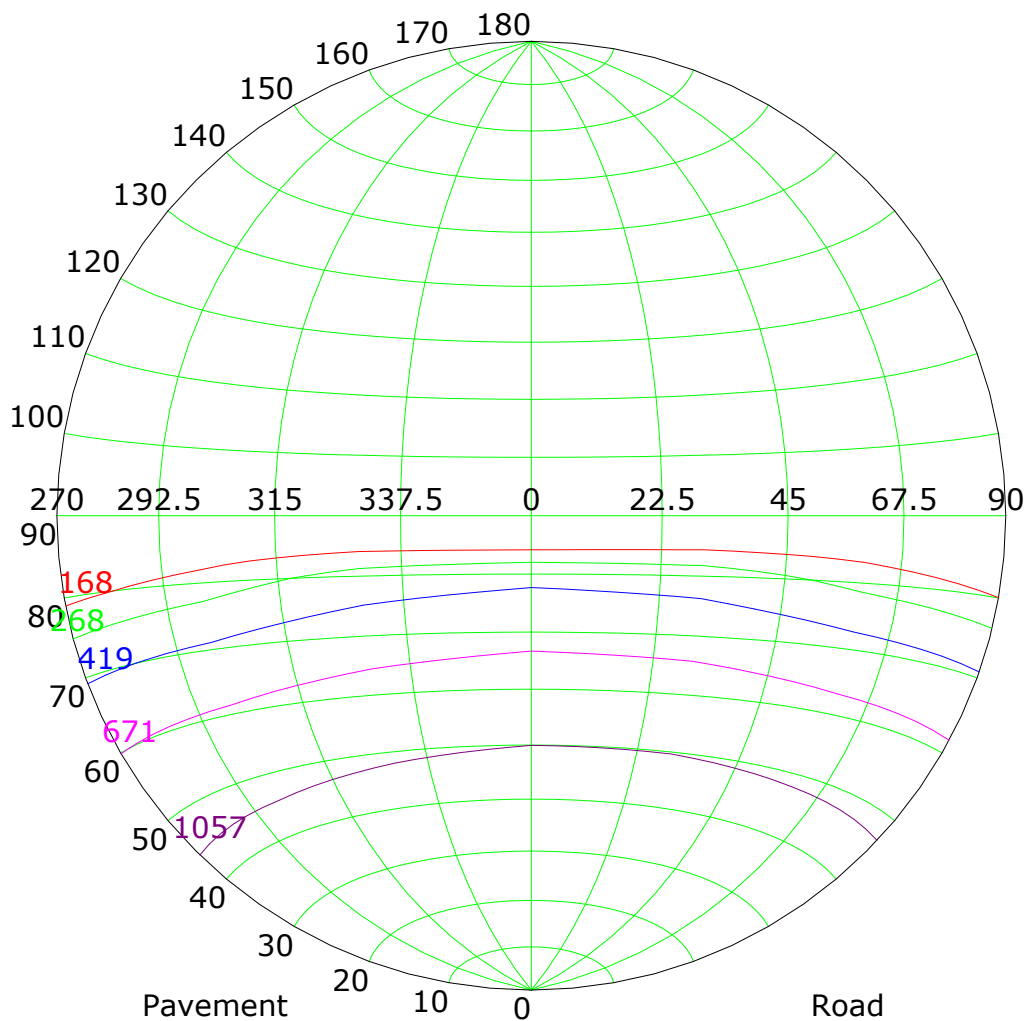
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 1677 cd

(10%): 168 cd	(16%): 268 cd
(25%): 419 cd	(40%): 671 cd
(63%): 1057 cd	(100%): 1677 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

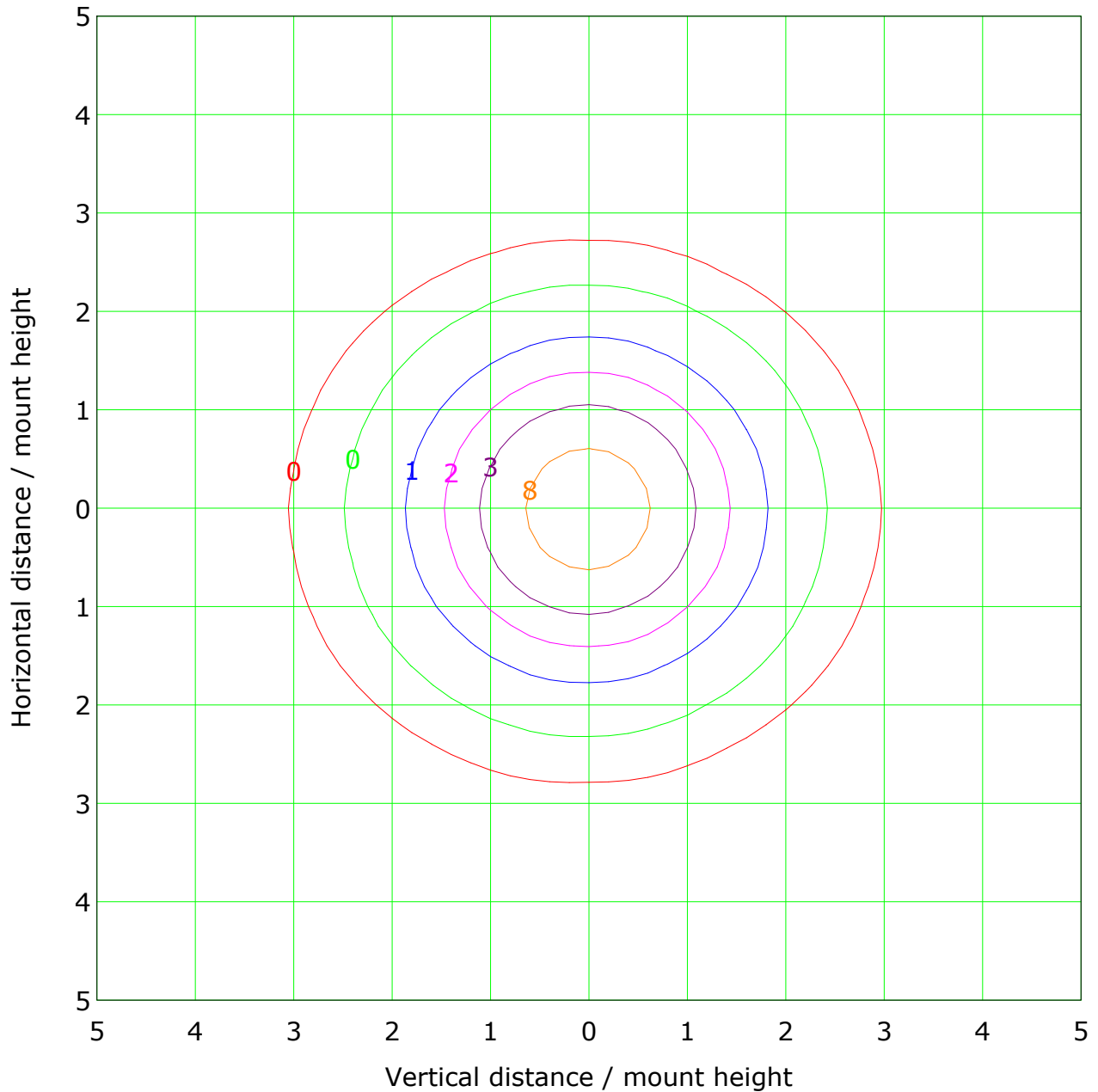
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

IsoLux Plot



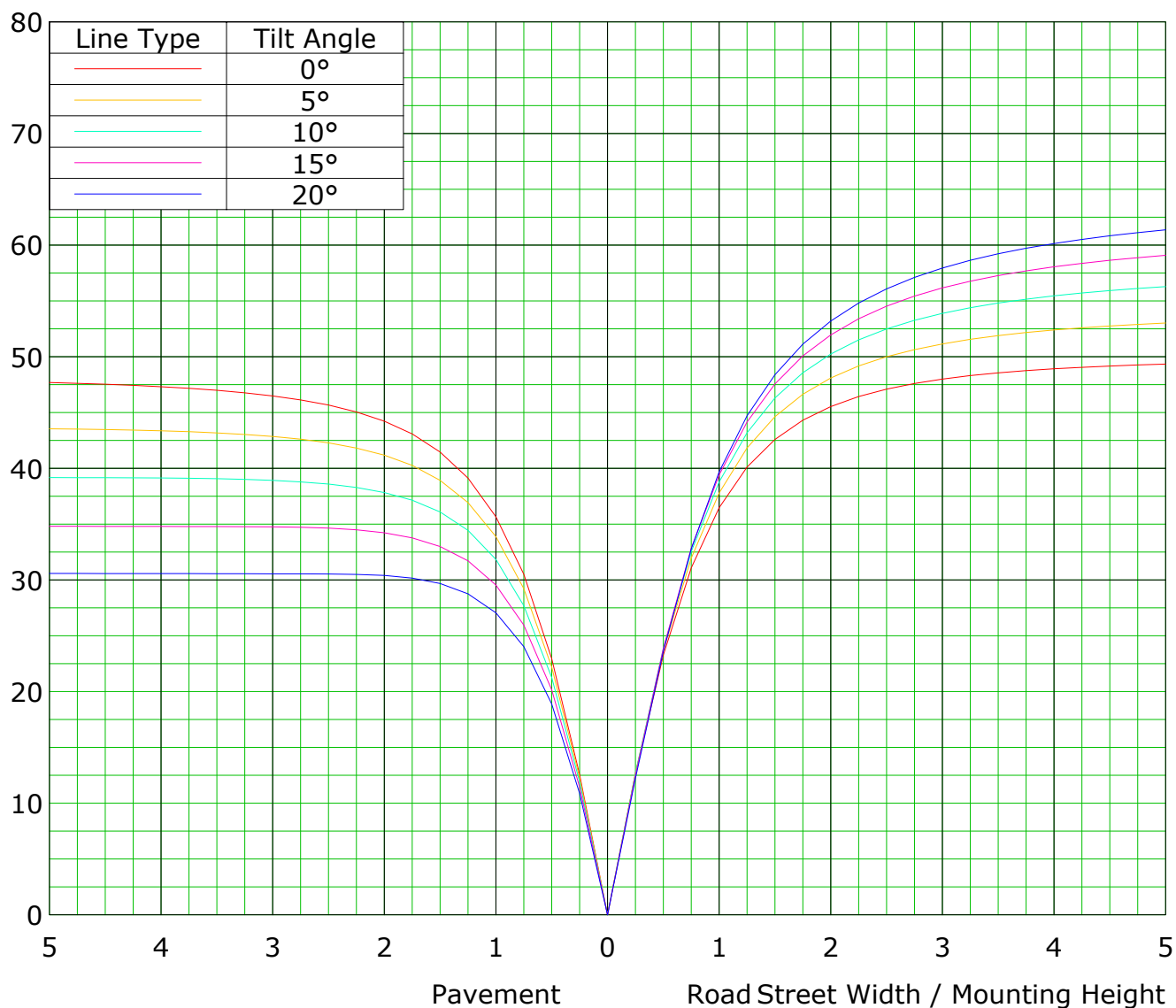
Mounting Height: 10.0m Max Lux(100%): 16.8 lx	
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.7 lx
(20%): 3.4 lx	(50%): 8.4 lx
(100%): 16.8 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

