

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: 0.400 A

Power Factor: 0.997

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 600

Voltage: 119.8 V

Power: 47.77 W

Photometric Results

CIE Class: Direct

Measurement Flux: 6401.8 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.6, 159.1, 165.7, 166.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.9, 108.8, 112.6, 112.4

Luminaire Efficacy Rating (LER): 134.06

Max. Intensity: 2179.06 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 6401.8 lm

Efficiency: 100%

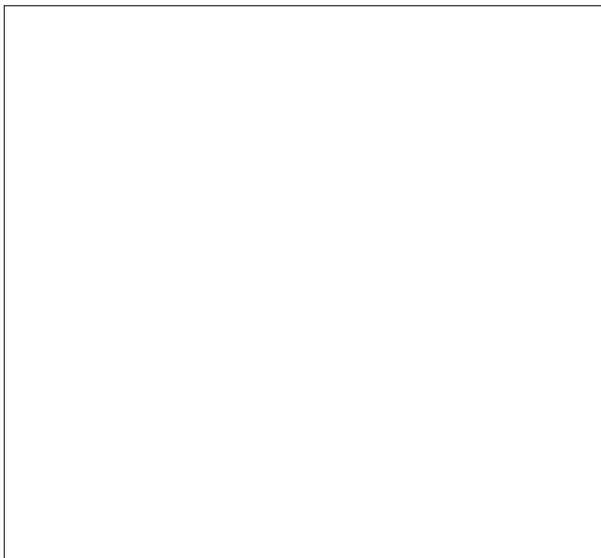
Upward Ratio: 1%

C0r0 Intensity: 2177.08 cd

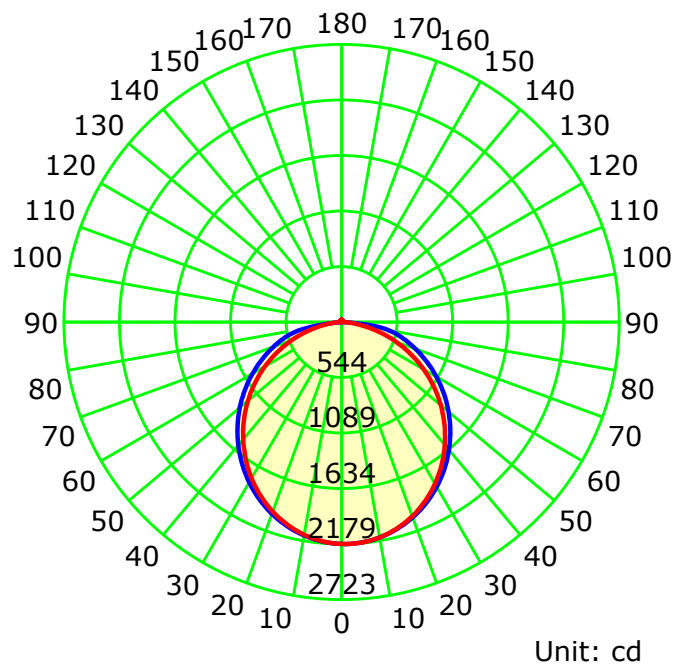
Pos of Max. Intensity: H60 V2

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

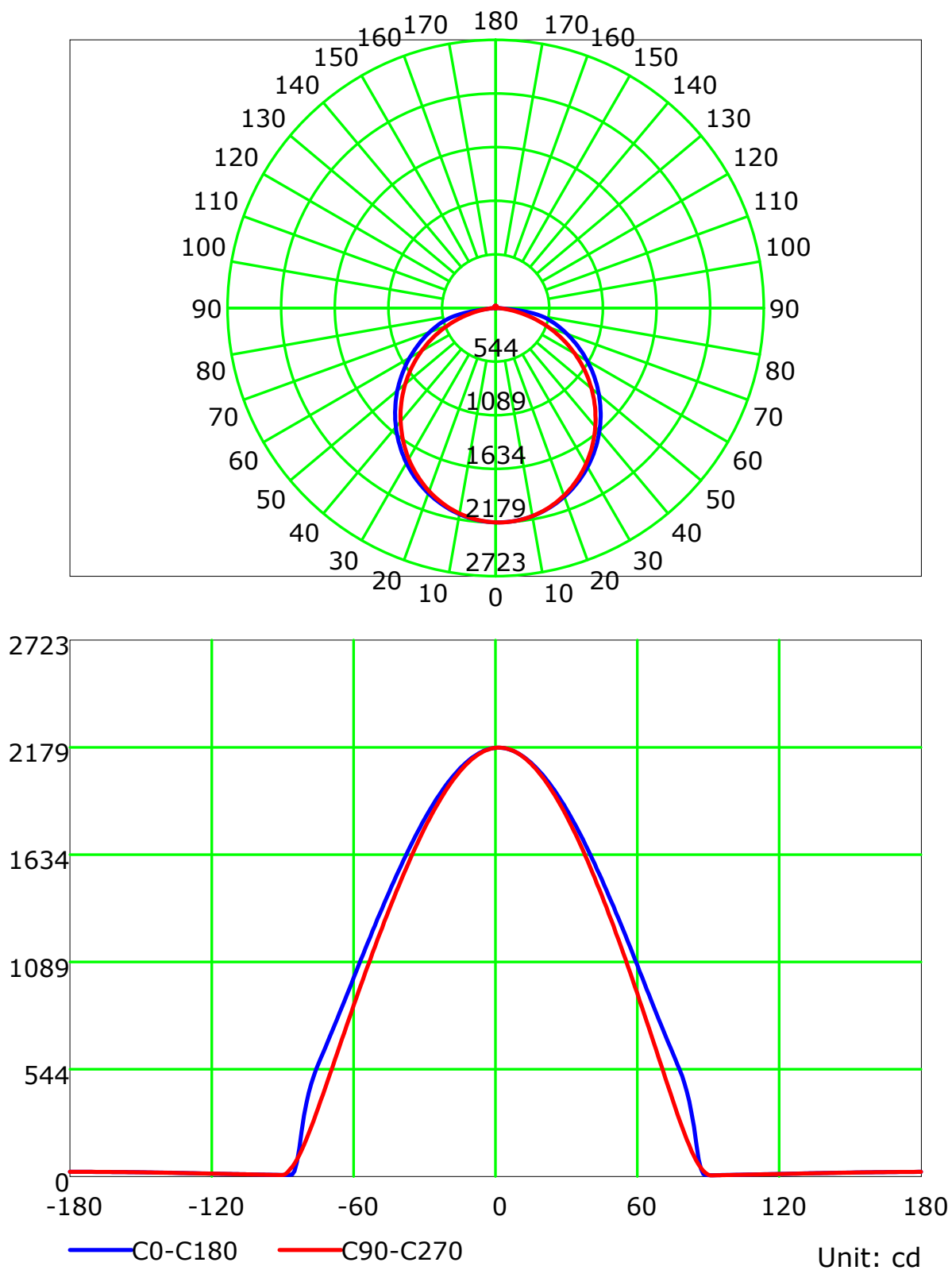
Test Device: GPM-1600L

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

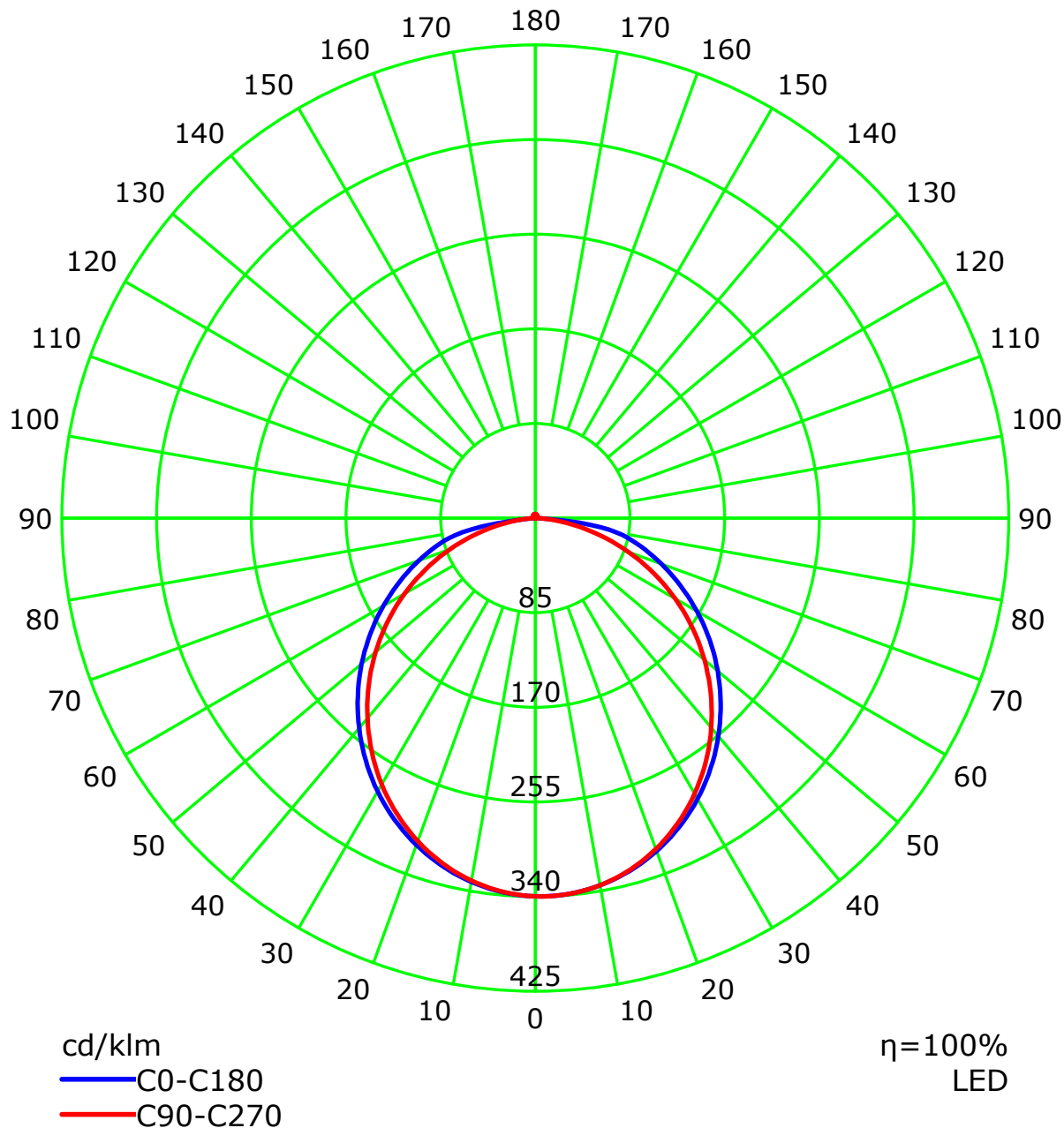
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



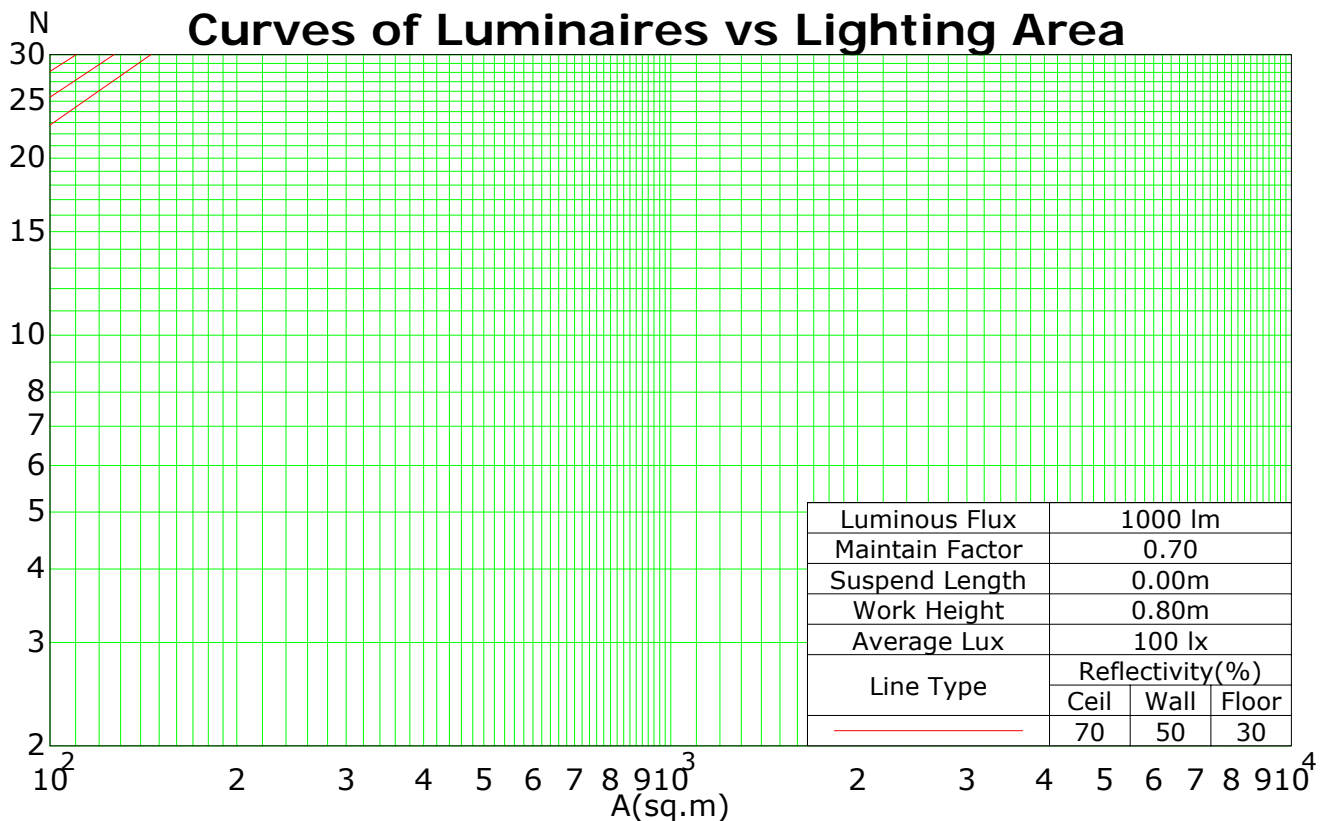
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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

