

Report No.:

Test Time:

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm): 1219

Luminous Height (mm):

Current: 0.416 A

Power Factor: 0.997

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 130

Voltage: 119.9 V

Power: 49.73 W

Photometric Results

CIE Class: Direct

Measurement Flux: 7024 lm

Downward Ratio: 91%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 218.8, 158.3, 195.1, 192.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 127.7, 103.4, 115.0, 114.0

Luminaire Efficacy Rating (LER): 141.29

Max. Intensity: 2058.14 cd

S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 7024.0 lm

Efficiency: 100%

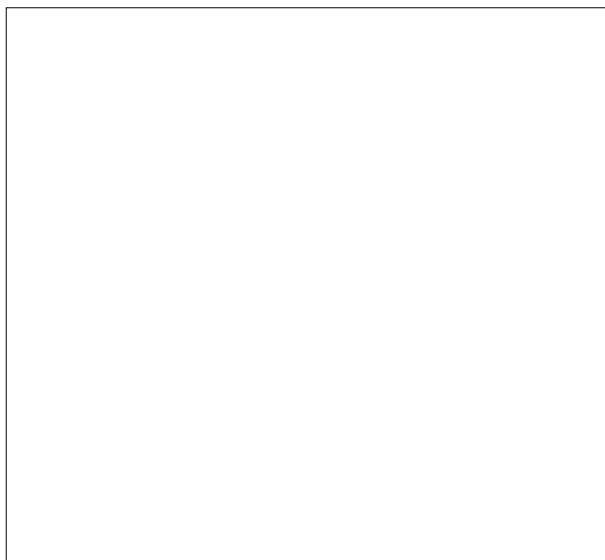
Upward Ratio: 9%

C0r0 Intensity: 2057.63 cd

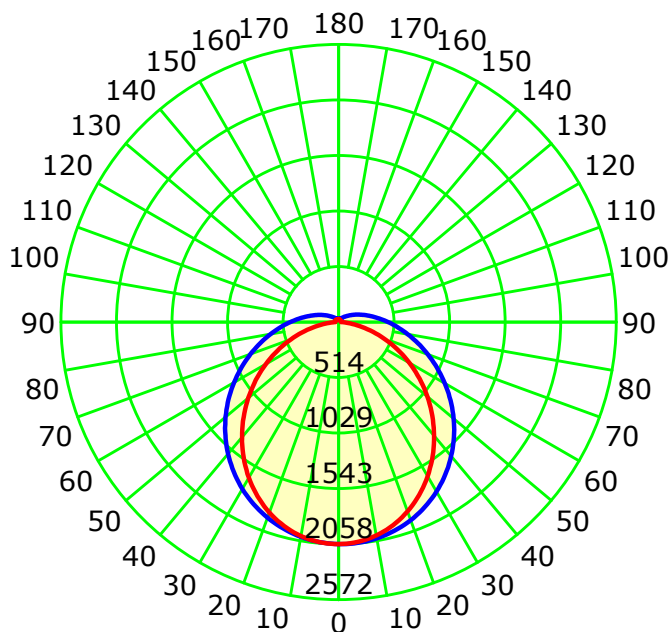
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.20

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

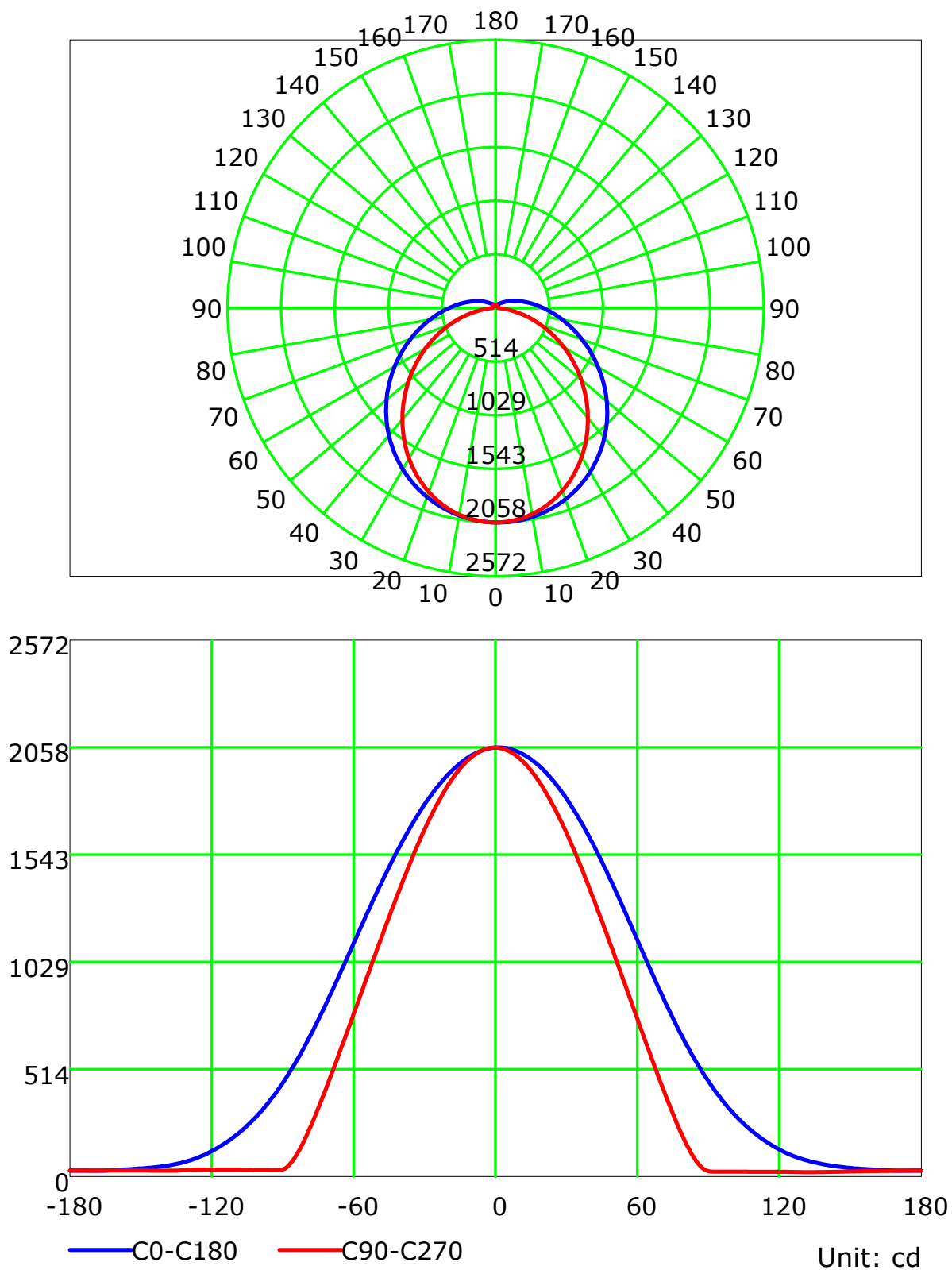
Test Device: GPM-1600L

Distance: 9.010 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

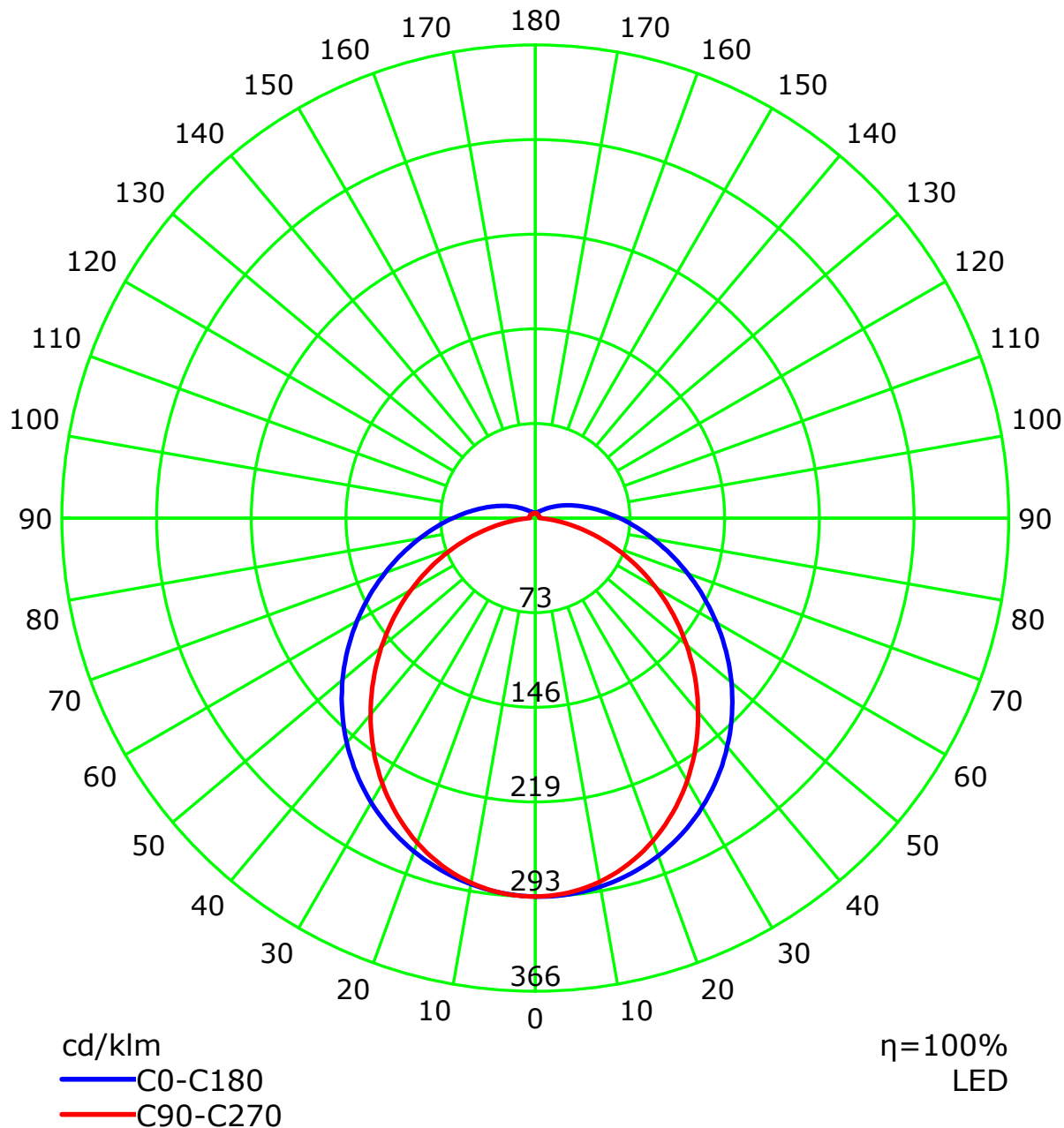
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