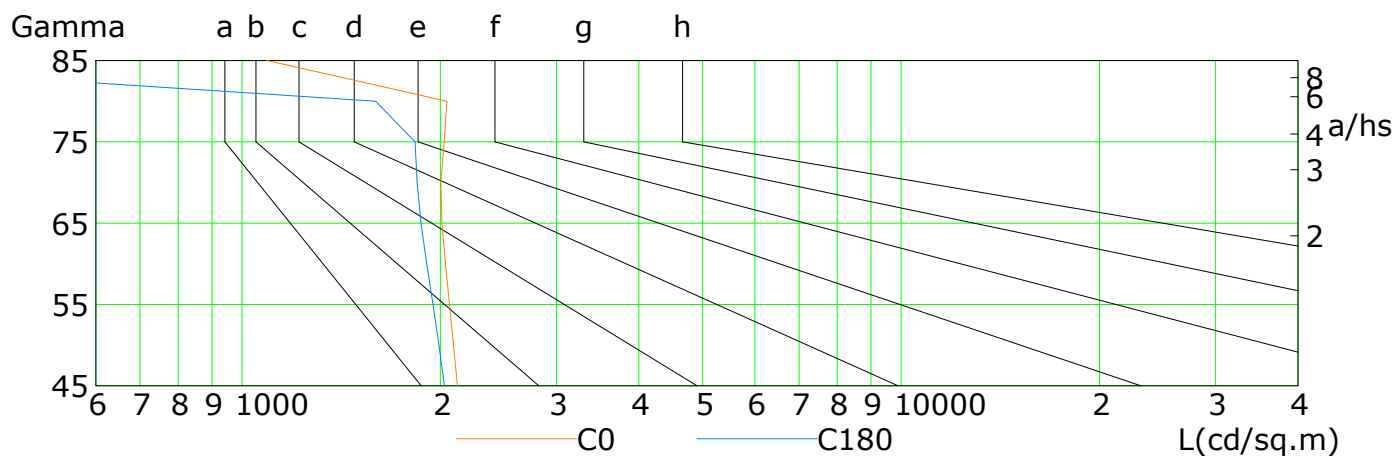
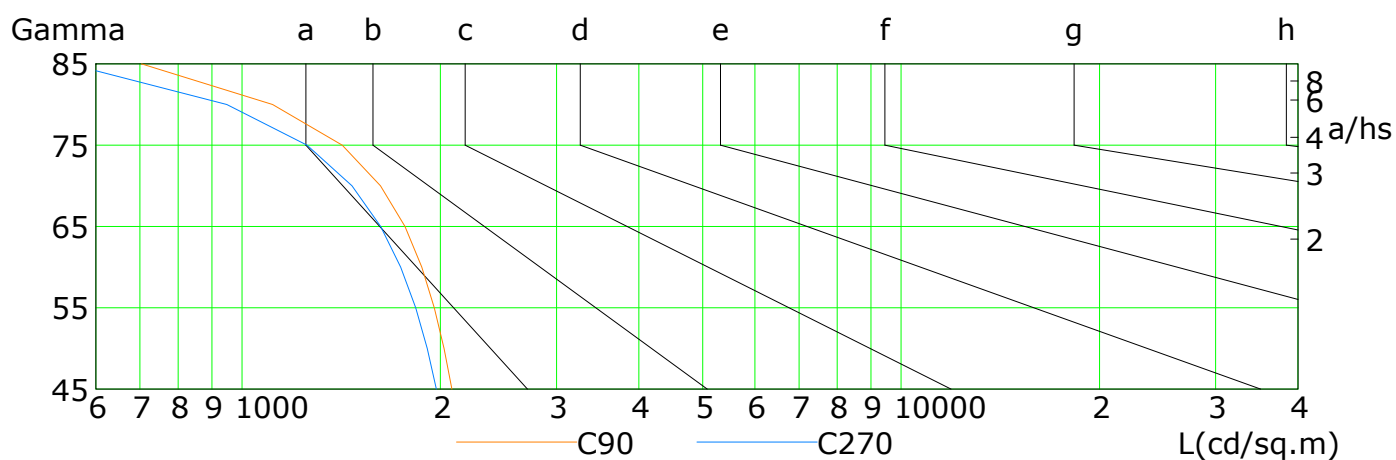
Humidity:

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	2123	2094	2064	2036	2010	2003	2027	2046	1093
C90	2082	2026	1958	1874	1767	1622	1419	1113	704
C180	2029	1990	1949	1907	1869	1844	1830	1596	181
C270	1971	1910	1834	1740	1623	1469	1255	948	547

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

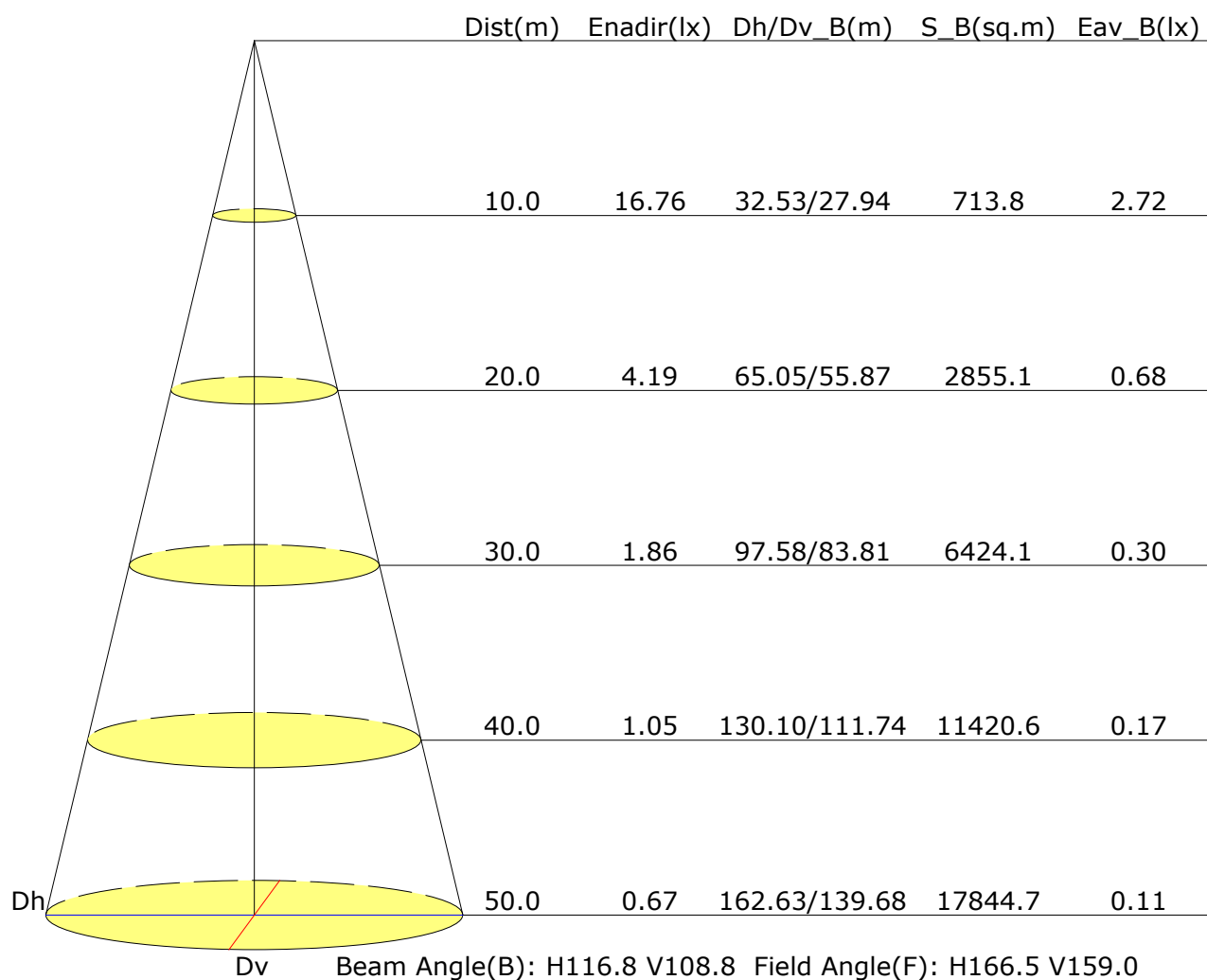
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