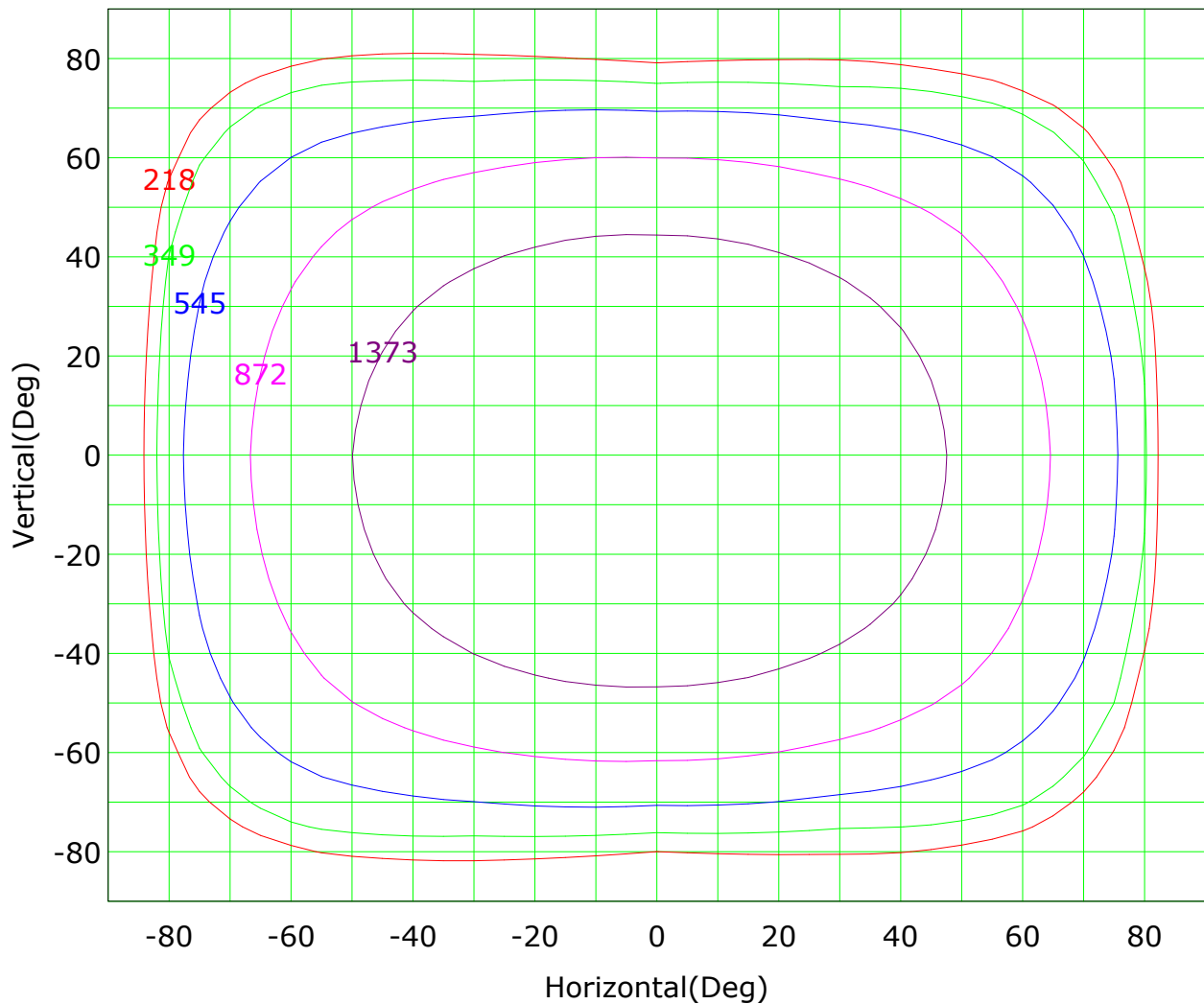
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (rectangle)



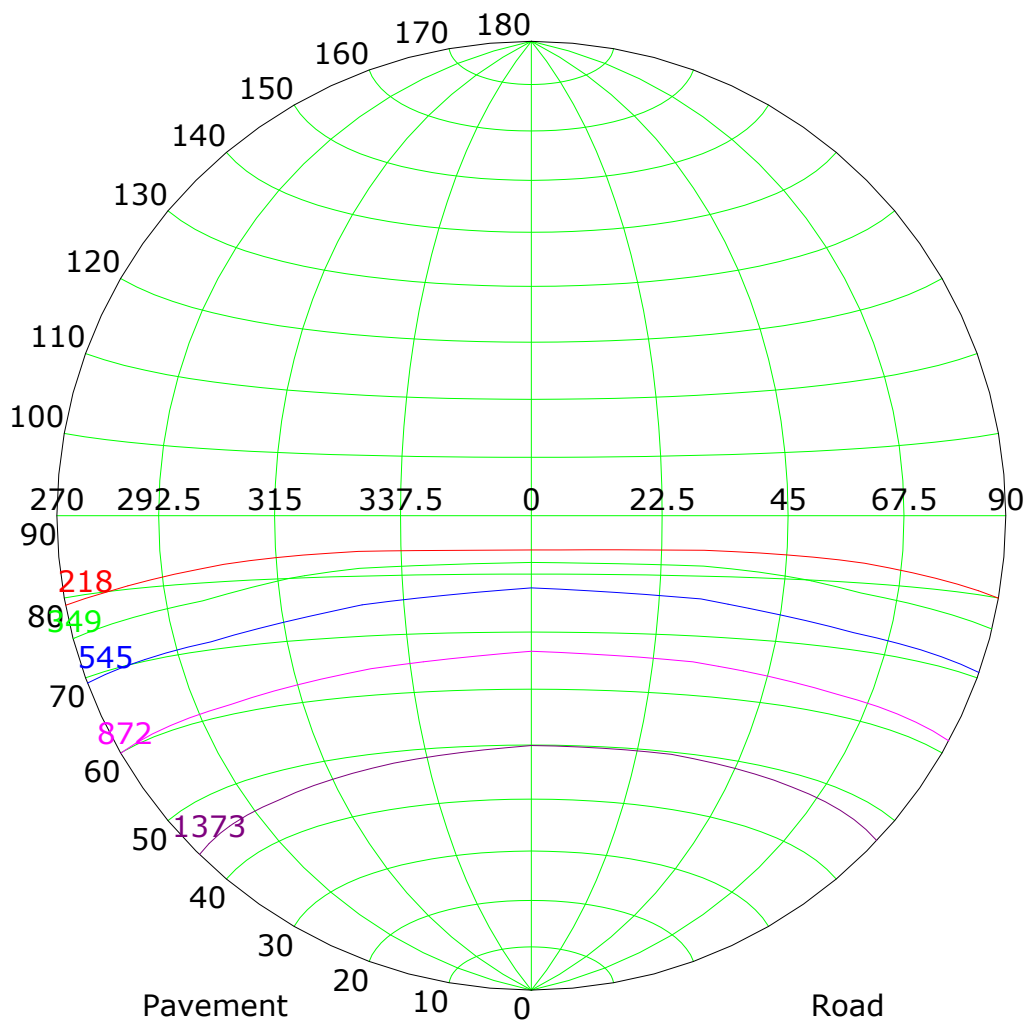
Imax (100%): 2179 cd

(10%): 218 cd	(16%): 349 cd
(25%): 545 cd	(40%): 872 cd
(63%): 1373 cd	(100%): 2179 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%): 2179 cd

(10%): 218 cd	(16%): 349 cd
(25%): 545 cd	(40%): 872 cd
(63%): 1373 cd	(100%): 2179 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

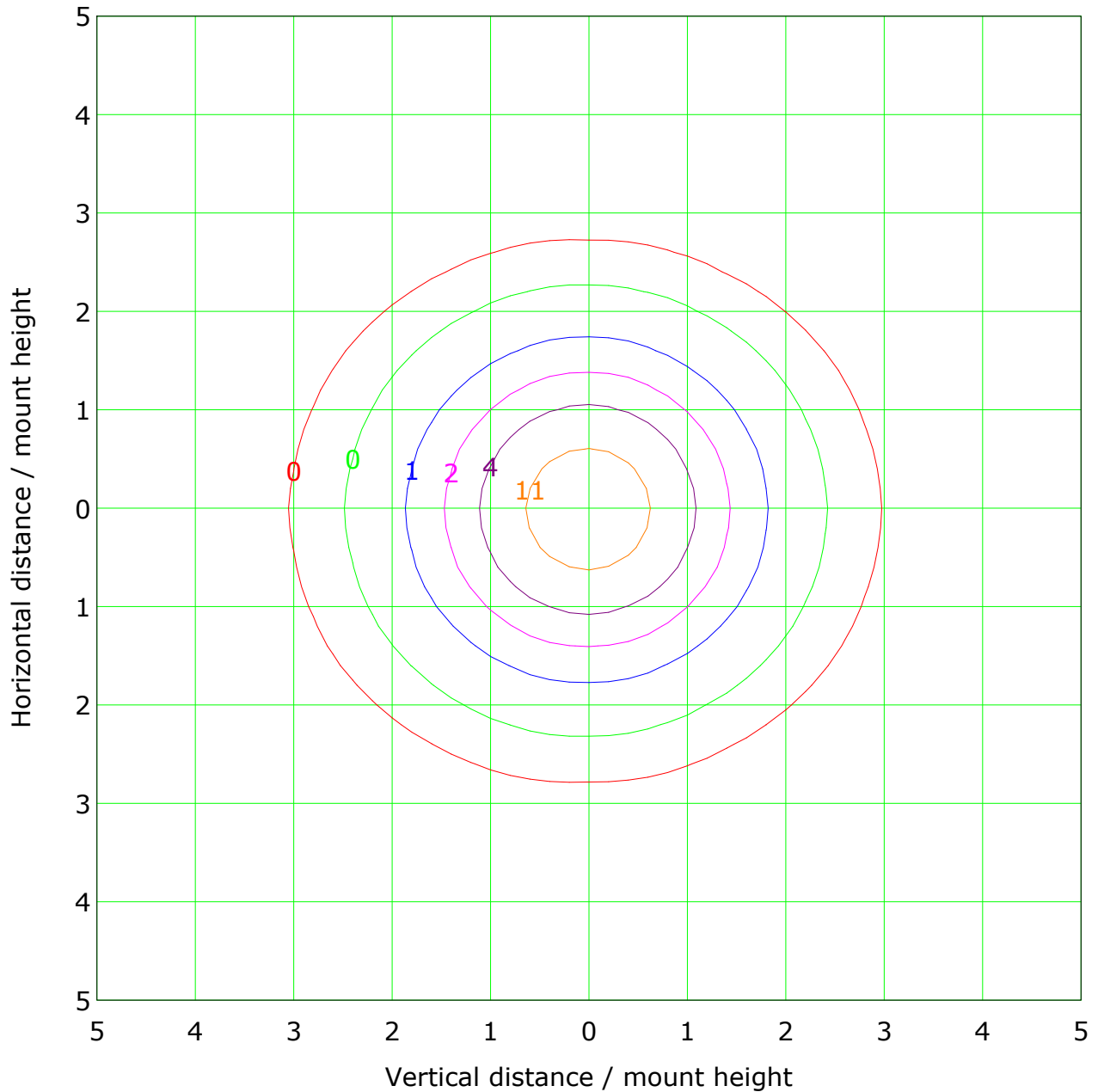
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 21.8 lx