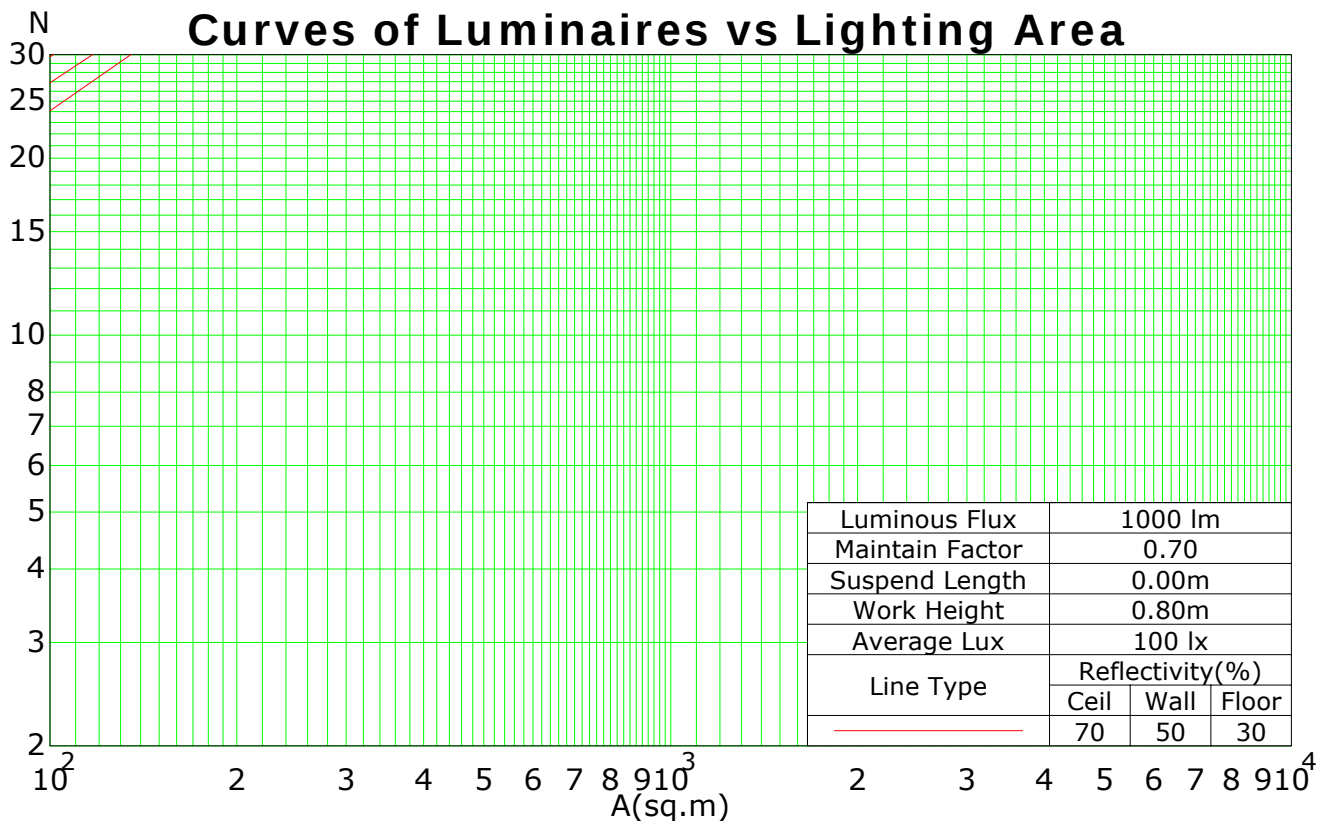
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 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	1.17	1.17	1.17	1.17	1.13	1.13	1.13	1.13	1.06	1.06	1.06	1.00	1.00	1.00	0.94	0.94	0.94	0.91
1	1.05	0.99	0.95	0.90	1.01	0.96	0.92	0.88	0.90	0.87	0.83	0.85	0.82	0.79	0.80	0.78	0.75	0.73
2	0.95	0.86	0.78	0.72	0.91	0.83	0.76	0.71	0.78	0.73	0.68	0.74	0.69	0.65	0.69	0.65	0.62	0.59
3	0.86	0.75	0.66	0.59	0.83	0.73	0.65	0.58	0.68	0.62	0.56	0.64	0.59	0.54	0.61	0.56	0.52	0.49
4	0.79	0.66	0.57	0.50	0.76	0.64	0.56	0.49	0.61	0.53	0.48	0.57	0.51	0.46	0.54	0.49	0.44	0.42
5	0.72	0.59	0.50	0.43	0.70	0.57	0.49	0.42	0.54	0.47	0.41	0.51	0.45	0.40	0.49	0.43	0.38	0.36
6	0.67	0.53	0.44	0.37	0.64	0.52	0.43	0.37	0.49	0.41	0.36	0.46	0.40	0.35	0.44	0.38	0.34	0.31
7	0.62	0.48	0.39	0.33	0.60	0.47	0.38	0.32	0.44	0.37	0.32	0.42	0.36	0.31	0.40	0.34	0.30	0.28
8	0.57	0.44	0.35	0.29	0.55	0.43	0.34	0.29	0.41	0.33	0.28	0.39	0.32	0.27	0.37	0.31	0.27	0.25
9	0.54	0.40	0.32	0.26	0.52	0.39	0.31	0.26	0.37	0.30	0.25	0.36	0.29	0.25	0.34	0.28	0.24	0.22
10	0.50	0.37	0.29	0.24	0.49	0.36	0.29	0.23	0.35	0.28	0.23	0.33	0.27	0.22	0.32	0.26	0.22	0.20

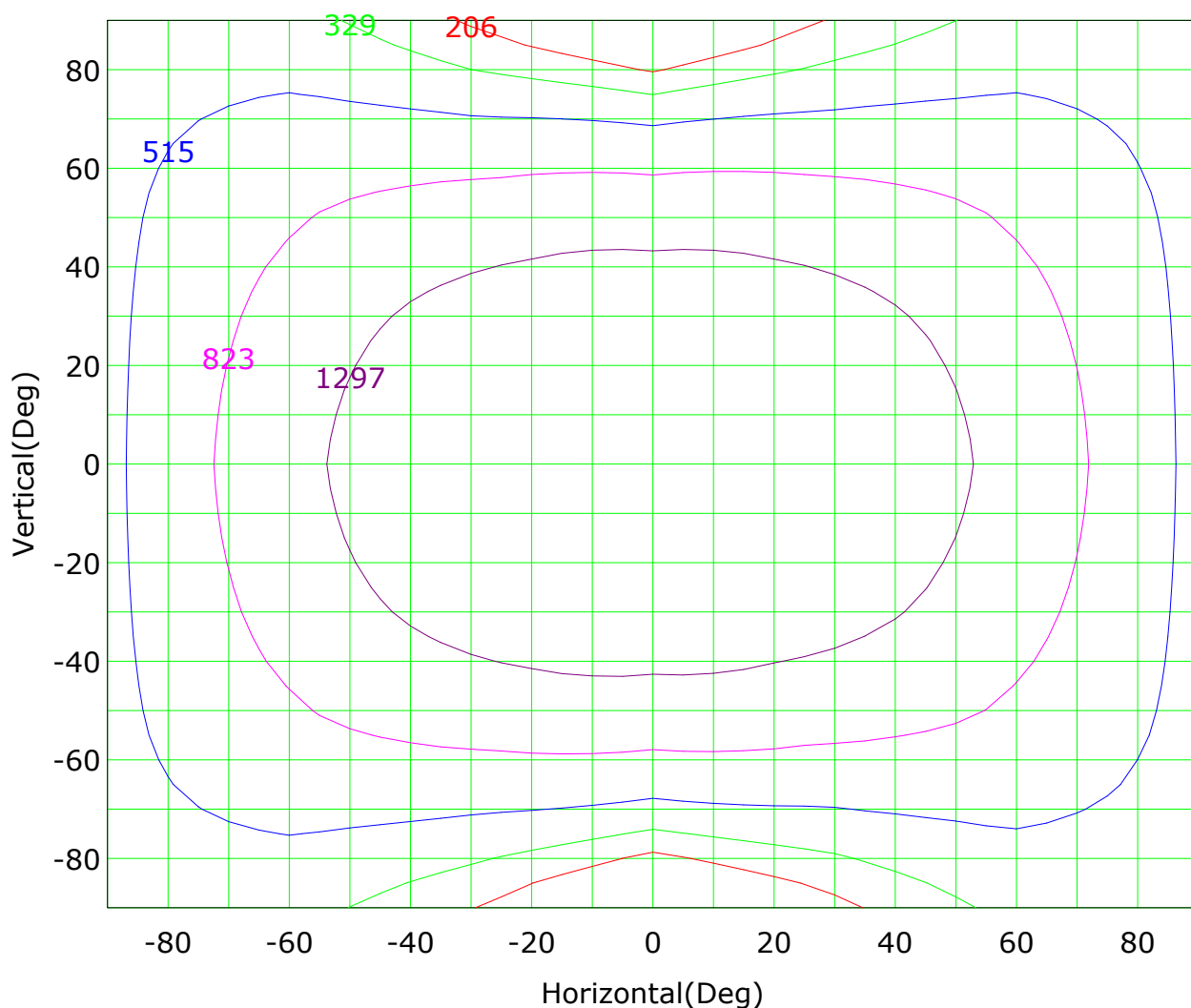
Spacing Criteria (0-180): 1.30
Spacing Criteria (90-270): 1.20
Spacing Criteria (Diagonal): 1.37



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: 9.010 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 2058 cd

(10%): 206 cd	(16%): 329 cd
(25%): 515 cd	(40%): 823 cd
(63%): 1297 cd	(100%): 2058 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

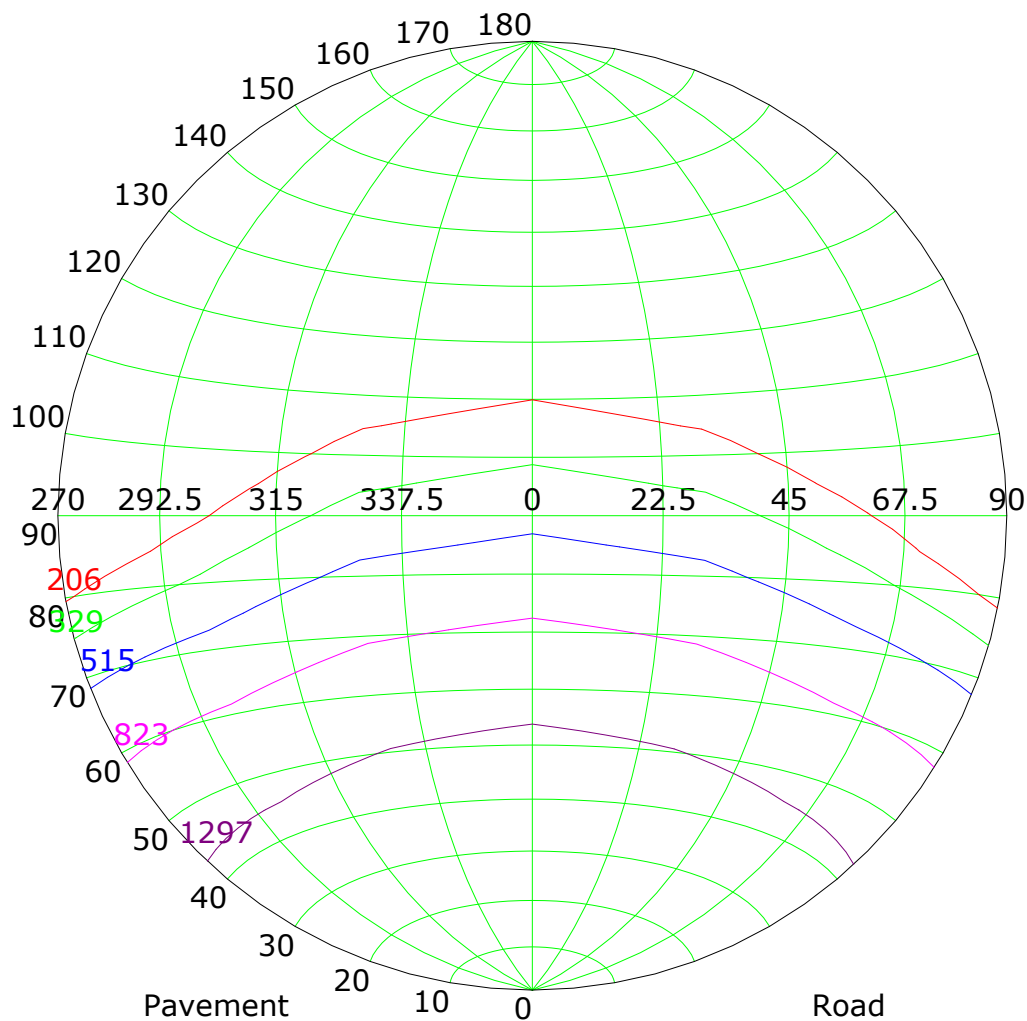
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 2058 cd

(10%): 206 cd	(16%): 329 cd
(25%): 515 cd	(40%): 823 cd
(63%): 1297 cd	(100%): 2058 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

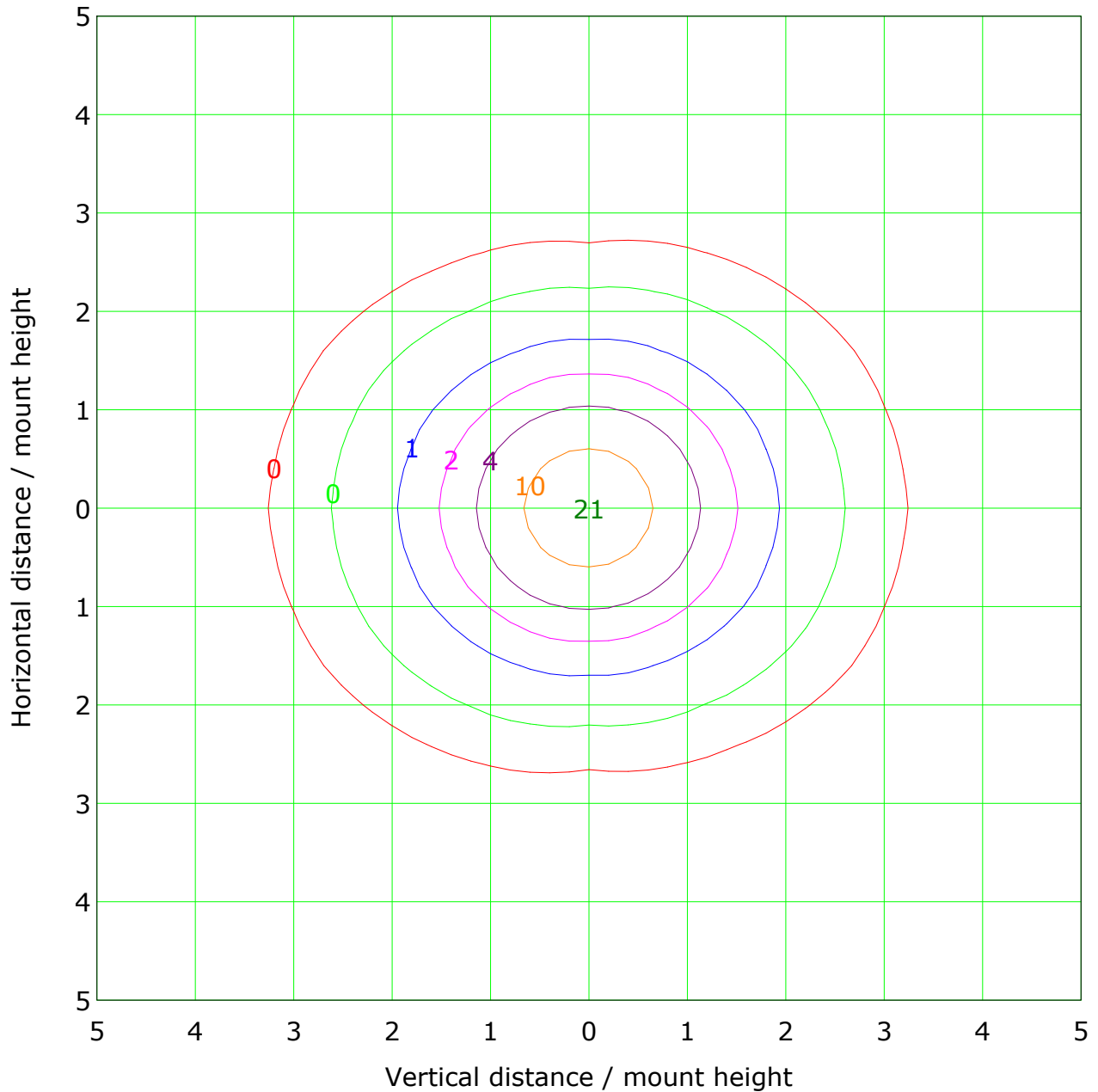
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 20.6 lx

