

Report No.:

Test Time: 2023-05-18 16:02

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Height (mm): 45

Current: 0.234 A

Power Factor: 0.993

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 600

Voltage: 120.0 V

Power: 27.87 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3782 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.5, 159.1, 165.8, 166.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 116.8, 108.8, 112.5, 112.3

Luminaire Efficacy Rating (LER): 135.75

Max. Intensity: 1288.05 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 3782.0 lm

Efficiency: 100%

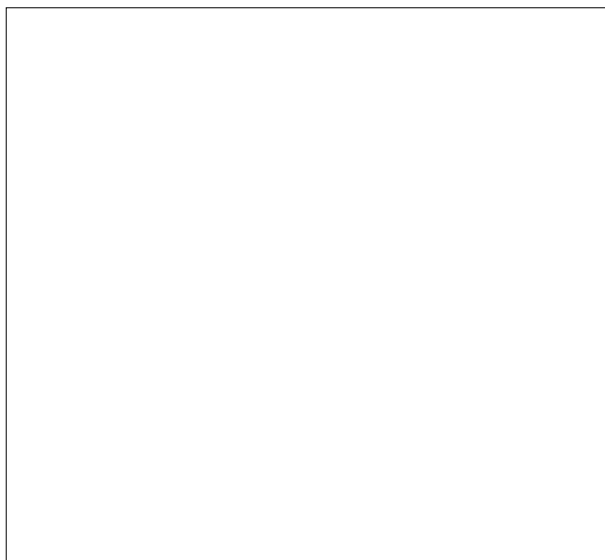
Upward Ratio: 1%

C0r0 Intensity: 1287.15 cd

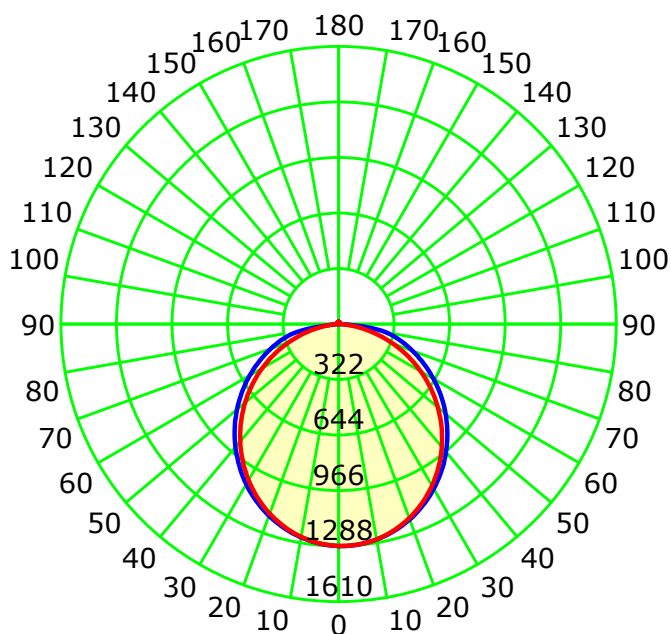
Pos of Max. Intensity: H30 V2

S/MH(C90/C270): 1.23

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

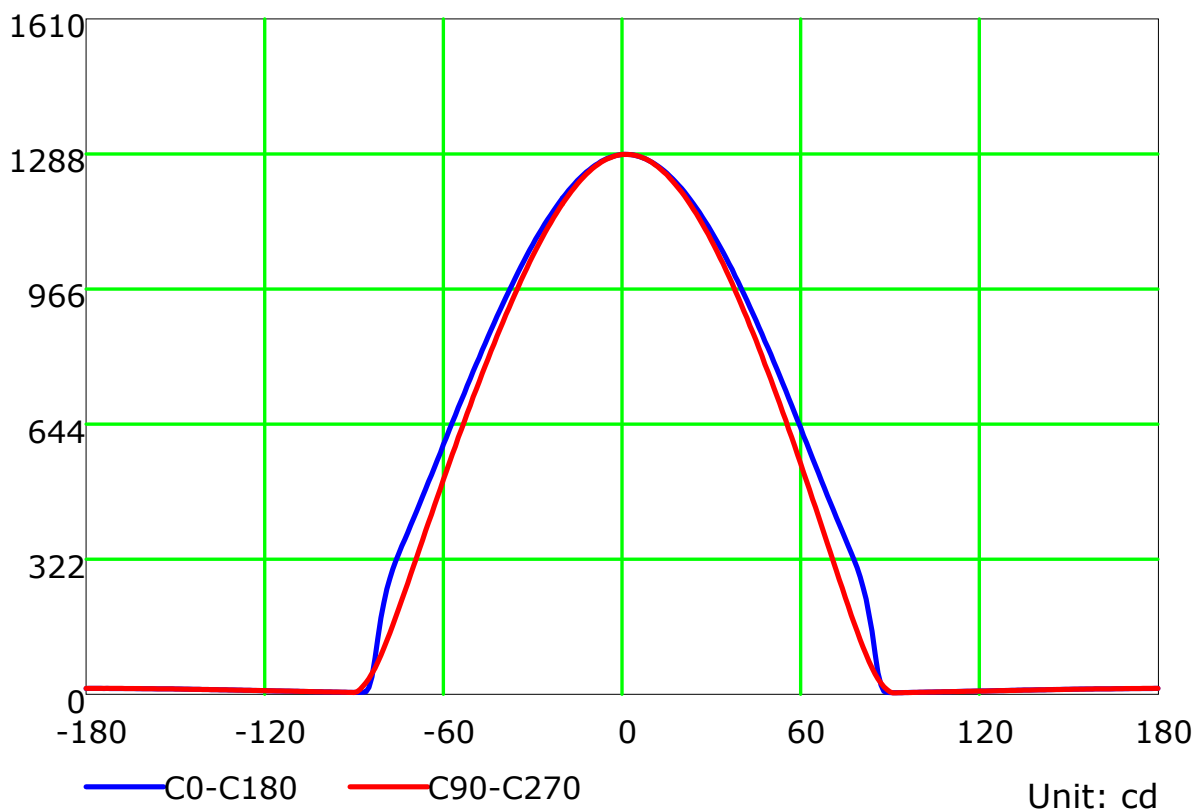
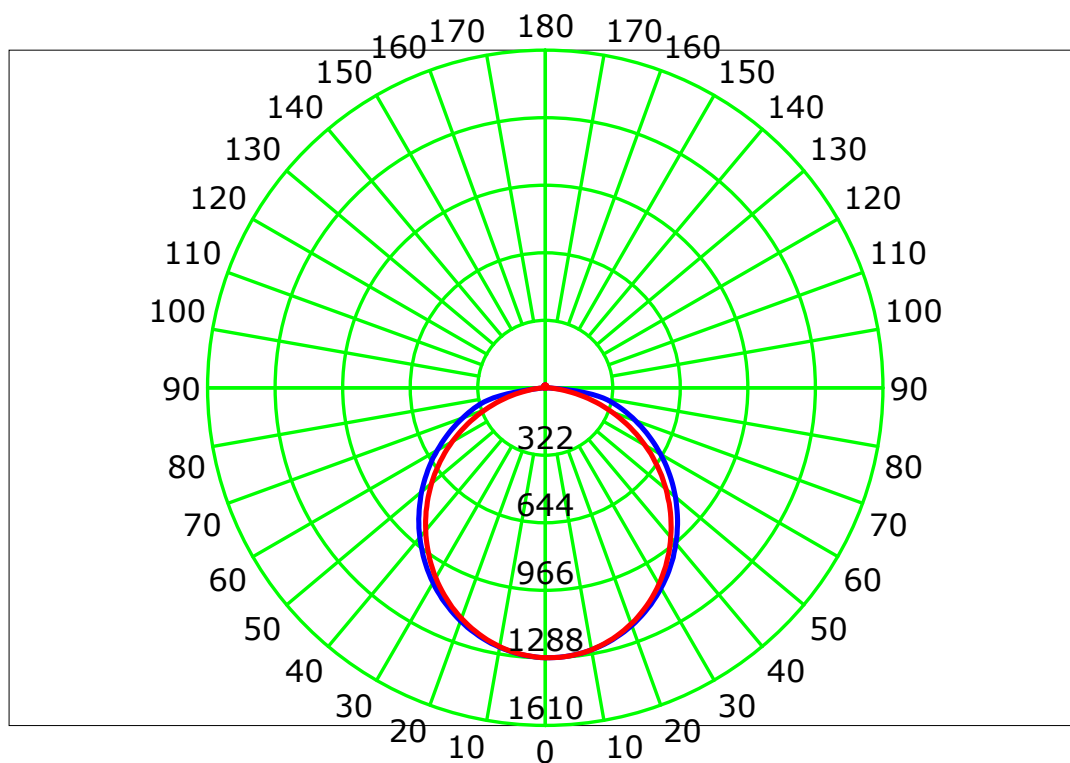
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

