

Report No.:

Test Time: 2023-04-13 15:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps: 1

Luminous Length (mm): 1213

Luminous Height (mm):

Current: 0.236 A

Power Factor: 0.996

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 303

Voltage: 119.8 V

Power: 28.23 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3758 lm

Downward Ratio: 98%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 167.5, 158.0, 165.2, 165.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.4, 107.5, 111.5, 111.8

Luminaire Efficacy Rating (LER): 133.17

Max. Intensity: 1286.67 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 3758.0 lm

Efficiency: 100%

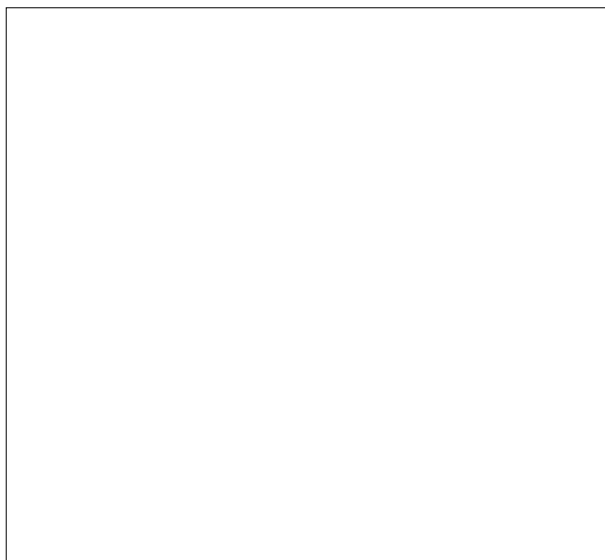
Upward Ratio: 2%

C0r0 Intensity: 1286.66 cd

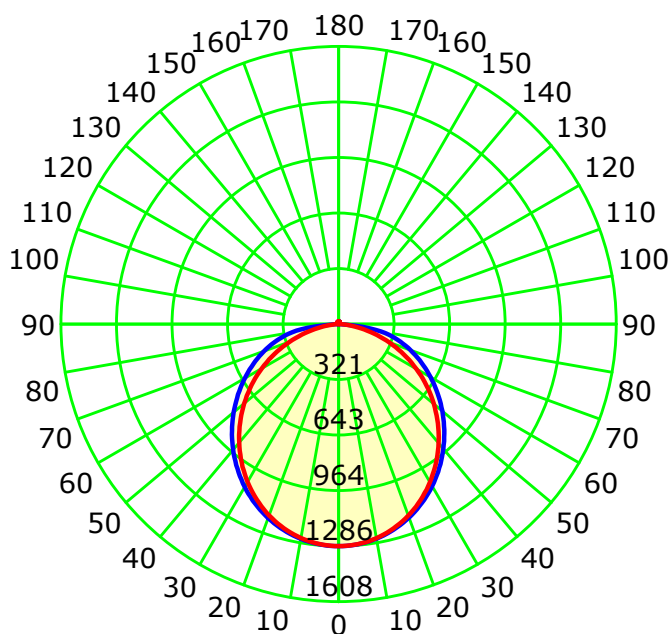
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.22

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

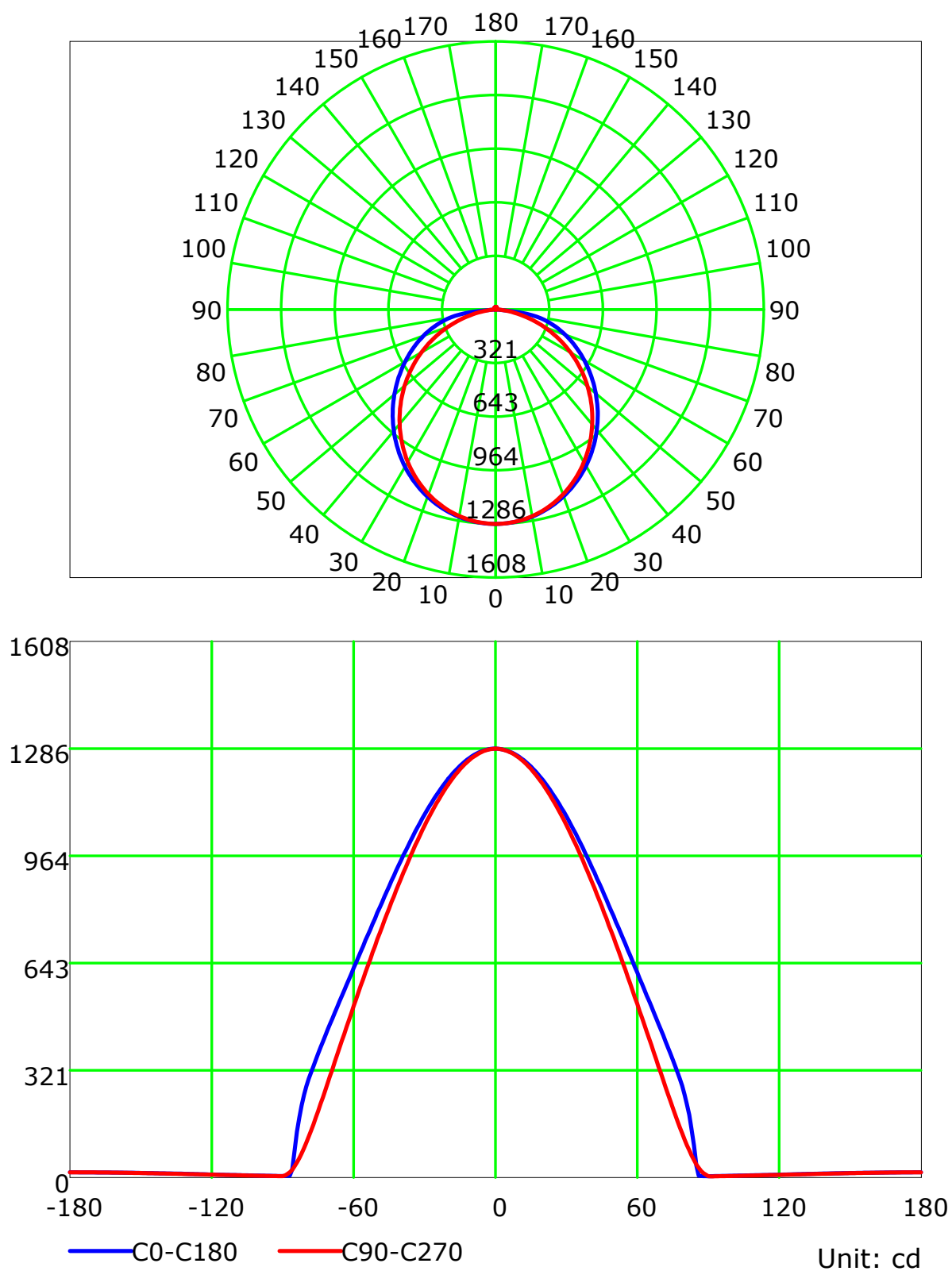
Test Device: GPM-1600L

Distance: 9.011 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

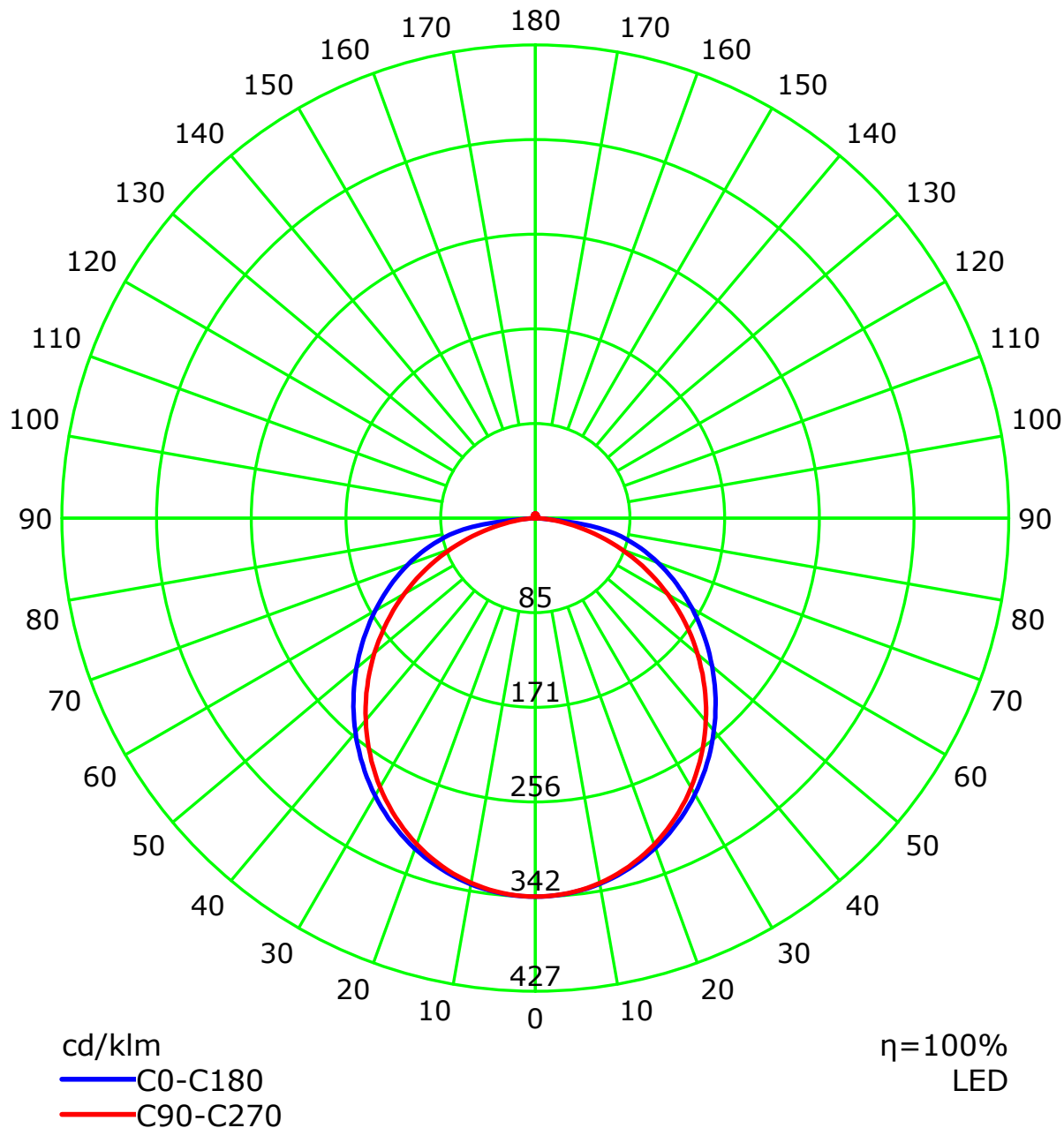
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



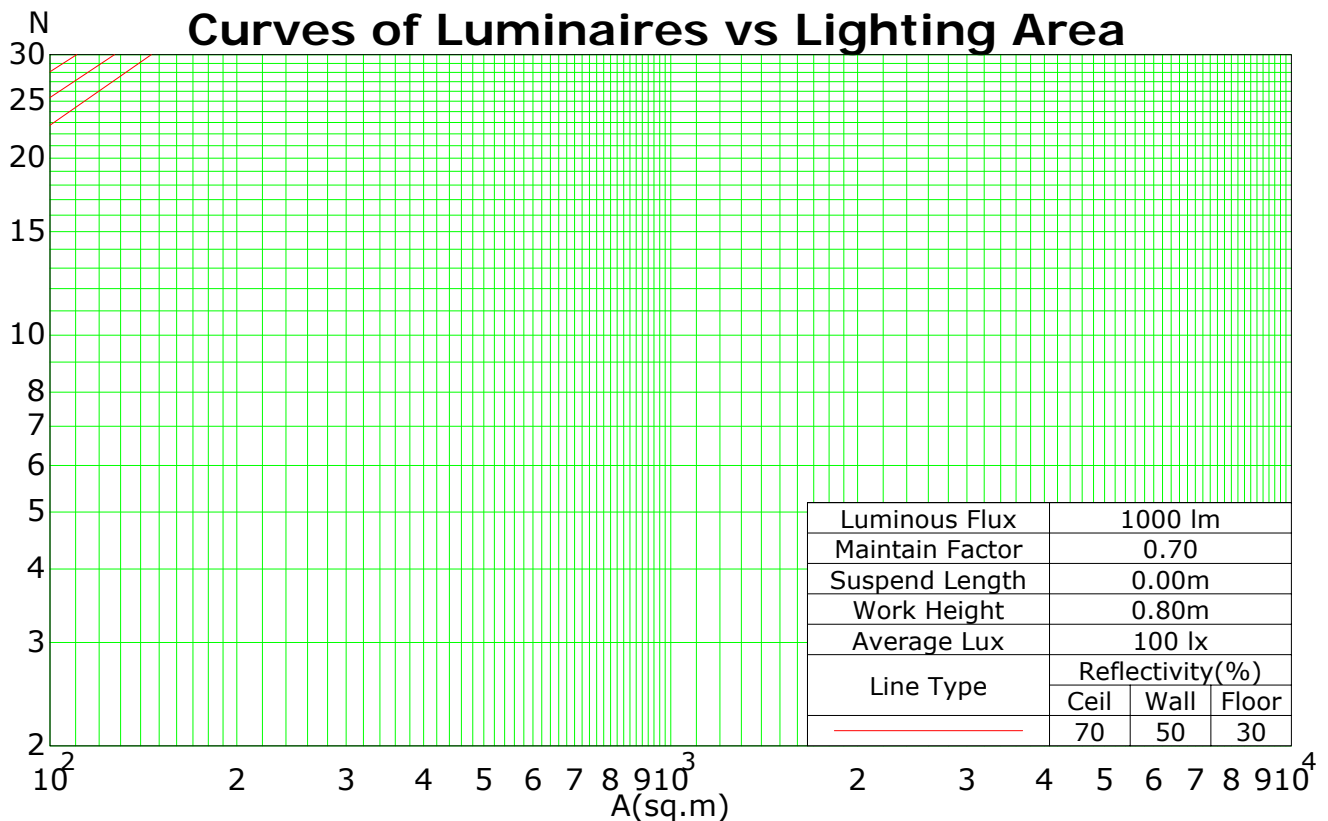
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	0.98
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	0.90	0.83	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	0.87	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	0.54	0.79	0.68	0.60	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	0.40	0.34	0.45	0.39	0.34	0.32
8	0.60	0.46	0.37	0.32	0.58	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	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	0.33	0.28	0.38	0.32	0.28	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