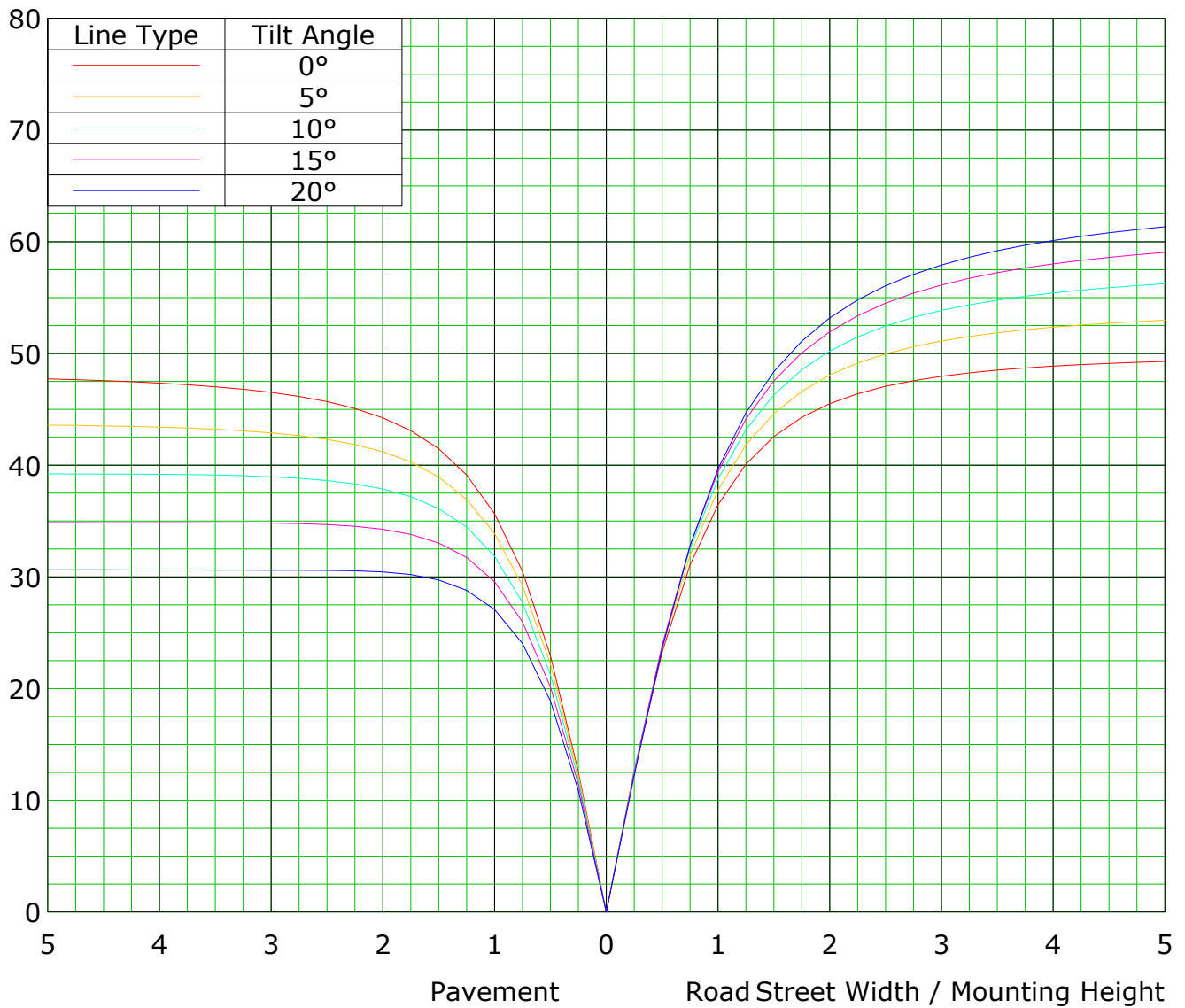
(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.1 lx	(10%): 2.2 lx
(20%): 4.4 lx	(50%): 10.9 lx
(100%): 21.8 lx	

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

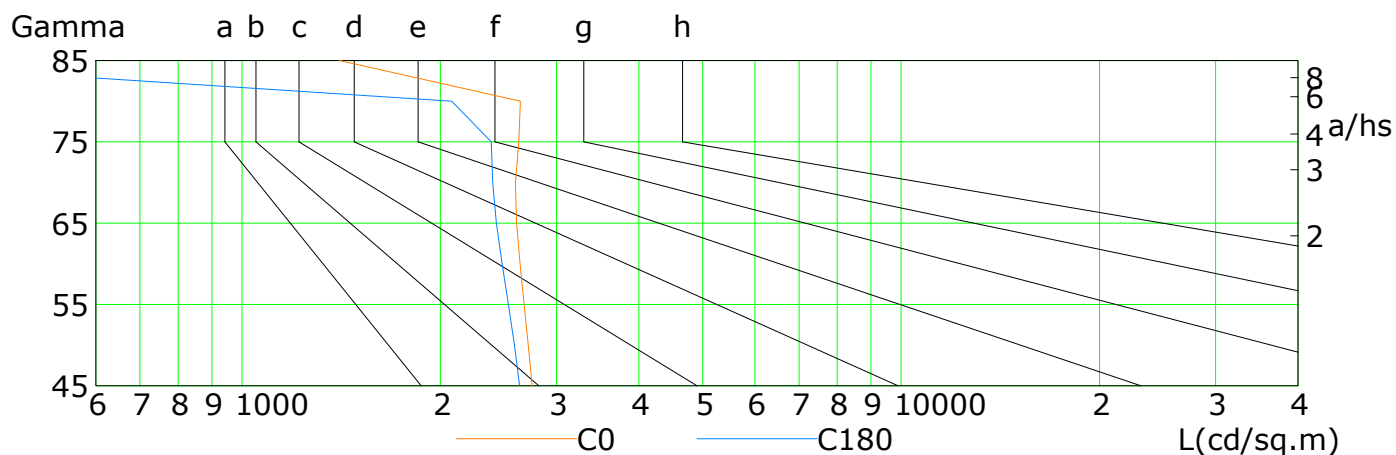
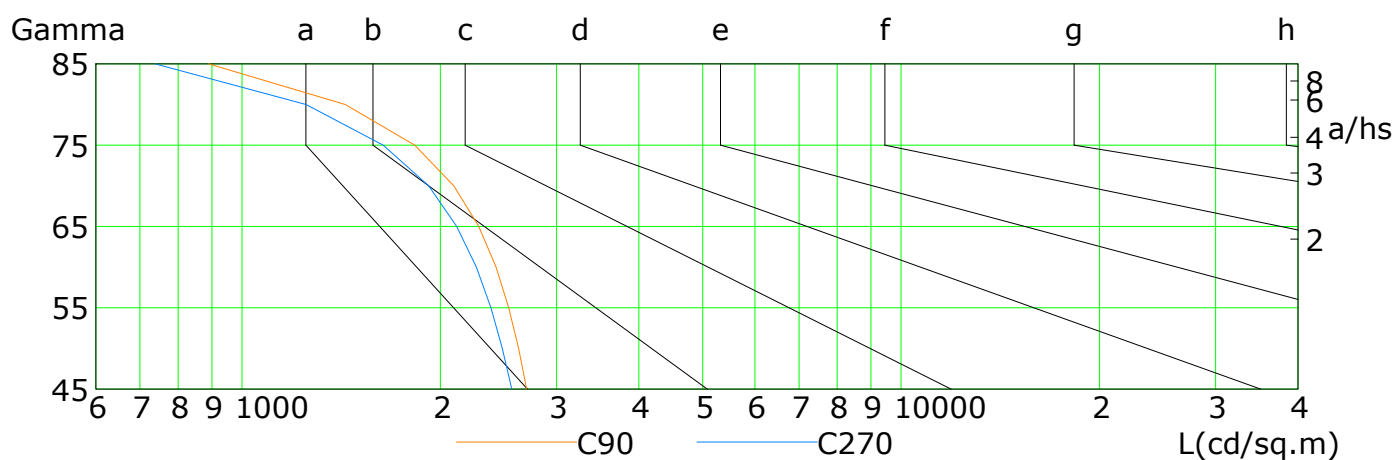
Humidity:

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	2756	2718	2679	2642	2609	2599	2630	2645	1407
C90	2703	2629	2539	2428	2286	2096	1829	1435	890
C180	2638	2590	2535	2482	2432	2401	2388	2080	239
C270	2565	2483	2386	2267	2117	1919	1638	1250	738

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

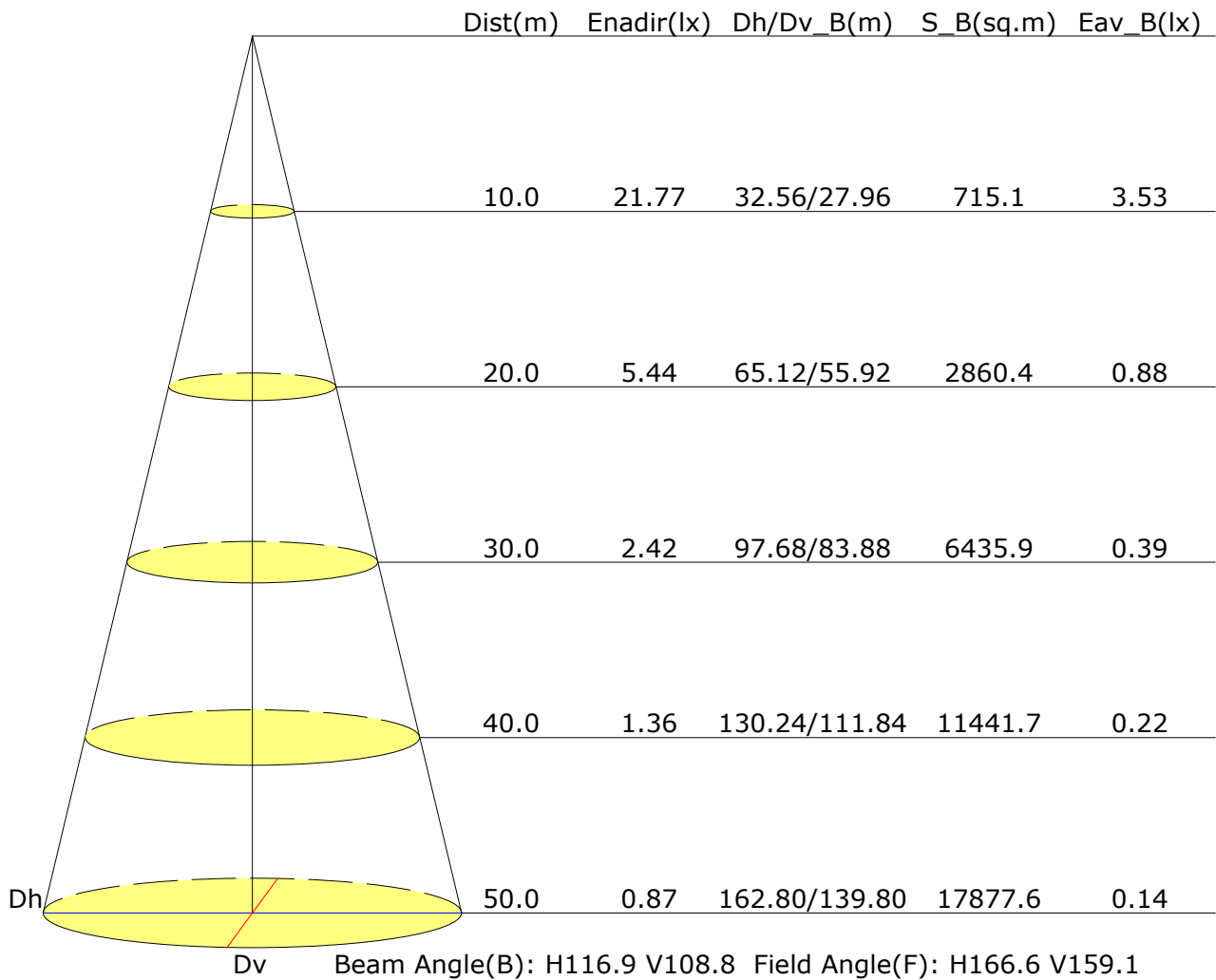
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