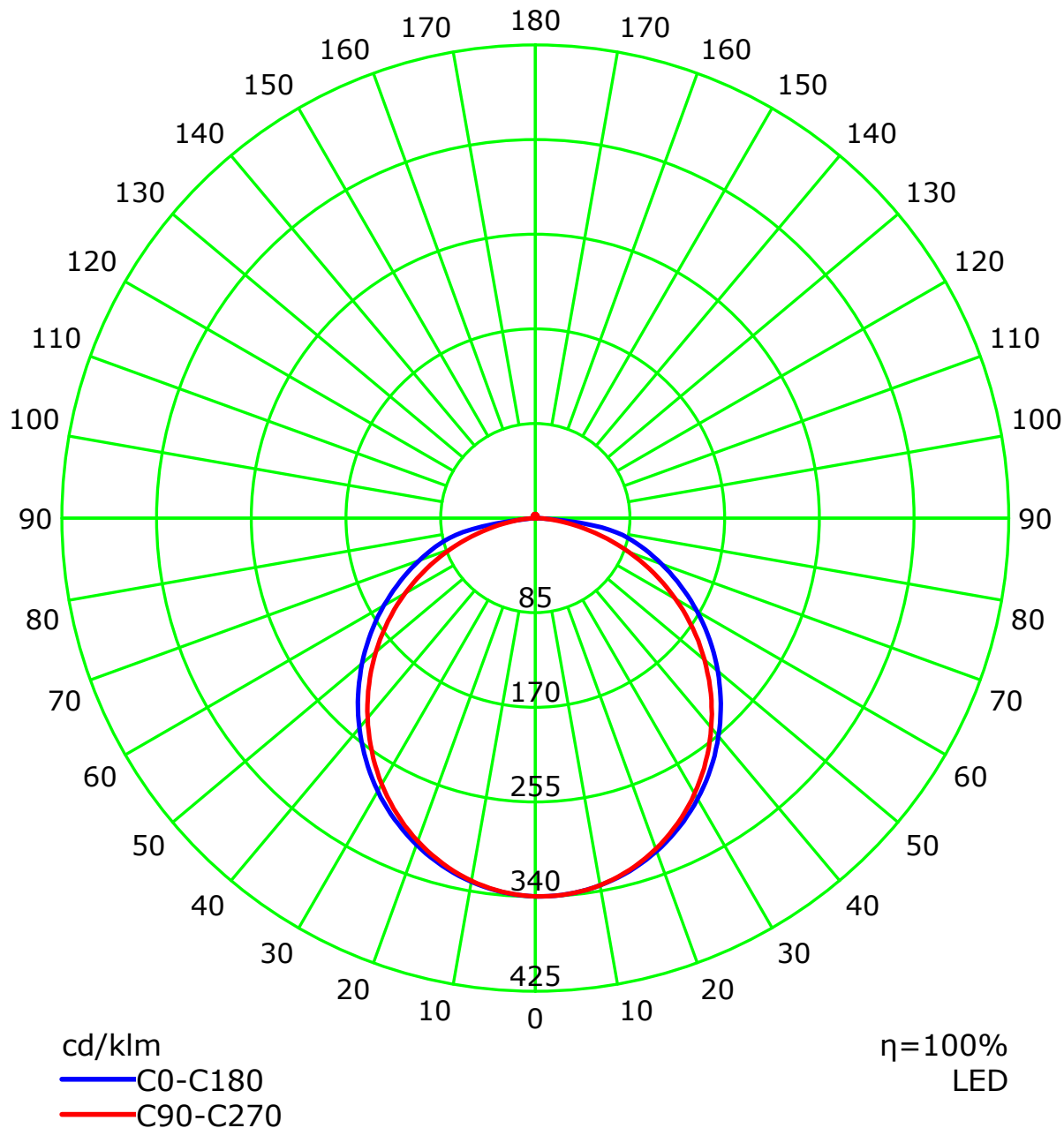
Luminous Intensity Distribution Curve



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)



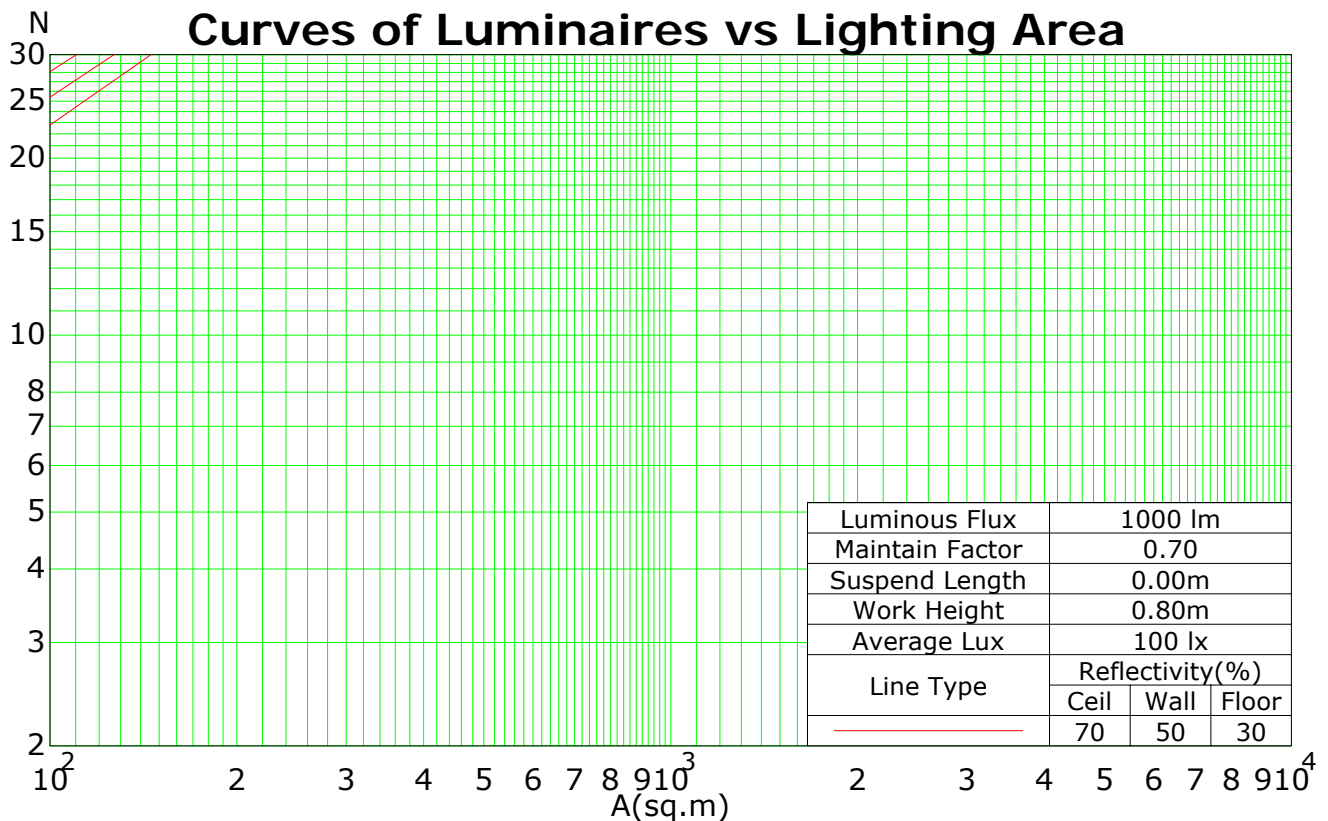
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	0.99
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

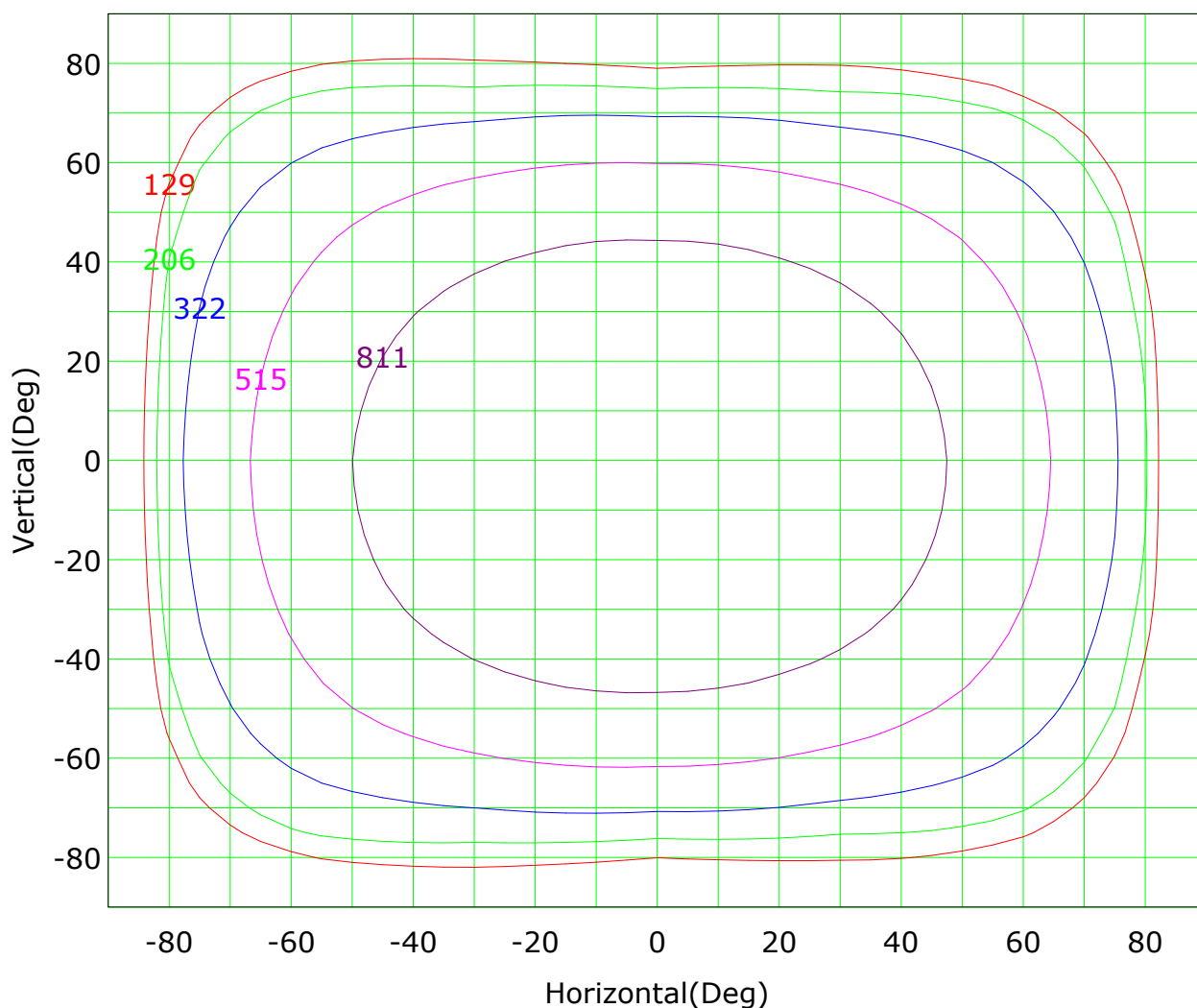
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 1288 cd