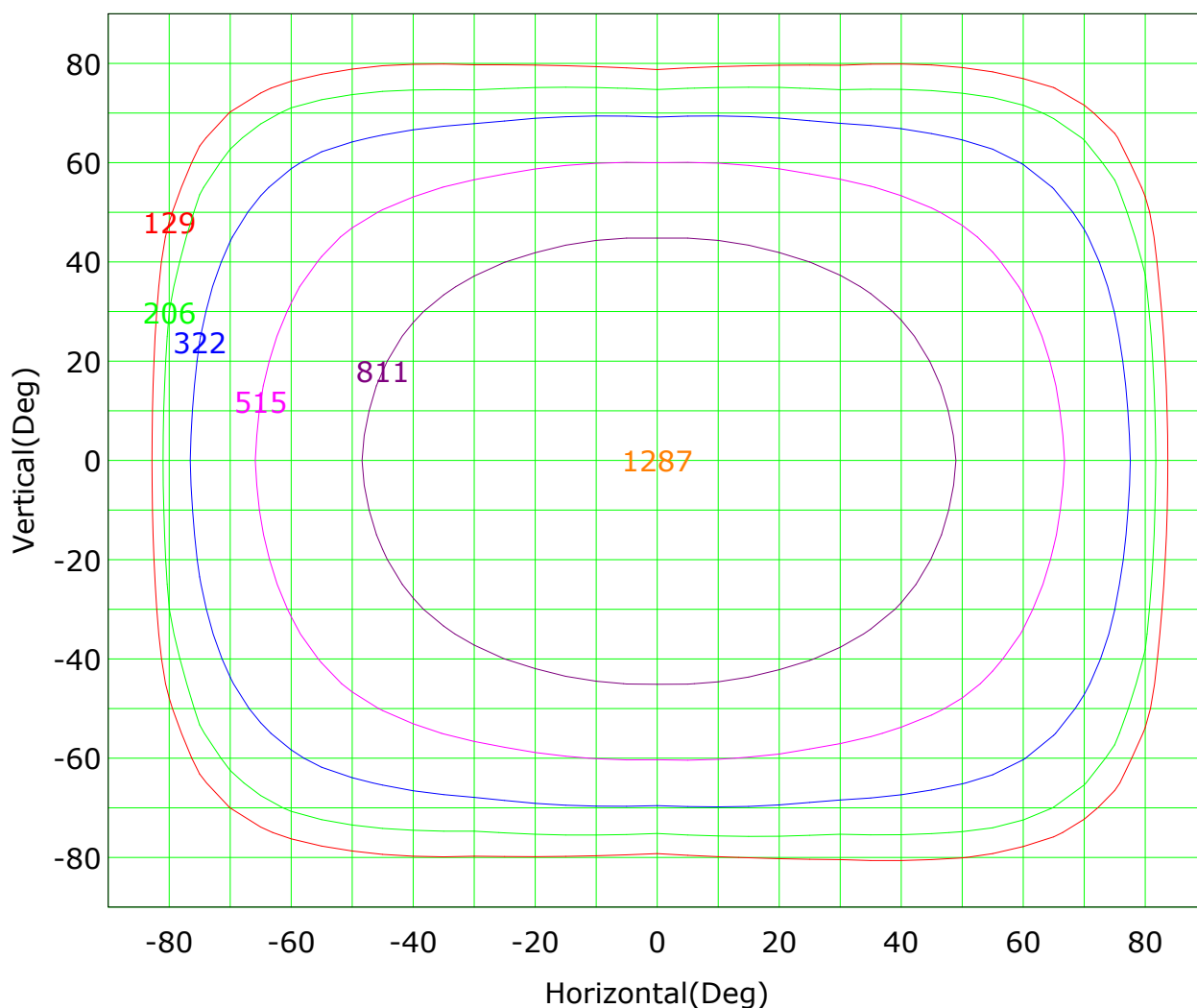
Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.22
Spacing Criteria (Diagonal): 1.36



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:

Isocandela (rectangle)



Imax (100%): 1287 cd

— (10%): 129 cd	— (16%): 206 cd
— (25%): 322 cd	— (40%): 515 cd
— (63%): 811 cd	— (100%): 1287 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

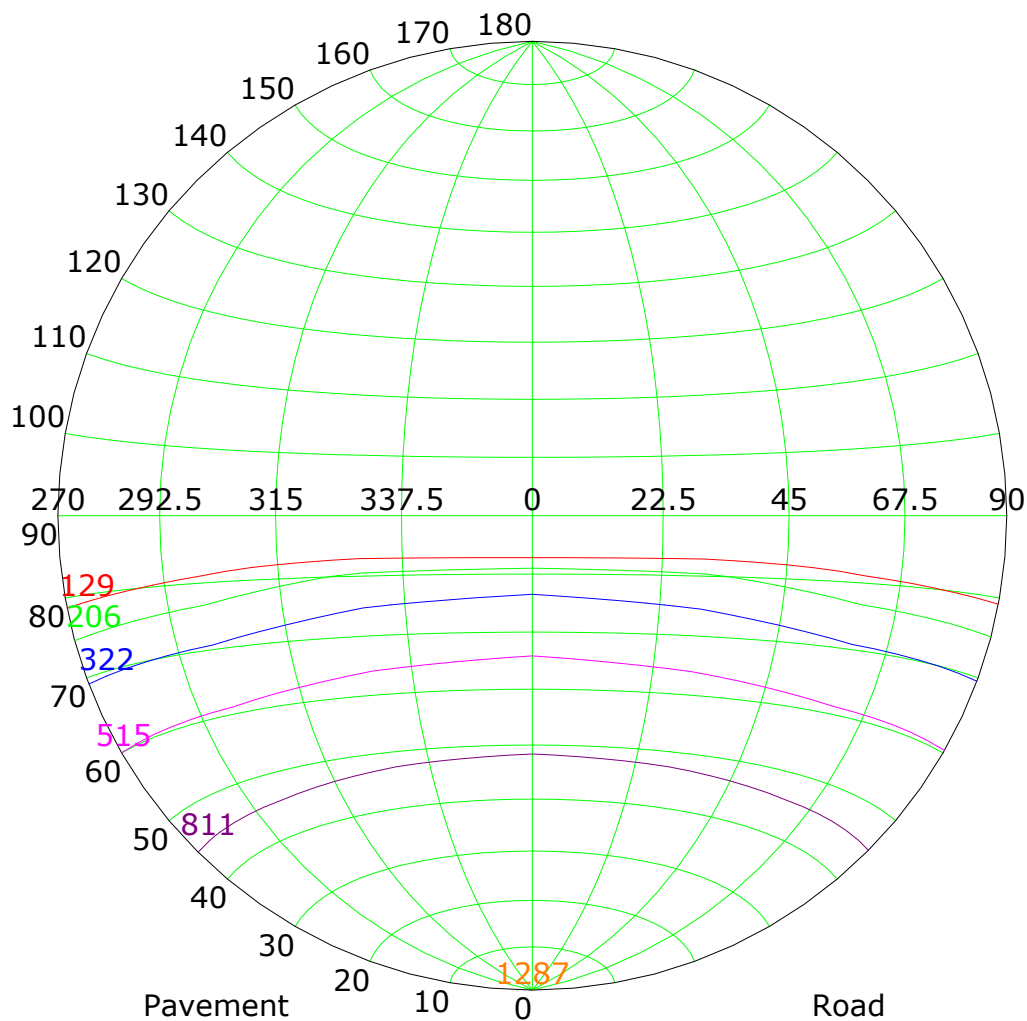
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 1287 cd

(10%): 129 cd	(16%): 206 cd
(25%): 322 cd	(40%): 515 cd
(63%): 811 cd	(100%): 1287 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

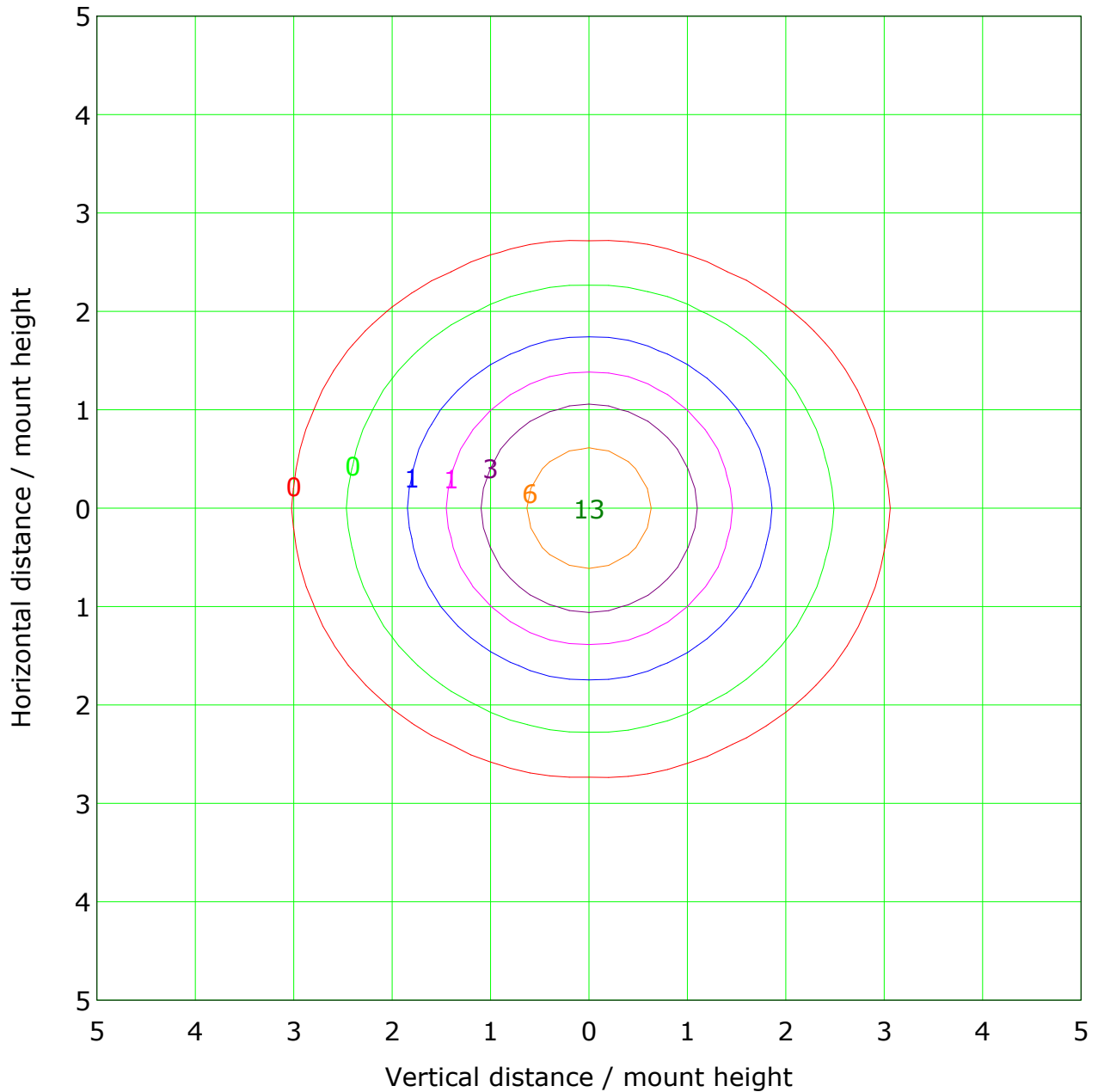
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 12.9 lx