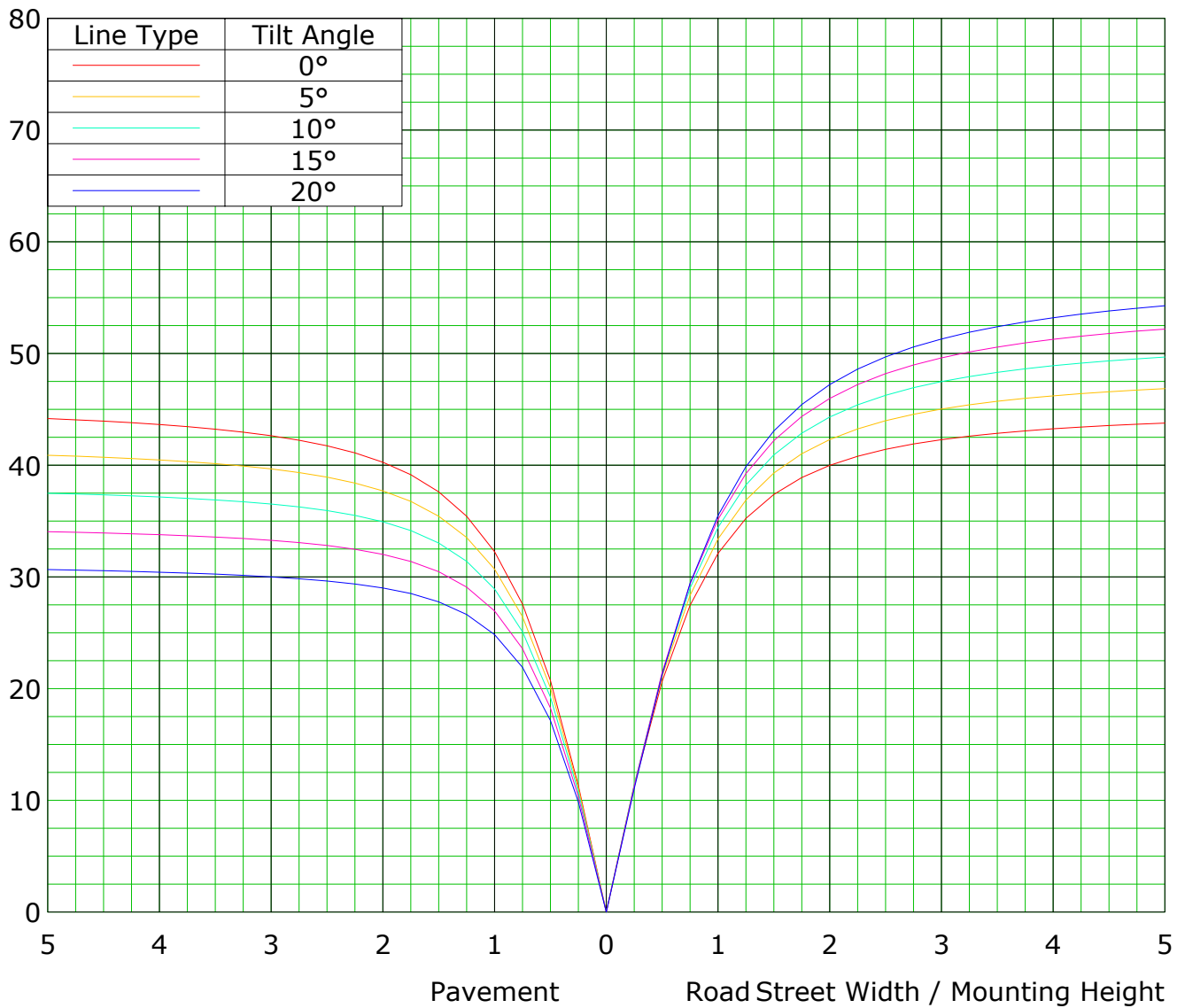
(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 2.1 lx
(20%): 4.1 lx	(50%): 10.3 lx
(100%): 20.6 lx	

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: 9.010 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: 9.010 m

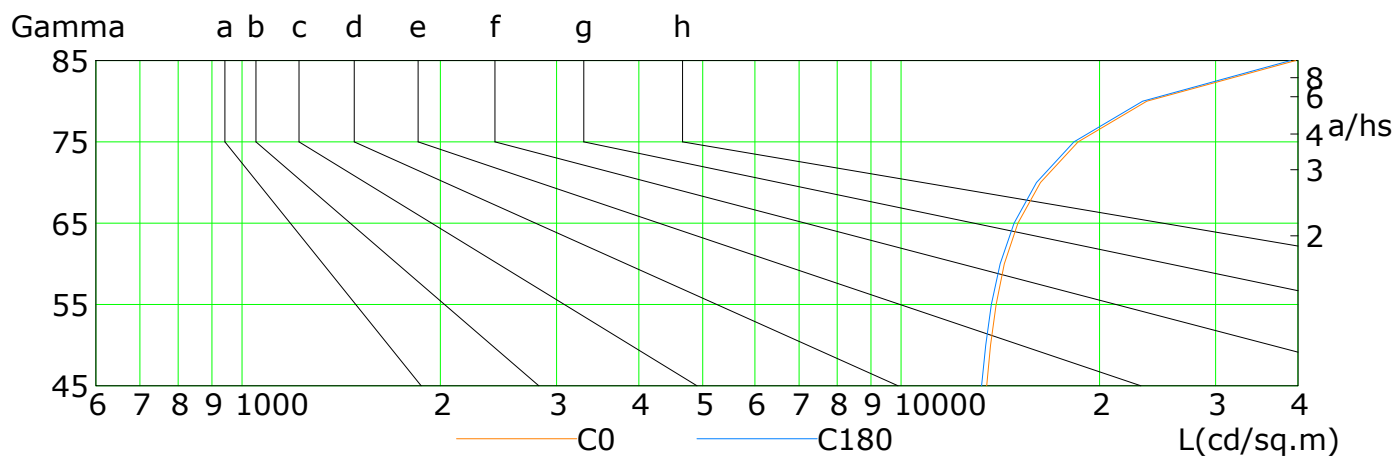
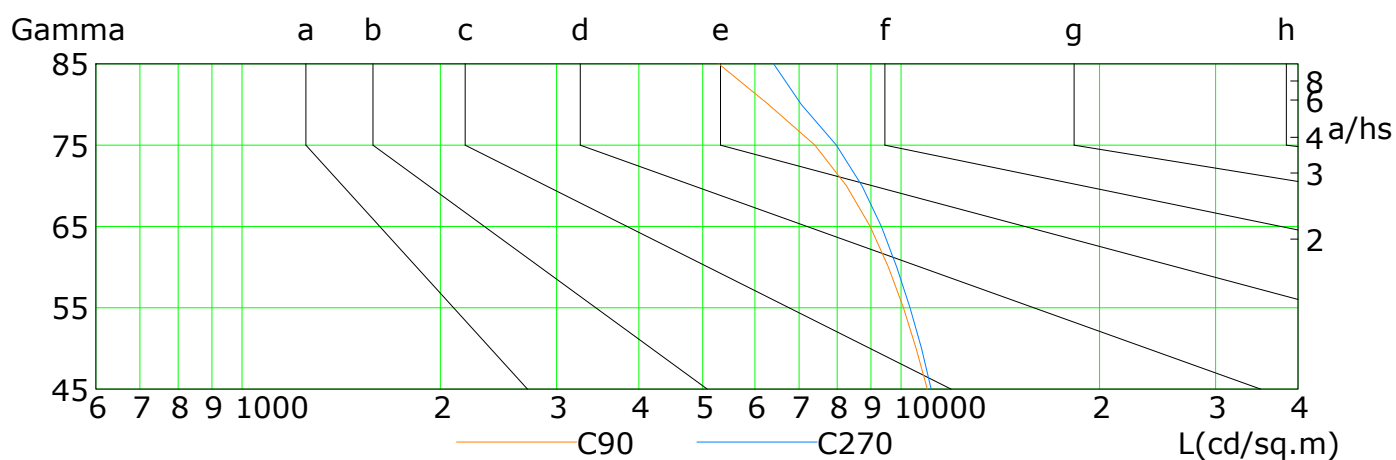
Humidity:

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	13486	13662	13934	14338	15034	16267	18554	23586	39688
C90	10956	10539	10080	9567	8977	8263	7399	6293	5287
C180	13245	13435	13703	14131	14833	16042	18292	23250	38974
C270	11102	10739	10318	9848	9331	8721	7974	7056	6405

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

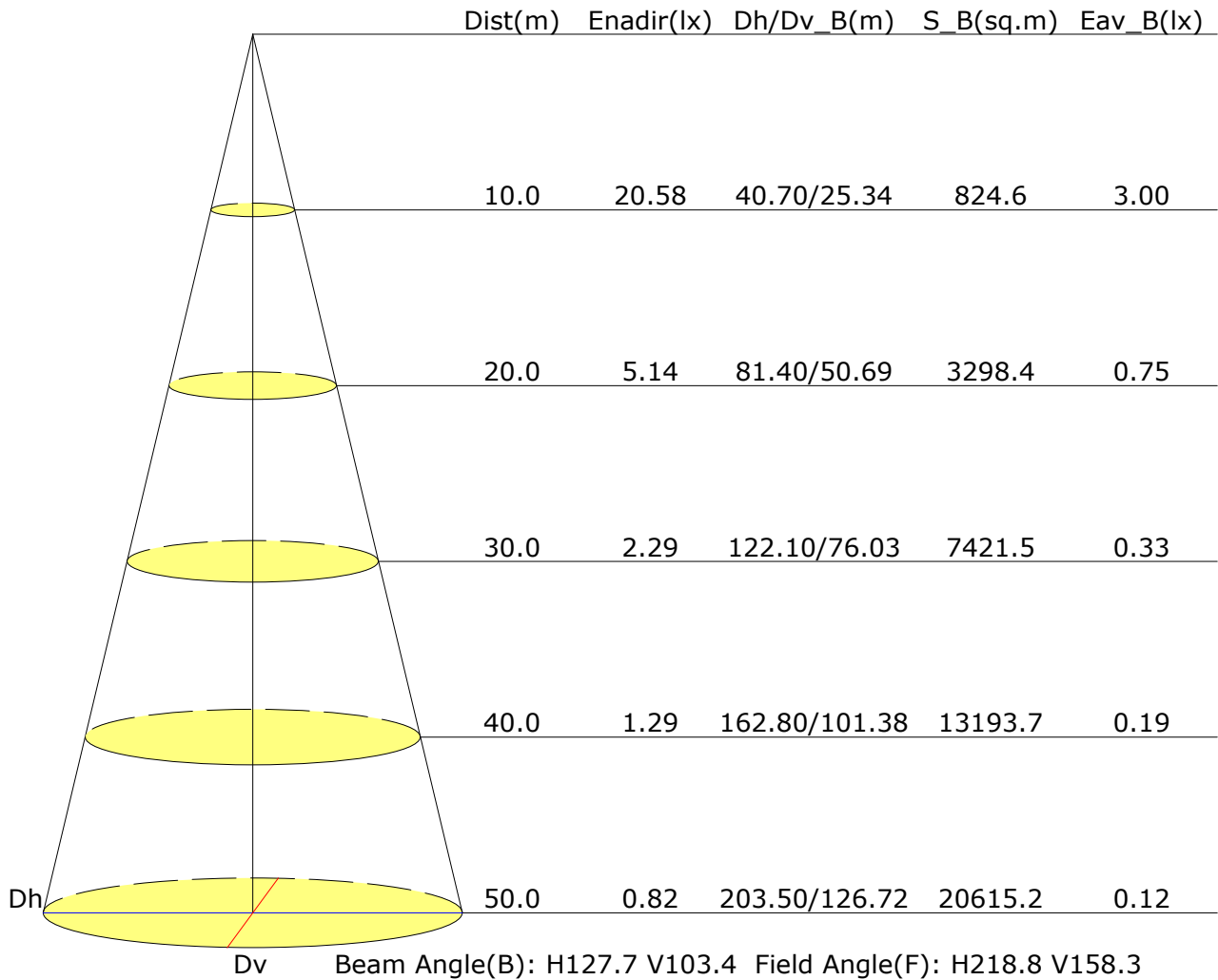
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