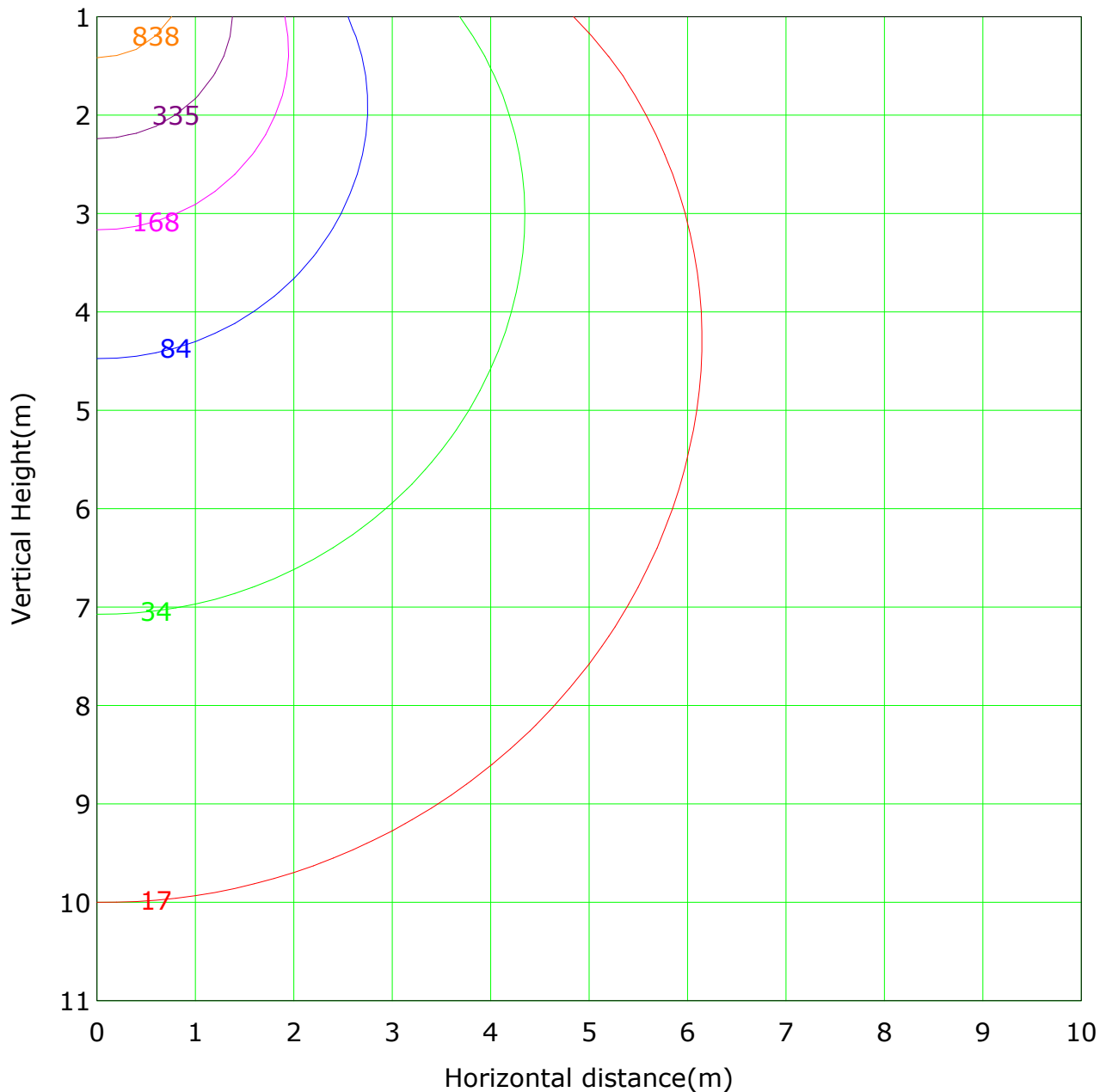
Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.011 m
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1676.0 lx

— (1%): 16.8 lx	— (2%): 33.5 lx
— (5%): 83.8 lx	— (10%): 167.6 lx
— (20%): 335.2 lx	— (50%): 838.0 lx
— (100%):1676.0 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Area Flux Table

Unit: lm

Vertical plane																		
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
0.0	0.1	0.1	0.2	0.7	1.2	1.7	1.8	1.8	2.0	2.3	2.3	2.2	1.7	1.0	0.4	0.1	0.0	19.4
0.0	0.1	1.0	3.1	5.0	6.3	7.2	8.0	8.2	8.4	8.3	7.7	6.9	5.9	4.5	2.5	0.6	0.0	83.7
0.0	0.7	3.4	6.2	8.7	11.2	13.4	15.2	16.1	16.3	15.6	14.0	11.9	9.4	6.9	4.3	1.6	0.1	155.0154.0
0.0	1.6	4.9	8.4	12.3	16.2	19.7	22.5	24.0	24.2	23.0	20.4	17.0	13.0	9.1	5.4	2.3	0.2	224.2223.7
0.1	2.3	5.9	10.4	15.6	20.9	25.6	29.4	31.4	31.6	29.9	26.4	21.7	16.5	11.2	6.5	2.9	0.3	288.6288.2
0.2	2.8	6.9	12.2	18.6	25.1	30.9	35.4	38.0	38.2	36.0	31.7	26.0	19.5	13.0	7.4	3.2	0.4	345.6345.3
0.2	3.1	7.6	13.7	21.0	28.5	35.3	40.5	43.5	43.7	41.1	36.1	29.4	21.9	14.6	8.2	3.5	0.5	392.7392.5
0.3	3.3	8.2	14.8	22.7	30.9	38.5	44.3	47.6	47.8	44.9	39.4	31.9	23.7	15.7	8.8	3.7	0.6	427.1426.9
0.3	3.5	8.5	15.5	23.7	32.3	40.2	46.4	49.9	50.1	47.0	41.2	33.4	24.8	16.4	9.1	3.9	0.6	446.6446.4
0.3	3.5	8.5	15.5	23.8	32.5	40.5	46.7	50.2	50.4	47.3	41.4	33.6	24.9	16.4	9.2	3.9	0.6	449.1448.9
0.3	3.4	8.2	15.0	23.0	31.4	39.2	45.1	48.4	48.7	45.7	40.1	32.5	24.1	15.9	8.9	3.8	0.6	434.2434.1
0.3	3.1	7.7	14.0	21.5	29.3	36.3	41.7	44.8	45.0	42.4	37.2	30.3	22.5	14.9	8.3	3.6	0.5	403.4403.2
0.2	2.8	7.0	12.6	19.2	26.0	32.1	36.9	39.6	39.8	37.5	33.0	27.0	20.2	13.4	7.6	3.3	0.4	358.6358.4
0.1	2.4	6.1	10.8	16.3	21.9	26.9	30.9	33.1	33.3	31.4	27.8	22.8	17.2	11.6	6.7	2.9	0.3	302.6302.2
0.1	1.8	5.1	8.7	12.9	17.1	20.9	24.0	25.6	25.8	24.5	21.7	18.0	13.8	9.6	5.7	2.4	0.2	237.8237.3
0.0	0.9	3.7	6.5	9.2	11.9	14.4	16.5	17.5	17.7	17.0	15.2	12.8	10.1	7.3	4.5	1.7	0.1	167.1166.2
0.0	0.2	1.6	3.8	5.6	6.8	7.9	8.8	9.2	9.4	9.3	8.7	7.7	6.4	4.8	2.6	0.7	0.0	93.7
0.0	0.0	0.1	0.5	1.2	1.9	2.3	2.4	2.3	2.4	2.7	2.7	2.5	1.8	1.0	0.4	0.1	0.0	24.5
0.0	0.0	0.1	0.5	1.2	1.9	2.3	2.4	2.3	2.4	2.7	2.7	2.5	1.8	1.0	0.4	0.1	0.0	24.5
2.5	35.6	94.6	172.1	260.9	351.4	433.1	496.6	553.1	550.5	505.9	447.0	367.6	277.5	187.1	106.4	44.1	5.5	4854
1.2	33.5	92.7	170.1	258.4	348.2	429.7	492.7	526.6	530.1	501.5	443.1	364.4	275.0	185.2	104.6	42.3	4.0	4803

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

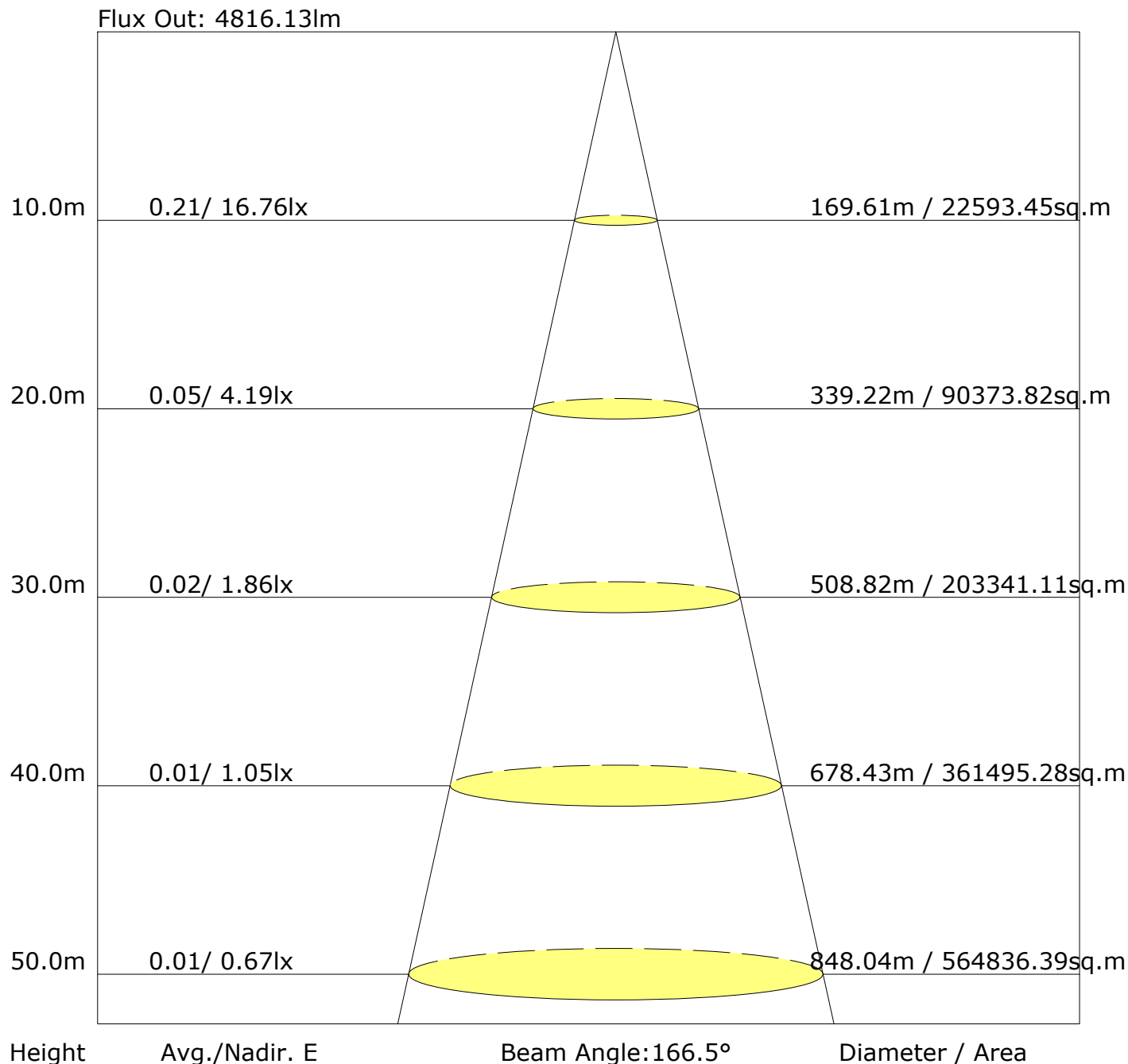
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1600L
 Distance: 9.011 m
 Humidity:
 Inspector:

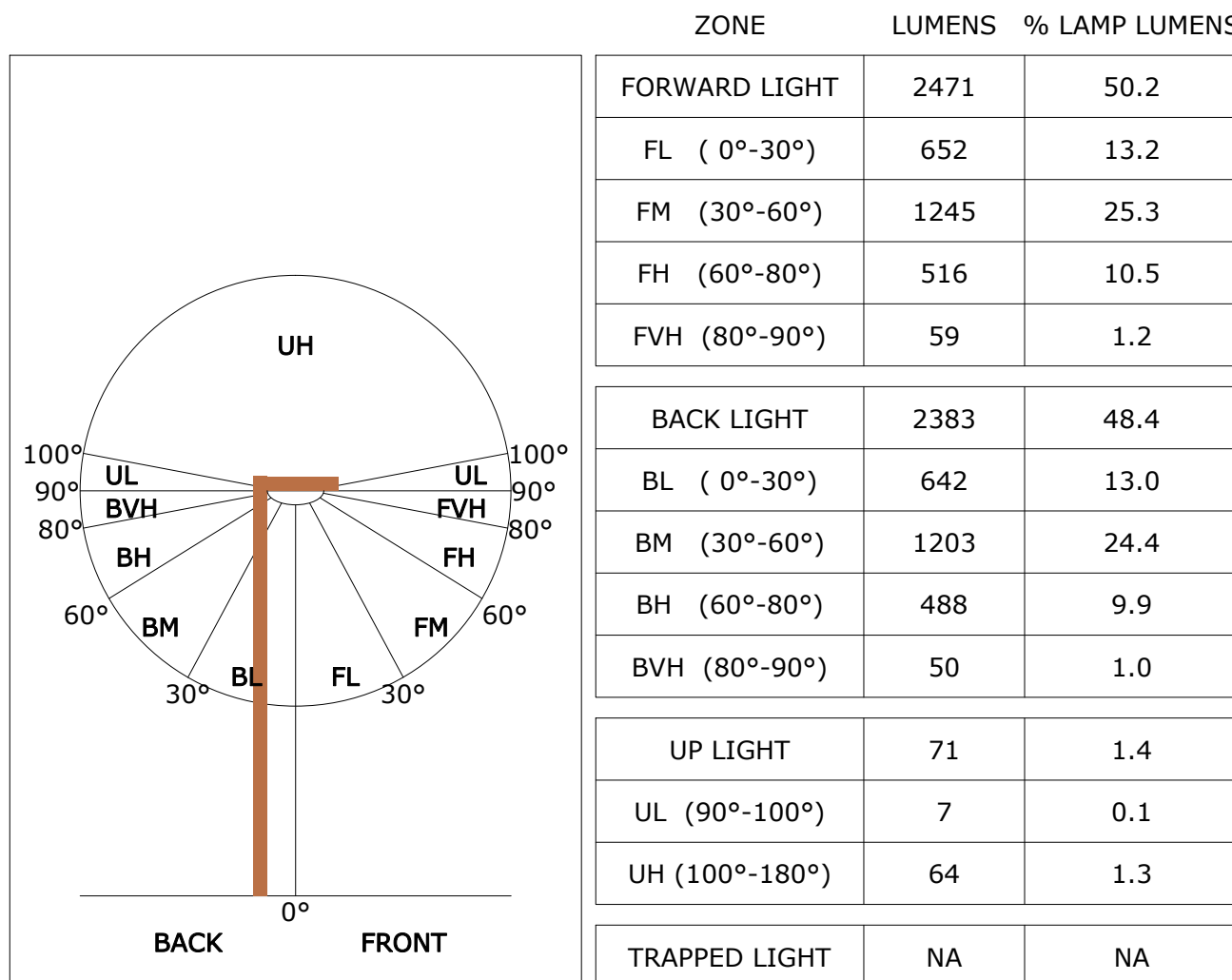
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	15.2	16.6	15.5	16.8	17.1	14.6	16.0	14.9	16.3	16.5
3H	17.0	18.3	17.4	18.6	18.9	16.1	17.3	16.4	17.6	17.9
4H	17.9	19.1	18.3	19.4	19.7	16.6	17.8	17.0	18.1	18.5
6H	18.7	19.8	19.1	20.2	20.5	17.0	18.1	17.3	18.4	18.8
8H	19.0	20.1	19.4	20.4	20.8	17.0	18.1	17.4	18.5	18.8
12H	19.2	20.2	19.6	20.5	20.9	17.1	18.1	17.5	18.5	18.8
X=4H Y=2H	15.8	17.0	16.2	17.3	17.6	15.4	16.6	15.7	16.9	17.2
3H	17.9	18.9	18.3	19.2	19.6	17.0	18.0	17.4	18.4	18.8
4H	18.9	19.8	19.3	20.2	20.6	17.7	18.6	18.1	19.0	19.4
6H	19.8	20.7	20.3	21.1	21.5	18.2	19.0	18.6	19.4	19.8
8H	20.2	21.0	20.7	21.4	21.9	18.3	19.0	18.8	19.5	19.9
12H	20.4	21.1	20.9	21.6	22.0	18.4	19.0	18.8	19.5	20.0
X=8H Y=4H	19.2	19.9	19.6	20.4	20.8	18.1	18.9	18.6	19.3	19.7
6H	20.3	20.9	20.8	21.4	21.9	18.7	19.4	19.2	19.8	20.3
8H	20.8	21.4	21.3	21.8	22.4	19.0	19.5	19.5	20.0	20.5
12H	21.1	21.6	21.6	22.1	22.6	19.1	19.6	19.6	20.1	20.6
X=12H Y=4H	19.2	19.9	19.7	20.3	20.8	18.2	18.9	18.7	19.3	19.8
6H	20.4	20.9	20.9	21.4	21.9	18.9	19.4	19.4	19.9	20.4
8H	20.9	21.4	21.4	21.9	22.4	19.2	19.6	19.7	20.1	20.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.4					+0.4/-0.5				
S=2.0H	+0.5/-0.7					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 4925lm ($8\log(F/F_0) = 5.5$).

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

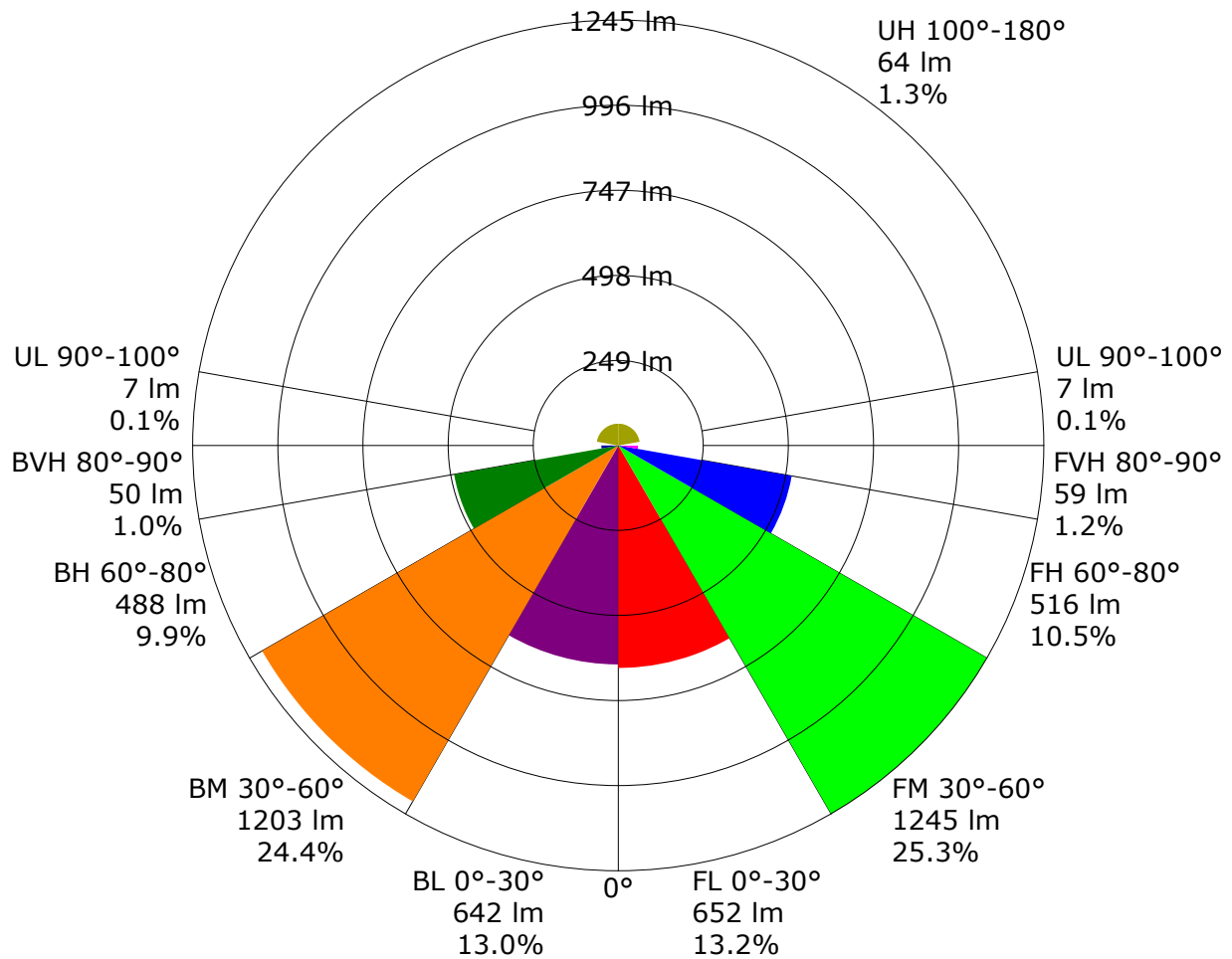
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LCS Graph



Back Light

Scale= 1245 lm

Trapped Light:NA,NA

Forward Light

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
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	0.55	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.30		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.59	0.65	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.46	0.56	0.64	0.69	0.77	0.82	0.86	0.91	0.95	
	0.20		0.41	0.51	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.30		0.46	0.55	0.62	0.67	0.75	0.80	0.83	0.88	0.91	
	0.20		0.41	0.50	0.58	0.63	0.71	0.76	0.80	0.85	0.89	
0.00	0.00	0.00	0.38	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
<p>Rating:38W 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>												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
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	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
Rating:38W 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: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	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	
<p>Rating:38W 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>												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