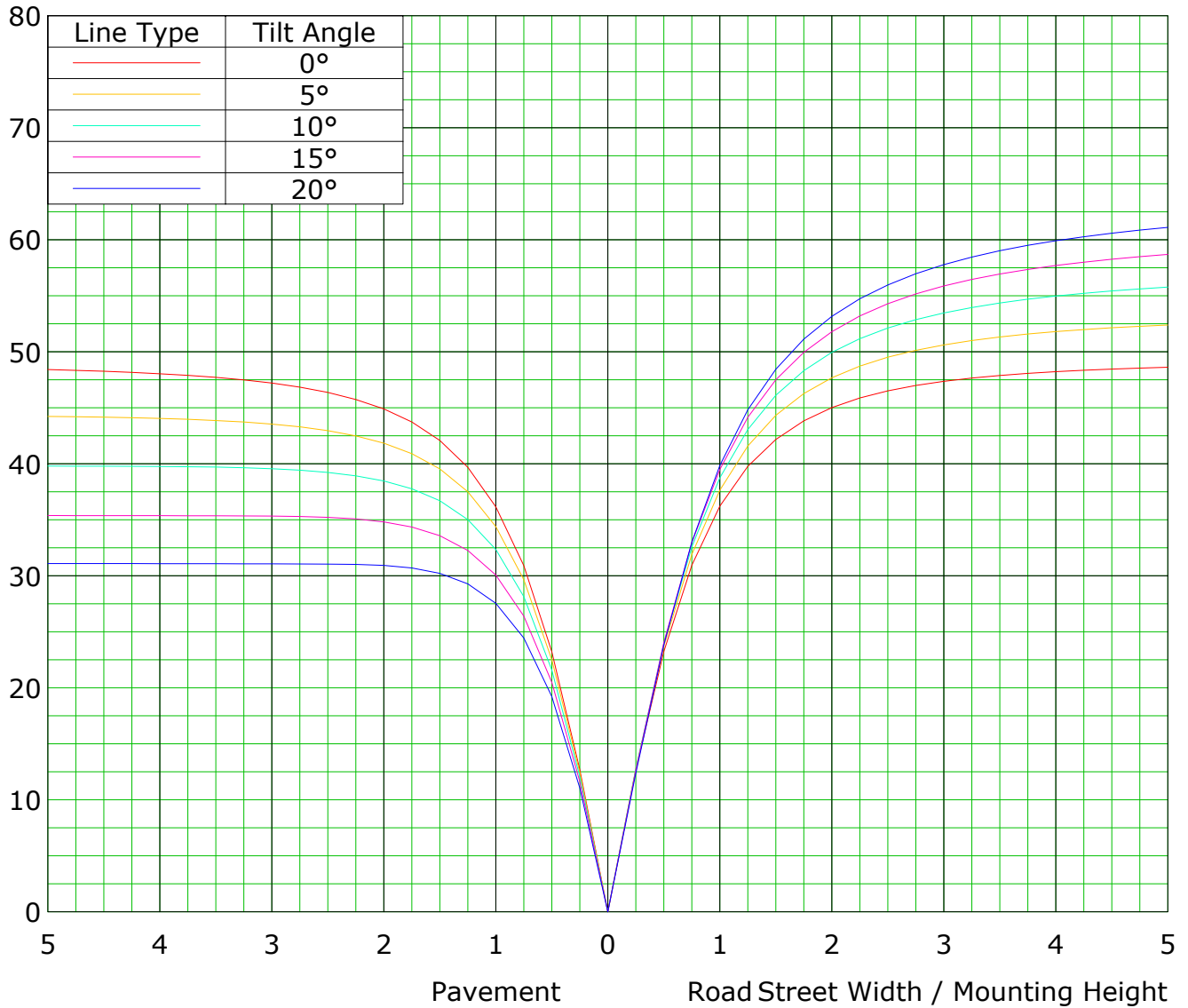
(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.6 lx	(10%): 1.3 lx
(20%): 2.6 lx	(50%): 6.4 lx
(100%): 12.9 lx	

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

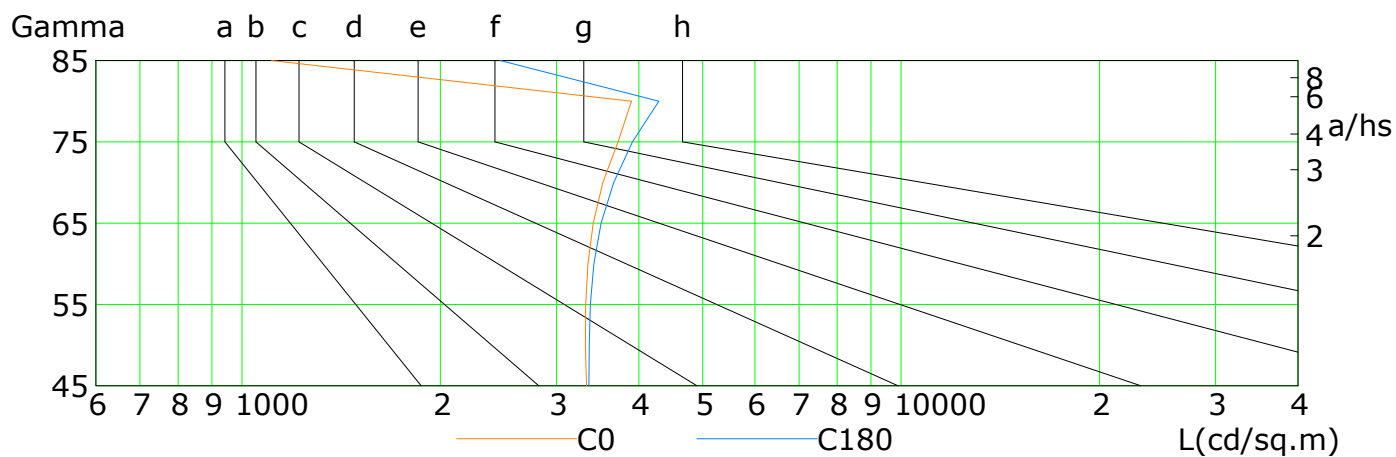
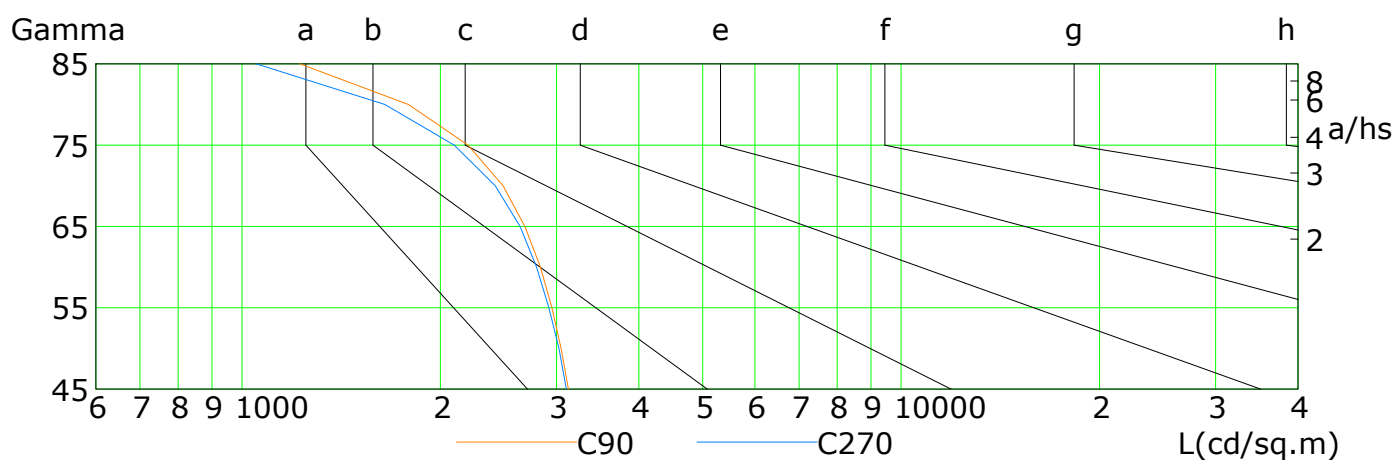
Humidity:

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	3332	3319	3322	3349	3411	3527	3719	3899	1109
C90	3128	3048	2952	2836	2686	2489	2202	1789	1225
C180	3360	3363	3377	3419	3506	3664	3912	4290	2466
C270	3105	3025	2921	2798	2642	2423	2099	1648	1051

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

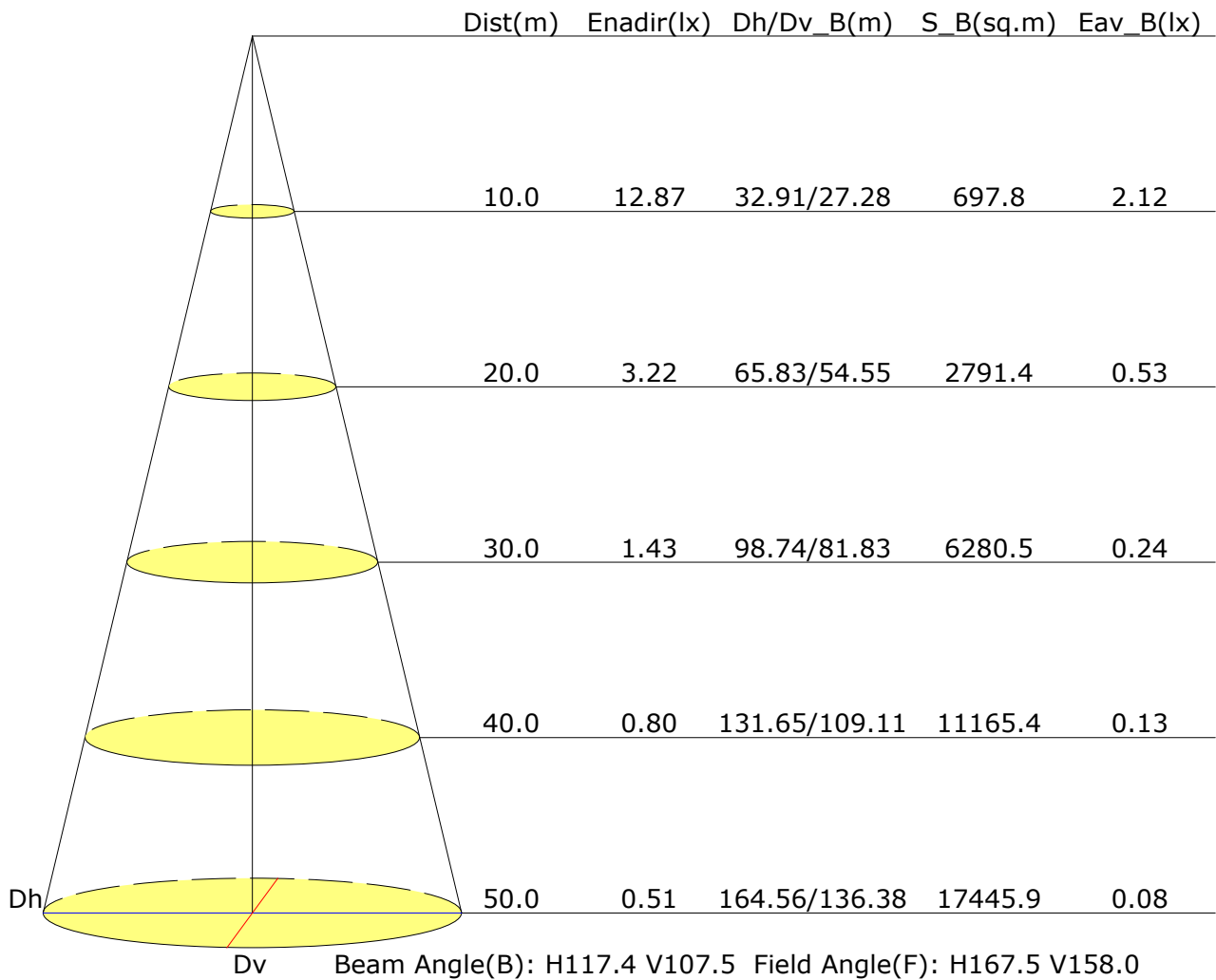
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