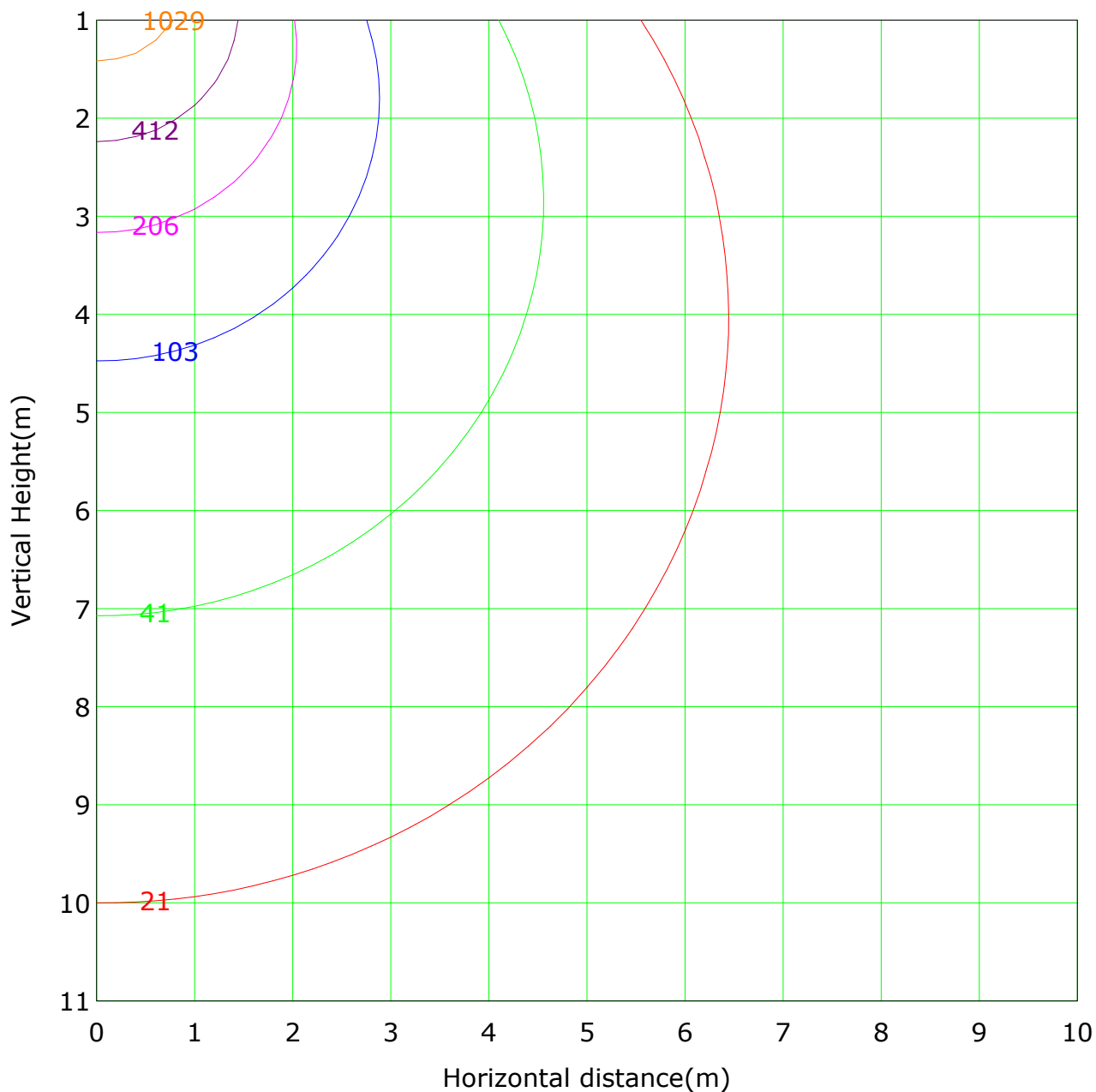
Illuminance at a Distance



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: 9.010 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2057.6 lx

— (1%): 20.6 lx	— (2%): 41.2 lx
— (5%): 102.9 lx	— (10%): 205.8 lx
— (20%): 411.5 lx	— (50%): 1028.8 lx
— (100%): 2057.6 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: 9.010 m
Humidity:
Inspector:

Area Flux Table

Unit: lm

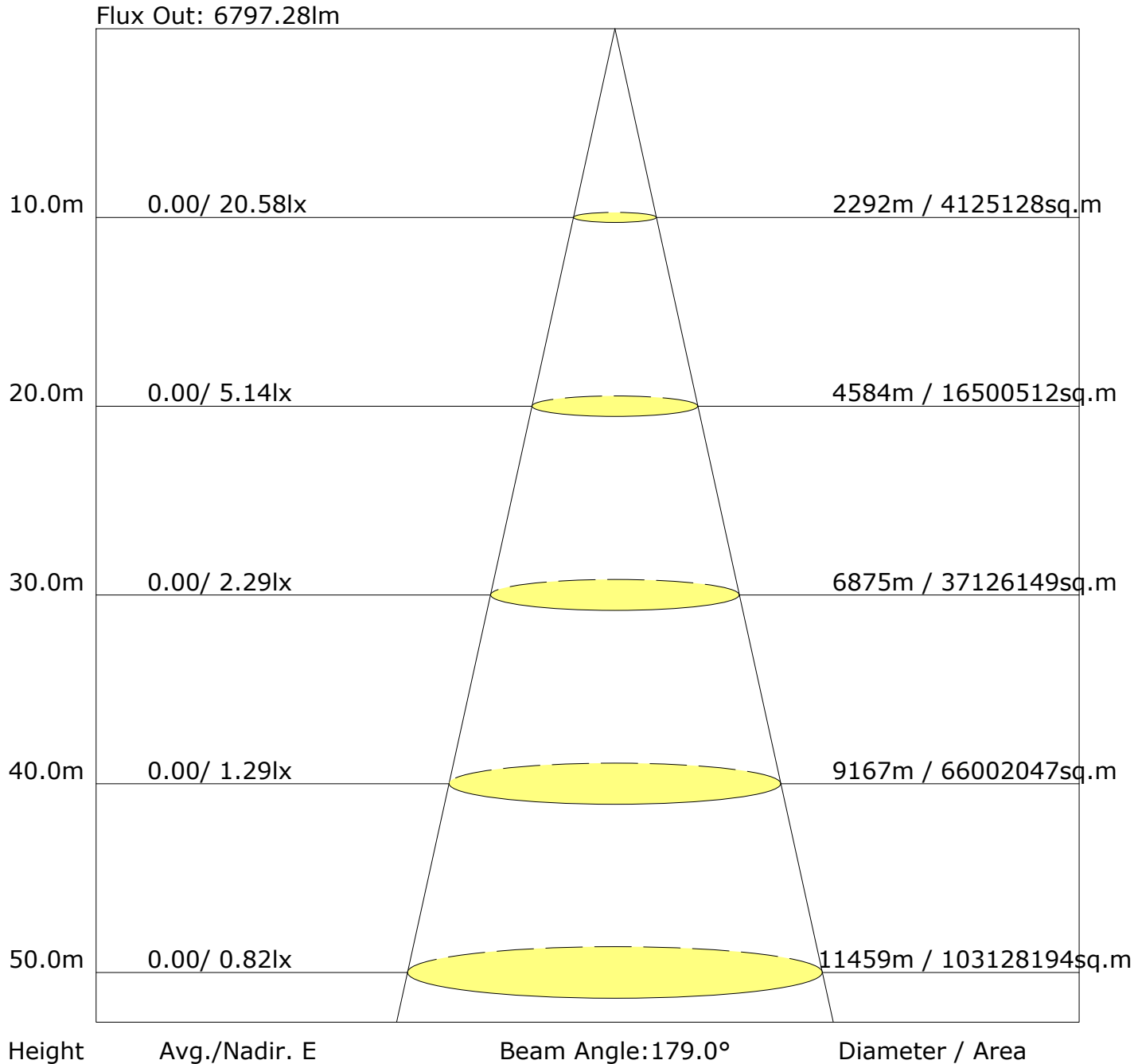
Orbit 111																					
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	$\Phi_{\text{flux}}(\text{mJy})$	$\Phi_{\text{flux}}(\text{E})$
Vertical plane	-90	1.2	3.5	5.5	7.0	7.7	7.7	7.0	5.7	3.9	3.8	5.2	6.3	7.1	7.4	7.0	5.6	3.5	1.2	96.2	80.9
	-80	1.2	3.8	6.5	8.9	10.6	11.6	12.0	11.8	10.8	10.6	11.3	11.4	11.1	10.3	8.9	6.6	3.9	1.3	152.6	152.6
	-70	1.3	4.2	7.6	11.1	14.1	16.6	18.4	19.5	19.5	19.4	19.2	17.8	16.1	13.9	11.1	7.6	4.3	1.3	222.9	222.9
	-60	1.3	4.6	8.7	13.4	17.9	22.0	25.3	27.8	28.7	28.7	27.6	25.0	21.8	17.8	13.4	8.8	4.6	1.4	299.2	299.2
	-50	1.4	5.0	9.8	15.7	21.8	27.6	32.5	36.2	37.9	37.9	36.2	32.4	27.6	21.9	15.8	9.9	5.0	1.4	375.8	375.8
	-40	1.4	5.3	10.8	17.7	25.4	32.7	39.1	44.0	46.5	46.5	44.1	39.3	33.0	25.6	17.8	10.9	5.4	1.5	447.0	447.0
	-30	1.5	5.6	11.7	19.4	28.2	37.1	44.8	50.6	53.7	53.8	50.8	45.2	37.5	28.6	19.6	11.8	5.7	1.5	507.0	507.0
	-20	1.5	5.8	12.3	20.7	30.3	40.1	48.8	55.3	58.9	59.0	55.8	49.4	40.7	30.8	21.0	12.5	5.9	1.5	550.4	550.4
	-10	1.5	6.0	12.7	21.6	31.6	41.8	50.9	57.7	61.5	61.7	58.3	51.6	42.5	32.1	21.9	12.9	6.1	1.5	574.0	574.0
	0	1.5	6.0	12.7	21.5	31.6	41.7	50.8	57.7	61.4	61.7	58.2	51.5	42.5	32.1	21.9	12.9	6.1	1.5	573.5	573.5
10	1.5	5.8	12.3	20.7	30.2	39.9	48.6	55.0	58.6	58.9	55.7	49.3	40.6	30.8	21.0	12.5	5.9	1.5	548.7	548.7	
20	1.5	5.6	11.6	19.3	28.0	36.8	44.4	50.0	53.3	53.5	50.7	45.1	37.5	28.5	19.6	11.8	5.7	1.5	504.3	504.3	
30	1.4	5.3	10.7	17.5	25.1	32.3	38.5	43.2	45.9	46.2	43.9	39.3	32.9	25.6	17.8	10.9	5.4	1.5	443.3	443.3	
40	1.4	4.9	9.7	15.4	21.4	26.9	31.6	35.3	37.2	37.5	36.0	32.4	27.6	21.9	15.7	9.9	5.0	1.4	371.2	371.2	
50	1.3	4.6	8.6	13.2	17.4	21.2	24.3	26.9	28.0	28.2	27.5	25.1	21.9	17.9	13.4	8.8	4.6	1.4	294.0	294.0	
60	1.3	4.2	7.5	10.8	13.5	15.6	17.2	18.5	18.7	18.8	19.0	18.0	16.3	14.0	11.1	7.6	4.3	1.3	217.4	217.4	
70	1.2	3.8	6.4	8.6	10.0	10.6	10.8	10.7	9.9	10.1	11.2	11.6	11.4	10.5	8.9	6.5	3.9	1.3	147.4	146.9	
80	1.2	3.4	5.4	6.7	7.1	6.7	5.9	4.8	3.3	3.5	5.3	6.7	7.5	7.6	7.0	5.6	3.5	1.2	92.3	75.6	
90	24.6	87.3	170.7	269.4	371.9	468.5	550.7	610.7	637.8	639.8	616.0	557.5	475.3	377.1	273.0	172.9	88.6	25.0	6417		
Flux(T)	24.6	87.3	170.7	269.4	371.9	468.5	547.6	604.5	631.0	633.0	609.8	554.5	475.2	377.1	273.0	172.9	88.6	25.0			
Flux(E)	24.6	87.3	170.7	269.4	371.9	468.5	547.6	604.5	631.0	633.0	609.8	554.5	475.2	377.1	273.0	172.9	88.6	25.0		6385	
-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: 9.010 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: 9.010 m
Humidity:
Inspector:

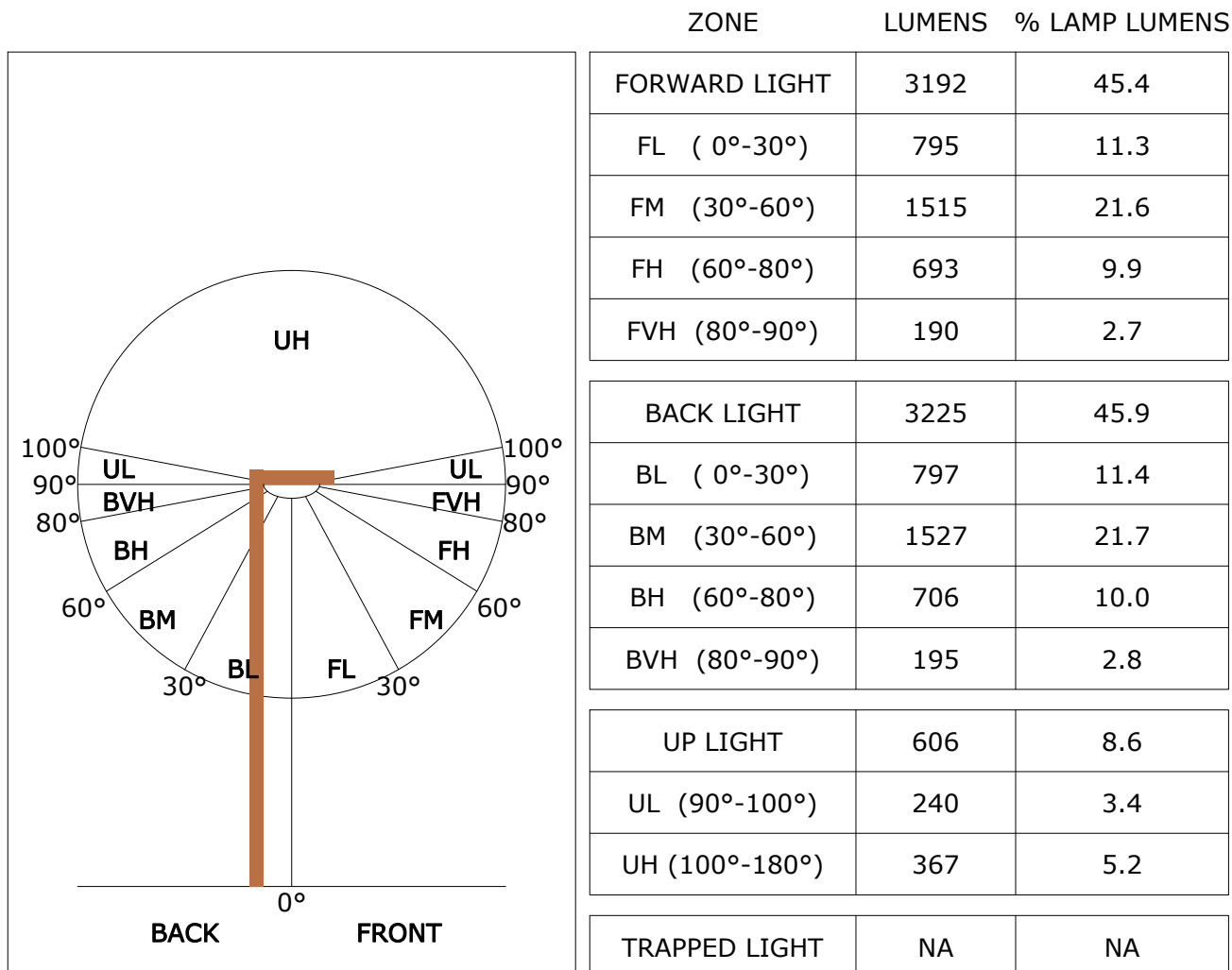
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	21.4	22.7	21.8	23.1	23.5	19.8	21.2	20.3	21.6	22.0
3H	23.6	24.8	24.0	25.2	25.7	21.3	22.5	21.7	22.9	23.4
4H	24.8	25.9	25.2	26.4	26.8	21.9	23.0	22.4	23.5	23.9
6H	26.0	27.1	26.5	27.6	28.1	22.3	23.4	22.8	23.8	24.3
8H	26.7	27.8	27.2	28.2	28.8	22.4	23.5	22.9	24.0	24.5
12H	27.5	28.5	28.0	29.0	29.5	22.5	23.5	23.0	24.0	24.5
X=4H Y=2H	21.9	23.1	22.4	23.5	24.0	20.8	21.9	21.3	22.4	22.9
3H	24.4	25.4	24.9	25.9	26.4	22.5	23.5	23.0	24.0	24.5
4H	25.8	26.7	26.3	27.2	27.8	23.2	24.1	23.8	24.6	25.2
6H	27.3	28.1	27.8	28.6	29.2	23.8	24.6	24.4	25.2	25.8
8H	28.1	28.8	28.7	29.4	30.0	24.1	24.8	24.6	25.4	26.0
12H	29.0	29.7	29.6	30.3	30.9	24.2	24.9	24.8	25.5	26.1
X=8H Y=4H	26.1	26.9	26.7	27.4	28.0	24.0	24.7	24.6	25.3	25.9
6H	27.9	28.5	28.5	29.1	29.7	24.9	25.5	25.5	26.1	26.7
8H	28.9	29.4	29.5	30.0	30.7	25.3	25.8	25.9	26.4	27.1
12H	30.1	30.6	30.7	31.2	31.9	25.6	26.1	26.3	26.7	27.4
X=12H Y=4H	26.2	26.8	26.7	27.4	28.0	24.2	24.9	24.8	25.4	26.1
6H	28.0	28.5	28.6	29.1	29.8	25.3	25.8	25.9	26.4	27.1
8H	29.1	29.6	29.7	30.2	30.9	25.8	26.3	26.4	26.9	27.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.2/-0.2				
S=1.5H	+0.5/-0.6					+0.4/-0.5				
S=2.0H	+0.7/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 7024Im ($8\log(F/F_0) = 6.8$).

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: 9.010 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 U5 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 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

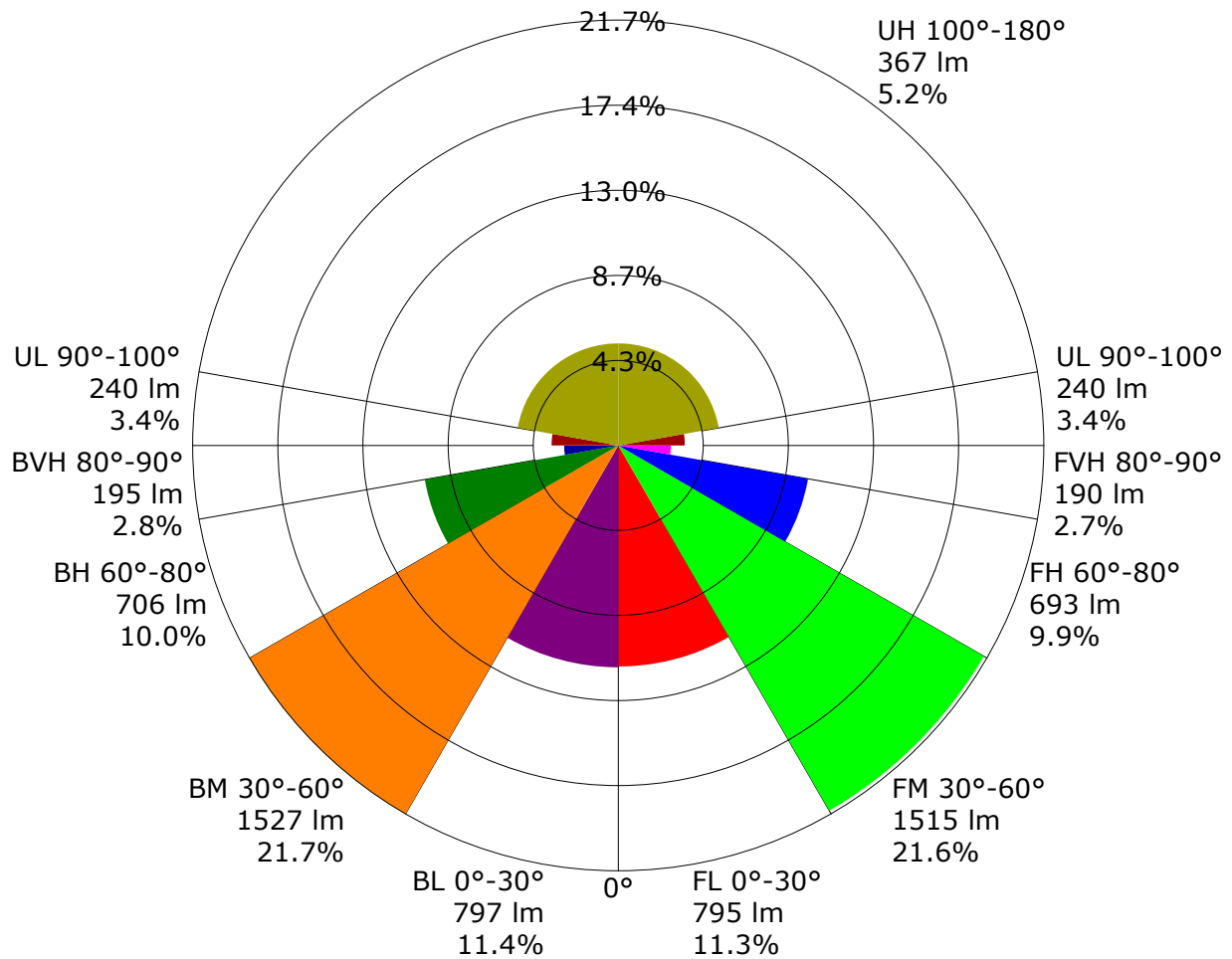
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

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: 9.010 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	0.52	0.62	0.69	0.74	0.81	0.86	0.90	0.94	0.98	
	0.30		0.44	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.93	
	0.20		0.38	0.47	0.55	0.60	0.69	0.75	0.79	0.85	0.90	
0.50	0.50	0.20	0.49	0.59	0.65	0.70	0.76	0.81	0.84	0.89	0.92	
	0.30		0.42	0.52	0.58	0.63	0.71	0.76	0.80	0.85	0.88	
	0.20		0.37	0.46	0.53	0.58	0.66	0.71	0.76	0.81	0.85	
0.30	0.50	0.20	0.47	0.56	0.62	0.66	0.72	0.77	0.80	0.84	0.86	
	0.30		0.41	0.50	0.56	0.61	0.68	0.72	0.76	0.81	0.84	
	0.20		0.36	0.45	0.51	0.56	0.63	0.69	0.72	0.78	0.81	
0.00	0.00	0.00	0.33	0.41	0.47	0.52	0.59	0.63	0.67	0.71	0.74	
Rating:50W 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: 9.010 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	1.02	0.86	0.74	0.66	0.53	0.45	0.39	0.31	0.26	
	0.30		0.85	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.25	
	0.20		0.73	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.97	0.81	0.70	0.62	0.50	0.45	0.37	0.29	0.24	
	0.30		0.82	0.70	0.62	0.55	0.46	0.39	0.34	0.28	0.23	
	0.20		0.71	0.62	0.55	0.50	0.42	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.93	0.77	0.66	0.58	0.47	0.40	0.35	0.28	0.23	
	0.30		0.79	0.68	0.59	0.53	0.44	0.37	0.33	0.26	0.22	
	0.20		0.69	0.60	0.54	0.48	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.58	0.50	0.44	0.40	0.33	0.28	0.25	0.20	0.17	
Rating:50W 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: 9.010 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	0.25	0.26	0.27	0.28	0.29	0.29	0.29	0.30	0.30
	0.30		0.18	0.19	0.21	0.22	0.23	0.24	0.25	0.26	0.27
	0.20		0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.23	0.24
0.50	0.50	0.20	0.24	0.25	0.26	0.27	0.28	0.28	0.28	0.29	0.29
	0.30		0.18	0.19	0.20	0.21	0.23	0.24	0.24	0.25	0.26
	0.20		0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.23	0.24
0.30	0.50	0.20	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.28	0.28
	0.30		0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.25
	0.20		0.13	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.00	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Rating:50W 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: 9.010 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	2057.4	2.0	2.0	0.03	0.03
1.0-2.0	2056.6	5.9	7.9	0.08	0.11
2.0-3.0	2055.1	9.8	17.7	0.14	0.25
3.0-4.0	2052.7	13.7	31.4	0.20	0.45
4.0-5.0	2049.7	17.6	49.1	0.25	0.70
5.0-6.0	2045.9	21.5	70.6	0.31	1.00
6.0-7.0	2041.3	25.3	95.9	0.36	1.37
7.0-8.0	2036.0	29.1	125.1	0.41	1.78
8.0-9.0	2029.9	32.9	158.0	0.47	2.25
9.0-10.0	2023.1	36.6	194.6	0.52	2.77
10.0-11.0	2015.5	40.3	234.9	0.57	3.34
11.0-12.0	2007.1	43.9	278.7	0.62	3.97
12.0-13.0	1998.3	47.4	326.2	0.68	4.64
13.0-14.0	1988.4	50.9	377.1	0.72	5.37
14.0-15.0	1977.7	54.3	431.4	0.77	6.14
15.0-16.0	1966.3	57.6	489.0	0.82	6.96
16.0-17.0	1954.2	60.9	549.9	0.87	7.83
17.0-18.0	1941.9	64.0	613.9	0.91	8.74
18.0-19.0	1928.5	67.1	681.0	0.96	9.70
19.0-20.0	1914.2	70.1	751.1	1.00	10.69
20.0-21.0	1900.0	73.0	824.0	1.04	11.73
21.0-22.0	1884.4	75.7	899.8	1.08	12.81
22.0-23.0	1868.1	78.4	978.2	1.12	13.93
23.0-24.0	1851.2	80.9	1059.1	1.15	15.08
24.0-25.0	1833.7	83.4	1142.5	1.19	16.27
25.0-26.0	1816.3	85.7	1228.3	1.22	17.49
26.0-27.0	1797.5	88.0	1316.2	1.25	18.74
27.0-28.0	1778.2	90.0	1406.3	1.28	20.02
28.0-29.0	1759.1	92.0	1498.3	1.31	21.33
29.0-30.0	1738.7	93.9	1592.2	1.34	22.67
30.0-31.0	1717.7	95.6	1687.8	1.36	24.03
31.0-32.0	1696.1	97.2	1785.0	1.38	25.41
32.0-33.0	1674.0	98.6	1883.6	1.40	26.82
33.0-34.0	1652.2	100.0	1983.6	1.42	28.24
34.0-35.0	1629.0	101.2	2084.8	1.44	29.68
35.0-36.0	1605.4	102.2	2187.0	1.46	31.14