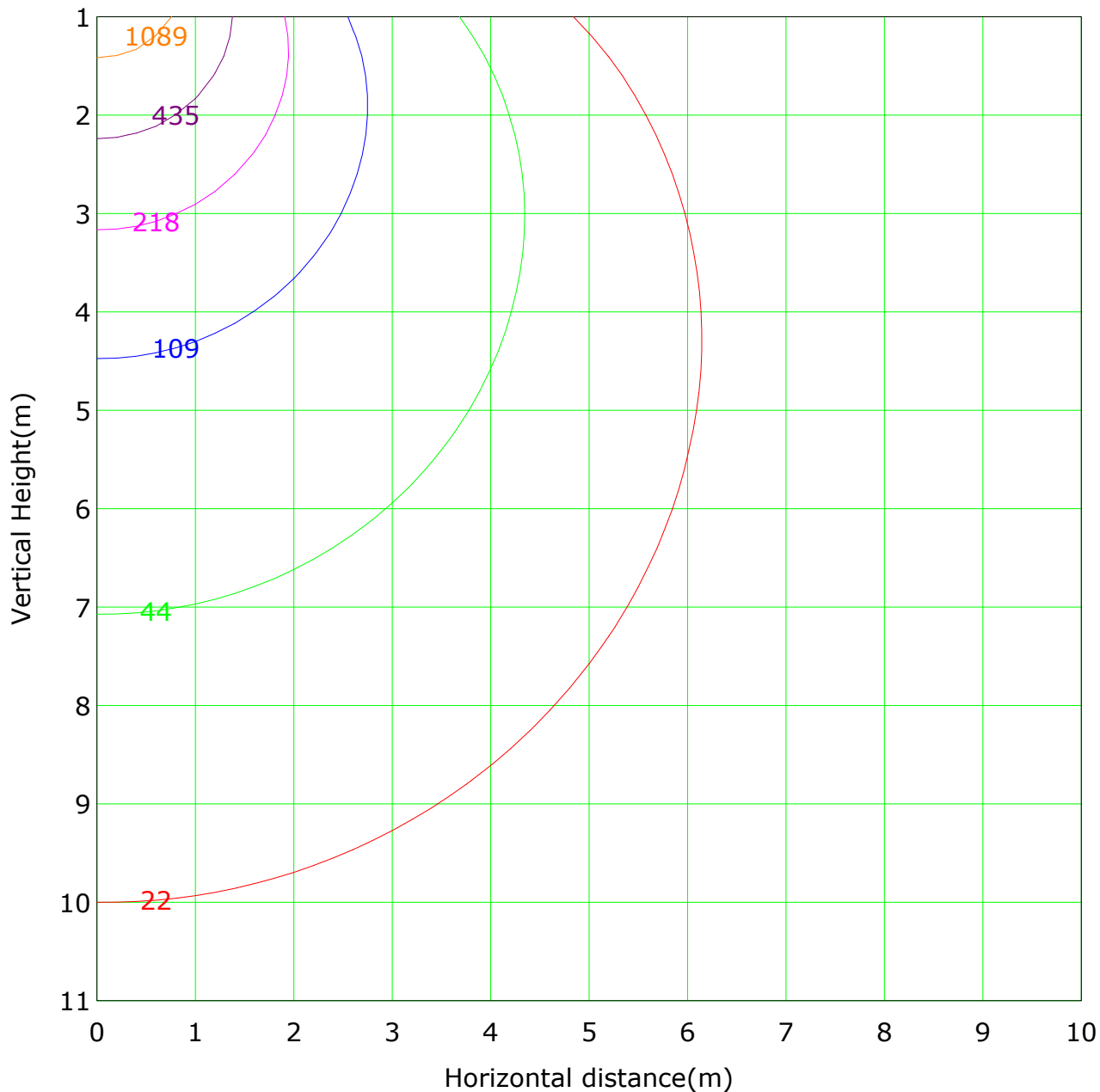
Illuminance at a Distance



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: 2177.1 lx

— (1%): 21.8 lx	— (2%): 43.5 lx
— (5%): 108.9 lx	— (10%): 217.7 lx
— (20%): 435.4 lx	— (50%): 1088.5 lx
— (100%): 2177.1 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

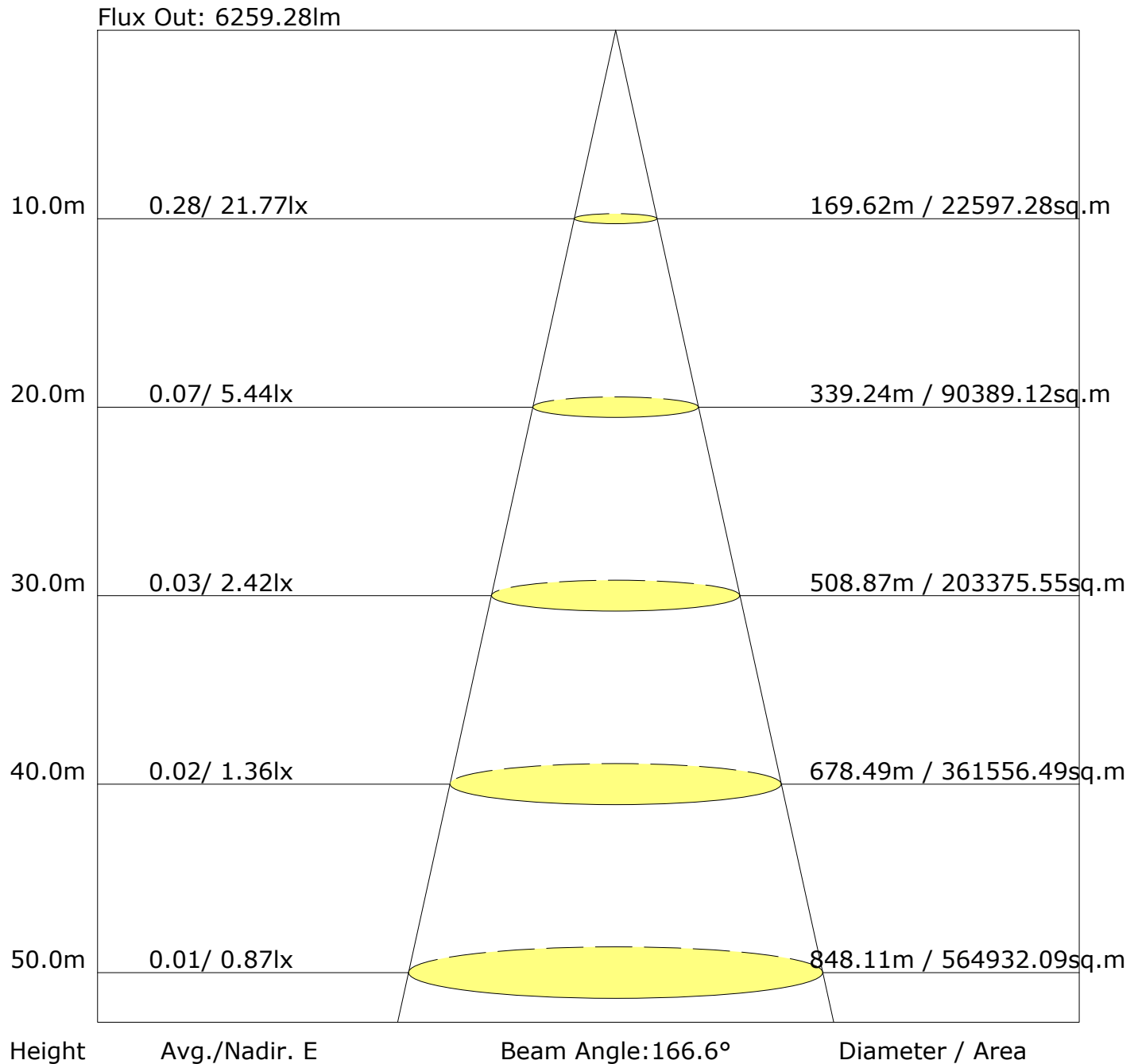
Orbit 111																					
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	$\Phi_{\text{flux}}(\text{mJy})$	$\Phi_{\text{flux}}(\text{E})$
Vertical plane	0.0	0.1	0.1	0.3	0.9	1.6	2.2	2.4	2.4	2.6	3.0	3.1	2.8	2.2	1.3	0.5	0.1	0.0	25.7	1.6	
	0.0	0.2	1.4	4.0	6.5	8.2	9.5	10.5	10.8	10.9	10.9	10.1	9.0	7.7	5.8	3.2	0.8	0.0	109.6	103.9	
	0.0	0.9	4.5	8.1	11.4	14.6	17.5	19.9	21.1	21.2	20.4	18.3	15.5	12.3	9.0	5.5	2.1	0.1	202.3	201.0	
	0.1	2.1	6.4	10.9	16.0	21.1	25.7	29.3	31.3	31.5	29.9	26.5	22.1	17.0	11.8	7.1	3.1	0.3	292.1	1291.4	
	0.1	3.0	7.8	13.6	20.3	27.2	33.4	38.2	40.8	41.1	38.8	34.3	28.3	21.4	14.5	8.4	3.7	0.4	375.5	375.0	
	0.2	3.6	8.9	15.9	24.2	32.6	40.2	46.1	49.4	49.6	46.8	41.2	33.8	25.3	16.9	9.6	4.2	0.6	449.4	449.0	
	0.3	4.1	9.9	17.9	27.3	37.1	45.9	52.7	56.5	56.8	53.4	47.0	38.3	28.5	18.9	10.7	4.6	0.7	510.4	510.2	
	0.4	4.3	10.6	19.3	29.6	40.2	50.0	57.6	61.8	62.1	58.3	51.1	41.5	30.8	20.4	11.4	4.8	0.7	555.0	554.8	
	0.4	4.5	11.1	20.1	30.8	42.0	52.3	60.3	64.8	65.1	61.1	53.5	43.4	32.1	21.2	11.9	5.0	0.7	580.3	580.1	
	0.4	4.5	11.1	20.2	31.0	42.3	52.6	60.7	65.2	65.5	61.5	53.8	43.6	32.3	21.3	11.9	5.0	0.7	583.6	583.3	
10	0.4	4.4	10.7	19.5	30.0	40.9	50.9	58.6	62.9	63.2	59.4	52.1	42.2	31.3	20.6	11.5	4.9	0.7	564.2	564.0	
20	0.3	4.1	10.0	18.2	27.9	38.0	47.2	54.2	58.2	58.5	55.0	48.3	39.3	29.2	19.3	10.8	4.6	0.7	524.2	524.0	
30	0.3	3.7	9.1	16.3	25.0	33.8	41.8	47.9	51.4	51.7	48.7	42.9	35.0	26.3	17.4	9.9	4.3	0.6	465.9	465.6	
40	0.2	3.1	7.9	14.0	21.1	28.4	35.0	40.1	42.9	43.2	40.8	36.1	29.6	22.4	15.1	8.7	3.8	0.4	392.9	392.5	
50	0.1	2.3	6.6	11.3	16.7	22.2	27.1	31.1	33.2	33.5	31.8	28.2	23.4	17.9	12.4	7.3	3.1	0.3	308.5	307.9	
60	0.0	1.2	4.8	8.5	12.0	15.5	18.7	21.3	22.7	22.9	22.0	19.7	16.6	13.1	9.5	5.8	2.1	0.1	216.5	215.3	
70	0.0	0.3	2.1	5.0	7.2	8.9	10.2	11.4	11.9	12.1	12.0	11.2	9.9	8.3	6.2	3.4	0.8	0.0	121.0	117.4	
80	0.0	0.1	0.2	0.7	1.6	2.5	3.0	3.1	2.9	3.1	3.4	3.5	3.1	2.3	1.3	0.5	0.1	0.0	31.4	5.7	
90	3.3	46.5	123.2	222.4	0.3	339.4	457.0	563.2	645.5	690.4	694.5	657.3	580.8	477.5	360.3	243.0	138.0	57.2	7.1	6308	
Flux(T)	1.6	43.7	120.7	221.3	336.1	452.9	558.6	640.4	684.4	688.8	651.6	575.9	473.4	357.2	240.4	135.7	54.8	5.1		6243	
Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	$\Phi_{\text{flux}}(\text{mJy})$	$\Phi_{\text{flux}}(\text{E})$

Horizontal plane

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:

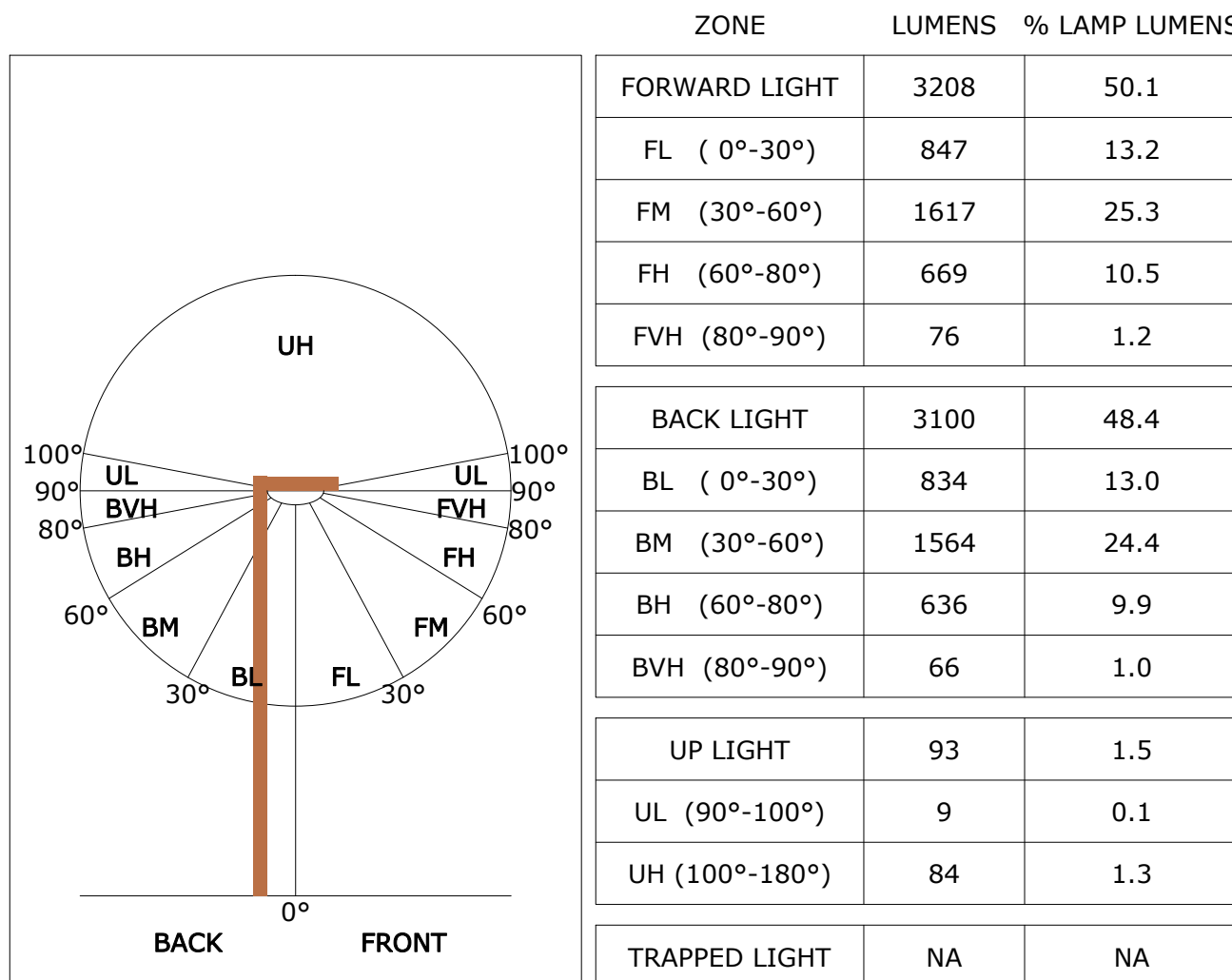
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.1	17.5	16.4	17.7	18.0	15.5	16.9	15.8	17.2	17.5
3H	17.9	19.2	18.3	19.5	19.8	17.0	18.2	17.3	18.5	18.9
4H	18.8	20.0	19.2	20.3	20.6	17.5	18.7	17.9	19.0	19.4
6H	19.6	20.7	20.0	21.1	21.4	17.9	19.0	18.3	19.3	19.7
8H	19.9	21.0	20.3	21.3	21.7	18.0	19.0	18.4	19.4	19.7
12H	20.0	21.1	20.5	21.4	21.8	18.0	19.0	18.4	19.4	19.8
X=4H Y=2H	16.7	17.9	17.1	18.2	18.6	16.3	17.5	16.6	17.8	18.1
3H	18.8	19.8	19.2	20.1	20.5	17.9	18.9	18.3	19.3	19.7
4H	19.8	20.7	20.2	21.1	21.5	18.6	19.5	19.0	19.9	20.3
6H	20.7	21.6	21.2	22.0	22.4	19.1	19.9	19.5	20.3	20.7
8H	21.1	21.9	21.6	22.3	22.8	19.2	20.0	19.7	20.4	20.8
12H	21.3	22.0	21.8	22.4	22.9	19.3	19.9	19.7	20.4	20.9
X=8H Y=4H	20.1	20.8	20.5	21.3	21.7	19.0	19.8	19.5	20.2	20.7
6H	21.2	21.8	21.7	22.3	22.8	19.7	20.3	20.1	20.7	21.2
8H	21.7	22.3	22.2	22.7	23.3	19.9	20.4	20.4	20.9	21.4
12H	22.0	22.5	22.5	23.0	23.5	20.0	20.5	20.5	21.0	21.5
X=12H Y=4H	20.1	20.8	20.6	21.2	21.7	19.1	19.8	19.6	20.2	20.7
6H	21.3	21.8	21.8	22.3	22.8	19.8	20.3	20.3	20.8	21.3
8H	21.8	22.3	22.3	22.8	23.3	20.1	20.5	20.6	21.0	21.6
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 6402lm ($8\log(F/F_0) = 6.5$).

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 G2
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

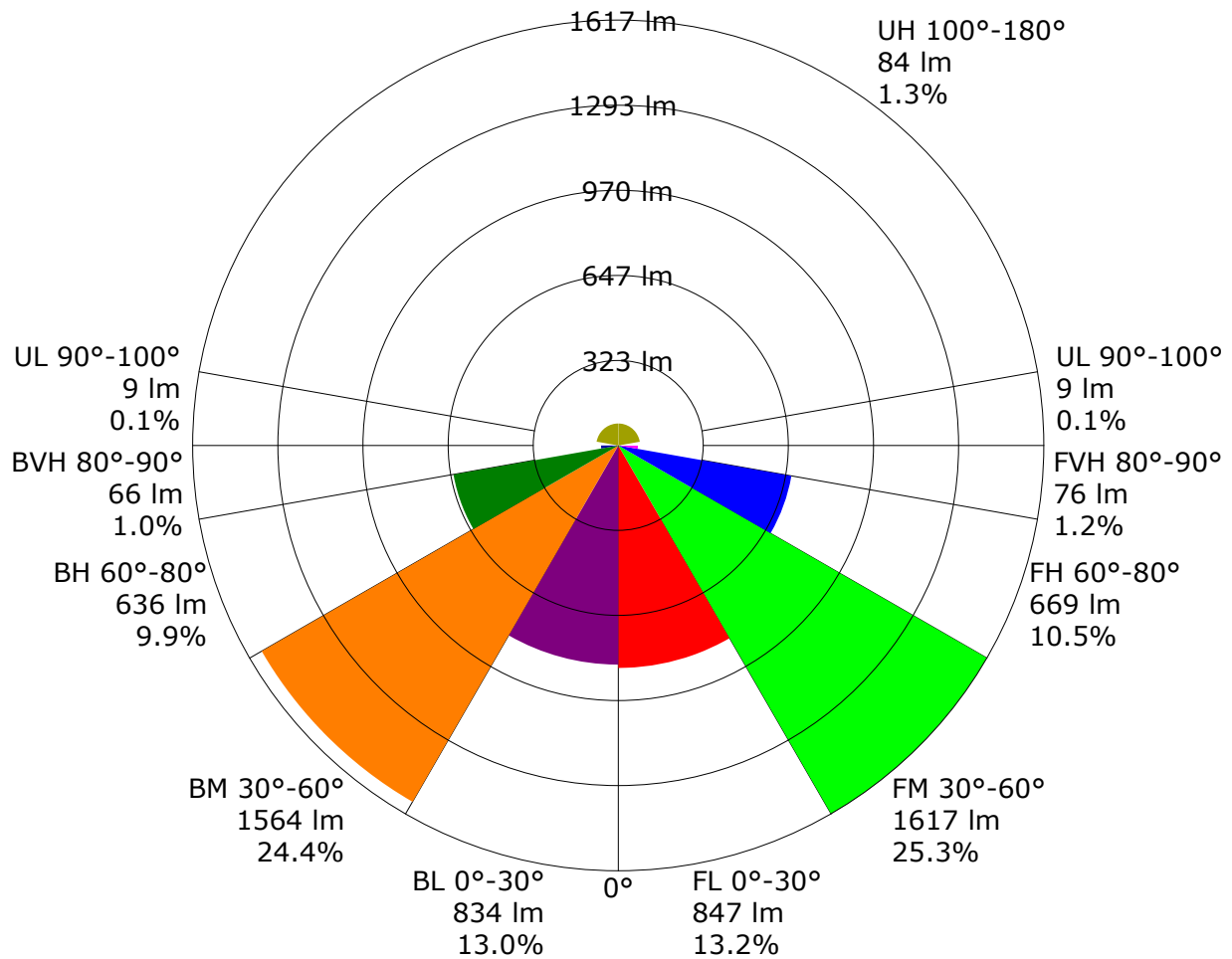
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LCS Graph



Back Light

Forward Light

Scale= 1617 lm

Trapped Light:NA,NA

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:48W 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:48W 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	0.16	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	
Rating:48W 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:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2176.9	2.1	2.1	0.03	0.03
1.0-2.0	2176.1	6.2	8.3	0.10	0.13
2.0-3.0	2174.3	10.4	18.7	0.16	0.29
3.0-4.0	2171.8	14.5	33.3	0.23	0.52
4.0-5.0	2168.5	18.7	51.9	0.29	0.81
5.0-6.0	2164.2	22.7	74.7	0.36	1.17
6.0-7.0	2159.0	26.8	101.5	0.42	1.59
7.0-8.0	2153.1	30.8	132.3	0.48	2.07
8.0-9.0	2146.3	34.8	167.1	0.54	2.61
9.0-10.0	2138.9	38.7	205.8	0.60	3.21
10.0-11.0	2130.5	42.6	248.4	0.67	3.88
11.0-12.0	2121.2	46.4	294.7	0.72	4.60
12.0-13.0	2111.5	50.1	344.9	0.78	5.39
13.0-14.0	2100.7	53.8	398.6	0.84	6.23
14.0-15.0	2089.1	57.4	456.0	0.90	7.12
15.0-16.0	2076.7	60.9	516.9	0.95	8.07
16.0-17.0	2063.5	64.3	581.1	1.00	9.08
17.0-18.0	2050.2	67.6	648.7	1.06	10.13
18.0-19.0	2035.6	70.8	719.6	1.11	11.24
19.0-20.0	2020.3	74.0	793.5	1.16	12.40
20.0-21.0	2005.0	77.0	870.5	1.20	13.60
21.0-22.0	1988.2	79.9	950.4	1.25	14.85
22.0-23.0	1970.7	82.7	1033.1	1.29	16.14
23.0-24.0	1952.7	85.4	1118.5	1.33	17.47
24.0-25.0	1934.0	87.9	1206.5	1.37	18.85
25.0-26.0	1915.4	90.4	1296.9	1.41	20.26
26.0-27.0	1895.4	92.7	1389.6	1.45	21.71
27.0-28.0	1874.8	94.9	1484.6	1.48	23.19
28.0-29.0	1854.4	97.0	1581.6	1.52	24.71
29.0-30.0	1832.7	99.0	1680.6	1.55	26.25
30.0-31.0	1810.3	100.8	1781.3	1.57	27.83
31.0-32.0	1787.3	102.4	1883.7	1.60	29.43
32.0-33.0	1763.8	103.9	1987.7	1.62	31.05
33.0-34.0	1740.5	105.3	2093.0	1.65	32.69
34.0-35.0	1715.9	106.6	2199.6	1.66	34.36
35.0-36.0	1690.8	107.7	2307.3	1.68	36.04

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	1665.7	108.7	2415.9	1.70	37.74
37.0-38.0	1639.7	109.5	2525.4	1.71	39.45
38.0-39.0	1613.8	110.2	2635.5	1.72	41.17
39.0-40.0	1586.7	110.7	2746.2	1.73	42.90
40.0-41.0	1559.3	111.0	2857.3	1.73	44.63
41.0-42.0	1532.7	111.4	2968.6	1.74	46.37
42.0-43.0	1504.6	111.5	3080.1	1.74	48.11
43.0-44.0	1476.2	111.4	3191.5	1.74	49.85
44.0-45.0	1447.8	111.3	3302.8	1.74	51.59
45.0-46.0	1418.7	111.0	3413.8	1.73	53.33
46.0-47.0	1389.9	110.6	3524.3	1.73	55.05
47.0-48.0	1360.0	110.0	3634.3	1.72	56.77
48.0-49.0	1329.8	109.2	3743.5	1.71	58.48
49.0-50.0	1300.7	108.5	3852.0	1.69	60.17
50.0-51.0	1269.8	107.4	3959.4	1.68	61.85
51.0-52.0	1238.9	106.3	4065.8	1.66	63.51
52.0-53.0	1208.3	105.1	4170.9	1.64	65.15
53.0-54.0	1176.8	103.7	4274.6	1.62	66.77
54.0-55.0	1145.6	102.3	4376.9	1.60	68.37
55.0-56.0	1113.5	100.6	4477.5	1.57	69.94
56.0-57.0	1081.5	98.9	4576.4	1.54	71.49
57.0-58.0	1050.2	97.1	4673.5	1.52	73.00
58.0-59.0	1017.3	95.1	4768.7	1.49	74.49
59.0-60.0	984.5	93.0	4861.7	1.45	75.94
60.0-61.0	951.5	90.8	4952.5	1.42	77.36
61.0-62.0	918.4	88.5	5041.0	1.38	78.74
62.0-63.0	886.7	86.2	5127.3	1.35	80.09
63.0-64.0	853.4	83.8	5211.0	1.31	81.40
64.0-65.0	820.2	81.2	5292.2	1.27	82.67
65.0-66.0	788.4	78.7	5370.9	1.23	83.90
66.0-67.0	755.2	75.9	5446.8	1.19	85.08
67.0-68.0	722.3	73.2	5520.0	1.14	86.23
68.0-69.0	689.3	70.3	5590.3	1.10	87.32
69.0-70.0	656.4	67.4	5657.7	1.05	88.38
70.0-71.0	625.1	64.6	5722.3	1.01	89.39
71.0-72.0	592.5	61.6	5784.0	0.96	90.35