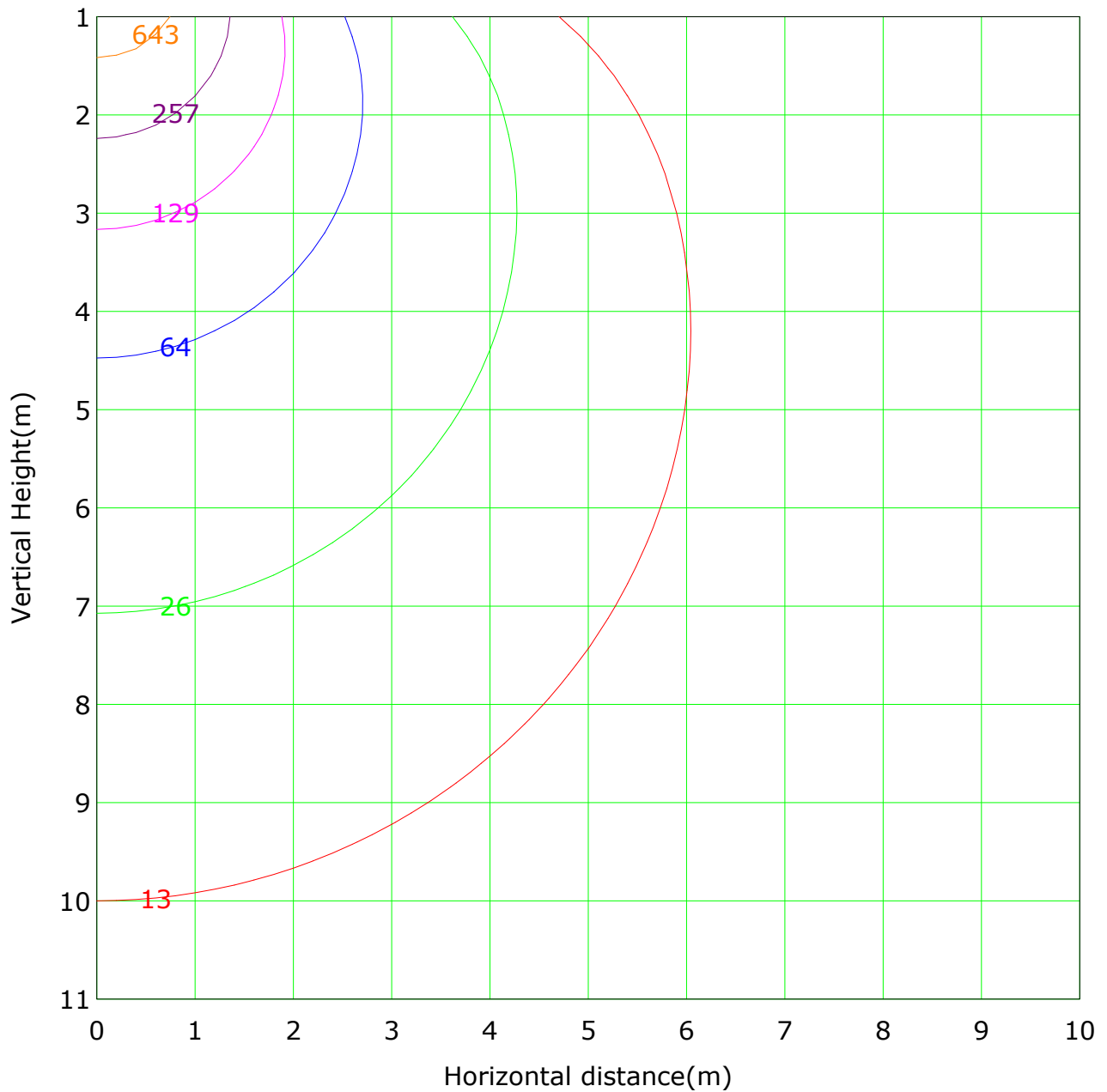
Illuminance at a Distance



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: 1286.7 lx

— (1%): 12.9 lx	— (2%): 25.7 lx
— (5%): 64.3 lx	— (10%): 128.7 lx
— (20%): 257.3 lx	— (50%): 643.3 lx
— (100%):1286.7 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, m/s																				
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	$\dot{F}_{\text{flux}}(\text{Th})$	$\dot{F}_{\text{flux}}(\text{E})$
0.0	0.0	0.2	0.5	0.9	1.3	1.4	1.4	1.3	1.4	1.5	1.5	1.3	0.9	0.4	0.1	0.0	0.0	0.0	14.2	0.0
-80	0.0	0.3	1.6	3.1	4.2	5.1	5.7	6.2	6.3	6.3	6.2	5.7	5.0	4.2	3.0	1.4	0.2	0.0	64.5	60.8
-70	0.0	1.1	3.1	5.2	7.2	9.0	10.6	11.9	12.5	11.9	10.6	8.9	7.1	5.1	3.0	0.9	0.0	0.0	120.6	120.0
-60	0.1	1.7	4.1	7.0	10.0	12.9	15.5	17.6	18.6	17.6	15.5	12.9	9.9	6.9	4.0	1.6	0.1	0.1	174.5	174.2
-50	0.2	2.1	5.0	8.6	12.6	16.6	20.2	23.0	24.4	22.9	20.1	16.5	12.5	8.4	4.9	2.0	0.1	0.1	224.4	224.2
-40	0.3	2.4	5.7	9.9	14.8	19.8	24.3	27.7	29.5	27.7	24.2	19.7	14.7	9.8	5.6	2.3	0.2	0.2	268.4	268.2
-30	0.4	2.7	6.3	11.1	16.6	22.4	27.7	31.6	33.8	31.6	27.6	22.3	16.5	10.9	6.2	2.6	0.3	0.3	304.4	304.3
-20	0.4	2.9	6.7	11.9	17.9	24.3	30.1	34.5	36.9	36.9	34.4	30.0	24.2	17.8	11.7	6.6	2.7	0.3	330.1	330.0
-10	0.4	3.0	7.0	12.3	18.7	25.3	31.3	36.0	38.5	38.5	35.9	31.2	25.2	18.5	12.2	6.8	2.8	0.3	343.9	343.8
0	0.4	3.0	7.0	12.4	18.7	25.3	31.4	36.0	38.5	38.5	35.9	31.3	25.2	18.5	12.2	6.8	2.8	0.3	344.0	343.9
10	0.4	2.9	6.8	11.9	18.0	24.3	30.1	34.5	36.9	36.9	34.5	30.0	24.2	17.8	11.7	6.6	2.7	0.3	330.4	330.3
20	0.4	2.7	6.3	11.1	16.7	22.5	27.7	31.7	33.9	33.8	31.6	27.6	22.3	16.5	10.9	6.1	2.6	0.3	304.9	304.8
30	0.3	2.5	5.8	10.0	14.9	19.9	24.4	27.8	29.6	29.6	27.8	24.3	19.7	14.7	9.8	5.6	2.3	0.2	269.2	269.0
40	0.2	2.2	5.0	8.6	12.7	16.7	20.3	23.1	24.6	24.5	23.0	20.2	16.5	12.4	8.4	4.8	2.0	0.1	225.5	225.3
50	0.1	1.7	4.2	7.1	10.1	13.1	15.7	17.8	18.8	18.8	17.7	15.6	12.9	9.9	6.8	4.0	1.5	0.1	175.9	175.5
60	0.0	1.1	3.2	5.3	7.3	9.2	10.8	12.1	12.7	12.7	12.0	10.6	9.0	7.1	5.0	2.9	0.9	0.0	122.2	121.6
70	0.0	0.4	1.8	3.3	4.5	5.3	6.0	6.5	6.6	6.5	6.3	5.7	5.0	4.1	3.0	1.4	0.2	0.0	66.6	64.0
80	0.0	0.0	0.2	0.6	1.1	1.5	1.7	1.7	1.5	1.5	1.6	1.5	1.3	0.9	0.4	0.1	0.0	0.0	15.8	0.5
90	3.7	32.8	80.0	139.9	206.9	274.4	334.9	381.1	404.9	404.6	380.2	333.3	272.0	203.9	136.7	76.9	30.3	2.9	3699	
Flux(T)	2.7	31.5	78.7	138.3	204.9	272.0	331.8	377.7	401.5	401.2	377.0	330.3	269.5	201.9	135.0	75.5	28.9	1.8		3660
Flux(E)	2.7	31.5	78.7	138.3	204.9	272.0	331.8	377.7	401.5	401.2	377.0	330.3	269.5	201.9	135.0	75.5	28.9	1.8		3660

Horizontal plane

Gamma Plane (°):0.0-180.0:1.0

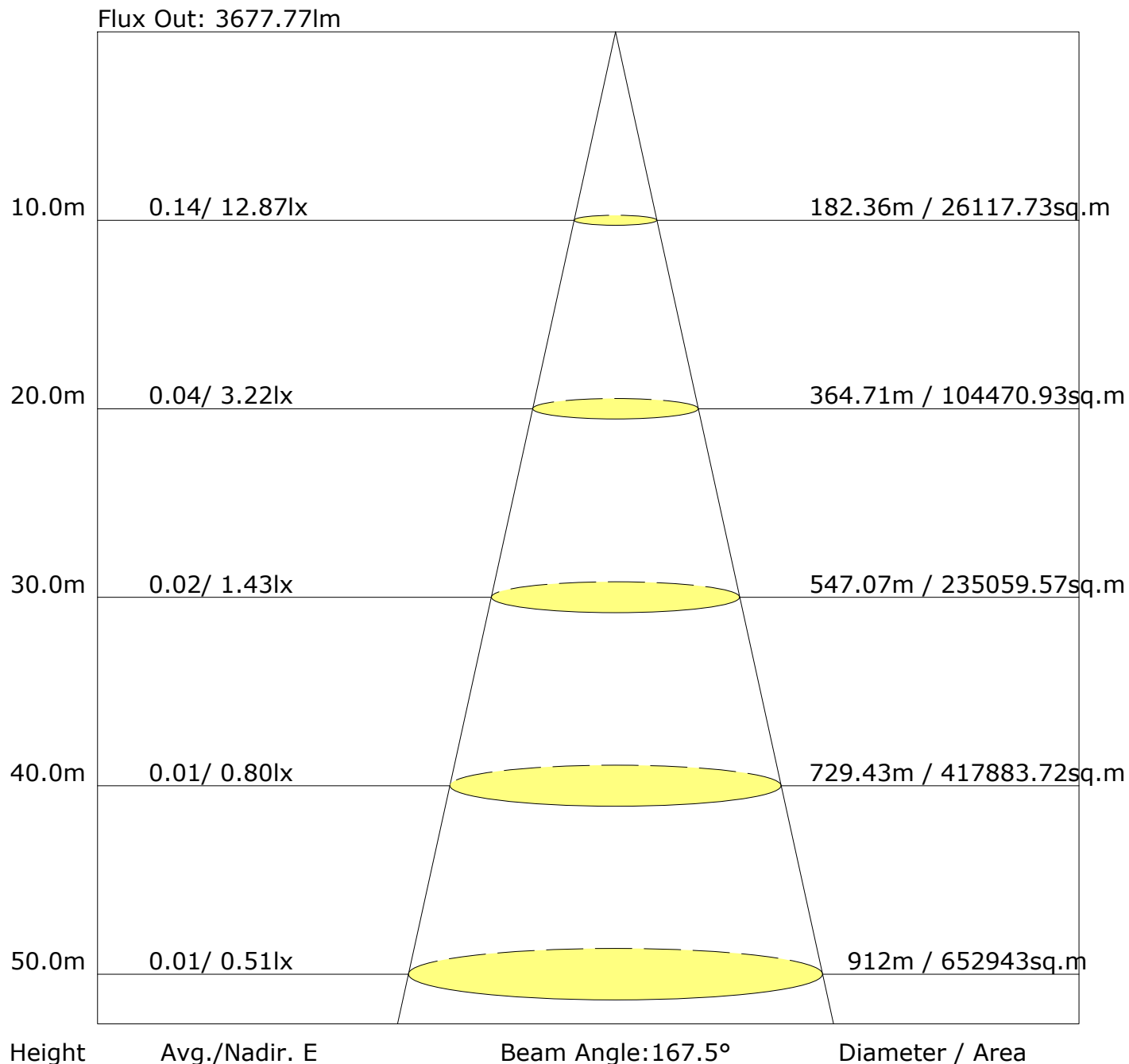
Test Device: GPM-1600L

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	16.8	18.2	17.1	18.4	18.7	16.1	17.5	16.4	17.8	18.0
3H	18.7	20.0	19.1	20.3	20.6	17.6	18.8	17.9	19.1	19.5
4H	19.7	20.9	20.0	21.2	21.5	18.1	19.3	18.5	19.6	20.0
6H	20.5	21.6	20.9	22.0	22.3	18.5	19.6	18.9	19.9	20.3
8H	20.8	21.9	21.2	22.2	22.6	18.6	19.6	19.0	20.0	20.3
12H	20.9	21.9	21.3	22.3	22.7	18.6	19.6	19.0	20.0	20.4
X=4H Y=2H	17.4	18.6	17.8	18.9	19.3	16.9	18.1	17.3	18.4	18.7
3H	19.6	20.6	20.0	21.0	21.4	18.6	19.6	19.0	19.9	20.3
4H	20.7	21.6	21.1	22.0	22.4	19.2	20.1	19.7	20.5	20.9
6H	21.7	22.5	22.1	22.9	23.4	19.7	20.5	20.1	20.9	21.4
8H	22.1	22.8	22.5	23.2	23.7	19.8	20.6	20.3	21.0	21.5
12H	22.2	22.8	22.6	23.3	23.8	19.9	20.6	20.4	21.0	21.5
X=8H Y=4H	21.0	21.7	21.4	22.2	22.6	19.7	20.4	20.2	20.9	21.3
6H	22.2	22.8	22.7	23.2	23.7	20.3	20.9	20.8	21.4	21.9
8H	22.6	23.2	23.1	23.7	24.2	20.5	21.1	21.0	21.6	22.1
12H	22.8	23.3	23.3	23.8	24.3	20.7	21.1	21.2	21.6	22.2
X=12H Y=4H	21.0	21.7	21.5	22.1	22.6	19.8	20.5	20.3	20.9	21.4
6H	22.2	22.8	22.7	23.2	23.8	20.5	21.0	21.0	21.5	22.0
8H	22.7	23.2	23.3	23.7	24.2	20.7	21.2	21.3	21.7	22.2
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 3758lm ($8\log(F/F_0) = 4.6$).