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: 9.010 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	1581.9	103.2	2290.2	1.47	32.61
37.0-38.0	1557.5	104.0	2394.2	1.48	34.09
38.0-39.0	1533.1	104.7	2498.8	1.49	35.58
39.0-40.0	1507.9	105.2	2604.0	1.50	37.07
40.0-41.0	1482.3	105.6	2709.6	1.50	38.58
41.0-42.0	1457.6	105.9	2815.5	1.51	40.08
42.0-43.0	1431.6	106.1	2921.6	1.51	41.59
43.0-44.0	1405.2	106.1	3027.6	1.51	43.10
44.0-45.0	1379.0	106.0	3133.6	1.51	44.61
45.0-46.0	1352.1	105.8	3239.4	1.51	46.12
46.0-47.0	1325.5	105.4	3344.8	1.50	47.62
47.0-48.0	1298.1	105.0	3449.8	1.49	49.11
48.0-49.0	1270.6	104.4	3554.1	1.49	50.60
49.0-50.0	1244.1	103.7	3657.9	1.48	52.08
50.0-51.0	1216.2	102.9	3760.8	1.47	53.54
51.0-52.0	1188.3	102.0	3862.8	1.45	54.99
52.0-53.0	1160.7	101.0	3963.7	1.44	56.43
53.0-54.0	1132.6	99.8	4063.6	1.42	57.85
54.0-55.0	1105.2	98.7	4162.3	1.40	59.26
55.0-56.0	1076.9	97.3	4259.6	1.39	60.64
56.0-57.0	1048.7	95.9	4355.5	1.37	62.01
57.0-58.0	1021.4	94.5	4450.0	1.34	63.35
58.0-59.0	993.0	92.8	4542.8	1.32	64.68
59.0-60.0	964.9	91.2	4634.0	1.30	65.97
60.0-61.0	936.8	89.4	4723.4	1.27	67.25
61.0-62.0	908.8	87.6	4811.0	1.25	68.49
62.0-63.0	882.1	85.8	4896.8	1.22	69.71
63.0-64.0	854.4	83.9	4980.6	1.19	70.91
64.0-65.0	827.0	81.9	5062.5	1.17	72.07
65.0-66.0	800.9	79.9	5142.4	1.14	73.21
66.0-67.0	773.8	77.8	5220.2	1.11	74.32
67.0-68.0	747.1	75.7	5295.9	1.08	75.40
68.0-69.0	720.5	73.5	5369.4	1.05	76.44
69.0-70.0	694.3	71.3	5440.7	1.02	77.46
70.0-71.0	669.5	69.2	5509.9	0.99	78.44
71.0-72.0	643.8	67.0	5576.9	0.95	79.40

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: 9.010 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	618.6	64.7	5641.6	0.92	80.32
73.0-74.0	594.8	62.5	5704.1	0.89	81.21
74.0-75.0	570.4	60.3	5764.4	0.86	82.07
75.0-76.0	546.5	58.0	5822.4	0.83	82.89
76.0-77.0	523.1	55.8	5878.2	0.79	83.69
77.0-78.0	500.0	53.5	5931.7	0.76	84.45
78.0-79.0	478.6	51.4	5983.2	0.73	85.18
79.0-80.0	456.8	49.3	6032.4	0.70	85.88
80.0-81.0	435.5	47.1	6079.5	0.67	86.55
81.0-82.0	415.4	45.0	6124.6	0.64	87.20
82.0-83.0	395.6	43.0	6167.6	0.61	87.81
83.0-84.0	377.0	41.1	6208.7	0.58	88.39
84.0-85.0	358.5	39.1	6247.8	0.56	88.95
85.0-86.0	340.9	37.3	6285.1	0.53	89.48
86.0-87.0	325.0	35.6	6320.6	0.51	89.99
87.0-88.0	309.2	33.9	6354.5	0.48	90.47
88.0-89.0	294.4	32.3	6386.8	0.46	90.93
89.0-90.0	280.8	30.8	6417.6	0.44	91.37
90.0-91.0	267.8	29.4	6446.9	0.42	91.78
91.0-92.0	255.9	28.1	6475.0	0.40	92.18
92.0-93.0	244.4	26.8	6501.8	0.38	92.57
93.0-94.0	233.4	25.5	6527.3	0.36	92.93
94.0-95.0	223.2	24.4	6551.7	0.35	93.28
95.0-96.0	213.1	23.3	6575.0	0.33	93.61
96.0-97.0	203.3	22.1	6597.1	0.32	93.92
97.0-98.0	194.2	21.1	6618.2	0.30	94.22
98.0-99.0	185.1	20.1	6638.3	0.29	94.51
99.0-100.0	176.7	19.1	6657.4	0.27	94.78
100.0-101.0	168.6	18.2	6675.6	0.26	95.04
101.0-102.0	161.0	17.3	6692.9	0.25	95.29
102.0-103.0	154.1	16.5	6709.4	0.23	95.52
103.0-104.0	147.1	15.7	6725.1	0.22	95.74
104.0-105.0	140.3	14.9	6740.0	0.21	95.96
105.0-106.0	133.9	14.2	6754.1	0.20	96.16
106.0-107.0	127.8	13.4	6767.6	0.19	96.35
107.0-108.0	122.0	12.8	6780.4	0.18	96.53

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: 9.010 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	116.2	12.1	6792.4	0.17	96.70
109.0-110.0	110.8	11.5	6803.9	0.16	96.87
110.0-111.0	105.8	10.9	6814.8	0.15	97.02
111.0-112.0	100.8	10.3	6825.0	0.15	97.17
112.0-113.0	96.3	9.8	6834.8	0.14	97.31
113.0-114.0	92.0	9.3	6844.1	0.13	97.44
114.0-115.0	88.1	8.8	6852.8	0.13	97.56
115.0-116.0	84.7	8.4	6861.2	0.12	97.68
116.0-117.0	81.0	8.0	6869.2	0.11	97.80
117.0-118.0	77.4	7.5	6876.7	0.11	97.90
118.0-119.0	74.0	7.1	6883.8	0.10	98.00
119.0-120.0	70.8	6.8	6890.6	0.10	98.10
120.0-121.0	67.9	6.4	6897.0	0.09	98.19
121.0-122.0	65.3	6.1	6903.1	0.09	98.28
122.0-123.0	62.8	5.8	6908.9	0.08	98.36
123.0-124.0	60.6	5.5	6914.5	0.08	98.44
124.0-125.0	58.5	5.3	6919.8	0.08	98.52
125.0-126.0	56.5	5.0	6924.8	0.07	98.59
126.0-127.0	54.7	4.8	6929.6	0.07	98.66
127.0-128.0	52.9	4.6	6934.2	0.07	98.72
128.0-129.0	51.3	4.4	6938.6	0.06	98.78
129.0-130.0	49.8	4.2	6942.8	0.06	98.84
130.0-131.0	48.4	4.0	6946.9	0.06	98.90
131.0-132.0	47.1	3.9	6950.7	0.06	98.96
132.0-133.0	45.8	3.7	6954.4	0.05	99.01
133.0-134.0	44.5	3.5	6958.0	0.05	99.06
134.0-135.0	43.3	3.4	6961.4	0.05	99.11
135.0-136.0	42.3	3.2	6964.6	0.05	99.15
136.0-137.0	41.3	3.1	6967.7	0.04	99.20
137.0-138.0	40.4	3.0	6970.7	0.04	99.24
138.0-139.0	39.5	2.9	6973.6	0.04	99.28
139.0-140.0	38.8	2.8	6976.4	0.04	99.32
140.0-141.0	38.0	2.7	6979.0	0.04	99.36
141.0-142.0	37.3	2.5	6981.6	0.04	99.40
142.0-143.0	36.7	2.5	6984.0	0.03	99.43
143.0-144.0	36.2	2.4	6986.4	0.03	99.46

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: 9.010 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	35.6	2.3	6988.6	0.03	99.50
145.0-146.0	35.1	2.2	6990.8	0.03	99.53
146.0-147.0	34.6	2.1	6992.9	0.03	99.56
147.0-148.0	34.2	2.0	6994.9	0.03	99.59
148.0-149.0	33.6	1.9	6996.9	0.03	99.61
149.0-150.0	33.2	1.8	6998.7	0.03	99.64
150.0-151.0	32.8	1.8	7000.5	0.03	99.67
151.0-152.0	32.4	1.7	7002.2	0.02	99.69
152.0-153.0	32.0	1.6	7003.8	0.02	99.71
153.0-154.0	31.6	1.5	7005.3	0.02	99.73
154.0-155.0	31.2	1.5	7006.8	0.02	99.76
155.0-156.0	30.9	1.4	7008.2	0.02	99.78
156.0-157.0	30.5	1.3	7009.6	0.02	99.79
157.0-158.0	30.2	1.3	7010.8	0.02	99.81
158.0-159.0	29.9	1.2	7012.0	0.02	99.83
159.0-160.0	29.6	1.1	7013.2	0.02	99.85
160.0-161.0	29.4	1.1	7014.2	0.02	99.86
161.0-162.0	29.1	1.0	7015.3	0.01	99.88
162.0-163.0	28.9	1.0	7016.2	0.01	99.89
163.0-164.0	28.7	0.9	7017.1	0.01	99.90
164.0-165.0	28.5	0.8	7017.9	0.01	99.91
165.0-166.0	28.4	0.8	7018.7	0.01	99.92
166.0-167.0	28.3	0.7	7019.4	0.01	99.94
167.0-168.0	28.2	0.7	7020.1	0.01	99.94
168.0-169.0	28.2	0.6	7020.7	0.01	99.95
169.0-170.0	28.2	0.6	7021.3	0.01	99.96
170.0-171.0	28.2	0.5	7021.8	0.01	99.97
171.0-172.0	28.2	0.5	7022.3	0.01	99.98
172.0-173.0	28.3	0.4	7022.7	0.01	99.98
173.0-174.0	28.4	0.4	7023.0	0.01	99.99
174.0-175.0	28.4	0.3	7023.3	0.00	99.99
175.0-176.0	28.5	0.2	7023.6	0.00	99.99
176.0-177.0	28.6	0.2	7023.8	0.00	100.00
177.0-178.0	28.6	0.1	7023.9	0.00	100.00
178.0-179.0	28.6	0.1	7024.0	0.00	100.00
179.0-180.0	28.7	0.0	7024.0	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: 9.010 m

Humidity:

Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 3133.63 lm

%lum = 44.6%

%lamp = 44.6%

cone flux(120°): 4633.96 lm

%lum = 66.0%

%lamp = 66.0%

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	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6
G1.0	2058.1	2057.9	2057.3	2056.8	2056.6	2056.6	2056.5	2056.6	2057.0	2057.3
G2.0	2058.0	2057.4	2056.2	2055.1	2054.8	2054.9	2054.9	2055.1	2055.5	2056.0
G3.0	2057.4	2056.2	2054.1	2052.5	2051.8	2052.3	2052.7	2052.6	2053.0	2053.9
G4.0	2055.9	2054.4	2051.3	2048.8	2048.1	2049.1	2049.7	2049.8	2050.1	2050.9
G5.0	2053.9	2052.1	2048.1	2044.5	2043.7	2045.7	2046.7	2046.4	2046.3	2047.3
G6.0	2051.3	2048.5	2043.3	2038.7	2038.0	2040.8	2042.5	2042.2	2041.1	2042.1
G7.0	2048.3	2045.0	2038.5	2032.9	2032.2	2036.1	2038.0	2037.3	2035.8	2036.6
G8.0	2044.7	2040.3	2032.2	2025.6	2025.2	2030.4	2032.6	2031.7	2029.0	2029.4
G9.0	2040.0	2035.0	2025.3	2017.1	2017.0	2024.1	2026.9	2025.9	2021.7	2022.0
G10.0	2035.1	2029.1	2017.7	2008.0	2008.9	2017.4	2021.0	2019.2	2014.1	2013.4
G11.0	2029.3	2022.4	2008.3	1997.6	1998.3	2009.4	2014.0	2011.6	2005.0	2003.5
G12.0	2023.4	2015.4	1999.5	1986.7	1988.6	2001.3	2007.0	2004.0	1995.4	1993.6
G13.0	2016.9	2007.7	1989.0	1975.3	1977.3	1992.6	1999.4	1995.5	1985.3	1982.2
G14.0	2009.4	1998.8	1977.5	1962.0	1964.8	1982.4	1990.5	1985.9	1973.7	1969.5
G15.0	2001.5	1989.8	1965.8	1948.6	1952.2	1972.5	1981.8	1976.0	1961.2	1957.1
G16.0	1992.7	1979.5	1952.7	1933.5	1938.1	1961.0	1971.8	1964.9	1948.1	1941.7
G17.0	1983.9	1969.0	1939.4	1918.2	1923.7	1949.5	1961.5	1954.3	1934.6	1927.7
G18.0	1974.8	1958.5	1925.9	1903.0	1909.5	1938.3	1951.8	1943.1	1920.9	1912.7
G19.0	1964.3	1945.5	1909.6	1884.4	1892.7	1925.1	1940.2	1929.5	1905.2	1894.8
G20.0	1953.6	1933.6	1894.6	1867.5	1876.3	1911.6	1928.7	1917.1	1889.6	1878.4
G21.0	1942.7	1921.4	1879.2	1849.0	1860.0	1898.4	1917.1	1903.6	1874.0	1860.5
G22.0	1929.6	1906.0	1860.5	1829.0	1841.3	1883.4	1903.5	1888.9	1855.8	1840.9
G23.0	1917.7	1892.2	1843.5	1810.0	1822.6	1868.3	1891.1	1874.5	1838.0	1821.2
G24.0	1904.0	1876.1	1824.2	1787.3	1802.3	1851.9	1876.9	1857.9	1819.0	1800.2
G25.0	1890.6	1861.2	1805.1	1767.1	1782.4	1835.9	1863.5	1842.7	1800.7	1780.1
G26.0	1876.5	1844.9	1786.2	1745.0	1763.1	1819.9	1848.9	1826.1	1780.9	1758.4
G27.0	1861.1	1827.8	1764.2	1721.4	1740.1	1801.1	1833.0	1808.3	1759.7	1735.1
G28.0	1846.3	1810.9	1744.0	1699.1	1719.3	1784.2	1817.6	1791.6	1738.7	1713.3
G29.0	1831.3	1792.9	1722.5	1675.2	1698.2	1765.7	1802.3	1773.6	1718.2	1689.8
G30.0	1813.4	1773.8	1699.2	1649.7	1673.3	1746.1	1785.3	1754.2	1695.3	1664.5
G31.0	1797.4	1754.6	1677.6	1624.7	1650.8	1727.8	1768.3	1736.3	1672.7	1641.2
G32.0	1778.6	1734.5	1652.3	1597.7	1624.9	1706.1	1750.2	1714.8	1648.7	1613.7
G33.0	1761.5	1715.5	1629.7	1573.0	1601.7	1687.0	1732.3	1695.1	1625.2	1589.0
G34.0	1743.1	1695.1	1605.4	1546.6	1578.2	1666.5	1714.1	1675.8	1601.0	1562.9
G35.0	1723.7	1672.1	1579.3	1518.3	1550.6	1644.4	1694.6	1653.0	1575.3	1533.6
G36.0	1704.4	1651.8	1554.3	1491.0	1524.9	1623.1	1676.3	1632.6	1551.5	1507.5