(10%): 129 cd	(16%): 206 cd
(25%): 322 cd	(40%): 515 cd
(63%): 811 cd	(100%): 1288 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

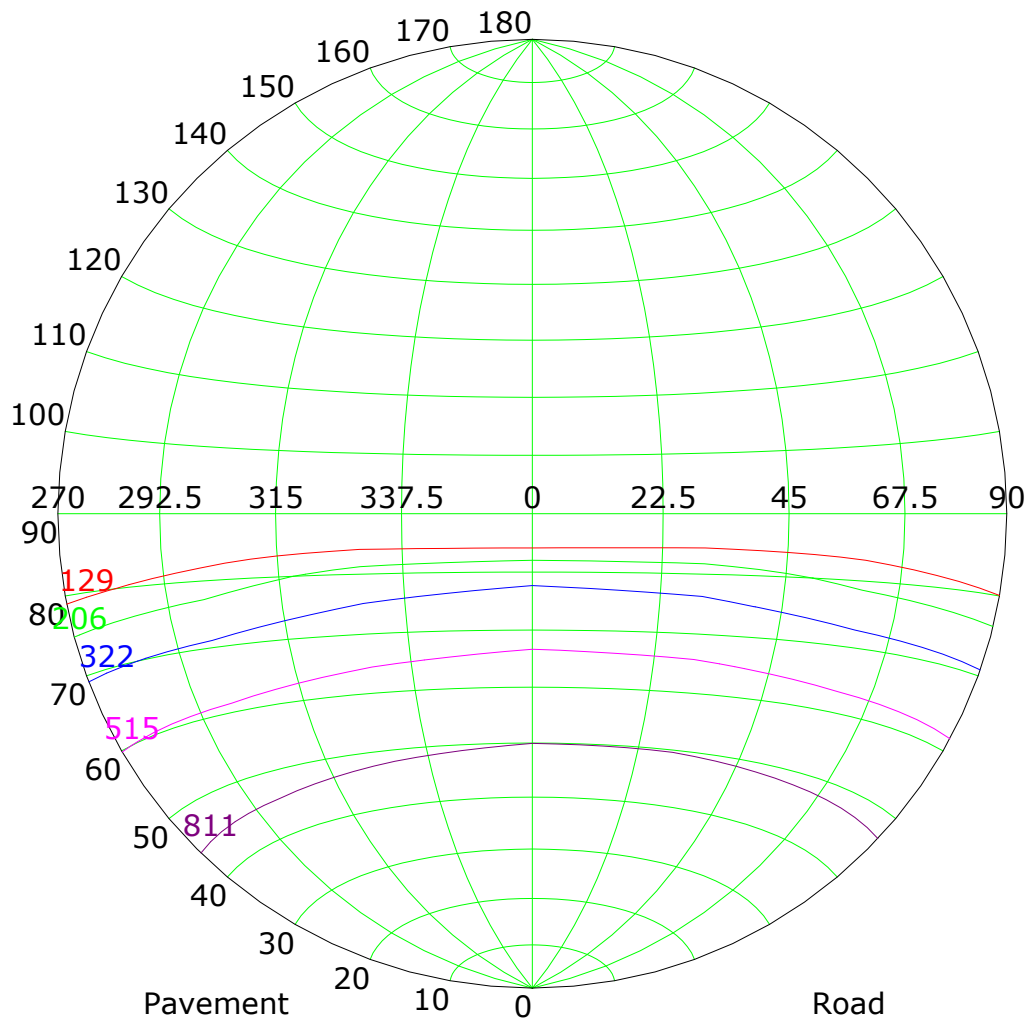
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 1288 cd

(10%): 129 cd	(16%): 206 cd
(25%): 322 cd	(40%): 515 cd
(63%): 811 cd	(100%): 1288 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

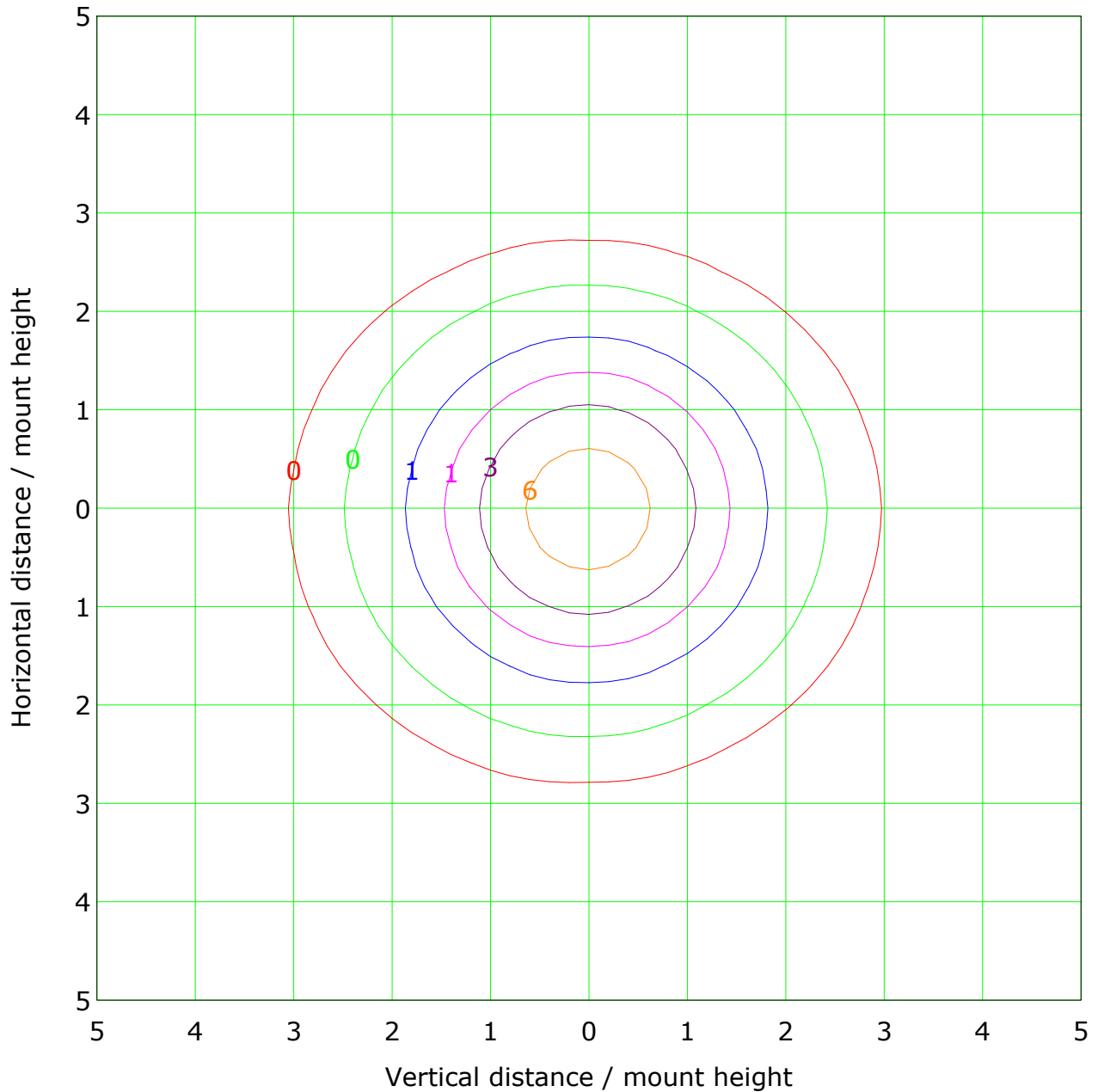
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