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

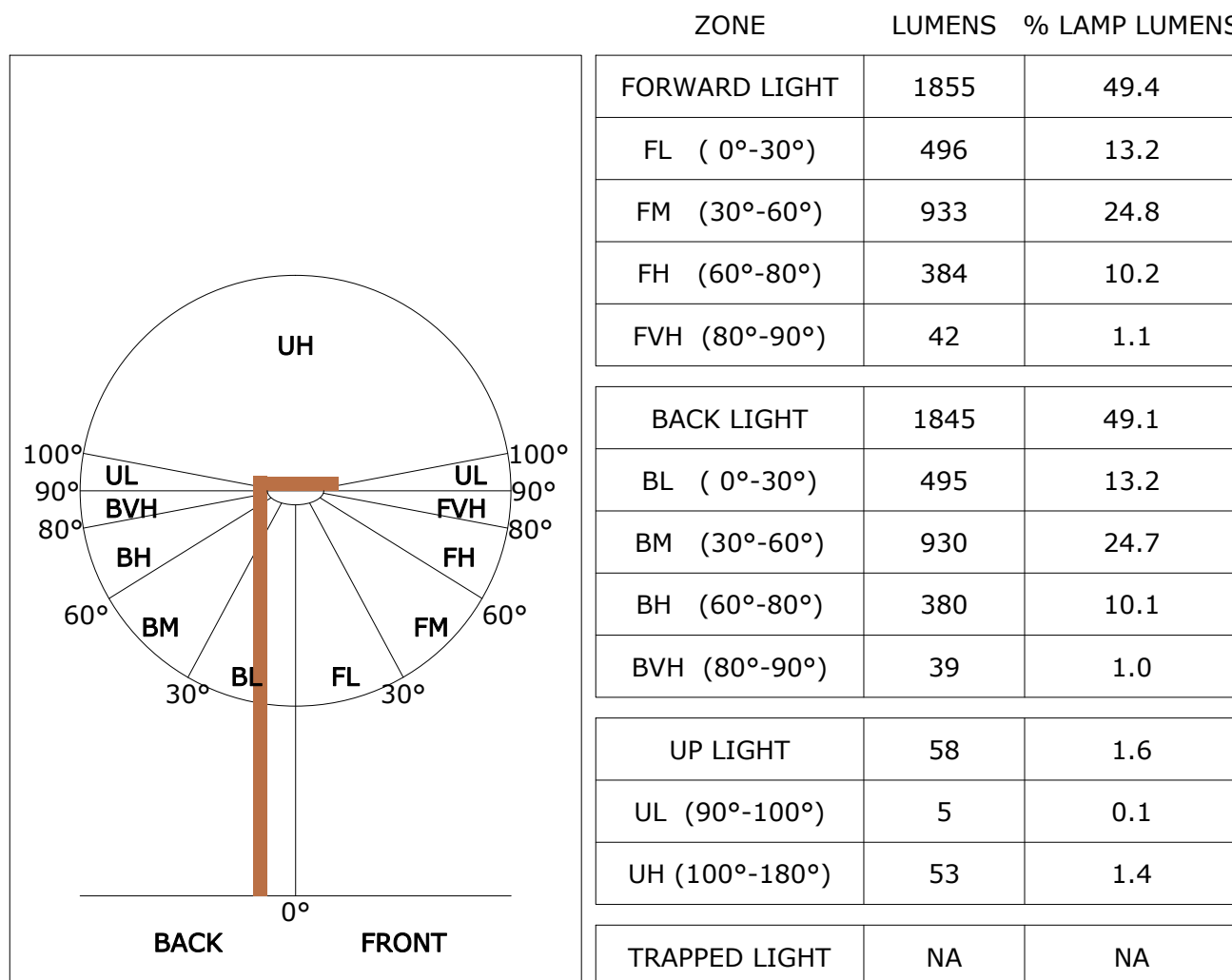
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

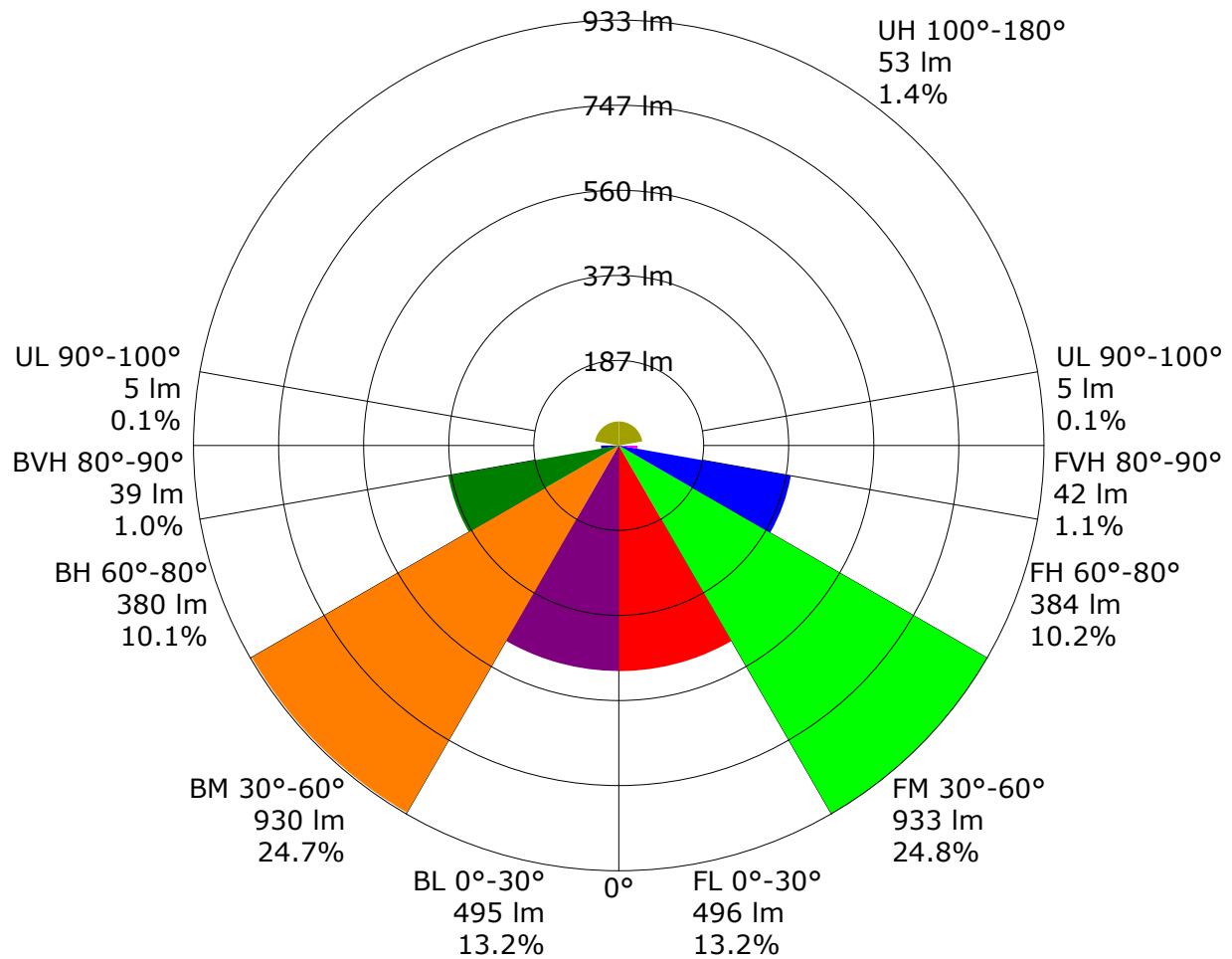


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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= 933 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	0.60	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	0.51	0.58	0.63	0.71	0.76	0.80	0.85	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
<p>Rating:28W 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	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.32	0.25	0.20	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.23	0.20	
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.38	0.32	0.25	0.20	
	0.30		0.80	0.68	0.58	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	0.31	0.26	0.23	0.18	0.15	
<p>Rating:28W 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(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	0.22	0.22	0.22	0.23	0.23
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	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	0.22	0.22	0.22
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.18
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		0.11	0.12	0.13	0.14	0.16	0.17	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<p>Rating:28W 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	1286.5	1.2	1.2	0.03	0.03
1.0-2.0	1286.0	3.7	4.9	0.10	0.13
2.0-3.0	1284.9	6.1	11.1	0.16	0.29
3.0-4.0	1283.3	8.6	19.7	0.23	0.52
4.0-5.0	1281.3	11.0	30.7	0.29	0.82
5.0-6.0	1278.7	13.4	44.1	0.36	1.17
6.0-7.0	1275.5	15.8	60.0	0.42	1.60
7.0-8.0	1272.1	18.2	78.2	0.48	2.08
8.0-9.0	1267.9	20.6	98.7	0.55	2.63
9.0-10.0	1263.4	22.9	121.6	0.61	3.24
10.0-11.0	1258.3	25.1	146.7	0.67	3.90
11.0-12.0	1252.7	27.4	174.1	0.73	4.63
12.0-13.0	1246.8	29.6	203.7	0.79	5.42
13.0-14.0	1240.2	31.7	235.5	0.84	6.27
14.0-15.0	1233.2	33.9	269.3	0.90	7.17
15.0-16.0	1225.7	35.9	305.2	0.96	8.12
16.0-17.0	1217.7	37.9	343.2	1.01	9.13
17.0-18.0	1209.7	39.9	383.1	1.06	10.19
18.0-19.0	1200.8	41.8	424.8	1.11	11.30
19.0-20.0	1191.6	43.6	468.5	1.16	12.47
20.0-21.0	1182.3	45.4	513.9	1.21	13.67
21.0-22.0	1172.2	47.1	561.0	1.25	14.93
22.0-23.0	1161.7	48.8	609.7	1.30	16.22
23.0-24.0	1150.7	50.3	660.0	1.34	17.56
24.0-25.0	1139.3	51.8	711.9	1.38	18.94
25.0-26.0	1128.1	53.3	765.1	1.42	20.36
26.0-27.0	1116.1	54.6	819.7	1.45	21.81
27.0-28.0	1103.6	55.9	875.6	1.49	23.30
28.0-29.0	1091.4	57.1	932.7	1.52	24.82
29.0-30.0	1078.2	58.2	990.9	1.55	26.37
30.0-31.0	1064.7	59.3	1050.2	1.58	27.95
31.0-32.0	1050.9	60.2	1110.4	1.60	29.55
32.0-33.0	1036.7	61.1	1171.5	1.63	31.17
33.0-34.0	1022.8	61.9	1233.4	1.65	32.82
34.0-35.0	1007.9	62.6	1296.0	1.67	34.49
35.0-36.0	992.8	63.2	1359.2	1.68	36.17