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: 9.010 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	1685.7	1631.0	1529.9	1463.1	1500.1	1602.5	1655.0	1609.1	1523.6	1478.7
G38.0	1663.8	1606.5	1501.1	1433.6	1471.0	1578.1	1636.1	1588.1	1498.9	1450.9
G39.0	1644.2	1585.0	1476.1	1405.3	1445.4	1556.5	1615.9	1565.7	1473.0	1423.8
G40.0	1621.2	1559.6	1446.7	1375.0	1415.8	1531.2	1594.2	1542.1	1445.3	1392.5
G41.0	1600.9	1537.2	1420.8	1346.0	1389.8	1509.2	1573.3	1519.9	1418.6	1364.9
G42.0	1579.4	1513.6	1393.3	1318.0	1362.3	1485.7	1552.7	1496.5	1393.0	1335.9
G43.0	1556.5	1488.2	1364.5	1286.1	1333.2	1460.8	1530.0	1471.9	1364.5	1305.0
G44.0	1534.1	1463.8	1336.6	1257.6	1305.2	1436.7	1507.8	1449.0	1336.8	1276.8
G45.0	1511.2	1439.5	1309.8	1227.7	1278.4	1413.7	1484.1	1422.8	1308.1	1244.1
G46.0	1487.0	1413.4	1278.8	1195.8	1247.5	1387.0	1461.9	1399.7	1281.5	1215.6
G47.0	1464.6	1388.2	1251.5	1166.7	1220.2	1363.6	1439.7	1374.8	1253.6	1185.2
G48.0	1438.6	1362.0	1220.3	1133.5	1188.9	1336.3	1414.2	1349.0	1224.2	1153.6
G49.0	1415.8	1337.4	1192.9	1104.3	1161.4	1312.3	1392.1	1324.2	1196.1	1123.1
G50.0	1391.7	1311.7	1163.8	1073.5	1132.5	1287.1	1368.5	1300.3	1168.9	1093.9
G51.0	1366.1	1283.8	1133.7	1039.9	1102.4	1260.9	1343.2	1272.6	1138.0	1060.3
G52.0	1341.6	1259.0	1104.9	1010.5	1073.5	1235.4	1320.1	1248.5	1110.8	1031.0
G53.0	1316.9	1233.1	1075.9	979.5	1044.6	1210.0	1293.5	1220.3	1079.6	998.5
G54.0	1290.8	1206.0	1045.8	947.3	1014.2	1183.4	1270.3	1196.3	1052.5	967.6
G55.0	1266.5	1179.6	1016.5	916.2	986.7	1158.6	1245.5	1171.8	1025.2	937.9
G56.0	1239.2	1152.3	986.2	883.5	954.9	1130.5	1219.8	1143.9	994.0	904.2
G57.0	1214.9	1127.4	958.9	852.6	927.6	1105.0	1194.8	1119.4	965.8	874.6
G58.0	1188.3	1099.7	928.7	821.2	897.3	1080.6	1170.9	1093.8	939.0	843.6
G59.0	1161.6	1072.7	898.9	788.9	867.3	1052.5	1143.7	1066.9	908.3	811.1
G60.0	1136.1	1046.6	870.4	758.1	839.0	1027.0	1119.7	1041.3	881.6	780.3
G61.0	1109.6	1018.1	841.0	724.2	809.4	1000.4	1093.4	1014.8	852.5	747.9
G62.0	1084.3	993.7	813.0	694.7	781.4	975.1	1068.5	989.2	824.8	716.9
G63.0	1058.8	967.7	785.4	664.0	754.8	949.7	1043.1	965.0	798.6	687.5
G64.0	1032.1	940.9	756.5	631.7	724.8	923.2	1017.0	938.7	769.1	654.0
G65.0	1006.8	915.6	729.5	601.2	697.5	899.4	993.4	913.6	743.6	624.9
G66.0	982.9	891.4	703.7	570.6	671.6	874.6	968.5	889.8	717.0	595.8
G67.0	956.7	864.1	674.8	538.9	642.5	847.8	942.7	863.1	689.5	562.7
G68.0	931.9	840.6	649.8	509.9	617.3	824.6	919.2	839.9	663.5	533.8
G69.0	905.0	813.7	621.9	477.6	589.2	798.3	892.5	813.5	636.7	502.5
G70.0	881.7	789.8	598.0	447.9	564.7	775.6	869.5	790.3	612.4	472.7
G71.0	857.4	767.0	573.2	420.1	539.8	752.0	845.6	768.0	587.5	444.4
G72.0	831.3	741.2	546.6	388.4	513.9	727.9	820.7	742.2	562.0	412.5
G73.0	808.9	719.1	523.7	360.8	489.6	704.9	797.1	720.3	538.0	384.9

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: 9.010 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	785.2	696.5	500.4	332.5	467.0	683.3	775.2	697.6	515.6	356.4
G75.0	761.0	672.8	476.6	303.5	441.9	659.0	750.3	674.2	490.5	327.1
G76.0	739.3	650.7	454.5	276.3	420.2	638.2	728.8	652.4	469.0	299.8
G77.0	714.8	628.3	432.0	248.7	396.4	614.8	704.6	629.7	445.1	271.7
G78.0	692.9	606.9	411.0	223.0	375.2	593.8	683.4	608.4	424.7	245.4
G79.0	672.2	586.2	391.4	199.2	355.6	574.2	661.8	588.6	404.1	221.1
G80.0	649.1	565.0	370.3	173.2	334.0	552.1	639.8	566.1	382.8	194.2
G81.0	629.2	545.0	352.2	150.4	315.5	533.2	618.9	546.1	363.2	171.5
G82.0	608.7	526.4	333.6	130.0	297.0	513.8	597.5	525.8	343.5	147.3
G83.0	587.6	506.7	315.0	108.4	278.4	494.0	577.7	507.5	326.1	127.1
G84.0	568.1	487.9	298.2	90.8	261.5	475.4	559.0	488.8	309.0	107.9
G85.0	548.2	468.6	280.2	73.0	244.4	456.5	538.3	469.0	290.5	88.5
G86.0	529.5	451.8	265.5	59.2	228.9	439.0	520.6	452.1	275.0	73.4
G87.0	512.2	434.6	251.3	47.1	215.1	422.9	502.5	434.7	259.6	59.5
G88.0	492.8	417.5	236.2	37.0	199.9	404.7	483.7	417.3	244.1	47.3
G89.0	476.2	401.3	223.2	30.2	187.6	389.3	466.4	401.5	230.1	39.0
G90.0	459.3	386.3	210.4	26.4	175.1	373.6	448.5	384.2	216.1	33.6
G91.0	442.2	369.7	197.7	24.4	163.1	357.4	432.0	369.4	204.0	31.5
G92.0	426.1	355.6	186.0	23.7	152.1	342.6	416.8	354.3	192.1	30.6
G93.0	409.8	340.3	174.3	23.5	141.3	327.6	399.9	339.3	179.7	30.5
G94.0	394.6	326.3	164.0	23.4	131.8	313.8	385.4	325.2	169.2	30.7
G95.0	380.7	312.9	154.2	23.4	123.6	301.0	370.8	312.3	158.7	30.8
G96.0	365.1	299.1	144.5	23.4	114.5	286.8	355.8	297.9	148.2	30.9
G97.0	351.7	286.6	136.0	23.4	107.3	274.9	341.9	285.3	138.7	31.1
G98.0	338.3	275.0	128.1	23.4	99.8	262.9	328.0	272.3	129.4	31.2
G99.0	324.1	261.9	119.7	23.4	91.1	250.2	315.0	261.1	121.1	31.3
G100.0	312.0	250.9	112.8	23.3	84.5	239.6	302.4	249.7	114.2	31.4
G101.0	299.1	239.0	105.5	23.4	78.3	227.7	289.7	237.6	108.6	31.5
G102.0	287.3	228.8	99.5	23.3	75.5	217.8	277.9	227.6	103.4	31.7
G103.0	275.8	218.8	93.6	23.4	71.1	207.9	267.1	217.5	97.8	31.8
G104.0	264.3	208.5	87.8	23.4	66.7	197.7	255.0	207.1	92.0	31.9
G105.0	253.6	199.0	82.4	23.3	62.8	188.6	245.0	197.5	87.2	32.0
G106.0	242.7	189.3	77.8	23.3	59.2	179.3	233.8	187.9	82.4	32.1
G107.0	232.9	180.9	72.7	23.2	56.0	171.1	224.1	179.1	78.3	32.2
G108.0	223.3	172.5	68.2	23.2	52.7	162.7	214.5	170.6	72.0	32.3
G109.0	213.5	164.2	63.4	23.2	49.4	154.3	205.0	162.1	67.1	32.4
G110.0	204.9	156.8	58.6	23.1	46.6	146.5	196.2	154.3	63.4	32.5

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: 9.010 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	196.3	149.5	54.6	23.1	44.3	138.3	187.6	147.1	60.8	32.5
G112.0	187.2	141.9	51.0	23.1	42.4	129.7	179.0	139.1	58.3	32.6
G113.0	179.6	135.3	48.5	23.1	41.0	122.3	171.0	132.3	56.3	32.7
G114.0	171.5	128.5	46.5	23.0	39.3	114.5	162.9	125.3	54.5	32.8
G115.0	164.0	122.6	45.0	23.0	38.9	109.8	155.6	119.0	52.8	32.8
G116.0	157.2	116.7	43.6	22.9	38.1	104.5	148.8	112.8	51.3	32.9
G117.0	149.8	110.7	42.3	22.9	36.9	97.3	141.4	106.0	50.0	32.8
G118.0	143.0	104.5	41.3	22.8	36.0	90.9	134.8	99.7	48.9	32.9
G119.0	136.9	98.1	40.1	22.8	35.2	86.5	129.0	94.1	47.8	32.9
G120.0	130.4	91.5	38.9	22.8	34.5	82.4	122.3	89.3	46.8	33.0
G121.0	124.6	86.9	38.4	22.6	34.0	78.7	116.9	84.7	46.0	33.0
G122.0	118.7	82.4	37.1	22.6	33.4	75.9	109.8	80.0	45.1	32.9
G123.0	113.3	78.4	36.1	22.6	32.9	72.9	104.8	76.7	44.3	33.0
G124.0	108.0	75.8	35.1	22.5	32.4	69.6	100.1	73.3	43.6	33.0
G125.0	103.1	72.6	34.1	22.3	32.0	66.5	95.1	69.8	42.8	33.0
G126.0	98.7	69.9	33.2	22.1	31.5	63.9	90.7	67.2	42.2	33.0
G127.0	94.8	67.4	32.4	21.9	31.1	61.5	86.4	64.7	41.6	32.9
G128.0	90.5	64.7	31.6	21.7	30.6	58.9	82.3	63.2	41.0	32.9
G129.0	86.9	62.5	31.2	21.4	30.3	56.8	78.5	61.4	40.6	32.9
G130.0	83.0	60.1	30.8	21.3	30.0	54.6	75.3	59.3	40.1	32.5
G131.0	79.7	58.1	30.6	21.1	29.7	52.8	71.8	57.5	39.2	31.9
G132.0	76.9	56.2	30.3	20.9	29.2	51.0	68.9	55.7	38.9	31.0
G133.0	73.5	54.2	30.0	21.0	28.8	49.3	65.8	53.9	38.9	30.1
G134.0	70.7	52.4	29.6	21.1	28.5	47.8	63.1	52.4	38.0	29.2
G135.0	68.0	50.8	29.2	21.2	28.2	46.5	60.5	50.9	37.7	28.5
G136.0	65.3	49.1	29.0	21.4	27.8	45.2	58.2	49.5	37.2	28.1
G137.0	62.9	47.7	28.7	21.6	27.5	44.1	56.1	48.2	36.5	28.1
G138.0	60.5	46.5	28.4	21.8	27.1	43.0	54.0	47.0	36.0	28.1
G139.0	58.4	45.3	28.2	21.9	27.0	42.0	52.2	46.0	35.5	28.2
G140.0	56.4	44.2	28.0	22.1	26.8	41.1	50.5	44.9	35.2	28.3
G141.0	54.4	43.1	27.9	22.1	26.6	40.1	48.9	43.7	34.8	28.3
G142.0	52.6	42.1	27.9	22.3	26.4	38.9	47.4	43.0	34.6	28.4
G143.0	51.0	41.2	27.8	22.6	26.3	38.9	46.0	42.0	34.3	28.4
G144.0	49.4	40.3	27.7	22.9	26.3	38.9	44.8	41.2	34.0	28.4
G145.0	47.9	39.0	27.7	23.2	26.3	37.7	43.7	40.2	33.7	28.5
G146.0	46.4	39.1	27.6	23.4	26.2	37.1	42.6	39.1	33.3	28.6
G147.0	45.2	38.1	27.6	23.7	26.3	36.3	41.6	39.0	32.9	28.7