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	1675.8	1.6	1.6	0.03	0.03
1.0-2.0	1675.2	4.8	6.4	0.10	0.13
2.0-3.0	1673.9	8.0	14.4	0.16	0.29
3.0-4.0	1671.9	11.2	25.6	0.23	0.52
4.0-5.0	1669.3	14.4	40.0	0.29	0.81
5.0-6.0	1665.9	17.5	57.5	0.36	1.17
6.0-7.0	1662.0	20.6	78.1	0.42	1.59
7.0-8.0	1657.5	23.7	101.8	0.48	2.07
8.0-9.0	1652.3	26.8	128.6	0.54	2.61
9.0-10.0	1646.5	29.8	158.4	0.61	3.22
10.0-11.0	1640.1	32.8	191.2	0.67	3.88
11.0-12.0	1633.0	35.7	226.9	0.72	4.61
12.0-13.0	1625.5	38.6	265.5	0.78	5.39
13.0-14.0	1617.2	41.4	306.9	0.84	6.23
14.0-15.0	1608.2	44.2	351.0	0.90	7.13
15.0-16.0	1598.6	46.8	397.9	0.95	8.08
16.0-17.0	1588.5	49.5	447.4	1.00	9.08
17.0-18.0	1578.2	52.0	499.4	1.06	10.14
18.0-19.0	1566.9	54.5	553.9	1.11	11.25
19.0-20.0	1555.1	56.9	610.9	1.16	12.40
20.0-21.0	1543.1	59.3	670.1	1.20	13.61
21.0-22.0	1530.2	61.5	731.6	1.25	14.85
22.0-23.0	1516.9	63.7	795.3	1.29	16.15
23.0-24.0	1502.8	65.7	861.0	1.33	17.48
24.0-25.0	1488.4	67.7	928.7	1.37	18.85
25.0-26.0	1474.0	69.6	998.3	1.41	20.27
26.0-27.0	1458.5	71.4	1069.6	1.45	21.72
27.0-28.0	1442.7	73.0	1142.7	1.48	23.20
28.0-29.0	1426.9	74.7	1217.3	1.52	24.72
29.0-30.0	1410.1	76.1	1293.5	1.55	26.26
30.0-31.0	1392.9	77.5	1371.0	1.57	27.84
31.0-32.0	1375.2	78.8	1449.8	1.60	29.44
32.0-33.0	1357.0	80.0	1529.8	1.62	31.06
33.0-34.0	1339.1	81.1	1610.8	1.65	32.70
34.0-35.0	1320.1	82.0	1692.8	1.66	34.37
35.0-36.0	1300.9	82.8	1775.6	1.68	36.05

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	1281.6	83.6	1859.2	1.70	37.75
37.0-38.0	1261.5	84.2	1943.5	1.71	39.46
38.0-39.0	1241.6	84.8	2028.2	1.72	41.18
39.0-40.0	1220.8	85.2	2113.4	1.73	42.91
40.0-41.0	1199.8	85.4	2198.8	1.73	44.64
41.0-42.0	1179.3	85.7	2284.5	1.74	46.38
42.0-43.0	1157.8	85.8	2370.3	1.74	48.12
43.0-44.0	1135.9	85.7	2456.0	1.74	49.87
44.0-45.0	1114.1	85.6	2541.7	1.74	51.60
45.0-46.0	1091.7	85.4	2627.1	1.73	53.34
46.0-47.0	1069.5	85.1	2712.1	1.73	55.06
47.0-48.0	1046.5	84.6	2796.7	1.72	56.78
48.0-49.0	1023.2	84.0	2880.8	1.71	58.49
49.0-50.0	1000.7	83.4	2964.2	1.69	60.18
50.0-51.0	977.0	82.7	3046.9	1.68	61.86
51.0-52.0	953.1	81.8	3128.7	1.66	63.52
52.0-53.0	929.6	80.9	3209.6	1.64	65.16
53.0-54.0	905.3	79.8	3289.4	1.62	66.78
54.0-55.0	881.4	78.7	3368.1	1.60	68.38
55.0-56.0	856.7	77.4	3445.5	1.57	69.95
56.0-57.0	832.0	76.1	3521.6	1.54	71.50
57.0-58.0	808.0	74.7	3596.3	1.52	73.02
58.0-59.0	782.7	73.2	3669.5	1.49	74.50
59.0-60.0	757.4	71.6	3741.0	1.45	75.95
60.0-61.0	732.0	69.9	3810.9	1.42	77.37
61.0-62.0	706.5	68.1	3879.0	1.38	78.76
62.0-63.0	682.1	66.4	3945.3	1.35	80.10
63.0-64.0	656.6	64.4	4009.8	1.31	81.41
64.0-65.0	631.0	62.5	4072.2	1.27	82.68
65.0-66.0	606.4	60.5	4132.8	1.23	83.91
66.0-67.0	580.9	58.4	4191.2	1.19	85.09
67.0-68.0	555.5	56.3	4247.5	1.14	86.24
68.0-69.0	530.2	54.1	4301.6	1.10	87.33
69.0-70.0	505.0	51.9	4353.4	1.05	88.39
70.0-71.0	480.8	49.7	4403.1	1.01	89.40
71.0-72.0	455.8	47.4	4450.5	0.96	90.36

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	431.1	45.1	4495.6	0.92	91.28
73.0-74.0	407.6	42.9	4538.5	0.87	92.15
74.0-75.0	383.1	40.5	4579.0	0.82	92.97
75.0-76.0	358.9	38.1	4617.1	0.77	93.74
76.0-77.0	334.8	35.7	4652.8	0.72	94.47
77.0-78.0	310.8	33.3	4686.0	0.68	95.14
78.0-79.0	287.3	30.9	4716.9	0.63	95.77
79.0-80.0	261.7	28.2	4745.1	0.57	96.34
80.0-81.0	234.6	25.4	4770.5	0.52	96.86
81.0-82.0	205.4	22.3	4792.8	0.45	97.31
82.0-83.0	172.5	18.8	4811.5	0.38	97.69
83.0-84.0	137.9	15.0	4826.5	0.31	97.99
84.0-85.0	102.3	11.2	4837.7	0.23	98.22
85.0-86.0	68.7	7.5	4845.2	0.15	98.37
86.0-87.0	42.2	4.6	4849.8	0.09	98.47
87.0-88.0	22.6	2.5	4852.3	0.05	98.52
88.0-89.0	11.1	1.2	4853.5	0.02	98.54
89.0-90.0	7.0	0.8	4854.3	0.02	98.56
90.0-91.0	5.9	0.7	4855.0	0.01	98.57
91.0-92.0	5.7	0.6	4855.6	0.01	98.58
92.0-93.0	5.8	0.6	4856.2	0.01	98.60
93.0-94.0	6.0	0.7	4856.9	0.01	98.61
94.0-95.0	6.2	0.7	4857.6	0.01	98.62
95.0-96.0	6.4	0.7	4858.3	0.01	98.64
96.0-97.0	6.6	0.7	4859.0	0.01	98.65
97.0-98.0	6.8	0.7	4859.7	0.01	98.67
98.0-99.0	7.0	0.8	4860.5	0.02	98.68
99.0-100.0	7.1	0.8	4861.2	0.02	98.70
100.0-101.0	7.3	0.8	4862.0	0.02	98.71
101.0-102.0	7.5	0.8	4862.8	0.02	98.73
102.0-103.0	7.7	0.8	4863.7	0.02	98.75
103.0-104.0	7.9	0.8	4864.5	0.02	98.76
104.0-105.0	8.1	0.9	4865.4	0.02	98.78
105.0-106.0	8.3	0.9	4866.2	0.02	98.80
106.0-107.0	8.4	0.9	4867.1	0.02	98.82
107.0-108.0	8.6	0.9	4868.0	0.02	98.84

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	8.8	0.9	4868.9	0.02	98.85
109.0-110.0	9.0	0.9	4869.9	0.02	98.87
110.0-111.0	9.2	0.9	4870.8	0.02	98.89
111.0-112.0	9.4	1.0	4871.8	0.02	98.91
112.0-113.0	9.6	1.0	4872.7	0.02	98.93
113.0-114.0	9.7	1.0	4873.7	0.02	98.95
114.0-115.0	9.9	1.0	4874.7	0.02	98.97
115.0-116.0	10.1	1.0	4875.7	0.02	98.99
116.0-117.0	10.3	1.0	4876.7	0.02	99.01
117.0-118.0	10.5	1.0	4877.7	0.02	99.03
118.0-119.0	10.6	1.0	4878.8	0.02	99.05
119.0-120.0	10.8	1.0	4879.8	0.02	99.08
120.0-121.0	11.0	1.0	4880.8	0.02	99.10
121.0-122.0	11.2	1.1	4881.9	0.02	99.12
122.0-123.0	11.4	1.1	4882.9	0.02	99.14
123.0-124.0	11.6	1.1	4884.0	0.02	99.16
124.0-125.0	11.8	1.1	4885.1	0.02	99.18
125.0-126.0	12.0	1.1	4886.1	0.02	99.20
126.0-127.0	12.2	1.1	4887.2	0.02	99.23
127.0-128.0	12.4	1.1	4888.3	0.02	99.25
128.0-129.0	12.6	1.1	4889.4	0.02	99.27
129.0-130.0	12.8	1.1	4890.5	0.02	99.29
130.0-131.0	13.0	1.1	4891.5	0.02	99.31
131.0-132.0	13.2	1.1	4892.6	0.02	99.34
132.0-133.0	13.3	1.1	4893.7	0.02	99.36
133.0-134.0	13.5	1.1	4894.8	0.02	99.38
134.0-135.0	13.7	1.1	4895.9	0.02	99.40
135.0-136.0	13.9	1.1	4896.9	0.02	99.42
136.0-137.0	14.1	1.1	4898.0	0.02	99.44
137.0-138.0	14.3	1.1	4899.0	0.02	99.47
138.0-139.0	14.4	1.0	4900.1	0.02	99.49
139.0-140.0	14.6	1.0	4901.1	0.02	99.51
140.0-141.0	14.7	1.0	4902.2	0.02	99.53
141.0-142.0	14.9	1.0	4903.2	0.02	99.55
142.0-143.0	15.1	1.0	4904.2	0.02	99.57
143.0-144.0	15.2	1.0	4905.2	0.02	99.59