IsoLux Plot



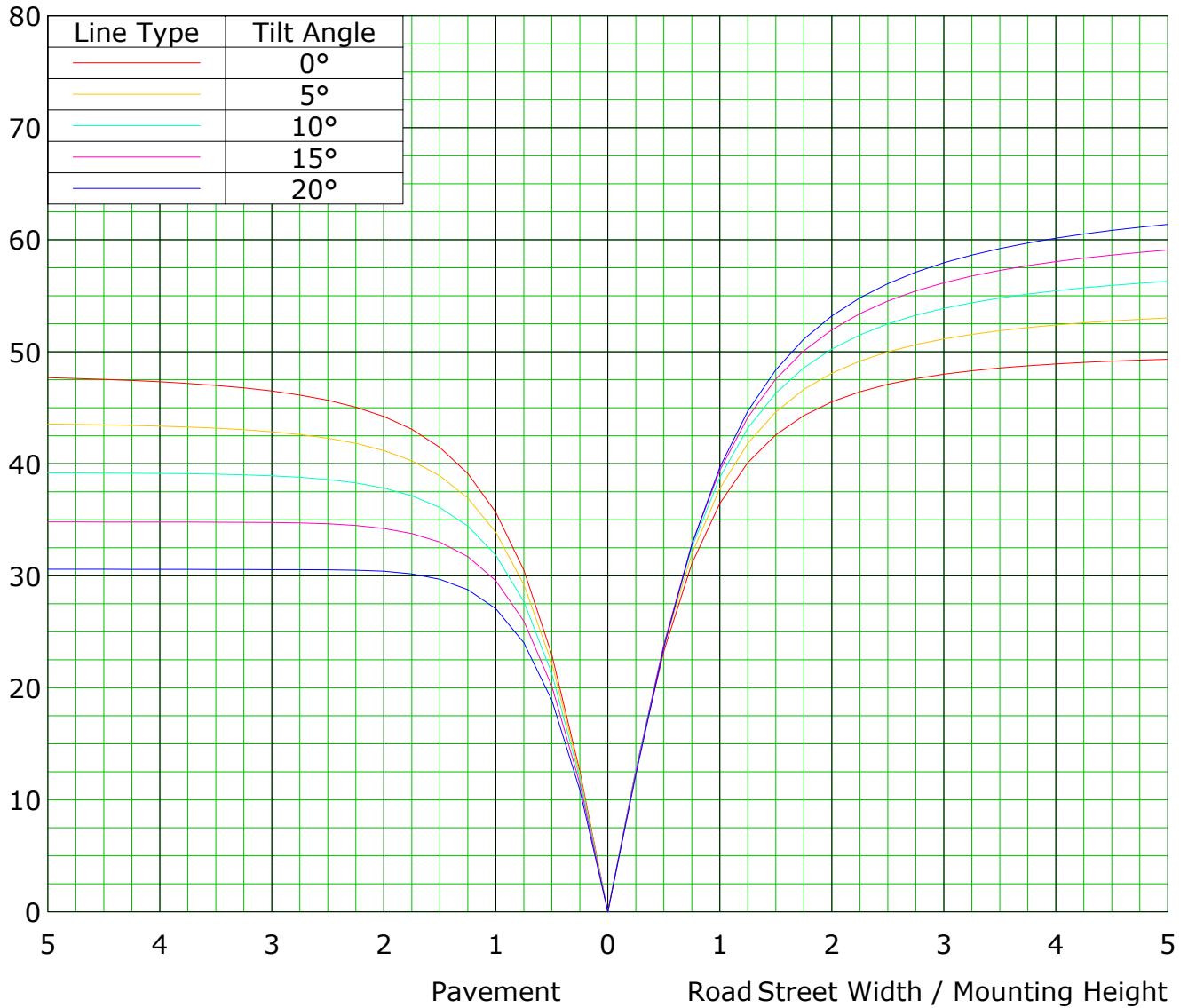
Mounting Height: 10.0m Max Lux(100%): 12.9 lx	
— (1%): 0.1 lx	— (2%): 0.3 lx
— (5%): 0.6 lx	— (10%): 1.3 lx
— (20%): 2.6 lx	— (50%): 6.4 lx
— (100%): 12.9 lx	

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

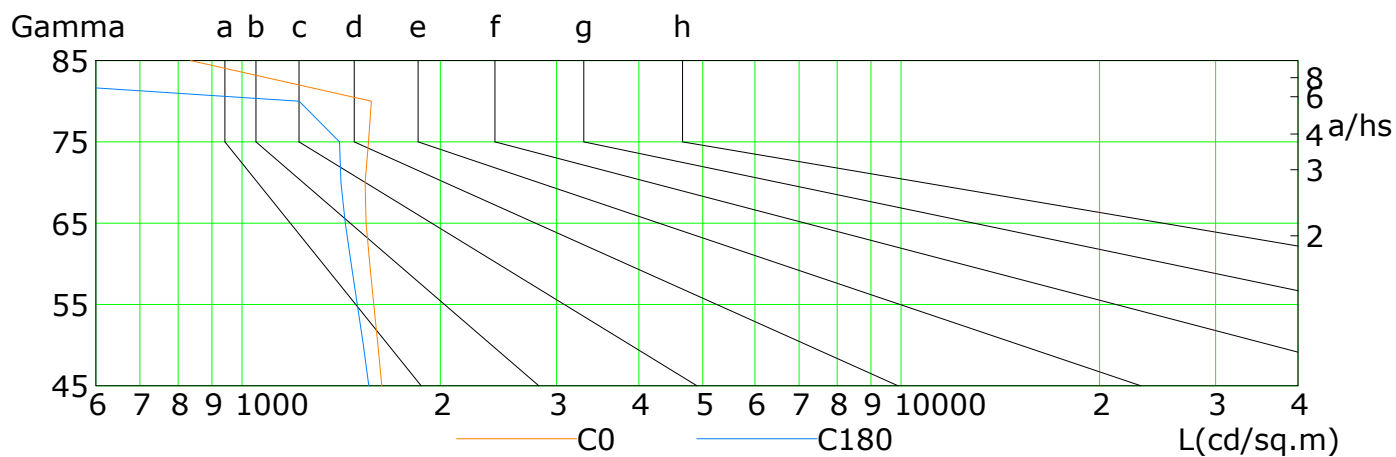
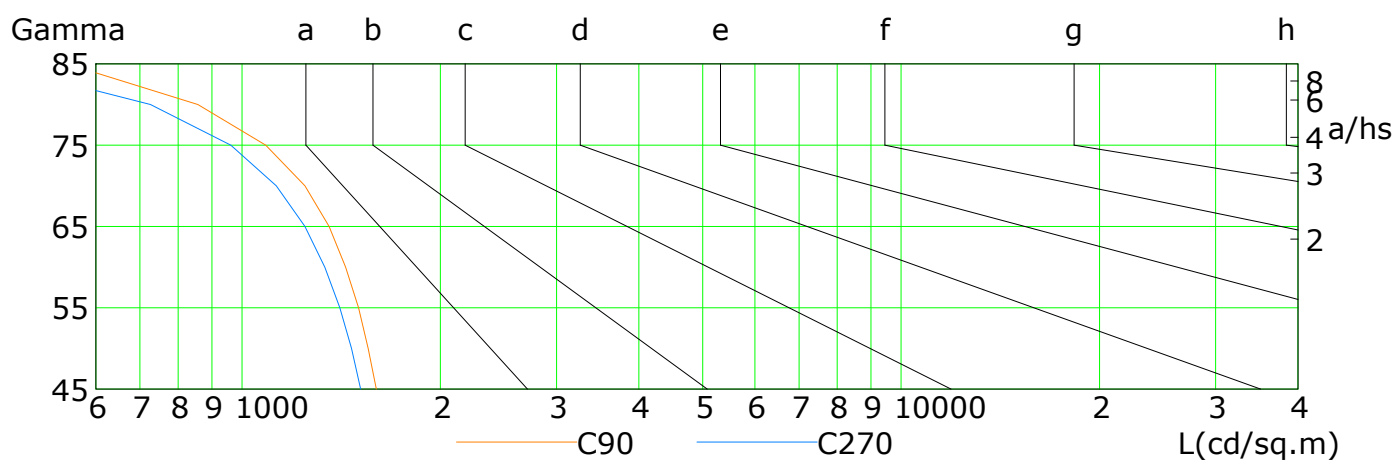
Humidity:

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	1630	1607	1584	1563	1543	1537	1556	1571	835
C90	1599	1554	1502	1436	1356	1246	1086	857	543
C180	1558	1528	1496	1464	1435	1413	1406	1221	141
C270	1514	1466	1408	1335	1246	1127	962	726	417