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: 9.010 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	43.8	37.4	27.5	24.0	26.2	35.7	40.6	38.2	32.7	28.7
G149.0	42.5	36.7	27.5	24.2	26.2	35.0	39.2	37.3	32.3	28.7
G150.0	41.5	36.1	27.4	24.5	26.2	34.2	39.0	36.4	32.1	28.7
G151.0	40.3	35.5	27.3	24.7	26.1	33.6	38.5	35.5	31.7	28.7
G152.0	39.0	35.0	27.2	25.0	26.1	32.9	37.5	34.8	31.4	28.8
G153.0	39.0	34.5	27.1	25.1	26.1	32.3	36.7	34.1	31.2	28.8
G154.0	38.0	33.9	26.9	25.2	26.1	31.8	35.8	33.5	30.8	28.8
G155.0	37.1	33.4	26.9	25.5	26.2	31.3	35.1	32.8	30.6	28.8
G156.0	36.3	33.0	26.7	25.8	26.2	30.8	34.3	32.2	30.3	28.8
G157.0	35.5	32.5	26.7	25.8	26.3	30.4	33.6	31.5	30.1	28.8
G158.0	34.9	32.1	26.7	26.0	26.3	30.0	32.9	30.9	29.8	28.8
G159.0	34.2	31.6	26.7	26.3	26.5	29.6	32.2	30.4	29.7	28.8
G160.0	33.5	31.2	26.8	26.4	26.6	29.3	31.6	29.9	29.5	28.8
G161.0	32.9	30.7	26.8	26.5	26.8	29.0	31.0	29.5	29.4	28.8
G162.0	32.3	30.2	26.8	26.8	26.9	28.7	30.4	29.1	29.3	28.8
G163.0	31.6	29.8	26.9	27.0	27.0	28.3	29.9	28.7	29.2	28.8
G164.0	31.0	29.4	26.9	27.1	27.1	28.1	29.4	28.4	29.1	28.7
G165.0	30.5	28.9	27.1	27.2	27.3	27.9	28.9	28.2	28.9	28.8
G166.0	29.9	28.6	27.3	27.4	27.4	27.7	28.6	28.1	28.8	28.7
G167.0	29.4	28.3	27.5	27.6	27.6	27.7	28.3	28.0	28.6	28.7
G168.0	28.9	28.2	27.6	27.8	27.7	27.7	28.2	28.1	28.6	28.7
G169.0	28.7	28.0	27.7	27.8	27.9	27.9	28.2	28.2	28.5	28.6
G170.0	28.4	27.9	27.9	27.9	28.0	28.0	28.3	28.3	28.3	28.6
G171.0	28.3	28.0	28.0	28.1	28.1	28.1	28.4	28.4	28.3	28.5
G172.0	28.3	28.1	28.2	28.2	28.2	28.1	28.6	28.4	28.2	28.4
G173.0	28.4	28.3	28.2	28.3	28.2	28.2	28.7	28.5	28.3	28.5
G174.0	28.5	28.3	28.3	28.3	28.2	28.3	28.8	28.5	28.3	28.4
G175.0	28.6	28.5	28.4	28.4	28.3	28.4	28.8	28.6	28.4	28.5
G176.0	28.8	28.6	28.4	28.5	28.4	28.4	28.9	28.7	28.4	28.6
G177.0	28.8	28.6	28.5	28.5	28.5	28.4	29.0	28.6	28.5	28.5
G178.0	28.9	28.6	28.5	28.6	28.5	28.6	28.9	28.6	28.5	28.7
G179.0	28.9	28.7	28.5	28.6	28.6	28.6	29.0	28.7	28.5	28.6
G180.0	29.0	28.7	28.6	28.6	28.6	28.6	29.1	28.7	28.6	28.7

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	2057.6	2057.6	2057.6							
G1.0	2057.7	2057.8	2058.1							
G2.0	2057.2	2057.7	2058.0							
G3.0	2055.5	2056.6	2057.4							
G4.0	2053.1	2055.0	2055.9							
G5.0	2050.1	2052.7	2053.9							
G6.0	2045.6	2049.3	2051.3							
G7.0	2041.0	2045.8	2048.3							
G8.0	2035.0	2041.2	2044.7							
G9.0	2028.3	2036.3	2040.0							
G10.0	2021.0	2030.6	2035.1							
G11.0	2012.2	2024.1	2029.3							
G12.0	2003.1	2016.9	2023.4							
G13.0	1993.4	2009.7	2016.9							
G14.0	1982.3	2000.6	2009.4							
G15.0	1970.4	1991.8	2001.5							
G16.0	1957.4	1981.5	1992.7							
G17.0	1944.1	1971.0	1983.9							
G18.0	1930.7	1960.6	1974.8							
G19.0	1915.0	1948.3	1964.3							
G20.0	1899.5	1935.9	1953.6							
G21.0	1883.9	1923.4	1942.7							
G22.0	1865.2	1908.5	1929.6							
G23.0	1848.2	1894.7	1917.7							
G24.0	1828.9	1879.2	1904.0							
G25.0	1809.6	1863.3	1890.6							
G26.0	1790.6	1847.8	1876.5							
G27.0	1769.2	1830.1	1861.1							
G28.0	1748.0	1812.8	1846.3							
G29.0	1727.4	1795.7	1831.3							
G30.0	1704.1	1776.5	1813.4							
G31.0	1681.2	1757.6	1797.4							
G32.0	1656.7	1737.2	1778.6							
G33.0	1632.9	1717.1	1761.5							
G34.0	1608.3	1696.5	1743.1							
G35.0	1582.1	1674.4	1723.7							
G36.0	1557.7	1652.8	1704.4							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1529.5	1630.1	1685.7							
G38.0	1504.3	1608.8	1663.8							
G39.0	1477.6	1585.9	1644.2							
G40.0	1449.4	1561.8	1621.2							
G41.0	1421.9	1538.3	1600.9							
G42.0	1395.5	1515.4	1579.4							
G43.0	1366.3	1490.0	1556.5							
G44.0	1338.1	1465.4	1534.1							
G45.0	1308.3	1439.4	1511.2							
G46.0	1279.5	1414.6	1487.0							
G47.0	1251.9	1390.6	1464.6							
G48.0	1220.4	1363.0	1438.6							
G49.0	1192.6	1338.6	1415.8							
G50.0	1163.3	1313.0	1391.7							
G51.0	1132.6	1285.9	1366.1							
G52.0	1104.4	1260.0	1341.6							
G53.0	1072.0	1232.5	1316.9							
G54.0	1044.1	1207.3	1290.8							
G55.0	1014.6	1181.3	1266.5							
G56.0	983.7	1153.8	1239.2							
G57.0	954.3	1127.5	1214.9							
G58.0	926.4	1102.4	1188.3							
G59.0	894.7	1074.0	1161.6							
G60.0	867.0	1048.8	1136.1							
G61.0	835.4	1020.3	1109.6							
G62.0	807.9	995.5	1084.3							
G63.0	780.8	969.3	1058.8							
G64.0	750.1	942.6	1032.1							
G65.0	723.5	918.3	1006.8							
G66.0	695.9	892.9	982.9							
G67.0	667.5	866.7	956.7							
G68.0	640.6	841.9	931.9							
G69.0	612.9	816.2	905.0							
G70.0	587.9	791.7	881.7							
G71.0	562.1	768.9	857.4							
G72.0	535.8	744.1	831.3							
G73.0	511.1	720.8	808.9							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	488.2	698.9	785.2							
G75.0	462.5	674.2	761.0							
G76.0	440.6	653.2	739.3							
G77.0	416.3	629.3	714.8							
G78.0	395.7	609.0	692.9							
G79.0	374.7	588.0	672.2							
G80.0	353.3	566.5	649.1							
G81.0	333.7	546.4	629.2							
G82.0	314.0	526.0	608.7							
G83.0	296.0	506.9	587.6							
G84.0	279.6	489.2	568.1							
G85.0	261.5	469.4	548.2							
G86.0	246.5	452.4	529.5							
G87.0	231.6	435.3	512.2							
G88.0	216.7	417.2	492.8							
G89.0	203.4	401.6	476.2							
G90.0	190.2	385.0	459.3							
G91.0	178.3	369.8	442.2							
G92.0	167.6	355.7	426.1							
G93.0	156.4	339.9	409.8							
G94.0	147.1	326.8	394.6							
G95.0	137.9	313.2	380.7							
G96.0	128.6	299.0	365.1							
G97.0	120.9	286.8	351.7							
G98.0	113.2	274.1	338.3							
G99.0	106.5	262.4	324.1							
G100.0	100.3	251.0	312.0							
G101.0	94.2	239.5	299.1							
G102.0	88.8	229.1	287.3							
G103.0	84.0	219.6	275.8							
G104.0	78.5	209.0	264.3							
G105.0	74.9	200.0	253.6							
G106.0	70.4	190.4	242.7							
G107.0	66.9	182.1	232.9							
G108.0	63.5	173.9	223.3							
G109.0	60.3	165.6	213.5							
G110.0	57.4	158.1	204.9							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	54.7	151.0	196.3							
G112.0	52.3	143.9	187.2							
G113.0	50.8	137.1	179.6							
G114.0	49.5	130.3	171.5							
G115.0	48.5	124.5	164.0							
G116.0	47.7	118.8	157.2							
G117.0	46.8	112.8	149.8							
G118.0	46.0	106.6	143.0							
G119.0	45.2	100.3	136.9							
G120.0	44.4	94.5	130.4							
G121.0	43.8	90.0	124.6							
G122.0	43.3	85.8	118.7							
G123.0	42.7	82.2	113.3							
G124.0	42.2	78.8	108.0							
G125.0	41.6	76.1	103.1							
G126.0	41.1	73.1	98.7							
G127.0	40.5	70.3	94.8							
G128.0	39.9	67.8	90.5							
G129.0	39.0	65.4	86.9							
G130.0	39.0	63.2	83.0							
G131.0	38.9	61.1	79.7							
G132.0	38.9	59.4	76.9							
G133.0	38.6	57.6	73.5							
G134.0	38.2	56.0	70.7							
G135.0	37.4	54.3	68.0							
G136.0	37.1	53.0	65.3							
G137.0	36.8	51.6	62.9							
G138.0	36.4	50.2	60.5							
G139.0	36.0	48.9	58.4							
G140.0	35.6	47.7	56.4							
G141.0	35.2	46.5	54.4							
G142.0	34.9	45.3	52.6							
G143.0	34.4	44.3	51.0							
G144.0	34.0	43.3	49.4							
G145.0	33.6	42.4	47.9							
G146.0	33.3	41.5	46.4							
G147.0	32.8	40.6	45.2							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	32.4	39.8	43.8							
G149.0	32.0	38.9	42.5							
G150.0	31.7	38.9	41.5							
G151.0	31.2	38.2	40.3							
G152.0	30.9	37.4	39.0							
G153.0	30.5	36.7	39.0							
G154.0	30.1	36.0	38.0							
G155.0	29.8	35.3	37.1							
G156.0	29.4	34.6	36.3							
G157.0	29.1	33.9	35.5							
G158.0	28.9	33.2	34.9							
G159.0	28.7	32.6	34.2							
G160.0	28.6	31.9	33.5							
G161.0	28.5	31.4	32.9							
G162.0	28.4	30.7	32.3							
G163.0	28.4	30.2	31.6							
G164.0	28.3	29.6	31.0							
G165.0	28.3	29.1	30.5							
G166.0	28.4	28.7	29.9							
G167.0	28.4	28.3	29.4							
G168.0	28.4	28.0	28.9							
G169.0	28.3	28.0	28.7							
G170.0	28.3	28.0	28.4							
G171.0	28.3	28.1	28.3							
G172.0	28.3	28.2	28.3							
G173.0	28.4	28.2	28.4							
G174.0	28.4	28.4	28.5							
G175.0	28.5	28.5	28.6							
G176.0	28.5	28.5	28.8							
G177.0	28.5	28.5	28.8							
G178.0	28.6	28.6	28.9							
G179.0	28.5	28.6	28.9							
G180.0	28.6	28.5	29.0							

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: 9.010 m

Humidity:

Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	14933.43
L 0-180(75) av	18423.36
L 0-180(85) av	39331.20
L 90-270(65) av	9153.91
L 90-270(75) av	7686.56
L 90-270(85) av	5845.75
L 45(65) av	12208.22
L 45(75) av	13871.82
L 45(85) av	26608.76

Standard: GB/T 29293-2012