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 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	15.4	1.0	4906.2	0.02	99.61
145.0-146.0	15.5	1.0	4907.1	0.02	99.63
146.0-147.0	15.7	0.9	4908.1	0.02	99.65
147.0-148.0	15.8	0.9	4909.0	0.02	99.67
148.0-149.0	16.0	0.9	4909.9	0.02	99.69
149.0-150.0	16.1	0.9	4910.8	0.02	99.70
150.0-151.0	16.2	0.9	4911.7	0.02	99.72
151.0-152.0	16.4	0.9	4912.5	0.02	99.74
152.0-153.0	16.5	0.8	4913.4	0.02	99.76
153.0-154.0	16.6	0.8	4914.2	0.02	99.77
154.0-155.0	16.7	0.8	4915.0	0.02	99.79
155.0-156.0	16.9	0.8	4915.8	0.02	99.81
156.0-157.0	17.0	0.7	4916.5	0.02	99.82
157.0-158.0	17.1	0.7	4917.2	0.01	99.83
158.0-159.0	17.2	0.7	4917.9	0.01	99.85
159.0-160.0	17.3	0.7	4918.6	0.01	99.86
160.0-161.0	17.4	0.6	4919.2	0.01	99.88
161.0-162.0	17.5	0.6	4919.8	0.01	99.89
162.0-163.0	17.6	0.6	4920.4	0.01	99.90
163.0-164.0	17.7	0.6	4920.9	0.01	99.91
164.0-165.0	17.8	0.5	4921.5	0.01	99.92
165.0-166.0	17.9	0.5	4921.9	0.01	99.93
166.0-167.0	17.9	0.5	4922.4	0.01	99.94
167.0-168.0	18.0	0.4	4922.8	0.01	99.95
168.0-169.0	18.1	0.4	4923.2	0.01	99.96
169.0-170.0	18.2	0.4	4923.6	0.01	99.96
170.0-171.0	18.2	0.3	4923.9	0.01	99.97
171.0-172.0	18.3	0.3	4924.2	0.01	99.98
172.0-173.0	18.3	0.3	4924.5	0.01	99.98
173.0-174.0	18.4	0.2	4924.7	0.00	99.99
174.0-175.0	18.4	0.2	4924.9	0.00	99.99
175.0-176.0	18.5	0.2	4925.1	0.00	99.99
176.0-177.0	18.5	0.1	4925.2	0.00	100.00
177.0-178.0	18.6	0.1	4925.3	0.00	100.00
178.0-179.0	18.6	0.1	4925.3	0.00	100.00
179.0-180.0	18.6	0.0	4925.3	0.00	100.00

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 2541.67 lm

%lum = 51.6%

%lamp = 51.6%

cone flux(120°): 3741.04 lm

%lum = 76.0%

%lamp = 76.0%

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	1676.0	1676.0	1676.0	1676.0	1676.0	1676.0	1676.0	1676.0	1676.0	1676.0
G1.0	1676.4	1676.9	1677.0	1677.0	1676.2	1675.6	1674.9	1674.4	1674.4	1674.9
G2.0	1676.5	1677.0	1677.3	1676.8	1675.9	1674.4	1673.2	1672.2	1672.1	1672.7
G3.0	1675.7	1676.7	1677.0	1676.0	1674.3	1673.0	1670.8	1669.5	1669.1	1669.9
G4.0	1674.3	1675.8	1676.0	1674.4	1672.6	1670.4	1667.6	1665.9	1665.5	1666.4
G5.0	1672.0	1674.2	1674.4	1672.5	1670.2	1668.0	1664.2	1662.4	1661.1	1662.3
G6.0	1669.4	1671.6	1671.7	1669.8	1666.6	1664.1	1659.3	1657.2	1655.9	1657.2
G7.0	1666.4	1669.1	1668.7	1666.2	1663.1	1660.0	1654.8	1652.5	1650.6	1652.1
G8.0	1662.5	1665.8	1665.2	1662.4	1658.7	1655.4	1649.2	1646.4	1644.0	1645.7
G9.0	1657.8	1661.2	1660.4	1657.2	1653.2	1649.8	1643.2	1640.3	1637.2	1638.9
G10.0	1652.7	1656.7	1655.4	1651.9	1647.6	1644.2	1636.8	1633.3	1630.1	1631.7
G11.0	1646.9	1651.0	1649.8	1645.4	1640.7	1637.5	1629.5	1625.2	1621.2	1623.6
G12.0	1640.8	1645.4	1643.4	1638.7	1633.8	1630.3	1621.7	1617.3	1612.9	1615.2
G13.0	1634.2	1639.3	1636.3	1631.0	1626.3	1622.9	1613.7	1608.9	1604.1	1605.6
G14.0	1626.2	1631.3	1628.3	1622.8	1617.5	1613.9	1604.4	1599.2	1593.2	1595.3
G15.0	1618.5	1623.9	1620.4	1614.3	1609.1	1605.5	1595.4	1589.4	1583.1	1584.9
G16.0	1609.3	1614.7	1611.3	1603.9	1598.4	1595.1	1584.9	1578.4	1571.3	1573.4
G17.0	1600.8	1606.3	1601.8	1593.9	1588.8	1585.4	1575.0	1568.1	1559.9	1562.1
G18.0	1591.7	1596.7	1592.2	1583.7	1578.2	1574.6	1564.2	1556.6	1548.2	1549.8
G19.0	1580.7	1586.3	1580.6	1571.8	1566.3	1563.6	1552.3	1544.1	1535.1	1536.4
G20.0	1570.8	1576.2	1569.9	1560.4	1554.8	1552.3	1540.5	1531.5	1521.7	1522.9
G21.0	1559.6	1564.9	1558.0	1548.0	1542.1	1540.0	1528.8	1519.1	1508.5	1509.4
G22.0	1547.6	1552.8	1545.1	1534.4	1528.4	1526.7	1515.6	1504.7	1492.9	1494.5
G23.0	1536.0	1541.1	1532.7	1521.3	1515.0	1514.1	1502.5	1490.8	1478.8	1480.1
G24.0	1522.4	1527.1	1518.3	1506.0	1499.9	1499.0	1488.0	1475.8	1462.8	1463.2
G25.0	1509.7	1514.7	1504.3	1491.8	1485.3	1485.6	1474.3	1461.5	1447.2	1448.3
G26.0	1496.4	1501.1	1490.0	1476.5	1471.0	1470.6	1459.6	1447.0	1431.6	1431.4
G27.0	1481.8	1486.2	1474.0	1460.1	1454.6	1455.1	1443.9	1429.4	1414.2	1413.7
G28.0	1468.0	1471.7	1458.9	1443.9	1438.5	1439.5	1429.3	1414.0	1397.2	1397.4
G29.0	1453.2	1457.1	1443.0	1428.0	1422.8	1424.1	1413.4	1397.8	1380.5	1379.5
G30.0	1437.1	1441.0	1425.6	1409.1	1404.1	1406.8	1396.5	1379.9	1361.1	1360.7
G31.0	1421.5	1424.8	1408.7	1392.0	1387.3	1390.1	1380.1	1363.3	1343.7	1342.1
G32.0	1404.6	1407.8	1390.5	1373.4	1368.5	1372.1	1362.3	1344.0	1324.1	1322.3
G33.0	1388.7	1390.7	1373.3	1354.9	1350.2	1354.3	1344.9	1326.0	1304.9	1302.8
G34.0	1371.8	1374.3	1355.2	1336.6	1332.4	1337.3	1327.0	1308.3	1285.9	1283.0
G35.0	1353.8	1355.3	1335.5	1315.5	1311.6	1317.2	1308.1	1287.8	1264.9	1262.0
G36.0	1336.3	1337.8	1316.5	1296.5	1292.8	1299.3	1290.8	1269.4	1244.8	1242.5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	1318.3	1319.5	1296.8	1276.3	1272.8	1280.0	1270.5	1249.3	1223.4	1220.6
G38.0	1298.9	1299.8	1275.9	1254.5	1251.5	1259.6	1252.5	1229.5	1203.7	1199.7
G39.0	1280.5	1280.7	1256.9	1233.6	1231.0	1240.7	1233.1	1210.4	1182.5	1179.2
G40.0	1260.5	1260.2	1234.1	1211.2	1208.9	1218.8	1212.8	1188.3	1160.2	1155.6
G41.0	1241.2	1240.6	1213.3	1189.7	1187.2	1198.4	1193.9	1168.4	1138.4	1133.5
G42.0	1222.7	1221.2	1192.9	1168.7	1166.7	1178.7	1173.7	1147.8	1117.5	1112.0
G43.0	1200.9	1199.1	1170.2	1144.1	1142.5	1156.8	1152.4	1125.6	1094.3	1088.6
G44.0	1181.8	1179.5	1148.5	1122.6	1121.3	1135.5	1132.9	1105.2	1071.8	1065.6
G45.0	1161.7	1158.5	1126.2	1099.5	1098.7	1114.4	1110.2	1081.8	1048.0	1041.4
G46.0	1140.2	1136.3	1102.7	1075.4	1074.7	1091.7	1090.2	1060.9	1024.8	1019.1
G47.0	1119.4	1114.7	1080.5	1051.7	1051.5	1069.9	1068.9	1039.2	1003.0	995.7
G48.0	1097.3	1092.0	1055.3	1026.7	1026.9	1046.6	1046.4	1016.0	977.3	969.8
G49.0	1076.1	1070.1	1032.0	1002.7	1003.3	1024.1	1024.9	993.7	954.7	946.8
G50.0	1055.6	1048.8	1009.4	979.5	980.4	1002.5	1003.1	972.1	930.7	923.5
G51.0	1032.1	1024.6	983.3	952.7	953.9	977.5	980.3	947.3	905.7	896.9
G52.0	1011.2	1001.8	960.2	927.8	930.3	955.6	959.0	925.4	882.7	873.3
G53.0	989.1	980.1	935.6	903.8	905.9	932.5	935.0	901.5	855.8	846.2
G54.0	966.0	954.9	909.9	876.3	878.9	908.0	913.5	878.2	832.3	822.3
G55.0	943.6	932.9	885.1	851.8	854.9	884.4	890.9	856.1	807.7	798.1
G56.0	920.2	907.2	858.8	823.7	827.2	859.8	867.3	830.4	781.7	770.3
G57.0	897.7	884.9	833.5	798.8	802.7	835.9	844.7	808.0	756.8	745.9
G58.0	874.9	861.2	808.1	772.5	777.2	812.2	822.9	784.4	732.7	720.2
G59.0	849.8	835.3	780.3	743.7	749.0	786.0	797.8	759.5	705.2	693.2
G60.0	828.1	811.5	755.7	718.5	723.1	763.0	775.7	735.9	680.9	667.1
G61.0	802.9	786.3	727.4	689.0	695.7	736.8	751.5	710.9	653.0	639.8
G62.0	780.6	762.2	702.7	662.3	669.7	713.6	728.5	687.0	628.6	613.4
G63.0	757.6	739.1	676.6	636.5	644.4	689.3	706.5	664.1	602.9	588.0
G64.0	733.1	712.7	649.2	608.0	615.7	662.8	681.6	639.1	576.0	559.1
G65.0	710.1	689.3	622.7	580.8	590.3	639.4	660.1	615.3	550.3	533.7
G66.0	687.0	665.0	597.4	553.3	563.8	615.3	637.6	592.7	525.8	507.1
G67.0	663.2	639.5	568.6	524.6	536.1	589.9	614.3	567.3	499.1	479.1
G68.0	640.5	615.2	542.3	496.9	509.5	566.2	592.2	545.1	473.5	453.4
G69.0	617.2	590.1	514.8	468.2	481.8	541.6	568.8	520.0	446.9	425.6
G70.0	594.7	566.4	488.5	440.5	455.4	518.3	547.6	498.5	422.7	398.9
G71.0	572.7	542.8	463.3	412.8	429.2	496.1	525.6	475.7	397.5	372.3
G72.0	549.3	518.5	434.7	384.0	402.0	471.2	502.7	452.3	371.4	344.6
G73.0	528.3	495.3	409.9	356.4	376.1	448.5	481.9	430.9	346.7	319.6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	506.3	473.2	384.0	330.1	351.6	426.7	460.1	408.8	323.7	293.5
G75.0	483.4	448.3	357.2	301.5	324.1	402.2	436.5	384.8	297.6	266.5
G76.0	461.6	426.7	332.0	274.5	300.2	381.0	415.5	363.8	274.7	241.5
G77.0	438.0	402.2	306.3	245.7	273.8	356.9	388.2	339.8	251.4	214.2
G78.0	417.1	380.8	282.4	221.0	251.4	336.0	360.7	316.3	229.6	191.1
G79.0	393.9	358.4	259.1	195.6	228.9	312.8	326.5	287.4	209.4	167.4
G80.0	364.6	334.7	235.5	168.7	205.0	285.2	284.3	251.1	186.8	143.8
G81.0	332.5	308.4	213.7	146.3	184.9	254.4	236.5	211.0	167.5	122.3
G82.0	294.4	276.9	191.9	123.6	164.5	217.8	176.5	160.8	146.3	100.9
G83.0	247.5	238.7	169.9	101.3	143.6	172.4	110.4	103.7	121.9	82.0
G84.0	196.3	196.2	150.1	81.6	124.0	120.2	56.0	47.8	93.1	65.6
G85.0	127.3	142.8	124.8	63.1	102.1	60.8	21.1	18.6	57.1	49.1
G86.0	65.0	83.7	98.1	47.5	78.5	24.9	8.2	10.6	19.7	36.7
G87.0	29.4	36.3	66.5	35.0	51.1	7.9	6.8	9.2	11.0	25.7
G88.0	9.3	13.3	28.8	23.3	17.2	5.8	6.2	7.7	7.4	15.8
G89.0	6.1	8.8	10.7	14.8	6.4	5.3	6.0	6.4	5.8	8.3
G90.0	5.5	7.4	7.7	7.7	4.6	5.3	5.9	6.3	6.0	6.0
G91.0	5.1	6.1	4.6	4.7	4.8	5.4	6.2	6.6	6.2	6.2
G92.0	5.1	5.1	4.6	5.0	5.0	5.6	6.3	6.7	6.4	6.4
G93.0	5.3	5.2	4.9	5.1	5.2	5.8	6.6	6.9	6.7	6.6
G94.0	5.4	5.4	5.1	5.3	5.4	5.9	6.8	7.1	6.8	6.8
G95.0	5.7	5.6	5.2	5.5	5.6	6.1	7.0	7.2	7.0	7.0
G96.0	5.9	5.8	5.4	5.7	5.8	6.3	7.1	7.5	7.2	7.2
G97.0	6.0	6.0	5.7	5.9	6.1	6.5	7.4	7.6	7.4	7.4
G98.0	6.2	6.1	5.8	6.1	6.2	6.7	7.5	7.8	7.7	7.6
G99.0	6.4	6.3	6.0	6.3	6.4	6.9	7.6	8.0	7.8	7.8
G100.0	6.6	6.5	6.2	6.5	6.6	7.1	7.8	8.2	8.0	7.9
G101.0	6.8	6.7	6.4	6.7	6.9	7.3	8.0	8.4	8.2	8.1
G102.0	6.9	6.9	6.6	6.9	7.1	7.5	8.2	8.6	8.3	8.3
G103.0	7.1	7.1	6.8	7.0	7.2	7.6	8.4	8.7	8.5	8.5
G104.0	7.3	7.3	6.9	7.3	7.4	7.8	8.6	8.9	8.7	8.6
G105.0	7.5	7.4	7.1	7.4	7.6	8.0	8.8	9.0	8.9	8.9
G106.0	7.7	7.6	7.4	7.6	7.7	8.2	8.9	9.3	9.1	9.1
G107.0	7.9	7.8	7.5	7.9	7.9	8.4	9.0	9.4	9.2	9.3
G108.0	8.0	8.0	7.6	8.0	8.1	8.6	9.3	9.6	9.5	9.4
G109.0	8.2	8.1	7.9	8.2	8.4	8.8	9.5	9.7	9.6	9.6
G110.0	8.5	8.4	8.1	8.4	8.7	9.0	9.7	10.0	9.9	9.8