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

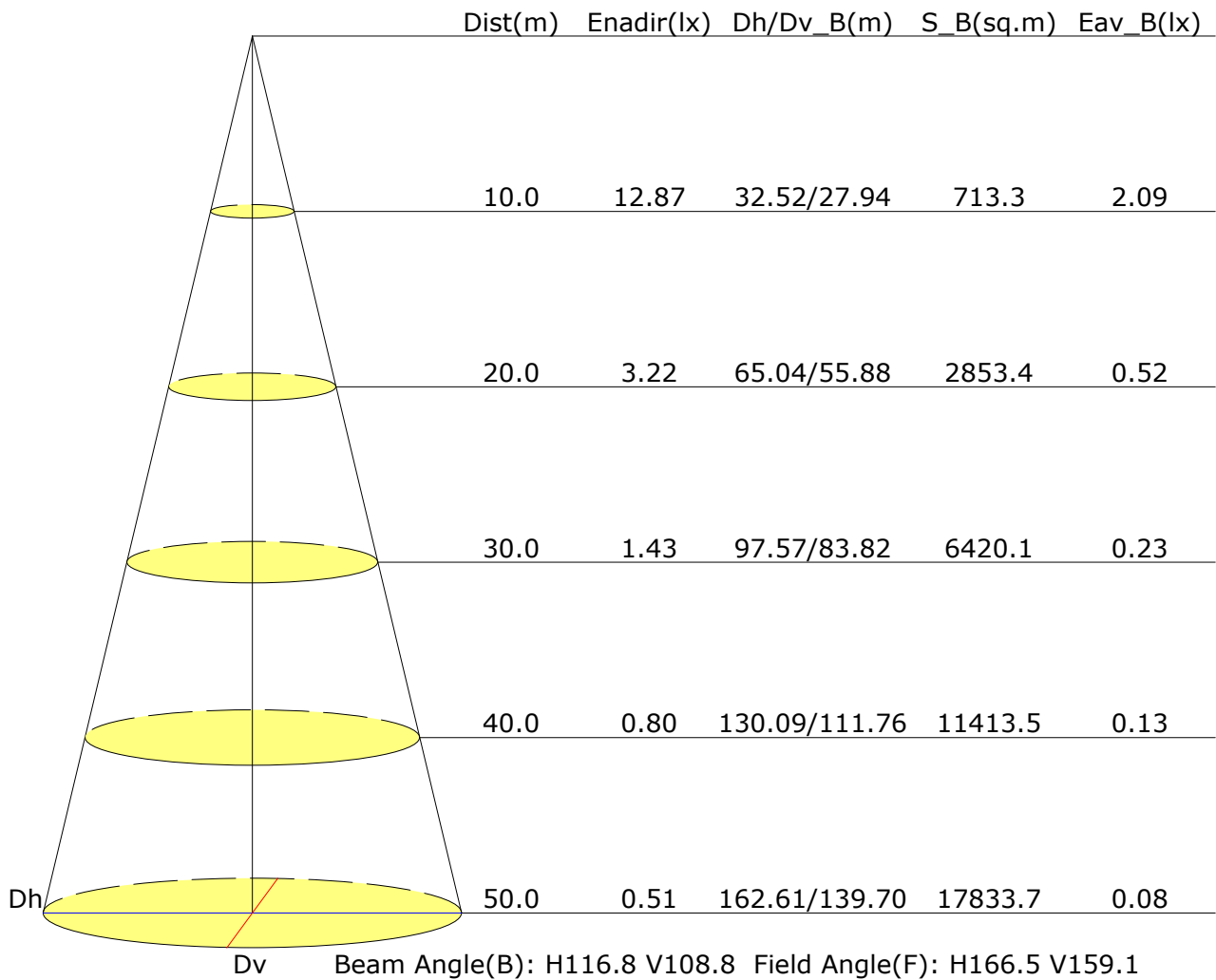
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

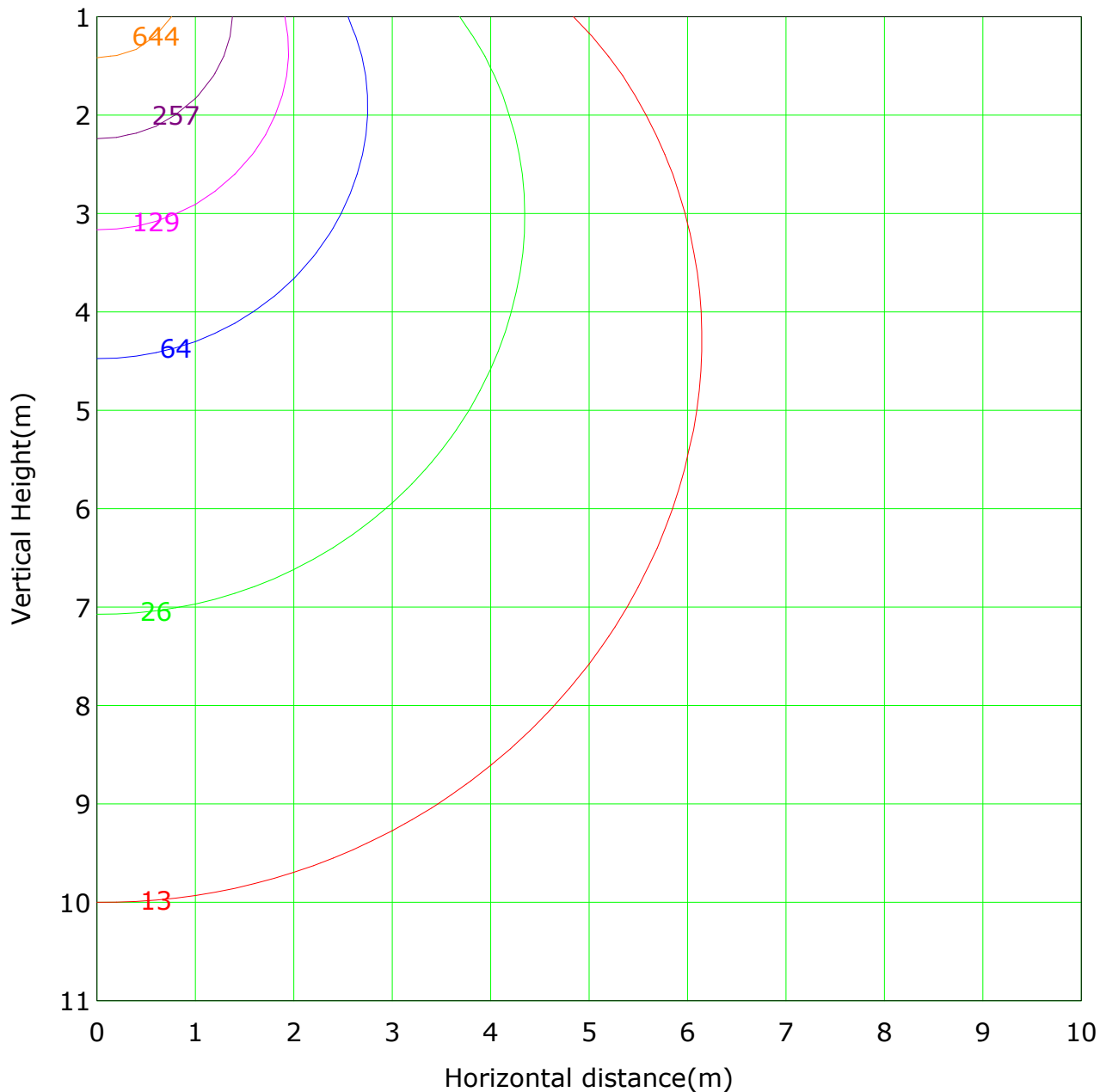
Illuminance at a Distance



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: 1287.1 lx

— (1%): 12.9 lx	— (2%): 25.7 lx
— (5%): 64.4 lx	— (10%): 128.7 lx
— (20%): 257.4 lx	— (50%): 643.6 lx
— (100%):1287.1 lx	

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

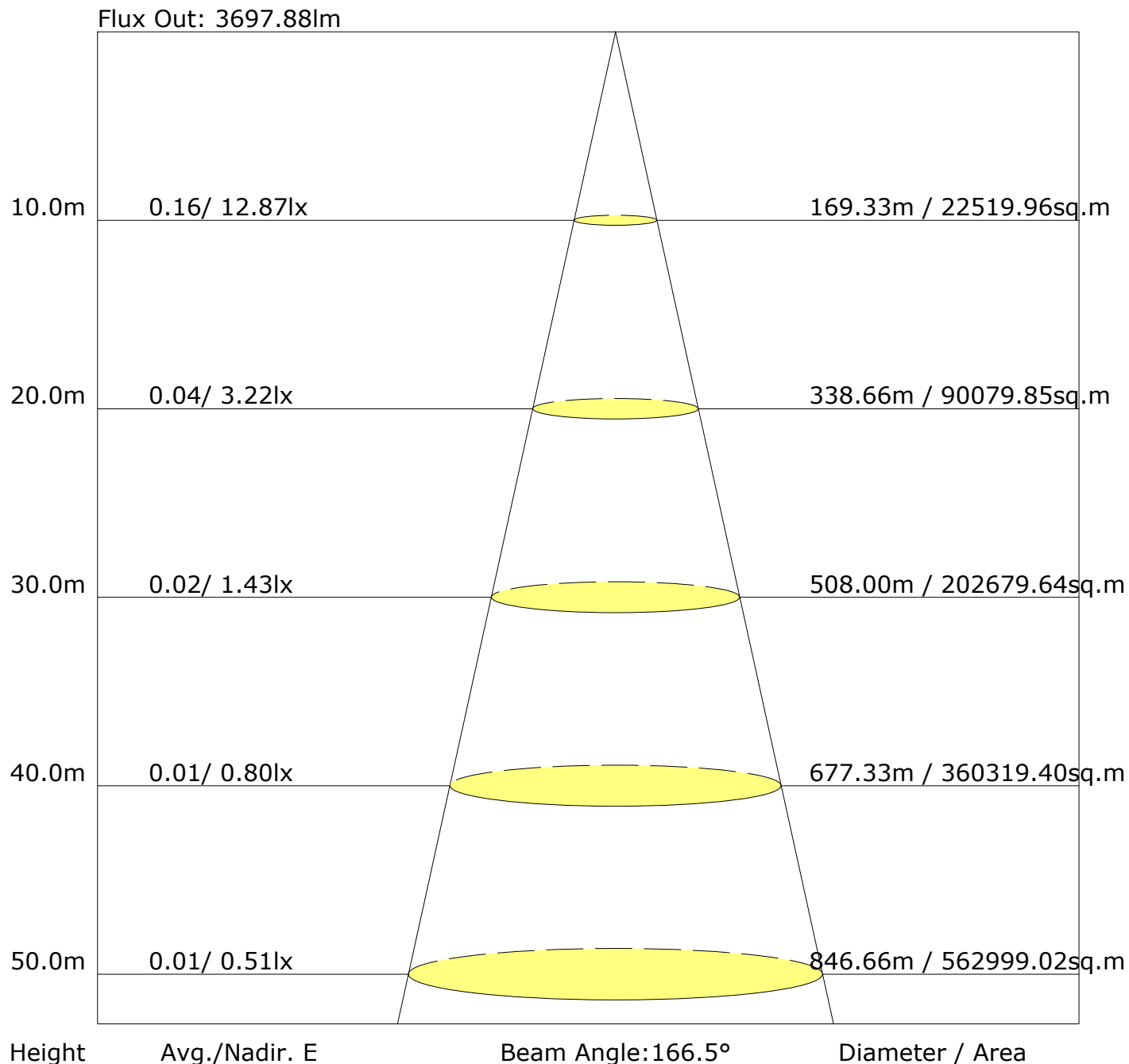
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.011 m
Humidity:
Inspector:

Area Flux Table

Unit: lm

		Unit: m																		
-90	0.0	0.0	0.1	0.2	0.5	0.9	1.3	1.4	1.4	1.5	1.7	1.8	1.7	1.3	0.7	0.3	0.1	0.0	14.9	0.8
-80	0.0	0.1	0.8	2.4	3.8	4.8	5.5	6.1	6.3	6.4	6.4	5.9	5.3	4.5	3.4	1.9	0.5	0.0	64.2	60.6
-70	0.0	0.5	2.6	4.8	6.7	8.6	10.3	11.7	12.4	12.5	12.0	10.7	9.1	7.2	5.3	3.3	1.2	0.1	119.0	118.3
-60	0.0	1.2	3.7	6.4	9.4	12.4	15.1	17.3	18.5	18.6	17.7	15.7	13.0	10.0	7.0	4.2	1.8	0.2	172.2	171.8
-50	0.1	1.8	4.6	8.0	12.0	16.1	19.7	22.6	24.1	24.2	22.9	20.3	16.7	12.6	8.6	5.0	2.2	0.3	221.6	221.3
-40	0.1	2.1	5.3	9.4	14.3	19.3	23.8	27.2	29.2	29.3	27.6	24.4	19.9	15.0	10.0	5.7	2.5	0.3	265.4	265.2
-30	0.2	2.4	5.8	10.5	16.1	21.9	27.1	31.1	33.4	33.6	31.6	27.7	22.6	16.8	11.2	6.3	2.7	0.4	301.6	301.4
-20	0.2	2.6	6.3	11.4	17.4	23.8	29.6	34.0	36.5	36.7	34.5	30.2	24.5	18.2	12.0	6.7	2.9	0.4	328.0	327.9
-10	0.2	2.7	6.5	11.9	18.2	24.8	30.9	35.6	38.3	38.5	36.1	31.6	25.6	19.0	12.6	7.0	3.0	0.4	342.9	342.8
0	0.2	2.7	6.5	11.9	18.3	24.9	31.1	35.9	38.5	38.7	36.3	31.8	25.8	19.1	12.6	7.0	3.0	0.4	344.9	344.7
10	0.2	2.6	6.3	11.5	17.7	24.1	30.1	34.6	37.2	37.4	35.1	30.8	25.0	18.5	12.2	6.8	2.9	0.4	333.4	333.3
20	0.2	2.4	5.9	10.7	16.5	22.5	27.9	32.0	34.4	34.6	32.5	28.6	23.3	17.3	11.4	6.4	2.7	0.4	309.7	309.6
30	0.1	2.2	5.4	9.7	14.7	20.0	24.7	28.3	30.4	30.5	28.8	25.3	20.7	15.5	10.3	5.8	2.5	0.3	275.3	275.2
40	0.1	1.8	4.7	8.3	12.5	16.8	20.7	23.7	25.4	25.5	24.1	21.3	17.5	13.2	8.9	5.1	2.2	0.3	232.2	232.0
50	0.0	1.4	3.9	6.7	9.9	13.1	16.0	18.4	19.7	19.8	18.8	16.7	13.8	10.6	7.3	4.3	1.9	0.2	182.5	182.1
60	0.0	0.7	2.9	5.0	7.1	9.2	11.0	12.6	13.4	13.6	13.0	11.7	9.9	7.8	5.6	3.4	1.3	0.1	128.3	127.6
70	0.0	0.2	1.2	3.0	4.3	5.2	6.1	6.8	7.1	7.2	7.2	6.7	5.9	5.0	3.7	2.0	0.5	0.0	72.0	69.8
80	0.0	0.0	0.1	0.4	0.9	1.5	1.8	1.8	1.8	1.9	2.1	2.1	1.9	1.4	0.8	0.3	0.1	0.0	18.8	3.7
90	2.0	27.4	72.6	132.1	200.3	269.8	332.6	381.3	407.9	410.4	388.5	343.3	282.3	213.0	143.7	81.7	33.9	4.2	3727	
Flux(T)	0.9	25.7	71.1	130.5	198.4	267.3	332.9	378.4	404.4	407.0	385.2	340.3	279.8	211.2	142.1	80.3	32.5	3.1		3688
Flux(E)																				

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	14.3	15.7	14.6	15.9	16.2	13.7	15.1	14.0	15.4	15.6
3H	16.1	17.4	16.5	17.7	18.0	15.2	16.4	15.5	16.7	17.0
4H	17.0	18.2	17.4	18.5	18.8	15.7	16.9	16.1	17.2	17.5
6H	17.8	18.9	18.2	19.2	19.6	16.0	17.2	16.4	17.5	17.9
8H	18.1	19.2	18.5	19.5	19.9	16.1	17.2	16.5	17.6	17.9
12H	18.2	19.3	18.6	19.6	20.0	16.2	17.2	16.6	17.6	17.9
X=4H Y=2H	14.9	16.1	15.3	16.4	16.7	14.4	15.6	14.8	16.0	16.3
3H	16.9	18.0	17.3	18.3	18.7	16.1	17.1	16.5	17.5	17.9
4H	18.0	18.9	18.4	19.3	19.7	16.8	17.7	17.2	18.1	18.5
6H	18.9	19.8	19.4	20.2	20.6	17.2	18.1	17.7	18.5	18.9
8H	19.3	20.1	19.8	20.5	21.0	17.4	18.1	17.8	18.6	19.0
12H	19.5	20.2	20.0	20.6	21.1	17.4	18.1	17.9	18.6	19.0
X=8H Y=4H	18.2	19.0	18.7	19.4	19.9	17.2	17.9	17.7	18.4	18.8
6H	19.4	20.0	19.9	20.5	21.0	17.8	18.4	18.3	18.9	19.4
8H	19.9	20.4	20.4	20.9	21.4	18.1	18.6	18.6	19.1	19.6
12H	20.2	20.6	20.7	21.1	21.7	18.2	18.7	18.7	19.2	19.7
X=12H Y=4H	18.3	18.9	18.7	19.4	19.9	17.3	17.9	17.7	18.4	18.9
6H	19.5	20.0	20.0	20.5	21.0	18.0	18.5	18.5	19.0	19.5
8H	20.0	20.5	20.5	21.0	21.5	18.2	18.7	18.8	19.2	19.8
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 3782lm ($8\log(F/F_0) = 4.6$).