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	560.4	58.6	5842.6	0.92	91.26
73.0-74.0	529.8	55.7	5898.3	0.87	92.13
74.0-75.0	498.0	52.6	5950.9	0.82	92.96
75.0-76.0	466.6	49.5	6000.4	0.77	93.73
76.0-77.0	435.2	46.4	6046.8	0.72	94.46
77.0-78.0	404.1	43.3	6090.1	0.68	95.13
78.0-79.0	373.7	40.2	6130.2	0.63	95.76
79.0-80.0	340.3	36.7	6166.9	0.57	96.33
80.0-81.0	305.1	33.0	6199.9	0.52	96.85
81.0-82.0	267.2	29.0	6228.9	0.45	97.30
82.0-83.0	224.2	24.4	6253.3	0.38	97.68
83.0-84.0	179.3	19.5	6272.8	0.31	97.99
84.0-85.0	133.0	14.5	6287.3	0.23	98.21
85.0-86.0	89.2	9.8	6297.1	0.15	98.37
86.0-87.0	54.8	6.0	6303.1	0.09	98.46
87.0-88.0	29.3	3.2	6306.3	0.05	98.51
88.0-89.0	14.3	1.6	6307.9	0.02	98.53
89.0-90.0	9.2	1.0	6308.9	0.02	98.55
90.0-91.0	7.8	0.9	6309.7	0.01	98.56
91.0-92.0	7.5	0.8	6310.6	0.01	98.58
92.0-93.0	7.7	0.8	6311.4	0.01	98.59
93.0-94.0	7.9	0.9	6312.3	0.01	98.60
94.0-95.0	8.2	0.9	6313.2	0.01	98.62
95.0-96.0	8.4	0.9	6314.1	0.01	98.63
96.0-97.0	8.7	0.9	6315.0	0.01	98.65
97.0-98.0	8.9	1.0	6316.0	0.02	98.66
98.0-99.0	9.1	1.0	6317.0	0.02	98.68
99.0-100.0	9.4	1.0	6318.0	0.02	98.69
100.0-101.0	9.7	1.0	6319.0	0.02	98.71
101.0-102.0	9.9	1.1	6320.1	0.02	98.72
102.0-103.0	10.1	1.1	6321.2	0.02	98.74
103.0-104.0	10.3	1.1	6322.3	0.02	98.76
104.0-105.0	10.6	1.1	6323.4	0.02	98.78
105.0-106.0	10.8	1.1	6324.6	0.02	98.79
106.0-107.0	11.1	1.2	6325.7	0.02	98.81
107.0-108.0	11.3	1.2	6326.9	0.02	98.83

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	11.6	1.2	6328.1	0.02	98.85
109.0-110.0	11.8	1.2	6329.3	0.02	98.87
110.0-111.0	12.1	1.2	6330.6	0.02	98.89
111.0-112.0	12.3	1.3	6331.8	0.02	98.91
112.0-113.0	12.5	1.3	6333.1	0.02	98.93
113.0-114.0	12.8	1.3	6334.4	0.02	98.95
114.0-115.0	13.0	1.3	6335.7	0.02	98.97
115.0-116.0	13.2	1.3	6337.0	0.02	98.99
116.0-117.0	13.5	1.3	6338.3	0.02	99.01
117.0-118.0	13.7	1.3	6339.7	0.02	99.03
118.0-119.0	13.9	1.3	6341.0	0.02	99.05
119.0-120.0	14.2	1.4	6342.3	0.02	99.07
120.0-121.0	14.4	1.4	6343.7	0.02	99.09
121.0-122.0	14.7	1.4	6345.1	0.02	99.11
122.0-123.0	14.9	1.4	6346.5	0.02	99.14
123.0-124.0	15.2	1.4	6347.8	0.02	99.16
124.0-125.0	15.4	1.4	6349.2	0.02	99.18
125.0-126.0	15.7	1.4	6350.6	0.02	99.20
126.0-127.0	15.9	1.4	6352.0	0.02	99.22
127.0-128.0	16.2	1.4	6353.5	0.02	99.25
128.0-129.0	16.4	1.4	6354.9	0.02	99.27
129.0-130.0	16.7	1.4	6356.3	0.02	99.29
130.0-131.0	17.0	1.4	6357.7	0.02	99.31
131.0-132.0	17.2	1.4	6359.1	0.02	99.33
132.0-133.0	17.4	1.4	6360.5	0.02	99.36
133.0-134.0	17.7	1.4	6361.9	0.02	99.38
134.0-135.0	17.9	1.4	6363.3	0.02	99.40
135.0-136.0	18.2	1.4	6364.7	0.02	99.42
136.0-137.0	18.4	1.4	6366.1	0.02	99.44
137.0-138.0	18.7	1.4	6367.5	0.02	99.46
138.0-139.0	18.9	1.4	6368.9	0.02	99.49
139.0-140.0	19.1	1.4	6370.2	0.02	99.51
140.0-141.0	19.3	1.3	6371.6	0.02	99.53
141.0-142.0	19.5	1.3	6372.9	0.02	99.55
142.0-143.0	19.6	1.3	6374.2	0.02	99.57
143.0-144.0	19.8	1.3	6375.5	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	20.1	1.3	6376.8	0.02	99.61
145.0-146.0	20.3	1.3	6378.0	0.02	99.63
146.0-147.0	20.4	1.2	6379.3	0.02	99.65
147.0-148.0	20.6	1.2	6380.5	0.02	99.67
148.0-149.0	20.8	1.2	6381.7	0.02	99.69
149.0-150.0	20.9	1.2	6382.8	0.02	99.70
150.0-151.0	21.1	1.1	6384.0	0.02	99.72
151.0-152.0	21.3	1.1	6385.1	0.02	99.74
152.0-153.0	21.5	1.1	6386.2	0.02	99.76
153.0-154.0	21.6	1.1	6387.2	0.02	99.77
154.0-155.0	21.8	1.0	6388.3	0.02	99.79
155.0-156.0	22.0	1.0	6389.3	0.02	99.80
156.0-157.0	22.1	1.0	6390.2	0.02	99.82
157.0-158.0	22.3	0.9	6391.2	0.01	99.83
158.0-159.0	22.4	0.9	6392.1	0.01	99.85
159.0-160.0	22.5	0.9	6392.9	0.01	99.86
160.0-161.0	22.6	0.8	6393.8	0.01	99.88
161.0-162.0	22.8	0.8	6394.6	0.01	99.89
162.0-163.0	22.9	0.8	6395.3	0.01	99.90
163.0-164.0	23.0	0.7	6396.0	0.01	99.91
164.0-165.0	23.1	0.7	6396.7	0.01	99.92
165.0-166.0	23.2	0.6	6397.3	0.01	99.93
166.0-167.0	23.3	0.6	6397.9	0.01	99.94
167.0-168.0	23.4	0.6	6398.5	0.01	99.95
168.0-169.0	23.6	0.5	6399.0	0.01	99.96
169.0-170.0	23.6	0.5	6399.5	0.01	99.96
170.0-171.0	23.7	0.4	6399.9	0.01	99.97
171.0-172.0	23.8	0.4	6400.3	0.01	99.98
172.0-173.0	23.9	0.3	6400.6	0.01	99.98
173.0-174.0	23.9	0.3	6400.9	0.00	99.99
174.0-175.0	24.0	0.3	6401.2	0.00	99.99
175.0-176.0	24.0	0.2	6401.4	0.00	99.99
176.0-177.0	24.1	0.2	6401.6	0.00	100.00
177.0-178.0	24.1	0.1	6401.7	0.00	100.00
178.0-179.0	24.2	0.1	6401.7	0.00	100.00
179.0-180.0	24.2	0.0	6401.8	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°): 3302.82 lm

%lum = 51.6%

%lamp = 51.6%

cone flux(120°): 4861.69 lm

%lum = 75.9%

%lamp = 75.9%

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	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1
G1.0	2177.9	2177.9	2178.5	2178.1	2177.4	2176.9	2175.7	2175.1	2175.0	2175.5
G2.0	2177.7	2178.4	2179.1	2178.2	2176.9	2175.4	2173.5	2172.2	2171.8	2172.8
G3.0	2176.6	2178.0	2178.5	2177.1	2175.5	2173.3	2170.5	2168.3	2167.9	2168.7
G4.0	2174.9	2176.9	2177.4	2175.3	2173.1	2170.4	2166.3	2164.0	2163.1	2164.4
G5.0	2172.0	2175.1	2175.2	2172.6	2170.1	2166.9	2161.9	2159.4	2157.7	2159.2
G6.0	2168.3	2171.8	2172.0	2169.0	2165.9	2162.1	2155.8	2152.7	2151.1	2152.4
G7.0	2164.0	2168.2	2167.8	2164.3	2160.9	2157.1	2149.8	2146.5	2143.8	2145.5
G8.0	2159.3	2164.0	2163.1	2159.2	2155.2	2150.7	2142.1	2138.5	2135.1	2137.1
G9.0	2152.7	2157.9	2157.4	2153.1	2148.4	2143.7	2134.4	2130.2	2126.3	2128.5
G10.0	2146.5	2152.0	2151.1	2145.9	2140.5	2136.1	2126.4	2121.6	2117.1	2119.3
G11.0	2138.8	2144.8	2143.3	2137.4	2132.2	2127.4	2116.5	2111.6	2106.1	2108.4
G12.0	2130.7	2137.0	2135.2	2128.7	2123.0	2118.5	2106.4	2101.0	2095.3	2096.9
G13.0	2121.9	2128.9	2125.9	2119.1	2113.1	2108.5	2096.4	2090.1	2083.2	2085.6
G14.0	2111.5	2118.7	2115.6	2107.8	2101.8	2097.3	2084.7	2077.2	2069.8	2071.9
G15.0	2102.0	2109.0	2105.5	2096.9	2090.3	2085.9	2072.7	2065.0	2056.2	2058.7
G16.0	2090.2	2097.1	2092.8	2083.6	2077.3	2073.1	2059.4	2050.9	2041.4	2043.1
G17.0	2078.9	2086.5	2081.0	2071.4	2064.0	2060.0	2045.8	2036.9	2026.9	2028.4
G18.0	2066.2	2074.2	2068.2	2057.5	2051.3	2046.8	2032.5	2022.8	2011.3	2013.2
G19.0	2052.8	2060.5	2053.5	2042.0	2034.9	2031.2	2017.2	2006.6	1993.9	1996.1
G20.0	2039.9	2047.1	2039.6	2027.0	2020.2	2016.6	2001.9	1990.2	1977.5	1978.6
G21.0	2025.4	2032.8	2024.4	2011.8	2004.8	2001.4	1986.8	1974.2	1959.6	1961.2
G22.0	2009.7	2017.0	2007.6	1993.5	1986.1	1983.6	1969.6	1955.1	1940.5	1940.9
G23.0	1994.7	2002.0	1991.2	1976.5	1969.2	1967.1	1952.5	1937.8	1921.4	1922.5
G24.0	1977.0	1984.1	1972.2	1956.5	1950.2	1948.6	1933.9	1918.2	1900.7	1901.4
G25.0	1961.0	1967.4	1954.8	1938.4	1931.1	1930.4	1916.5	1899.7	1881.1	1880.7
G26.0	1943.4	1949.8	1935.9	1918.8	1912.4	1912.4	1897.5	1879.8	1861.3	1860.5
G27.0	1924.6	1930.5	1915.5	1897.3	1890.3	1891.1	1877.1	1858.4	1837.8	1837.7
G28.0	1905.8	1912.3	1896.2	1877.2	1870.3	1871.7	1858.0	1837.4	1816.7	1815.4
G29.0	1887.4	1892.7	1875.1	1855.4	1849.8	1851.0	1837.5	1816.9	1794.1	1793.7
G30.0	1865.6	1871.6	1852.9	1832.0	1825.6	1828.8	1815.5	1794.0	1769.9	1769.0
G31.0	1846.2	1851.0	1830.6	1808.9	1803.0	1808.3	1795.2	1771.5	1747.4	1745.0
G32.0	1824.5	1828.6	1807.2	1784.2	1778.6	1783.8	1771.0	1747.6	1721.1	1719.1
G33.0	1802.8	1807.6	1784.2	1760.2	1756.0	1761.9	1749.6	1724.0	1697.1	1693.8
G34.0	1781.8	1785.1	1761.3	1736.6	1731.5	1738.6	1726.4	1700.0	1671.8	1668.3
G35.0	1757.7	1761.2	1734.7	1710.3	1705.4	1713.5	1701.1	1674.7	1644.0	1641.0
G36.0	1735.8	1737.6	1711.0	1684.3	1680.0	1689.0	1678.4	1651.0	1618.9	1615.4