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	8.6	8.6	8.2	8.6	8.9	9.2	9.8	10.1	10.2	10.0
G112.0	8.8	8.7	8.5	8.7	9.2	9.4	10.0	10.3	10.3	10.2
G113.0	9.0	8.9	8.6	8.9	9.2	9.4	10.1	10.5	10.5	10.3
G114.0	9.2	9.1	8.8	9.1	9.2	9.7	10.3	10.7	10.6	10.6
G115.0	9.3	9.3	9.0	9.3	9.4	9.9	10.5	10.9	10.8	10.6
G116.0	9.5	9.4	9.2	9.4	9.7	10.1	10.7	11.0	10.9	10.9
G117.0	9.7	9.6	9.4	9.7	9.8	10.3	10.8	11.3	11.2	11.0
G118.0	9.9	9.8	9.5	9.8	10.0	10.5	11.0	11.4	11.3	11.3
G119.0	10.0	9.9	9.7	10.1	10.2	10.7	11.2	11.6	11.5	11.4
G120.0	10.2	10.2	10.0	10.2	10.5	10.9	11.4	11.9	11.7	11.6
G121.0	10.4	10.4	10.1	10.4	10.6	11.0	11.6	12.1	11.9	11.8
G122.0	10.6	10.6	10.3	10.5	10.8	11.3	11.9	12.2	12.1	12.0
G123.0	10.8	10.8	10.4	10.8	11.1	11.4	12.0	12.3	12.4	12.1
G124.0	11.0	11.0	10.7	11.0	11.1	11.7	12.3	12.5	12.5	12.2
G125.0	11.2	11.2	10.9	11.1	11.4	11.8	12.4	12.8	12.6	12.5
G126.0	11.4	11.4	11.1	11.3	11.6	12.1	12.6	13.0	12.8	12.6
G127.0	11.6	11.7	11.3	11.5	11.8	12.3	12.8	13.2	13.0	12.7
G128.0	11.9	11.9	11.5	11.7	11.9	12.5	13.0	13.3	13.1	13.0
G129.0	12.0	12.0	11.7	11.9	12.2	12.7	13.2	13.5	13.3	13.2
G130.0	12.3	12.2	11.9	12.1	12.4	13.0	13.5	13.7	13.5	13.4
G131.0	12.4	12.7	12.0	12.3	12.4	13.0	13.6	14.0	13.6	13.6
G132.0	12.6	12.7	12.2	12.5	12.6	13.2	13.8	14.2	13.8	13.7
G133.0	12.9	12.9	12.5	12.6	12.8	13.5	14.0	14.3	13.9	13.9
G134.0	13.2	13.0	12.5	12.8	13.0	13.7	14.2	14.5	14.2	14.1
G135.0	13.4	13.2	12.8	13.0	13.2	13.8	14.4	14.7	14.3	14.3
G136.0	13.5	13.3	13.0	13.2	13.4	14.1	14.5	14.9	14.5	14.5
G137.0	13.7	13.5	13.1	13.4	13.5	14.5	14.7	15.2	14.7	14.7
G138.0	13.8	13.7	13.3	13.6	13.8	14.5	14.8	15.3	14.9	14.8
G139.0	13.9	13.8	13.4	13.8	14.0	14.6	15.0	15.5	15.0	15.0
G140.0	14.1	14.0	13.7	14.0	14.1	14.7	15.2	15.6	15.1	15.2
G141.0	14.2	14.2	13.9	14.1	14.3	14.9	15.4	15.7	15.4	15.3
G142.0	14.4	14.3	14.1	14.3	14.5	15.0	15.5	15.8	15.5	15.5
G143.0	14.6	14.4	14.3	14.5	14.7	15.1	15.7	16.0	15.7	15.6
G144.0	14.8	14.6	14.4	14.6	14.9	15.4	15.8	16.1	15.8	15.8
G145.0	14.9	14.8	14.5	14.8	15.0	15.5	15.9	16.2	16.0	15.9
G146.0	15.0	15.0	14.7	15.0	15.1	15.7	16.1	16.4	16.1	16.1
G147.0	15.2	15.1	14.8	15.2	15.2	15.8	16.2	16.5	16.3	16.3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	15.4	15.3	14.9	15.3	15.4	15.9	16.4	16.6	16.5	16.4
G149.0	15.5	15.4	15.1	15.5	15.6	16.1	16.6	16.7	16.6	16.5
G150.0	15.7	15.5	15.4	15.7	15.7	16.2	16.7	16.9	16.6	16.7
G151.0	15.9	15.8	15.5	15.8	15.9	16.3	16.8	17.0	16.8	16.8
G152.0	16.0	15.8	15.6	16.0	16.0	16.4	16.9	17.1	16.9	16.9
G153.0	16.1	16.0	15.8	16.0	16.1	16.5	17.0	17.1	16.9	17.1
G154.0	16.2	16.2	15.9	16.3	16.2	16.7	17.1	17.2	17.2	17.2
G155.0	16.4	16.3	16.0	16.4	16.4	16.8	17.2	17.3	17.2	17.3
G156.0	16.5	16.4	16.1	16.4	16.5	16.9	17.3	17.5	17.3	17.4
G157.0	16.7	16.5	16.3	16.7	16.6	17.1	17.3	17.5	17.4	17.5
G158.0	16.8	16.6	16.4	16.7	16.7	17.2	17.5	17.7	17.5	17.6
G159.0	16.9	16.7	16.5	16.8	16.9	17.3	17.5	17.8	17.7	17.7
G160.0	17.0	16.8	16.6	17.0	17.0	17.4	17.6	17.8	17.7	17.8
G161.0	17.0	16.9	16.8	17.1	17.1	17.5	17.6	17.9	17.7	17.9
G162.0	17.1	17.1	16.9	17.2	17.3	17.7	17.8	18.0	17.9	18.0
G163.0	17.2	17.2	17.0	17.3	17.4	17.7	17.8	18.1	18.0	18.1
G164.0	17.4	17.3	17.1	17.4	17.4	17.8	18.0	18.2	18.0	18.2
G165.0	17.4	17.4	17.2	17.5	17.6	18.0	17.9	18.3	18.1	18.2
G166.0	17.5	17.5	17.3	17.7	17.6	18.0	18.1	18.3	18.2	18.3
G167.0	17.6	17.6	17.4	17.8	17.7	18.2	18.1	18.4	18.2	18.4
G168.0	17.7	17.8	17.5	17.8	17.9	18.3	18.2	18.4	18.2	18.4
G169.0	17.8	17.8	17.7	18.0	17.9	18.4	18.2	18.4	18.3	18.5
G170.0	17.9	17.9	17.8	18.1	17.9	18.4	18.3	18.5	18.4	18.5
G171.0	18.0	18.0	17.8	18.2	18.1	18.5	18.3	18.5	18.3	18.5
G172.0	18.0	18.1	17.9	18.2	18.2	18.5	18.4	18.6	18.4	18.6
G173.0	18.1	18.2	18.0	18.3	18.2	18.6	18.4	18.5	18.4	18.7
G174.0	18.1	18.2	18.1	18.4	18.2	18.6	18.4	18.6	18.4	18.6
G175.0	18.2	18.4	18.2	18.4	18.3	18.7	18.4	18.7	18.5	18.7
G176.0	18.2	18.4	18.2	18.5	18.4	18.8	18.5	18.7	18.4	18.7
G177.0	18.4	18.5	18.3	18.6	18.4	18.8	18.5	18.7	18.4	18.7
G178.0	18.4	18.5	18.4	18.6	18.4	18.8	18.5	18.7	18.5	18.8
G179.0	18.5	18.6	18.4	18.7	18.5	18.9	18.5	18.7	18.4	18.7
G180.0	18.5	18.7	18.4	18.7	18.6	18.9	18.5	18.6	18.4	18.7