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

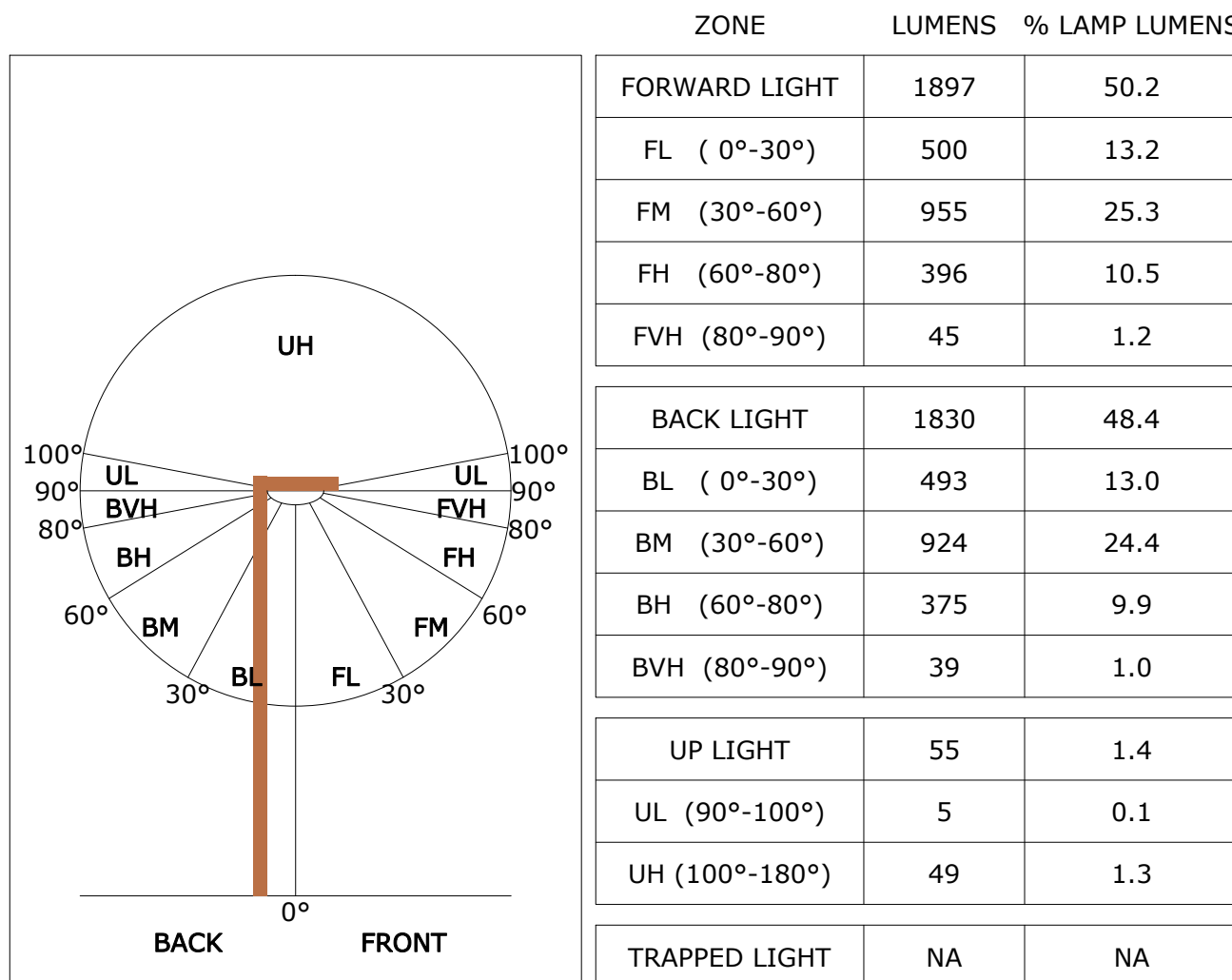
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

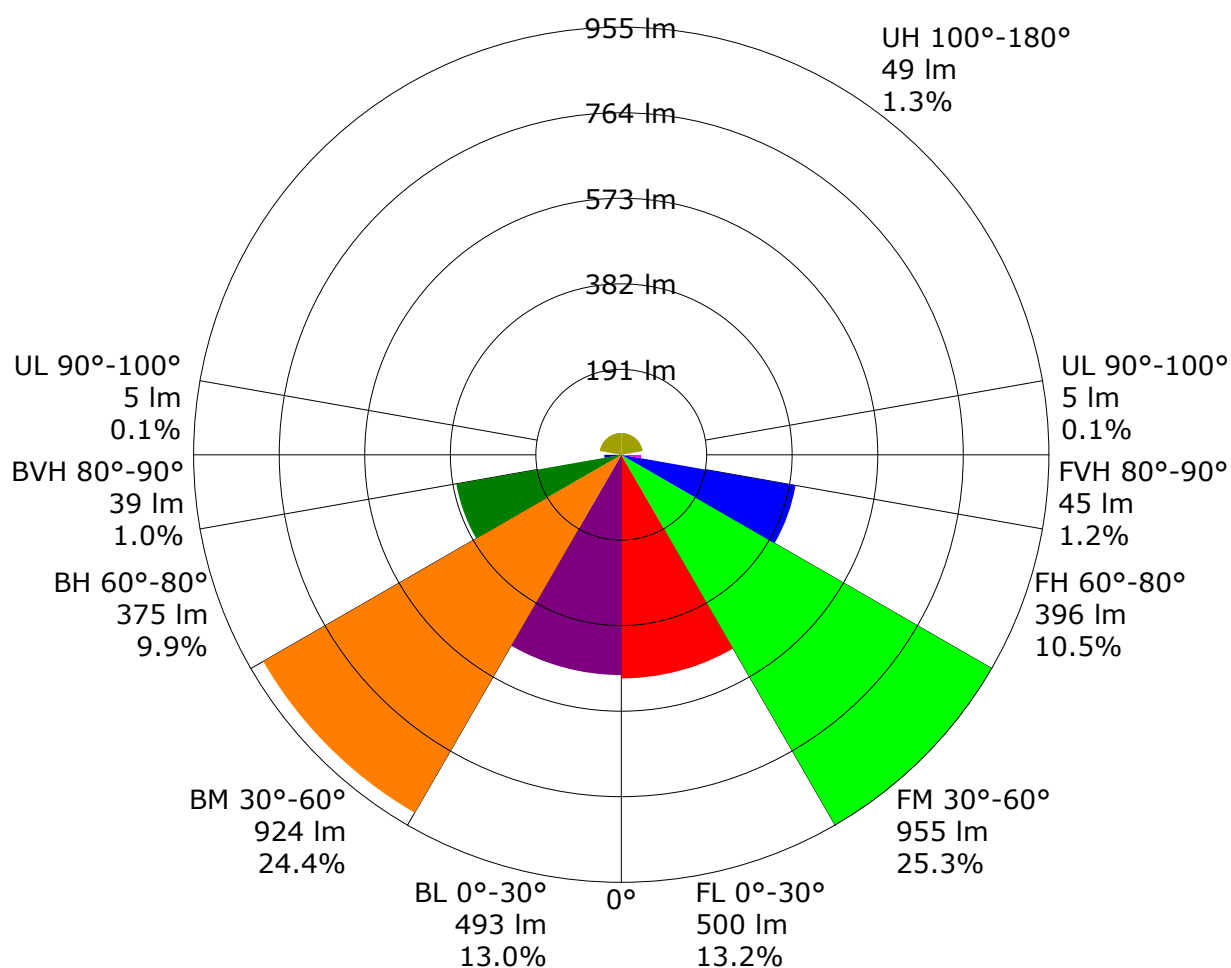


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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

Forward Light

Scale= 955 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	
Rating:28W 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(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	0.20	
	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	
<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>												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:28W 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	1286.9	1.2	1.2	0.03	0.03
1.0-2.0	1286.4	3.7	4.9	0.10	0.13
2.0-3.0	1285.4	6.1	11.1	0.16	0.29
3.0-4.0	1283.8	8.6	19.7	0.23	0.52
4.0-5.0	1281.9	11.0	30.7	0.29	0.81
5.0-6.0	1279.4	13.4	44.1	0.36	1.17
6.0-7.0	1276.4	15.8	60.0	0.42	1.59
7.0-8.0	1272.8	18.2	78.2	0.48	2.07
8.0-9.0	1268.8	20.6	98.8	0.54	2.61
9.0-10.0	1264.4	22.9	121.7	0.61	3.22
10.0-11.0	1259.4	25.2	146.8	0.67	3.88
11.0-12.0	1253.9	27.4	174.2	0.72	4.61
12.0-13.0	1248.2	29.6	203.9	0.78	5.39
13.0-14.0	1241.8	31.8	235.7	0.84	6.23
14.0-15.0	1234.9	33.9	269.6	0.90	7.13
15.0-16.0	1227.5	36.0	305.5	0.95	8.08
16.0-17.0	1219.8	38.0	343.5	1.00	9.08
17.0-18.0	1211.8	40.0	383.5	1.06	10.14
18.0-19.0	1203.2	41.9	425.4	1.11	11.25
19.0-20.0	1194.1	43.7	469.1	1.16	12.40
20.0-21.0	1185.1	45.5	514.6	1.20	13.61
21.0-22.0	1175.1	47.2	561.8	1.25	14.85
22.0-23.0	1164.8	48.9	610.7	1.29	16.15
23.0-24.0	1154.1	50.5	661.2	1.33	17.48
24.0-25.0	1143.1	52.0	713.1	1.37	18.86
25.0-26.0	1132.1	53.4	766.6	1.41	20.27
26.0-27.0	1120.1	54.8	821.4	1.45	21.72
27.0-28.0	1107.9	56.1	877.5	1.48	23.20
28.0-29.0	1095.9	57.3	934.8	1.52	24.72
29.0-30.0	1083.0	58.5	993.3	1.55	26.26
30.0-31.0	1069.7	59.5	1052.8	1.57	27.84
31.0-32.0	1056.2	60.5	1113.4	1.60	29.44
32.0-33.0	1042.2	61.4	1174.8	1.62	31.06
33.0-34.0	1028.4	62.2	1237.0	1.65	32.71
34.0-35.0	1013.8	63.0	1300.0	1.66	34.37
35.0-36.0	999.0	63.6	1363.6	1.68	36.06