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	977.8	63.8	1423.0	1.70	37.87
37.0-38.0	962.1	64.2	1487.2	1.71	39.57
38.0-39.0	946.6	64.6	1551.9	1.72	41.29
39.0-40.0	930.5	64.9	1616.8	1.73	43.02
40.0-41.0	914.1	65.1	1681.9	1.73	44.75
41.0-42.0	898.3	65.3	1747.1	1.74	46.49
42.0-43.0	881.5	65.3	1812.4	1.74	48.23
43.0-44.0	864.6	65.3	1877.7	1.74	49.97
44.0-45.0	847.8	65.2	1942.9	1.73	51.70
45.0-46.0	830.4	65.0	2007.8	1.73	53.43
46.0-47.0	813.2	64.7	2072.5	1.72	55.15
47.0-48.0	795.5	64.3	2136.8	1.71	56.86
48.0-49.0	777.7	63.9	2200.7	1.70	58.56
49.0-50.0	760.5	63.4	2264.1	1.69	60.25
50.0-51.0	742.3	62.8	2326.9	1.67	61.92
51.0-52.0	724.0	62.1	2389.0	1.65	63.57
52.0-53.0	706.0	61.4	2450.5	1.63	65.21
53.0-54.0	687.5	60.6	2511.1	1.61	66.82
54.0-55.0	669.4	59.8	2570.8	1.59	68.41
55.0-56.0	650.7	58.8	2629.6	1.56	69.97
56.0-57.0	632.0	57.8	2687.4	1.54	71.51
57.0-58.0	613.9	56.8	2744.2	1.51	73.02
58.0-59.0	594.8	55.6	2799.8	1.48	74.50
59.0-60.0	575.8	54.4	2854.2	1.45	75.95
60.0-61.0	556.9	53.1	2907.4	1.41	77.36
61.0-62.0	537.8	51.8	2959.2	1.38	78.74
62.0-63.0	519.5	50.5	3009.7	1.34	80.09
63.0-64.0	500.5	49.1	3058.9	1.31	81.40
64.0-65.0	481.3	47.6	3106.5	1.27	82.66
65.0-66.0	462.9	46.2	3152.7	1.23	83.89
66.0-67.0	443.8	44.6	3197.3	1.19	85.08
67.0-68.0	424.5	43.0	3240.3	1.14	86.22
68.0-69.0	405.2	41.3	3281.7	1.10	87.32
69.0-70.0	385.9	39.6	3321.3	1.05	88.38
70.0-71.0	367.5	38.0	3359.3	1.01	89.39
71.0-72.0	348.2	36.2	3395.5	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	328.8	34.4	3429.9	0.92	91.27
73.0-74.0	310.4	32.6	3462.5	0.87	92.14
74.0-75.0	291.3	30.8	3493.3	0.82	92.96
75.0-76.0	272.1	28.9	3522.2	0.77	93.72
76.0-77.0	252.9	27.0	3549.2	0.72	94.44
77.0-78.0	234.0	25.0	3574.2	0.67	95.11
78.0-79.0	215.8	23.2	3597.4	0.62	95.73
79.0-80.0	196.5	21.2	3618.6	0.56	96.29
80.0-81.0	176.3	19.1	3637.7	0.51	96.80
81.0-82.0	155.2	16.8	3654.5	0.45	97.25
82.0-83.0	132.0	14.3	3668.9	0.38	97.63
83.0-84.0	106.8	11.6	3680.5	0.31	97.94
84.0-85.0	77.4	8.5	3688.9	0.22	98.16
85.0-86.0	46.7	5.1	3694.1	0.14	98.30
86.0-87.0	24.5	2.7	3696.7	0.07	98.37
87.0-88.0	13.2	1.4	3698.2	0.04	98.41
88.0-89.0	8.3	0.9	3699.1	0.02	98.43
89.0-90.0	5.6	0.6	3699.7	0.02	98.45
90.0-91.0	4.3	0.5	3700.2	0.01	98.46
91.0-92.0	4.3	0.5	3700.6	0.01	98.47
92.0-93.0	4.5	0.5	3701.1	0.01	98.49
93.0-94.0	4.6	0.5	3701.6	0.01	98.50
94.0-95.0	4.8	0.5	3702.2	0.01	98.51
95.0-96.0	4.9	0.5	3702.7	0.01	98.53
96.0-97.0	5.1	0.6	3703.3	0.01	98.54
97.0-98.0	5.2	0.6	3703.8	0.02	98.56
98.0-99.0	5.4	0.6	3704.4	0.02	98.57
99.0-100.0	5.6	0.6	3705.0	0.02	98.59
100.0-101.0	5.7	0.6	3705.6	0.02	98.61
101.0-102.0	5.9	0.6	3706.3	0.02	98.62
102.0-103.0	6.0	0.6	3706.9	0.02	98.64
103.0-104.0	6.2	0.7	3707.6	0.02	98.66
104.0-105.0	6.3	0.7	3708.2	0.02	98.67
105.0-106.0	6.5	0.7	3708.9	0.02	98.69
106.0-107.0	6.7	0.7	3709.6	0.02	98.71
107.0-108.0	6.8	0.7	3710.3	0.02	98.73

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	7.0	0.7	3711.1	0.02	98.75
109.0-110.0	7.2	0.7	3711.8	0.02	98.77
110.0-111.0	7.4	0.8	3712.6	0.02	98.79
111.0-112.0	7.5	0.8	3713.3	0.02	98.81
112.0-113.0	7.7	0.8	3714.1	0.02	98.83
113.0-114.0	7.8	0.8	3714.9	0.02	98.85
114.0-115.0	8.0	0.8	3715.7	0.02	98.87
115.0-116.0	8.1	0.8	3716.5	0.02	98.89
116.0-117.0	8.3	0.8	3717.3	0.02	98.92
117.0-118.0	8.5	0.8	3718.1	0.02	98.94
118.0-119.0	8.6	0.8	3719.0	0.02	98.96
119.0-120.0	8.8	0.8	3719.8	0.02	98.98
120.0-121.0	9.0	0.8	3720.7	0.02	99.01
121.0-122.0	9.2	0.9	3721.5	0.02	99.03
122.0-123.0	9.3	0.9	3722.4	0.02	99.05
123.0-124.0	9.5	0.9	3723.2	0.02	99.07
124.0-125.0	9.7	0.9	3724.1	0.02	99.10
125.0-126.0	9.9	0.9	3725.0	0.02	99.12
126.0-127.0	10.0	0.9	3725.9	0.02	99.14
127.0-128.0	10.2	0.9	3726.8	0.02	99.17
128.0-129.0	10.4	0.9	3727.7	0.02	99.19
129.0-130.0	10.6	0.9	3728.6	0.02	99.22
130.0-131.0	10.7	0.9	3729.5	0.02	99.24
131.0-132.0	10.9	0.9	3730.4	0.02	99.26
132.0-133.0	11.1	0.9	3731.2	0.02	99.29
133.0-134.0	11.3	0.9	3732.1	0.02	99.31
134.0-135.0	11.4	0.9	3733.0	0.02	99.33
135.0-136.0	11.6	0.9	3733.9	0.02	99.36
136.0-137.0	11.7	0.9	3734.8	0.02	99.38
137.0-138.0	11.9	0.9	3735.7	0.02	99.41
138.0-139.0	12.1	0.9	3736.6	0.02	99.43
139.0-140.0	12.2	0.9	3737.4	0.02	99.45
140.0-141.0	12.4	0.9	3738.3	0.02	99.47
141.0-142.0	12.5	0.9	3739.2	0.02	99.50
142.0-143.0	12.6	0.8	3740.0	0.02	99.52
143.0-144.0	12.8	0.8	3740.8	0.02	99.54

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	12.9	0.8	3741.7	0.02	99.56
145.0-146.0	13.1	0.8	3742.5	0.02	99.59
146.0-147.0	13.2	0.8	3743.3	0.02	99.61
147.0-148.0	13.4	0.8	3744.1	0.02	99.63
148.0-149.0	13.5	0.8	3744.8	0.02	99.65
149.0-150.0	13.7	0.8	3745.6	0.02	99.67
150.0-151.0	13.8	0.7	3746.3	0.02	99.69
151.0-152.0	13.9	0.7	3747.1	0.02	99.71
152.0-153.0	14.0	0.7	3747.8	0.02	99.73
153.0-154.0	14.2	0.7	3748.5	0.02	99.75
154.0-155.0	14.3	0.7	3749.1	0.02	99.76
155.0-156.0	14.4	0.7	3749.8	0.02	99.78
156.0-157.0	14.5	0.6	3750.4	0.02	99.80
157.0-158.0	14.6	0.6	3751.0	0.02	99.81
158.0-159.0	14.7	0.6	3751.6	0.02	99.83
159.0-160.0	14.8	0.6	3752.2	0.02	99.84
160.0-161.0	14.9	0.5	3752.8	0.01	99.86
161.0-162.0	15.0	0.5	3753.3	0.01	99.87
162.0-163.0	15.1	0.5	3753.8	0.01	99.89
163.0-164.0	15.2	0.5	3754.2	0.01	99.90
164.0-165.0	15.3	0.4	3754.7	0.01	99.91
165.0-166.0	15.3	0.4	3755.1	0.01	99.92
166.0-167.0	15.4	0.4	3755.5	0.01	99.93
167.0-168.0	15.5	0.4	3755.9	0.01	99.94
168.0-169.0	15.5	0.3	3756.2	0.01	99.95
169.0-170.0	15.6	0.3	3756.5	0.01	99.96
170.0-171.0	15.7	0.3	3756.8	0.01	99.97
171.0-172.0	15.7	0.3	3757.1	0.01	99.97
172.0-173.0	15.8	0.2	3757.3	0.01	99.98
173.0-174.0	15.8	0.2	3757.5	0.01	99.99
174.0-175.0	15.9	0.2	3757.7	0.00	99.99
175.0-176.0	15.9	0.1	3757.8	0.00	99.99
176.0-177.0	16.0	0.1	3757.9	0.00	100.00
177.0-178.0	16.0	0.1	3758.0	0.00	100.00
178.0-179.0	16.0	0.0	3758.0	0.00	100.00
179.0-180.0	16.0	0.0	3758.0	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: 9.011 m

Humidity:

Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1942.86 lm

%lum = 51.7%

%lamp = 51.7%

cone flux(120°): 2854.23 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	1286.7	1286.7	1286.7	1286.7	1286.7	1286.7	1286.7	1286.7	1286.7	1286.7
G1.0	1286.5	1286.5	1286.5	1286.4	1286.5	1286.4	1286.7	1286.4	1286.3	1286.1
G2.0	1285.8	1285.7	1285.7	1285.5	1285.6	1285.8	1286.0	1285.9	1285.6	1285.2
G3.0	1284.3	1284.3	1284.2	1284.1	1284.1	1284.4	1284.8	1284.4	1284.0	1283.6
G4.0	1282.8	1282.6	1282.3	1282.0	1282.4	1283.0	1283.1	1282.7	1282.0	1282.0
G5.0	1280.6	1280.5	1280.1	1279.8	1280.2	1280.9	1281.2	1280.7	1279.7	1279.4
G6.0	1277.5	1277.5	1276.9	1276.7	1276.7	1277.8	1278.6	1277.5	1276.7	1276.2
G7.0	1274.5	1274.5	1273.6	1273.3	1273.7	1275.0	1275.4	1274.6	1273.2	1272.7
G8.0	1271.4	1270.9	1269.7	1269.5	1269.8	1271.7	1272.0	1270.7	1269.1	1268.3
G9.0	1267.0	1266.1	1265.1	1264.4	1265.1	1267.0	1268.3	1266.7	1264.7	1263.5
G10.0	1262.6	1261.7	1260.1	1259.6	1260.4	1262.9	1263.8	1262.1	1259.8	1258.9
G11.0	1257.3	1256.6	1254.2	1253.6	1254.8	1257.5	1258.8	1256.7	1254.1	1252.9
G12.0	1252.0	1250.8	1248.5	1247.4	1248.8	1252.2	1253.8	1251.5	1248.2	1246.6
G13.0	1246.1	1245.0	1242.2	1241.1	1242.5	1246.4	1248.0	1245.4	1241.8	1240.2
G14.0	1239.5	1238.0	1235.0	1233.5	1235.3	1239.3	1241.6	1238.7	1234.5	1232.6
G15.0	1233.1	1231.4	1227.4	1226.2	1228.4	1233.0	1235.1	1232.0	1227.5	1225.1
G16.0	1225.4	1223.3	1219.3	1217.3	1219.9	1225.2	1227.9	1224.2	1218.8	1216.3
G17.0	1218.2	1215.8	1211.0	1209.2	1211.9	1217.9	1220.7	1216.8	1210.7	1208.2
G18.0	1210.2	1207.6	1202.7	1200.1	1203.0	1209.7	1213.3	1208.6	1202.3	1199.2
G19.0	1201.4	1198.6	1193.1	1190.3	1193.8	1200.8	1204.4	1199.7	1192.4	1189.1
G20.0	1193.0	1189.8	1183.4	1180.8	1184.7	1192.5	1196.2	1190.6	1183.1	1179.1
G21.0	1183.8	1180.2	1173.7	1170.4	1174.6	1183.1	1187.1	1181.6	1173.5	1169.2
G22.0	1173.9	1170.0	1162.6	1159.2	1163.6	1173.1	1177.4	1171.0	1162.0	1157.8
G23.0	1164.4	1160.0	1151.8	1148.3	1152.9	1162.8	1167.8	1161.5	1151.6	1146.5
G24.0	1153.1	1148.5	1139.8	1135.8	1141.1	1151.9	1157.2	1149.9	1139.6	1134.1
G25.0	1142.5	1137.4	1128.1	1124.3	1129.4	1140.6	1147.0	1139.3	1127.8	1122.5
G26.0	1132.1	1126.6	1116.7	1111.9	1118.1	1130.2	1136.8	1128.6	1116.3	1110.0
G27.0	1120.2	1114.4	1103.7	1098.5	1105.1	1118.2	1124.6	1115.9	1102.6	1096.5
G28.0	1108.2	1102.4	1090.8	1086.0	1092.2	1106.4	1113.7	1104.3	1090.4	1083.9
G29.0	1097.0	1090.4	1078.1	1072.4	1079.8	1094.4	1101.7	1092.3	1077.7	1070.2
G30.0	1084.0	1076.9	1063.5	1057.9	1065.5	1080.9	1089.2	1078.9	1062.9	1055.6
G31.0	1071.4	1063.9	1050.2	1043.7	1052.0	1068.7	1077.3	1066.7	1049.7	1042.0
G32.0	1057.6	1049.7	1034.8	1028.5	1037.0	1054.7	1063.3	1052.2	1034.7	1025.9
G33.0	1044.5	1036.8	1020.9	1013.7	1023.0	1041.1	1050.9	1039.2	1020.2	1010.8
G34.0	1031.6	1022.8	1006.8	999.3	1009.0	1028.2	1037.6	1025.3	1005.2	996.3
G35.0	1016.5	1007.3	990.4	983.1	992.2	1012.6	1022.7	1009.5	989.3	979.1
G36.0	1003.1	993.6	975.7	967.4	977.9	999.3	1009.6	996.0	973.8	963.9