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	1712.7	1713.9	1685.5	1657.9	1655.1	1665.4	1653.2	1623.5	1591.2	1586.0
G38.0	1687.6	1688.2	1658.3	1629.8	1626.2	1637.6	1628.5	1598.8	1564.3	1559.8
G39.0	1663.2	1664.3	1631.8	1603.7	1600.3	1612.9	1604.6	1572.7	1538.0	1532.1
G40.0	1637.5	1636.5	1603.5	1573.4	1570.3	1584.1	1576.8	1545.0	1507.8	1502.5
G41.0	1612.5	1612.0	1576.1	1544.8	1543.5	1558.9	1552.2	1519.4	1481.0	1473.9
G42.0	1588.1	1585.8	1549.7	1517.3	1515.5	1532.0	1526.1	1492.5	1452.4	1446.2
G43.0	1560.0	1558.1	1518.8	1485.7	1485.2	1503.6	1498.7	1463.9	1422.4	1415.9
G44.0	1535.0	1530.9	1490.3	1457.7	1455.9	1475.9	1473.0	1437.5	1394.6	1386.2
G45.0	1508.5	1503.8	1462.5	1427.6	1428.2	1448.2	1443.7	1407.0	1362.4	1355.0
G46.0	1480.4	1474.7	1431.7	1396.0	1395.6	1418.5	1417.7	1380.0	1334.1	1324.8
G47.0	1453.3	1446.9	1402.0	1366.6	1366.8	1391.3	1389.9	1351.6	1304.2	1295.5
G48.0	1424.5	1417.0	1370.5	1332.5	1333.5	1360.1	1361.2	1321.5	1272.4	1261.8
G49.0	1397.0	1389.9	1340.2	1302.7	1304.0	1332.1	1333.0	1292.9	1241.6	1232.0
G50.0	1370.3	1360.9	1310.9	1270.9	1272.8	1302.7	1306.0	1265.1	1212.3	1200.6
G51.0	1339.6	1329.0	1276.6	1235.8	1239.7	1271.7	1275.0	1232.9	1178.2	1167.4
G52.0	1312.7	1300.8	1246.6	1205.0	1208.2	1241.6	1247.7	1204.4	1148.3	1136.8
G53.0	1284.3	1271.2	1214.8	1172.4	1177.5	1212.7	1216.2	1171.7	1115.1	1101.7
G54.0	1254.2	1240.0	1181.4	1137.9	1142.1	1179.6	1188.3	1143.1	1083.0	1070.7
G55.0	1225.0	1209.8	1149.0	1104.7	1109.5	1149.2	1159.2	1113.0	1051.1	1037.9
G56.0	1194.5	1178.1	1113.4	1069.5	1075.0	1117.1	1128.4	1081.2	1017.3	1003.4
G57.0	1165.2	1147.4	1082.0	1035.6	1043.4	1087.5	1100.1	1050.6	986.3	970.2
G58.0	1135.6	1116.8	1048.7	1001.3	1008.4	1055.0	1070.5	1021.4	953.8	938.4
G59.0	1103.2	1084.2	1012.5	963.8	973.1	1022.5	1039.4	987.8	919.3	903.0
G60.0	1074.7	1053.2	979.0	931.0	939.3	991.4	1009.4	958.4	886.3	869.2
G61.0	1042.0	1019.2	943.6	892.9	903.8	957.0	978.1	925.9	851.8	833.5
G62.0	1013.5	989.1	909.8	859.4	869.7	926.8	948.0	894.9	818.4	799.3
G63.0	983.4	957.8	877.4	824.2	835.5	895.4	919.4	865.2	786.7	766.4
G64.0	950.6	924.5	840.1	787.2	799.7	862.2	888.4	831.2	750.3	728.9
G65.0	921.7	892.8	807.3	751.6	765.2	830.6	859.0	801.9	718.5	696.0
G66.0	891.8	862.6	772.9	715.9	732.2	800.2	831.1	771.1	686.6	661.5
G67.0	860.6	827.8	736.9	678.5	694.6	766.1	799.5	739.5	651.8	625.4
G68.0	831.5	797.7	702.4	644.3	661.8	736.4	771.8	710.6	618.5	592.2
G69.0	800.8	763.6	665.1	605.0	624.4	702.9	741.6	678.1	584.0	554.3
G70.0	771.9	732.7	632.2	569.3	591.6	674.0	713.0	649.8	550.9	521.3
G71.0	742.9	703.6	597.9	534.9	557.6	644.0	684.2	620.3	519.7	486.8
G72.0	712.8	670.6	562.4	495.7	520.5	611.5	654.4	589.7	484.4	450.7
G73.0	684.2	641.8	528.4	461.3	488.3	583.2	627.4	562.2	453.9	416.6

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	656.9	611.8	496.3	425.5	455.0	553.8	599.1	533.4	422.4	384.3
G75.0	627.2	580.8	460.1	388.4	420.6	523.2	569.6	502.2	390.0	347.9
G76.0	599.0	551.3	428.7	353.5	388.2	494.1	541.0	475.0	360.0	316.5
G77.0	568.3	520.7	393.7	316.0	355.4	464.1	505.8	443.8	328.5	281.3
G78.0	541.2	491.4	363.8	283.7	325.3	435.3	470.1	413.5	301.7	251.2
G79.0	511.0	462.2	333.6	250.9	297.2	406.7	425.8	375.9	274.2	220.5
G80.0	471.3	431.4	301.8	217.5	266.2	369.3	370.7	328.9	246.5	189.6
G81.0	431.1	397.1	274.5	186.8	238.6	331.0	311.7	276.7	220.1	161.6
G82.0	381.6	356.3	246.4	158.9	213.1	283.6	230.7	211.7	192.1	133.8
G83.0	320.3	306.7	217.9	128.8	185.7	222.0	144.5	137.4	160.3	109.3
G84.0	253.8	254.2	190.8	104.4	161.8	157.5	74.0	64.6	124.3	86.8
G85.0	164.0	182.7	159.6	79.8	131.8	77.6	27.8	25.4	75.5	66.2
G86.0	85.9	110.2	124.0	60.2	101.4	31.4	10.8	14.4	28.4	49.3
G87.0	37.8	45.5	85.3	43.0	64.2	9.9	9.0	12.4	15.2	35.8
G88.0	12.8	17.4	35.7	29.0	22.5	7.5	8.2	10.1	10.1	21.5
G89.0	8.1	11.2	13.6	17.8	8.3	6.9	7.9	8.4	7.8	11.2
G90.0	7.2	9.5	10.1	9.4	6.4	6.8	8.0	8.3	8.0	7.8
G91.0	6.8	7.8	6.2	6.0	6.5	7.0	8.2	8.5	8.4	8.0
G92.0	6.7	6.6	6.4	6.2	6.8	7.3	8.4	8.8	8.6	8.2
G93.0	6.9	6.9	6.6	6.5	7.0	7.6	8.7	9.2	8.9	8.5
G94.0	7.2	7.1	6.9	6.8	7.3	7.8	8.9	9.3	9.1	8.7
G95.0	7.5	7.3	7.0	7.0	7.6	8.0	9.2	9.6	9.3	9.0
G96.0	7.8	7.7	7.4	7.3	7.8	8.2	9.5	9.8	9.7	9.3
G97.0	8.0	7.8	7.5	7.5	8.1	8.6	9.7	9.9	9.9	9.5
G98.0	8.1	8.0	7.7	7.7	8.3	8.7	9.8	10.2	10.2	9.7
G99.0	8.3	8.2	8.0	8.1	8.6	9.0	10.1	10.5	10.4	9.9
G100.0	8.6	8.5	8.3	8.2	8.9	9.2	10.3	10.7	10.6	10.2
G101.0	8.9	8.7	8.5	8.5	9.2	9.5	10.6	11.0	11.0	10.5
G102.0	9.1	9.0	8.7	8.8	9.4	9.7	10.8	11.2	11.1	10.7
G103.0	9.3	9.2	9.0	9.0	9.6	9.9	11.0	11.4	11.4	10.9
G104.0	9.5	9.4	9.2	9.3	9.9	10.2	11.3	11.6	11.6	11.2
G105.0	9.9	9.8	9.5	9.5	10.1	10.3	11.5	12.0	11.8	11.4
G106.0	10.1	9.8	9.7	9.7	10.4	10.6	11.7	12.1	12.1	11.6
G107.0	10.3	10.1	9.9	10.0	10.6	10.8	12.0	12.4	12.4	11.9
G108.0	10.5	10.3	10.1	10.2	10.9	11.2	12.2	12.6	12.6	12.2
G109.0	10.7	10.6	10.5	10.4	11.1	11.4	12.4	12.8	12.9	12.4
G110.0	11.0	10.9	10.7	10.6	11.4	11.6	12.7	13.1	13.1	12.7

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 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	11.3	11.1	11.0	10.9	11.7	11.9	12.8	13.2	13.4	12.9
G112.0	11.5	11.4	11.2	11.2	12.0	12.2	13.0	13.5	13.6	13.0
G113.0	11.7	11.6	11.4	11.4	12.3	12.4	13.3	13.7	13.9	13.3
G114.0	12.0	11.8	11.6	11.6	12.4	12.6	13.5	13.9	14.1	13.6
G115.0	12.2	12.1	11.9	12.0	12.7	12.8	13.7	14.1	14.3	13.8
G116.0	12.4	12.3	12.2	12.1	12.9	13.1	14.0	14.4	14.5	14.0
G117.0	12.7	12.5	12.4	12.4	13.0	13.2	14.2	14.7	14.7	14.3
G118.0	12.8	12.8	12.7	12.6	13.3	13.6	14.5	14.9	14.9	14.4
G119.0	13.1	13.1	12.9	12.8	13.4	13.8	14.8	15.2	15.2	14.6
G120.0	13.3	13.2	13.1	13.0	13.9	14.1	15.0	15.5	15.5	14.9
G121.0	13.7	13.5	13.2	13.1	14.0	14.4	15.2	15.7	15.7	15.2
G122.0	13.9	13.8	13.5	13.5	14.3	14.7	15.5	15.9	15.9	15.4
G123.0	14.1	14.1	13.8	13.7	14.5	15.0	15.7	16.2	16.3	15.6
G124.0	14.4	14.3	14.0	13.9	14.6	15.3	16.0	16.5	16.5	15.9
G125.0	14.7	14.5	14.3	14.2	15.0	15.4	16.3	16.8	16.6	16.1
G126.0	14.9	14.8	14.5	14.5	15.3	15.7	16.7	17.0	16.9	16.3
G127.0	15.2	15.2	14.7	14.7	15.5	16.0	16.8	17.2	17.1	16.6
G128.0	15.5	15.4	15.1	15.0	15.7	16.3	17.1	17.4	17.3	16.9
G129.0	15.7	15.7	15.3	15.2	15.9	16.5	17.4	17.6	17.6	17.0
G130.0	16.0	16.0	15.6	15.5	16.2	16.8	17.6	18.0	17.8	17.3
G131.0	16.3	16.2	15.8	15.7	16.5	17.1	17.9	18.3	18.0	17.5
G132.0	16.5	16.4	16.0	15.9	16.7	17.2	18.2	18.6	18.2	17.8
G133.0	16.9	16.7	16.2	16.2	16.9	17.5	18.3	18.8	18.5	18.1
G134.0	17.2	16.9	16.5	16.5	17.2	17.7	18.5	19.0	18.6	18.3
G135.0	17.4	17.1	16.8	16.8	17.4	18.0	18.9	19.2	19.0	18.5
G136.0	17.6	17.3	17.0	17.0	17.7	18.4	19.1	19.5	19.2	18.7
G137.0	17.7	17.6	17.3	17.2	17.9	18.9	19.4	19.9	19.4	19.0
G138.0	18.0	17.8	17.5	17.5	18.2	18.9	19.6	19.9	19.7	19.3
G139.0	18.1	18.0	17.8	17.8	18.3	19.1	19.6	20.2	19.9	19.5
G140.0	18.4	18.3	18.0	18.0	18.7	19.1	19.8	20.4	19.9	19.7
G141.0	18.6	18.5	18.3	18.2	18.9	19.4	20.0	20.5	20.1	19.8
G142.0	18.8	18.7	18.5	18.4	19.2	19.6	20.2	20.7	20.4	19.8
G143.0	19.0	18.9	18.7	18.7	19.3	19.9	20.4	20.7	20.6	20.1
G144.0	19.2	19.0	19.0	18.9	19.6	20.1	20.6	21.0	20.9	20.2
G145.0	19.6	19.3	19.2	19.1	19.9	20.1	20.8	21.2	21.0	20.6
G146.0	19.6	19.5	19.4	19.3	20.1	20.1	21.0	21.4	21.2	20.9
G147.0	19.6	19.9	19.6	19.5	20.1	20.4	21.3	21.6	21.4	20.9