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1676.0	1676.0	1676.0							
G1.0	1675.1	1675.5	1676.4							
G2.0	1673.6	1674.6	1676.5							
G3.0	1671.3	1673.2	1675.7							
G4.0	1668.4	1670.9	1674.3							
G5.0	1664.8	1668.3	1672.0							
G6.0	1660.3	1664.5	1669.4							
G7.0	1655.5	1660.8	1666.4							
G8.0	1650.2	1655.9	1662.5							
G9.0	1643.8	1650.6	1657.8							
G10.0	1637.3	1645.2	1652.7							
G11.0	1629.7	1638.8	1646.9							
G12.0	1622.0	1631.5	1640.8							
G13.0	1613.6	1624.3	1634.2							
G14.0	1604.1	1615.8	1626.2							
G15.0	1594.2	1606.9	1618.5							
G16.0	1583.1	1597.2	1609.3							
G17.0	1572.4	1587.7	1600.8							
G18.0	1561.0	1577.4	1591.7							
G19.0	1548.3	1566.1	1580.7							
G20.0	1535.8	1554.2	1570.8							
G21.0	1523.0	1543.0	1559.6							
G22.0	1509.0	1529.9	1547.6							
G23.0	1494.4	1516.9	1536.0							
G24.0	1479.0	1502.8	1522.4							
G25.0	1464.3	1489.5	1509.7							
G26.0	1448.9	1474.8	1496.4							
G27.0	1431.9	1459.4	1481.8							
G28.0	1416.0	1444.6	1468.0							
G29.0	1399.1	1429.2	1453.2							
G30.0	1381.1	1412.2	1437.1							
G31.0	1363.9	1396.3	1421.5							
G32.0	1343.9	1377.8	1404.6							
G33.0	1325.2	1360.5	1388.7							
G34.0	1307.2	1343.2	1371.8							
G35.0	1285.9	1323.6	1353.8							
G36.0	1267.0	1306.0	1336.3							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1244.8	1286.1	1318.3							
G38.0	1225.4	1266.8	1298.9							
G39.0	1204.7	1247.1	1280.5							
G40.0	1182.6	1226.6	1260.5							
G41.0	1162.3	1207.3	1241.2							
G42.0	1140.5	1186.9	1222.7							
G43.0	1117.4	1165.2	1200.9							
G44.0	1095.2	1145.1	1181.8							
G45.0	1071.7	1122.0	1161.7							
G46.0	1050.0	1101.8	1140.2							
G47.0	1027.0	1080.0	1119.4							
G48.0	1002.8	1057.2	1097.3							
G49.0	979.4	1035.0	1076.1							
G50.0	955.8	1012.8	1055.6							
G51.0	930.6	988.9	1032.1							
G52.0	907.5	967.3	1011.2							
G53.0	881.1	942.3	989.1							
G54.0	857.7	920.2	966.0							
G55.0	832.8	897.0	943.6							
G56.0	807.0	872.5	920.2							
G57.0	781.9	850.2	897.7							
G58.0	757.9	826.6	874.9							
G59.0	731.4	801.9	849.8							
G60.0	706.1	777.9	828.1							
G61.0	679.3	753.1	802.9							
G62.0	653.5	729.0	780.6							
G63.0	629.0	706.1	757.6							
G64.0	601.0	679.9	733.1							
G65.0	576.3	657.0	710.1							
G66.0	550.6	632.9	687.0							
G67.0	523.7	608.1	663.2							
G68.0	499.1	585.2	640.5							
G69.0	470.9	559.5	617.2							
G70.0	446.5	537.3	594.7							
G71.0	421.1	514.3	572.7							
G72.0	394.6	490.5	549.3							
G73.0	369.8	468.2	528.3							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	346.0	446.7	506.3							
G75.0	319.3	422.6	483.4							
G76.0	296.5	401.7	461.6							
G77.0	270.8	377.9	438.0							
G78.0	249.2	357.4	417.1							
G79.0	227.6	336.0	393.9							
G80.0	205.6	313.3	364.6							
G81.0	185.4	288.8	332.5							
G82.0	164.9	258.9	294.4							
G83.0	146.6	224.9	247.5							
G84.0	128.9	186.9	196.3							
G85.0	107.7	134.8	127.3							
G86.0	85.6	81.0	65.0							
G87.0	58.3	35.3	29.4							
G88.0	24.3	11.2	9.3							
G89.0	8.8	7.3	6.1							
G90.0	5.8	6.3	5.5							
G91.0	5.9	6.2	5.1							
G92.0	6.1	6.2	5.1							
G93.0	6.3	6.5	5.3							
G94.0	6.5	6.7	5.4							
G95.0	6.7	6.9	5.7							
G96.0	7.0	7.1	5.9							
G97.0	7.1	7.2	6.0							
G98.0	7.3	7.5	6.2							
G99.0	7.5	7.6	6.4							
G100.0	7.7	7.7	6.6							
G101.0	7.9	8.0	6.8							
G102.0	8.1	8.2	6.9							
G103.0	8.3	8.4	7.1							
G104.0	8.5	8.6	7.3							
G105.0	8.7	8.7	7.5							
G106.0	8.8	9.0	7.7							
G107.0	9.1	9.1	7.9							
G108.0	9.2	9.3	8.0							
G109.0	9.4	9.4	8.2							
G110.0	9.6	9.7	8.5							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	10.0	9.8	8.6							
G112.0	10.2	10.1	8.8							
G113.0	10.3	10.2	9.0							
G114.0	10.5	10.4	9.2							
G115.0	10.7	10.5	9.3							
G116.0	10.7	10.7	9.5							
G117.0	10.9	10.9	9.7							
G118.0	11.1	11.1	9.9							
G119.0	11.2	11.3	10.0							
G120.0	11.5	11.5	10.2							
G121.0	11.7	11.7	10.4							
G122.0	11.8	11.9	10.6							
G123.0	12.0	12.1	10.8							
G124.0	12.1	12.3	11.0							
G125.0	12.4	12.7	11.2							
G126.0	12.4	12.8	11.4							
G127.0	12.6	13.0	11.6							
G128.0	12.8	13.1	11.9							
G129.0	12.9	13.3	12.0							
G130.0	13.2	13.6	12.3							
G131.0	13.3	13.8	12.4							
G132.0	13.6	13.9	12.6							
G133.0	13.7	14.0	12.9							
G134.0	13.9	14.2	13.2							
G135.0	14.1	14.3	13.4							
G136.0	14.3	14.5	13.5							
G137.0	14.5	14.7	13.7							
G138.0	14.6	14.9	13.8							
G139.0	14.8	15.0	13.9							
G140.0	15.0	15.2	14.1							
G141.0	15.1	15.3	14.2							
G142.0	15.4	15.5	14.4							
G143.0	15.5	15.6	14.6							
G144.0	15.6	15.8	14.8							
G145.0	15.8	16.0	14.9							
G146.0	15.9	16.1	15.0							
G147.0	16.0	16.3	15.2							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	16.1	16.3	15.4							
G149.0	16.3	16.5	15.5							
G150.0	16.4	16.6	15.7							
G151.0	16.6	16.8	15.9							
G152.0	16.7	16.9	16.0							
G153.0	16.8	16.9	16.1							
G154.0	16.9	17.1	16.2							
G155.0	17.1	17.2	16.4							
G156.0	17.2	17.3	16.5							
G157.0	17.2	17.4	16.7							
G158.0	17.3	17.5	16.8							
G159.0	17.4	17.6	16.9							
G160.0	17.5	17.7	17.0							
G161.0	17.6	17.8	17.0							
G162.0	17.6	17.8	17.1							
G163.0	17.7	18.0	17.2							
G164.0	17.8	18.0	17.4							
G165.0	17.9	18.1	17.4							
G166.0	18.0	18.1	17.5							
G167.0	18.0	18.3	17.6							
G168.0	18.1	18.3	17.7							
G169.0	18.2	18.4	17.8							
G170.0	18.2	18.4	17.9							
G171.0	18.3	18.5	18.0							
G172.0	18.3	18.5	18.0							
G173.0	18.4	18.6	18.1							
G174.0	18.4	18.6	18.1							
G175.0	18.4	18.6	18.2							
G176.0	18.6	18.8	18.2							
G177.0	18.5	18.8	18.4							
G178.0	18.6	18.8	18.4							
G179.0	18.5	18.9	18.5							
G180.0	18.5	18.9	18.5							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	2251.45
L 0-180(75) av	2468.02
L 0-180(85) av	1183.06
L 90-270(65) av	1831.28
L 90-270(75) av	1524.05
L 90-270(85) av	893.59
L 45(65) av	2029.63
L 45(75) av	1982.85
L 45(85) av	1491.44

Standard: GB/T 29293-2012