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 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	988.8	978.6	960.0	951.4	962.5	984.8	994.3	980.7	957.4	947.0
G38.0	973.6	962.7	943.3	934.4	945.9	969.0	980.6	965.8	941.5	930.6
G39.0	958.8	948.1	927.2	917.9	929.9	954.2	966.6	950.7	926.0	914.6
G40.0	943.2	931.3	909.9	900.2	912.6	938.1	950.6	934.5	907.9	896.1
G41.0	928.0	915.6	893.2	884.1	896.0	922.6	936.4	919.5	892.0	879.7
G42.0	913.4	900.5	877.0	866.8	880.2	907.3	921.2	903.7	875.8	862.2
G43.0	896.5	882.8	858.6	848.5	861.5	890.1	905.3	886.8	857.0	843.7
G44.0	881.6	867.2	841.9	830.9	845.3	874.6	890.4	871.4	840.4	826.7
G45.0	865.8	850.8	824.5	813.0	828.2	858.4	873.3	853.4	822.0	806.9
G46.0	849.2	833.5	805.9	794.1	809.9	841.4	858.4	837.9	804.3	789.7
G47.0	833.1	816.7	787.9	776.7	791.9	824.9	842.6	821.1	786.4	771.2
G48.0	816.2	799.1	769.0	756.5	773.1	807.4	825.8	803.4	767.4	751.6
G49.0	799.9	781.9	750.8	738.8	755.8	790.6	809.8	786.5	749.9	732.8
G50.0	784.2	765.5	733.3	720.0	737.6	774.3	794.5	770.2	731.4	714.8
G51.0	766.3	747.5	713.0	700.3	717.4	755.7	776.6	751.4	711.6	693.8
G52.0	750.7	730.2	695.1	681.2	699.8	739.5	761.1	735.1	693.0	675.4
G53.0	734.2	712.8	676.4	662.1	681.1	722.2	743.9	716.2	673.2	654.0
G54.0	717.0	694.6	655.7	641.8	661.4	703.4	727.6	699.4	654.1	635.4
G55.0	700.2	677.1	637.4	622.4	642.6	686.9	712.0	682.7	635.8	615.7
G56.0	682.9	658.6	616.4	601.8	622.6	668.1	694.1	663.7	614.8	595.0
G57.0	666.2	641.0	598.0	582.0	603.6	651.5	677.6	646.9	596.3	576.0
G58.0	649.5	623.3	578.5	562.1	584.2	634.0	662.0	629.4	576.8	555.8
G59.0	631.5	603.9	557.4	540.3	563.1	615.0	644.7	611.0	556.2	534.6
G60.0	615.4	586.9	538.7	521.2	544.6	597.7	628.2	593.3	536.7	514.3
G61.0	597.2	567.5	517.2	499.2	523.4	579.2	611.0	574.9	516.0	492.9
G62.0	581.2	550.5	497.6	479.7	504.7	561.6	594.4	557.0	497.1	472.2
G63.0	564.3	532.6	478.7	459.4	485.3	544.9	578.5	540.1	477.3	452.6
G64.0	545.8	513.9	458.0	437.8	464.9	525.6	561.1	521.5	456.5	430.2
G65.0	529.8	496.0	438.2	417.3	445.2	508.7	544.6	503.6	436.6	410.4
G66.0	513.7	478.8	418.2	397.6	425.4	491.8	528.8	486.5	417.7	389.6
G67.0	495.3	458.8	397.4	375.1	404.8	472.4	510.9	467.0	396.9	367.8
G68.0	478.5	441.7	377.7	355.3	385.3	454.8	495.0	449.8	377.1	347.6
G69.0	460.6	422.0	356.7	332.6	364.7	436.3	476.8	431.2	356.2	324.6
G70.0	443.4	404.1	337.0	312.9	345.2	419.0	460.6	413.4	336.4	304.5
G71.0	426.9	387.0	317.3	292.5	326.6	402.2	444.3	396.4	317.5	283.6
G72.0	407.6	367.4	296.6	270.3	305.5	382.8	425.4	376.9	296.0	261.7
G73.0	390.6	350.0	277.1	250.7	287.1	365.0	408.5	358.9	277.3	241.2

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 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	372.7	331.8	258.7	230.5	267.9	347.9	390.9	341.7	257.9	221.8
G75.0	353.8	312.6	238.8	209.5	248.2	329.0	372.1	321.7	237.6	199.7
G76.0	335.5	294.0	219.9	189.9	229.3	311.0	354.0	304.2	218.6	180.8
G77.0	316.2	274.7	199.9	169.7	209.4	291.1	334.0	284.0	199.1	159.6
G78.0	297.2	256.1	182.5	151.0	192.2	273.7	316.0	266.2	181.0	141.7
G79.0	275.7	237.2	164.9	133.3	174.7	255.1	296.7	247.1	164.1	123.5
G80.0	248.8	217.0	147.1	114.2	156.8	235.2	273.8	226.4	145.1	105.1
G81.0	220.0	194.0	130.2	97.3	140.0	215.3	248.3	204.8	127.9	88.7
G82.0	188.1	169.3	113.9	82.0	124.3	192.0	216.8	178.2	110.4	72.5
G83.0	144.1	137.8	97.3	66.5	106.5	164.1	180.4	149.3	93.7	58.4
G84.0	96.6	105.3	81.4	52.8	90.8	134.1	137.9	117.4	77.4	45.4
G85.0	35.5	61.3	62.3	39.2	72.6	92.6	79.0	74.2	58.0	33.7
G86.0	6.1	20.7	43.9	29.4	54.4	50.1	24.6	32.2	40.1	23.6
G87.0	4.9	9.1	26.6	20.0	36.4	12.3	6.0	10.2	22.5	16.4
G88.0	4.4	7.1	12.4	13.6	17.5	7.4	5.4	8.4	12.0	11.4
G89.0	4.2	5.1	8.2	8.9	9.9	5.9	5.0	6.6	7.7	6.5
G90.0	4.1	3.9	3.7	4.2	5.6	4.2	4.8	4.9	4.3	4.2
G91.0	4.2	4.0	3.8	3.6	3.7	4.0	4.8	4.7	4.5	4.3
G92.0	4.3	4.1	3.9	3.7	3.9	4.1	4.9	4.9	4.6	4.4
G93.0	4.6	4.3	4.1	3.9	4.0	4.3	5.2	5.0	4.8	4.6
G94.0	4.7	4.5	4.2	4.1	4.3	4.5	5.3	5.2	4.9	4.7
G95.0	4.8	4.6	4.4	4.2	4.4	4.6	5.4	5.3	5.1	4.8
G96.0	5.0	4.7	4.6	4.4	4.5	4.8	5.5	5.5	5.3	5.0
G97.0	5.1	4.9	4.7	4.5	4.7	4.8	5.7	5.6	5.3	5.1
G98.0	5.3	5.1	4.9	4.6	4.8	5.1	5.9	5.9	5.6	5.4
G99.0	5.5	5.3	5.1	4.8	5.0	5.2	6.0	6.0	5.7	5.5
G100.0	5.6	5.3	5.3	4.9	5.2	5.4	6.2	6.1	5.9	5.7
G101.0	5.8	5.6	5.5	5.2	5.4	5.5	6.3	6.3	6.1	5.8
G102.0	5.9	5.7	5.6	5.3	5.4	5.7	6.5	6.4	6.3	6.0
G103.0	6.1	5.8	5.8	5.5	5.6	5.9	6.6	6.6	6.3	6.2
G104.0	6.2	6.0	5.9	5.6	5.8	6.0	6.8	6.7	6.5	6.3
G105.0	6.4	6.2	6.1	5.8	6.0	6.2	6.9	6.9	6.7	6.5
G106.0	6.5	6.3	6.2	6.0	6.1	6.3	7.1	7.0	6.9	6.7
G107.0	6.7	6.5	6.4	6.2	6.3	6.6	7.2	7.2	7.0	6.8
G108.0	6.9	6.7	6.5	6.3	6.5	6.7	7.4	7.3	7.2	7.0
G109.0	7.1	6.9	6.9	6.4	6.7	6.9	7.6	7.5	7.4	7.1
G110.0	7.3	7.0	7.0	6.7	6.8	7.1	7.7	7.7	7.5	7.3

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 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	7.3	7.1	7.2	6.8	7.0	7.2	7.9	7.8	7.7	7.4
G112.0	7.5	7.3	7.4	7.0	7.2	7.3	8.0	8.0	7.9	7.6
G113.0	7.6	7.5	7.4	7.2	7.3	7.5	8.2	8.1	8.1	7.8
G114.0	7.8	7.6	7.5	7.3	7.4	7.7	8.3	8.3	8.2	8.0
G115.0	8.0	7.7	7.6	7.5	7.7	7.9	8.5	8.5	8.3	8.1
G116.0	8.2	8.0	7.8	7.7	7.9	8.0	8.6	8.7	8.4	8.2
G117.0	8.3	8.2	8.0	7.9	8.1	8.2	8.8	8.9	8.7	8.4
G118.0	8.5	8.3	8.1	8.0	8.2	8.3	9.0	9.0	8.8	8.5
G119.0	8.7	8.5	8.3	8.2	8.5	8.5	9.2	9.2	8.9	8.8
G120.0	8.8	8.7	8.5	8.3	8.5	8.8	9.4	9.3	9.2	8.9
G121.0	9.1	8.8	8.6	8.5	8.7	8.9	9.5	9.5	9.3	9.1
G122.0	9.2	9.0	8.8	8.7	8.9	9.1	9.7	9.7	9.5	9.3
G123.0	9.4	9.2	9.0	8.8	9.1	9.3	10.0	9.9	9.7	9.4
G124.0	9.7	9.3	9.2	9.0	9.3	9.5	10.1	10.0	9.9	9.6
G125.0	9.9	9.6	9.4	9.2	9.4	9.7	10.2	10.1	10.1	9.8
G126.0	10.0	9.8	9.5	9.4	9.6	9.8	10.4	10.3	10.2	9.9
G127.0	10.2	9.9	9.7	9.6	9.8	9.9	10.6	10.6	10.4	10.1
G128.0	10.4	10.1	9.9	9.7	9.9	10.2	10.7	10.7	10.5	10.4
G129.0	10.5	10.3	10.0	9.9	10.1	10.4	11.0	10.9	10.7	10.5
G130.0	10.8	10.4	10.2	10.1	10.3	10.6	11.2	11.1	10.9	10.7
G131.0	11.0	10.7	10.4	10.2	10.4	10.7	11.4	11.2	11.0	10.7
G132.0	11.1	10.8	10.5	10.5	10.6	10.9	11.6	11.4	11.1	10.9
G133.0	11.3	11.1	10.6	10.6	10.8	10.9	11.9	11.5	11.4	11.1
G134.0	11.4	11.2	10.8	10.7	10.9	11.2	12.0	11.7	11.6	11.3
G135.0	11.6	11.4	11.0	11.0	11.1	11.3	12.1	11.9	11.7	11.5
G136.0	11.8	11.6	11.2	11.2	11.2	11.5	12.2	12.1	11.9	11.7
G137.0	11.9	11.7	11.4	11.3	11.4	11.7	12.3	12.2	12.0	11.8
G138.0	12.1	11.9	11.6	11.5	11.5	11.8	12.5	12.4	12.2	11.9
G139.0	12.3	12.0	11.8	11.6	11.8	11.9	12.5	12.5	12.3	12.1
G140.0	12.4	12.2	11.9	11.8	11.9	12.1	12.7	12.7	12.5	12.2
G141.0	12.5	12.4	12.0	12.0	12.1	12.3	12.8	12.8	12.5	12.5
G142.0	12.6	12.5	12.2	12.1	12.2	12.4	12.9	12.9	12.7	12.5
G143.0	12.7	12.6	12.5	12.3	12.4	12.6	13.1	13.1	12.8	12.7
G144.0	13.0	12.7	12.5	12.5	12.5	12.5	13.3	13.3	13.0	12.9
G145.0	13.1	12.9	12.7	12.5	12.6	12.8	13.4	13.4	13.1	13.0
G146.0	13.2	13.1	12.9	12.8	12.7	13.0	13.5	13.6	13.2	13.1
G147.0	13.4	13.2	13.0	12.9	12.9	13.1	13.7	13.7	13.4	13.3