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	19.8	19.9	19.7	19.9	20.1	20.6	21.4	21.7	21.6	21.2
G149.0	20.1	19.9	19.9	19.8	20.4	20.8	21.6	21.8	21.8	21.3
G150.0	20.4	20.1	19.9	19.8	20.6	21.0	21.8	21.9	22.0	21.5
G151.0	20.5	20.3	20.2	20.2	20.8	21.2	22.0	22.1	22.0	21.7
G152.0	20.8	20.5	20.4	20.4	21.0	21.3	22.0	22.2	22.2	21.8
G153.0	21.0	20.7	20.7	20.7	21.2	21.5	22.2	22.3	22.3	22.0
G154.0	21.2	20.9	20.8	20.9	21.4	21.6	22.4	22.5	22.4	22.2
G155.0	21.3	21.1	21.0	21.0	21.5	21.9	22.5	22.6	22.7	22.3
G156.0	21.5	21.2	21.2	21.2	21.7	22.0	22.6	22.7	22.7	22.5
G157.0	21.6	21.4	21.3	21.4	21.8	22.1	22.8	22.9	22.9	22.6
G158.0	21.8	21.5	21.4	21.5	22.0	22.4	22.9	23.0	23.0	22.7
G159.0	21.9	21.7	21.7	21.7	22.2	22.6	23.0	23.1	23.1	22.8
G160.0	22.0	21.9	21.8	21.8	22.4	22.6	23.0	23.2	23.2	23.0
G161.0	22.1	22.0	21.9	22.0	22.4	22.7	23.1	23.3	23.4	23.1
G162.0	22.2	22.1	22.1	22.2	22.6	22.9	23.2	23.4	23.5	23.2
G163.0	22.3	22.3	22.3	22.3	22.8	23.0	23.3	23.6	23.5	23.3
G164.0	22.5	22.3	22.4	22.4	22.8	23.2	23.4	23.6	23.7	23.4
G165.0	22.6	22.5	22.5	22.6	23.0	23.3	23.5	23.7	23.7	23.5
G166.0	22.8	22.7	22.6	22.8	23.2	23.5	23.6	23.8	23.8	23.6
G167.0	22.8	22.9	22.7	22.8	23.2	23.6	23.6	23.9	23.9	23.7
G168.0	22.9	23.0	22.9	23.1	23.4	23.7	23.7	24.0	23.9	23.8
G169.0	23.1	23.2	23.1	23.2	23.5	23.8	23.8	24.1	24.0	23.8
G170.0	23.2	23.2	23.2	23.3	23.6	23.9	23.8	24.1	24.0	23.9
G171.0	23.3	23.3	23.3	23.4	23.7	23.9	24.0	24.2	24.0	23.9
G172.0	23.3	23.4	23.4	23.4	23.9	24.0	23.9	24.2	24.1	24.0
G173.0	23.4	23.5	23.6	23.5	23.8	24.1	24.0	24.2	24.1	24.0
G174.0	23.6	23.7	23.6	23.6	23.9	24.2	24.0	24.3	24.1	24.1
G175.0	23.6	23.8	23.7	23.7	24.0	24.3	24.1	24.3	24.2	24.0
G176.0	23.6	23.9	23.8	23.8	24.1	24.3	24.2	24.3	24.1	24.1
G177.0	23.7	24.0	23.9	23.8	24.1	24.4	24.1	24.3	24.2	24.0
G178.0	23.8	24.1	24.0	23.9	24.2	24.4	24.1	24.3	24.2	24.1
G179.0	23.9	24.1	24.1	24.0	24.2	24.4	24.2	24.4	24.2	24.1
G180.0	24.0	24.2	24.1	24.1	24.3	24.5	24.2	24.3	24.1	24.1

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	2177.1	2177.1	2177.1							
G1.0	2176.0	2176.6	2177.9							
G2.0	2174.0	2175.6	2177.7							
G3.0	2170.8	2173.5	2176.6							
G4.0	2167.5	2170.6	2174.9							
G5.0	2162.8	2166.9	2172.0							
G6.0	2156.9	2162.2	2168.3							
G7.0	2151.0	2157.5	2164.0							
G8.0	2143.1	2151.2	2159.3							
G9.0	2135.5	2144.3	2152.7							
G10.0	2127.2	2136.9	2146.5							
G11.0	2116.4	2127.8	2138.8							
G12.0	2106.6	2119.1	2130.7							
G13.0	2095.6	2109.8	2121.9							
G14.0	2083.0	2098.2	2111.5							
G15.0	2070.8	2087.3	2102.0							
G16.0	2056.6	2074.9	2090.2							
G17.0	2042.5	2061.8	2078.9							
G18.0	2028.1	2049.0	2066.2							
G19.0	2011.0	2033.4	2052.8							
G20.0	1995.7	2019.3	2039.9							
G21.0	1979.2	2004.4	2025.4							
G22.0	1959.8	1986.9	2009.7							
G23.0	1942.3	1970.6	1994.7							
G24.0	1922.5	1952.3	1977.0							
G25.0	1902.7	1934.3	1961.0							
G26.0	1883.2	1916.6	1943.4							
G27.0	1861.1	1896.3	1924.6							
G28.0	1839.7	1876.4	1905.8							
G29.0	1818.7	1856.9	1887.4							
G30.0	1795.2	1835.0	1865.6							
G31.0	1772.1	1813.6	1846.2							
G32.0	1747.2	1790.4	1824.5							
G33.0	1723.3	1767.8	1802.8							
G34.0	1698.3	1744.9	1781.8							
G35.0	1671.9	1720.3	1757.7							
G36.0	1646.4	1696.1	1735.8							

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 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1618.9	1670.5	1712.7							
G38.0	1593.3	1646.8	1687.6							
G39.0	1566.4	1621.3	1663.2							
G40.0	1538.0	1594.2	1637.5							
G41.0	1510.0	1568.2	1612.5							
G42.0	1483.0	1542.8	1588.1							
G43.0	1453.4	1514.4	1560.0							
G44.0	1424.4	1487.3	1535.0							
G45.0	1394.1	1458.5	1508.5							
G46.0	1365.9	1430.8	1480.4							
G47.0	1336.1	1403.8	1453.3							
G48.0	1303.4	1372.9	1424.5							
G49.0	1274.2	1345.4	1397.0							
G50.0	1243.6	1316.4	1370.3							
G51.0	1211.2	1286.0	1339.6							
G52.0	1181.2	1256.6	1312.7							
G53.0	1146.7	1225.4	1284.3							
G54.0	1116.5	1196.9	1254.2							
G55.0	1084.4	1166.8	1225.0							
G56.0	1051.0	1135.1	1194.5							
G57.0	1018.6	1104.8	1165.2							
G58.0	987.5	1075.6	1135.6							
G59.0	951.8	1042.0	1103.2							
G60.0	920.3	1012.6	1074.7							
G61.0	884.2	978.8	1042.0							
G62.0	852.3	948.9	1013.5							
G63.0	820.5	917.7	983.4							
G64.0	784.0	885.2	950.6							
G65.0	752.1	855.3	921.7							
G66.0	718.6	824.0	891.8							
G67.0	683.8	791.6	860.6							
G68.0	650.2	760.8	831.5							
G69.0	615.3	728.9	800.8							
G70.0	583.5	698.7	771.9							
G71.0	550.5	670.2	742.9							
G72.0	516.1	639.3	712.8							
G73.0	483.5	610.1	684.2							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	452.8	582.4	656.9							
G75.0	418.1	551.1	627.2							
G76.0	387.0	524.0	599.0							
G77.0	355.3	493.2	568.3							
G78.0	327.5	466.6	541.2							
G79.0	299.3	439.0	511.0							
G80.0	269.5	408.2	471.3							
G81.0	244.5	377.3	431.1							
G82.0	216.8	336.2	381.6							
G83.0	193.9	293.9	320.3							
G84.0	170.0	241.5	253.8							
G85.0	143.4	175.7	164.0							
G86.0	113.2	102.5	85.9							
G87.0	78.5	46.1	37.8							
G88.0	31.3	14.4	12.8							
G89.0	12.1	9.7	8.1							
G90.0	7.9	8.2	7.2							
G91.0	7.9	8.1	6.8							
G92.0	8.2	8.3	6.7							
G93.0	8.5	8.5	6.9							
G94.0	8.8	8.7	7.2							
G95.0	9.0	8.9	7.5							
G96.0	9.3	9.2	7.8							
G97.0	9.6	9.4	8.0							
G98.0	9.8	9.8	8.1							
G99.0	10.2	10.0	8.3							
G100.0	10.3	10.3	8.6							
G101.0	10.6	10.4	8.9							
G102.0	10.9	10.6	9.1							
G103.0	11.0	10.9	9.3							
G104.0	11.3	11.2	9.5							
G105.0	11.5	11.4	9.9							
G106.0	11.8	11.6	10.1							
G107.0	12.0	11.9	10.3							
G108.0	12.3	12.1	10.5							
G109.0	12.6	12.4	10.7							
G110.0	12.9	12.7	11.0							

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	13.2	12.9	11.3							
G112.0	13.2	13.2	11.5							
G113.0	13.7	13.3	11.7							
G114.0	13.9	13.6	12.0							
G115.0	14.2	13.9	12.2							
G116.0	14.2	14.0	12.4							
G117.0	14.5	14.3	12.7							
G118.0	14.7	14.4	12.8							
G119.0	14.9	14.7	13.1							
G120.0	15.2	15.0	13.3							
G121.0	15.4	15.2	13.7							
G122.0	15.6	15.5	13.9							
G123.0	15.8	15.8	14.1							
G124.0	16.0	16.0	14.4							
G125.0	16.3	16.3	14.7							
G126.0	16.6	16.7	14.9							
G127.0	16.8	16.9	15.2							
G128.0	17.0	17.2	15.5							
G129.0	17.2	17.4	15.7							
G130.0	17.5	17.8	16.0							
G131.0	17.7	18.0	16.3							
G132.0	18.0	18.0	16.5							
G133.0	18.2	18.3	16.9							
G134.0	18.4	18.5	17.2							
G135.0	18.7	18.8	17.4							
G136.0	19.0	19.0	17.6							
G137.0	19.2	19.2	17.7							
G138.0	19.4	19.4	18.0							
G139.0	19.6	19.7	18.1							
G140.0	19.9	19.9	18.4							
G141.0	20.1	20.1	18.6							
G142.0	20.1	20.1	18.8							
G143.0	20.2	20.4	19.0							
G144.0	20.4	20.5	19.2							
G145.0	20.7	20.8	19.6							
G146.0	20.9	21.0	19.6							
G147.0	21.1	21.1	19.6							

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	21.3	21.3	19.8							
G149.0	21.5	21.4	20.1							
G150.0	21.6	21.6	20.4							
G151.0	21.8	21.8	20.5							
G152.0	22.0	21.9	20.8							
G153.0	22.1	22.1	21.0							
G154.0	22.2	22.2	21.2							
G155.0	22.4	22.5	21.3							
G156.0	22.5	22.6	21.5							
G157.0	22.6	22.7	21.6							
G158.0	22.8	22.8	21.8							
G159.0	22.9	22.9	21.9							
G160.0	23.0	23.0	22.0							
G161.0	23.1	23.1	22.1							
G162.0	23.2	23.2	22.2							
G163.0	23.3	23.4	22.3							
G164.0	23.4	23.5	22.5							
G165.0	23.5	23.5	22.6							
G166.0	23.6	23.7	22.8							
G167.0	23.7	23.7	22.8							
G168.0	23.8	23.8	22.9							
G169.0	24.0	23.9	23.1							
G170.0	24.0	24.0	23.2							
G171.0	24.0	24.0	23.3							
G172.0	24.1	24.1	23.3							
G173.0	24.1	24.2	23.4							
G174.0	24.2	24.3	23.6							
G175.0	24.3	24.3	23.6							
G176.0	24.3	24.3	23.6							
G177.0	24.3	24.4	23.7							
G178.0	24.3	24.4	23.8							
G179.0	24.3	24.5	23.9							
G180.0	24.3	24.5	24.0							

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	2926.11
L 0-180(75) av	3211.04
L 0-180(85) av	1528.34
L 90-270(65) av	2378.56
L 90-270(75) av	1975.80
L 90-270(85) av	1162.74
L 45(65) av	2638.86
L 45(75) av	2579.82
L 45(85) av	1935.26

Standard: GB/T 29293-2012