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	13.5	13.3	13.1	13.0	13.0	13.2	13.8	13.8	13.4	13.4
G149.0	13.6	13.5	13.3	13.2	13.2	13.4	13.9	14.0	13.6	13.6
G150.0	13.8	13.6	13.5	13.4	13.3	13.5	14.1	14.1	13.7	13.7
G151.0	13.9	13.7	13.6	13.5	13.5	13.7	14.3	14.2	13.9	13.9
G152.0	14.0	13.8	13.8	13.6	13.6	13.8	14.5	14.3	14.0	14.0
G153.0	14.2	14.0	13.9	13.8	13.7	13.8	14.5	14.5	14.1	14.1
G154.0	14.3	14.1	14.0	13.9	13.9	14.0	14.6	14.6	14.3	14.3
G155.0	14.4	14.3	14.1	14.0	14.0	14.1	14.7	14.6	14.4	14.4
G156.0	14.5	14.3	14.2	14.1	14.1	14.3	14.8	14.8	14.5	14.5
G157.0	14.6	14.5	14.4	14.3	14.2	14.4	14.9	14.8	14.6	14.6
G158.0	14.7	14.6	14.5	14.4	14.3	14.5	15.0	14.8	14.8	14.7
G159.0	14.8	14.7	14.6	14.5	14.4	14.6	15.1	14.9	14.9	14.8
G160.0	14.9	14.8	14.7	14.6	14.6	14.7	15.1	15.1	14.9	14.9
G161.0	15.0	14.9	14.9	14.8	14.6	14.7	15.1	15.1	15.0	15.0
G162.0	15.0	15.0	14.9	14.8	14.8	14.8	15.2	15.2	15.1	15.1
G163.0	15.2	15.1	15.0	14.9	14.8	14.9	15.3	15.2	15.3	15.1
G164.0	15.2	15.2	15.1	15.0	14.9	15.0	15.3	15.4	15.3	15.2
G165.0	15.3	15.2	15.2	15.1	15.0	15.1	15.4	15.4	15.4	15.3
G166.0	15.4	15.4	15.3	15.1	15.2	15.1	15.4	15.4	15.5	15.5
G167.0	15.5	15.5	15.4	15.2	15.2	15.1	15.5	15.4	15.5	15.5
G168.0	15.5	15.5	15.4	15.3	15.3	15.2	15.6	15.5	15.6	15.5
G169.0	15.6	15.6	15.5	15.5	15.4	15.3	15.6	15.6	15.6	15.6
G170.0	15.7	15.7	15.6	15.5	15.4	15.4	15.7	15.6	15.6	15.6
G171.0	15.7	15.7	15.6	15.5	15.4	15.5	15.8	15.7	15.8	15.7
G172.0	15.8	15.8	15.7	15.6	15.6	15.5	15.8	15.7	15.8	15.7
G173.0	15.9	15.8	15.8	15.7	15.6	15.5	15.8	15.7	15.8	15.8
G174.0	15.9	15.9	15.8	15.7	15.7	15.6	15.8	15.8	15.8	15.8
G175.0	15.9	15.9	15.9	15.8	15.9	15.7	15.9	15.8	16.0	15.8
G176.0	16.0	15.9	15.9	15.9	15.9	15.8	15.9	15.9	15.9	15.9
G177.0	16.1	16.0	15.9	15.9	15.9	15.8	16.1	16.0	16.0	15.9
G178.0	16.1	16.0	16.0	16.0	16.0	15.9	16.1	15.9	16.0	16.0
G179.0	16.1	16.0	16.0	16.0	16.0	15.9	16.0	16.0	16.0	16.0
G180.0	16.2	16.1	16.0	16.0	16.0	15.9	16.1	16.0	16.0	16.0

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1286.7	1286.7	1286.7							
G1.0	1286.4	1286.2	1286.5							
G2.0	1285.5	1285.3	1285.8							
G3.0	1284.1	1284.0	1284.3							
G4.0	1282.0	1282.4	1282.8							
G5.0	1279.8	1279.6	1280.6							
G6.0	1276.5	1276.9	1277.5							
G7.0	1273.0	1273.8	1274.5							
G8.0	1269.0	1270.0	1271.4							
G9.0	1264.5	1266.0	1267.0							
G10.0	1259.8	1261.0	1262.6							
G11.0	1254.3	1255.8	1257.3							
G12.0	1248.3	1250.5	1252.0							
G13.0	1241.9	1244.2	1246.1							
G14.0	1234.4	1237.4	1239.5							
G15.0	1227.2	1230.8	1233.1							
G16.0	1218.8	1222.7	1225.4							
G17.0	1211.0	1215.1	1218.2							
G18.0	1202.1	1207.4	1210.2							
G19.0	1192.4	1197.9	1201.4							
G20.0	1182.6	1189.4	1193.0							
G21.0	1173.0	1180.3	1183.8							
G22.0	1161.9	1169.7	1173.9							
G23.0	1151.6	1159.5	1164.4							
G24.0	1139.4	1148.1	1153.1							
G25.0	1128.1	1137.3	1142.5							
G26.0	1116.5	1127.0	1132.1							
G27.0	1103.0	1113.6	1120.2							
G28.0	1090.6	1102.1	1108.2							
G29.0	1077.1	1090.4	1097.0							
G30.0	1063.0	1076.3	1084.0							
G31.0	1049.8	1063.9	1071.4							
G32.0	1034.5	1050.1	1057.6							
G33.0	1020.3	1036.3	1044.5							
G34.0	1005.3	1022.5	1031.6							
G35.0	989.5	1007.3	1016.5							
G36.0	974.0	992.6	1003.1							

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 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	957.6	977.4	988.8							
G38.0	941.4	962.1	973.6							
G39.0	925.9	947.9	958.8							
G40.0	908.2	930.9	943.2							
G41.0	891.9	915.9	928.0							
G42.0	875.2	900.4	913.4							
G43.0	857.2	883.1	896.5							
G44.0	840.5	867.3	881.6							
G45.0	821.2	850.3	865.8							
G46.0	804.2	833.8	849.2							
G47.0	786.0	816.8	833.1							
G48.0	767.0	799.0	816.2							
G49.0	748.7	783.0	799.9							
G50.0	731.0	765.6	784.2							
G51.0	711.4	747.7	766.3							
G52.0	692.7	730.4	750.7							
G53.0	672.8	712.2	734.2							
G54.0	653.6	694.7	717.0							
G55.0	635.3	678.0	700.2							
G56.0	614.2	658.8	682.9							
G57.0	595.5	641.8	666.2							
G58.0	576.0	624.3	649.5							
G59.0	555.6	605.8	631.5							
G60.0	535.9	588.2	615.4							
G61.0	515.4	569.6	597.2							
G62.0	495.6	552.7	581.2							
G63.0	476.4	534.7	564.3							
G64.0	455.9	516.0	545.8							
G65.0	435.9	498.0	529.8							
G66.0	416.8	481.0	513.7							
G67.0	396.1	461.9	495.3							
G68.0	376.1	444.0	478.5							
G69.0	355.1	425.3	460.6							
G70.0	335.2	407.6	443.4							
G71.0	316.2	390.5	426.9							
G72.0	294.6	370.9	407.6							
G73.0	276.1	353.7	390.6							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	256.7	335.6	372.7							
G75.0	236.6	316.7	353.8							
G76.0	217.9	298.5	335.5							
G77.0	198.9	279.4	316.2							
G78.0	181.2	260.7	297.2							
G79.0	164.8	242.8	275.7							
G80.0	146.2	221.4	248.8							
G81.0	129.5	197.9	220.0							
G82.0	112.6	170.4	188.1							
G83.0	96.8	142.0	144.1							
G84.0	80.9	107.0	96.6							
G85.0	61.3	61.6	35.5							
G86.0	43.2	22.1	6.1							
G87.0	24.4	8.6	4.9							
G88.0	11.7	6.8	4.4							
G89.0	7.7	5.1	4.2							
G90.0	4.4	4.6	4.1							
G91.0	4.5	4.7	4.2							
G92.0	4.7	4.8	4.3							
G93.0	4.8	5.0	4.6							
G94.0	4.9	5.1	4.7							
G95.0	5.1	5.3	4.8							
G96.0	5.3	5.4	5.0							
G97.0	5.4	5.5	5.1							
G98.0	5.6	5.7	5.3							
G99.0	5.8	5.9	5.5							
G100.0	6.0	6.1	5.6							
G101.0	6.2	6.2	5.8							
G102.0	6.3	6.3	5.9							
G103.0	6.5	6.5	6.1							
G104.0	6.7	6.7	6.2							
G105.0	6.8	6.8	6.4							
G106.0	6.9	7.0	6.5							
G107.0	7.0	7.1	6.7							
G108.0	7.2	7.3	6.9							
G109.0	7.4	7.5	7.1							
G110.0	7.7	7.6	7.3							

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 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	7.9	7.8	7.3							
G112.0	8.1	7.9	7.5							
G113.0	8.1	8.0	7.6							
G114.0	8.2	8.2	7.8							
G115.0	8.3	8.3	8.0							
G116.0	8.4	8.5	8.2							
G117.0	8.6	8.7	8.3							
G118.0	8.8	8.8	8.5							
G119.0	9.0	9.1	8.7							
G120.0	9.2	9.2	8.8							
G121.0	9.3	9.4	9.1							
G122.0	9.5	9.6	9.2							
G123.0	9.6	9.8	9.4							
G124.0	9.8	9.9	9.7							
G125.0	10.0	10.1	9.9							
G126.0	10.2	10.3	10.0							
G127.0	10.3	10.5	10.2							
G128.0	10.4	10.6	10.4							
G129.0	10.6	10.7	10.5							
G130.0	10.8	10.9	10.8							
G131.0	10.9	11.1	11.0							
G132.0	11.1	11.3	11.1							
G133.0	11.3	11.5	11.3							
G134.0	11.5	11.7	11.4							
G135.0	11.5	11.9	11.6							
G136.0	11.7	12.0	11.8							
G137.0	12.0	12.2	11.9							
G138.0	12.1	12.4	12.1							
G139.0	12.3	12.5	12.3							
G140.0	12.6	12.6	12.4							
G141.0	12.5	12.7	12.5							
G142.0	12.7	13.0	12.6							
G143.0	12.9	13.0	12.7							
G144.0	13.1	13.2	13.0							
G145.0	13.2	13.4	13.1							
G146.0	13.4	13.4	13.2							
G147.0	13.5	13.6	13.4							

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	13.6	13.7	13.5							
G149.0	13.8	13.9	13.6							
G150.0	14.0	14.0	13.8							
G151.0	14.2	14.1	13.9							
G152.0	14.2	14.3	14.0							
G153.0	14.3	14.4	14.2							
G154.0	14.5	14.5	14.3							
G155.0	14.6	14.6	14.4							
G156.0	14.7	14.8	14.5							
G157.0	14.8	14.9	14.6							
G158.0	14.8	14.9	14.7							
G159.0	15.0	15.0	14.8							
G160.0	15.0	15.2	14.9							
G161.0	15.1	15.2	15.0							
G162.0	15.3	15.3	15.0							
G163.0	15.3	15.4	15.2							
G164.0	15.4	15.5	15.2							
G165.0	15.5	15.5	15.3							
G166.0	15.5	15.6	15.4							
G167.0	15.6	15.6	15.5							
G168.0	15.7	15.7	15.5							
G169.0	15.7	15.8	15.6							
G170.0	15.7	15.8	15.7							
G171.0	15.9	15.8	15.7							
G172.0	15.8	15.9	15.8							
G173.0	15.9	15.9	15.9							
G174.0	16.0	15.9	15.9							
G175.0	16.0	16.0	15.9							
G176.0	16.0	16.0	16.0							
G177.0	16.1	16.0	16.1							
G178.0	16.1	16.0	16.1							
G179.0	16.1	16.0	16.1							
G180.0	16.1	16.0	16.2							

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:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	3458.35
L 0-180(75) av	3815.23
L 0-180(85) av	1787.41
L 90-270(65) av	2664.31
L 90-270(75) av	2150.86
L 90-270(85) av	1137.80
L 45(65) av	3027.67
L 45(75) av	2944.85
L 45(85) av	2122.04

Standard: GB/T 29293-2012