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	984.2	64.2	1427.8	1.70	37.75
37.0-38.0	968.8	64.7	1492.5	1.71	39.46
38.0-39.0	953.4	65.1	1557.6	1.72	41.18
39.0-40.0	937.4	65.4	1622.9	1.73	42.91
40.0-41.0	921.2	65.6	1688.6	1.73	44.65
41.0-42.0	905.6	65.8	1754.4	1.74	46.39
42.0-43.0	889.0	65.9	1820.2	1.74	48.13
43.0-44.0	872.2	65.8	1886.1	1.74	49.87
44.0-45.0	855.4	65.8	1951.8	1.74	51.61
45.0-46.0	838.1	65.6	2017.4	1.73	53.34
46.0-47.0	821.0	65.3	2082.7	1.73	55.07
47.0-48.0	803.3	64.9	2147.6	1.72	56.79
48.0-49.0	785.6	64.5	2212.1	1.71	58.49
49.0-50.0	768.4	64.1	2276.2	1.69	60.19
50.0-51.0	750.2	63.5	2339.7	1.68	61.86
51.0-52.0	731.9	62.8	2402.5	1.66	63.53
52.0-53.0	713.7	62.1	2464.6	1.64	65.17
53.0-54.0	694.9	61.3	2525.9	1.62	66.79
54.0-55.0	676.6	60.4	2586.3	1.60	68.38
55.0-56.0	657.7	59.4	2645.7	1.57	69.96
56.0-57.0	638.7	58.4	2704.1	1.54	71.50
57.0-58.0	620.3	57.4	2761.5	1.52	73.02
58.0-59.0	600.9	56.2	2817.7	1.49	74.50
59.0-60.0	581.5	54.9	2872.6	1.45	75.96
60.0-61.0	561.9	53.6	2926.2	1.42	77.37
61.0-62.0	542.4	52.3	2978.5	1.38	78.76
62.0-63.0	523.7	50.9	3029.4	1.35	80.10
63.0-64.0	504.0	49.5	3078.9	1.31	81.41
64.0-65.0	484.4	47.9	3126.8	1.27	82.68
65.0-66.0	465.6	46.5	3173.3	1.23	83.91
66.0-67.0	446.0	44.9	3218.2	1.19	85.09
67.0-68.0	426.5	43.2	3261.4	1.14	86.23
68.0-69.0	407.1	41.5	3302.9	1.10	87.33
69.0-70.0	387.7	39.8	3342.7	1.05	88.39
70.0-71.0	369.1	38.2	3380.9	1.01	89.39
71.0-72.0	350.0	36.4	3417.3	0.96	90.36

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	331.0	34.6	3451.9	0.92	91.27
73.0-74.0	312.9	32.9	3484.8	0.87	92.14
74.0-75.0	294.1	31.1	3515.9	0.82	92.96
75.0-76.0	275.5	29.3	3545.1	0.77	93.74
76.0-77.0	257.1	27.4	3572.5	0.72	94.46
77.0-78.0	238.6	25.5	3598.1	0.68	95.14
78.0-79.0	220.6	23.7	3621.8	0.63	95.77
79.0-80.0	200.9	21.7	3643.5	0.57	96.34
80.0-81.0	180.1	19.5	3662.9	0.52	96.85
81.0-82.0	157.8	17.1	3680.1	0.45	97.31
82.0-83.0	132.6	14.4	3694.5	0.38	97.69
83.0-84.0	106.0	11.5	3706.0	0.31	97.99
84.0-85.0	78.5	8.6	3714.6	0.23	98.22
85.0-86.0	52.8	5.8	3720.4	0.15	98.37
86.0-87.0	32.5	3.6	3723.9	0.09	98.47
87.0-88.0	17.4	1.9	3725.8	0.05	98.52
88.0-89.0	8.5	0.9	3726.8	0.02	98.54
89.0-90.0	5.4	0.6	3727.3	0.02	98.56
90.0-91.0	4.6	0.5	3727.8	0.01	98.57
91.0-92.0	4.4	0.5	3728.3	0.01	98.58
92.0-93.0	4.5	0.5	3728.8	0.01	98.60
93.0-94.0	4.6	0.5	3729.3	0.01	98.61
94.0-95.0	4.8	0.5	3729.9	0.01	98.62
95.0-96.0	4.9	0.5	3730.4	0.01	98.64
96.0-97.0	5.1	0.6	3730.9	0.01	98.65
97.0-98.0	5.2	0.6	3731.5	0.01	98.67
98.0-99.0	5.4	0.6	3732.1	0.02	98.68
99.0-100.0	5.5	0.6	3732.7	0.02	98.70
100.0-101.0	5.7	0.6	3733.3	0.02	98.71
101.0-102.0	5.8	0.6	3733.9	0.02	98.73
102.0-103.0	5.9	0.6	3734.5	0.02	98.75
103.0-104.0	6.1	0.6	3735.2	0.02	98.76
104.0-105.0	6.2	0.7	3735.9	0.02	98.78
105.0-106.0	6.3	0.7	3736.5	0.02	98.80
106.0-107.0	6.5	0.7	3737.2	0.02	98.82
107.0-108.0	6.6	0.7	3737.9	0.02	98.84

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	6.8	0.7	3738.6	0.02	98.85
109.0-110.0	6.9	0.7	3739.3	0.02	98.87
110.0-111.0	7.1	0.7	3740.0	0.02	98.89
111.0-112.0	7.2	0.7	3740.8	0.02	98.91
112.0-113.0	7.4	0.7	3741.5	0.02	98.93
113.0-114.0	7.5	0.8	3742.3	0.02	98.95
114.0-115.0	7.6	0.8	3743.1	0.02	98.97
115.0-116.0	7.8	0.8	3743.8	0.02	98.99
116.0-117.0	7.9	0.8	3744.6	0.02	99.01
117.0-118.0	8.0	0.8	3745.4	0.02	99.03
118.0-119.0	8.2	0.8	3746.2	0.02	99.05
119.0-120.0	8.3	0.8	3747.0	0.02	99.07
120.0-121.0	8.5	0.8	3747.8	0.02	99.10
121.0-122.0	8.6	0.8	3748.6	0.02	99.12
122.0-123.0	8.8	0.8	3749.4	0.02	99.14
123.0-124.0	8.9	0.8	3750.2	0.02	99.16
124.0-125.0	9.1	0.8	3751.0	0.02	99.18
125.0-126.0	9.2	0.8	3751.8	0.02	99.20
126.0-127.0	9.4	0.8	3752.7	0.02	99.23
127.0-128.0	9.5	0.8	3753.5	0.02	99.25
128.0-129.0	9.7	0.8	3754.3	0.02	99.27
129.0-130.0	9.8	0.8	3755.2	0.02	99.29
130.0-131.0	10.0	0.8	3756.0	0.02	99.31
131.0-132.0	10.1	0.8	3756.8	0.02	99.34
132.0-133.0	10.2	0.8	3757.6	0.02	99.36
133.0-134.0	10.4	0.8	3758.5	0.02	99.38
134.0-135.0	10.5	0.8	3759.3	0.02	99.40
135.0-136.0	10.7	0.8	3760.1	0.02	99.42
136.0-137.0	10.8	0.8	3760.9	0.02	99.44
137.0-138.0	11.0	0.8	3761.7	0.02	99.47
138.0-139.0	11.1	0.8	3762.6	0.02	99.49
139.0-140.0	11.2	0.8	3763.3	0.02	99.51
140.0-141.0	11.3	0.8	3764.1	0.02	99.53
141.0-142.0	11.5	0.8	3764.9	0.02	99.55
142.0-143.0	11.6	0.8	3765.7	0.02	99.57
143.0-144.0	11.7	0.8	3766.5	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	11.8	0.8	3767.2	0.02	99.61
145.0-146.0	11.9	0.7	3768.0	0.02	99.63
146.0-147.0	12.1	0.7	3768.7	0.02	99.65
147.0-148.0	12.2	0.7	3769.4	0.02	99.67
148.0-149.0	12.3	0.7	3770.1	0.02	99.69
149.0-150.0	12.4	0.7	3770.8	0.02	99.70
150.0-151.0	12.5	0.7	3771.5	0.02	99.72
151.0-152.0	12.6	0.7	3772.1	0.02	99.74
152.0-153.0	12.7	0.6	3772.8	0.02	99.76
153.0-154.0	12.8	0.6	3773.4	0.02	99.77
154.0-155.0	12.8	0.6	3774.0	0.02	99.79
155.0-156.0	12.9	0.6	3774.6	0.02	99.81
156.0-157.0	13.0	0.6	3775.2	0.02	99.82
157.0-158.0	13.1	0.6	3775.7	0.01	99.84
158.0-159.0	13.2	0.5	3776.2	0.01	99.85
159.0-160.0	13.3	0.5	3776.8	0.01	99.86
160.0-161.0	13.4	0.5	3777.2	0.01	99.88
161.0-162.0	13.4	0.5	3777.7	0.01	99.89
162.0-163.0	13.5	0.4	3778.2	0.01	99.90
163.0-164.0	13.5	0.4	3778.6	0.01	99.91
164.0-165.0	13.6	0.4	3779.0	0.01	99.92
165.0-166.0	13.7	0.4	3779.4	0.01	99.93
166.0-167.0	13.7	0.4	3779.7	0.01	99.94
167.0-168.0	13.8	0.3	3780.0	0.01	99.95
168.0-169.0	13.9	0.3	3780.3	0.01	99.96
169.0-170.0	13.9	0.3	3780.6	0.01	99.96
170.0-171.0	13.9	0.3	3780.9	0.01	99.97
171.0-172.0	14.0	0.2	3781.1	0.01	99.98
172.0-173.0	14.0	0.2	3781.3	0.01	99.98
173.0-174.0	14.1	0.2	3781.5	0.00	99.99
174.0-175.0	14.1	0.1	3781.6	0.00	99.99
175.0-176.0	14.2	0.1	3781.7	0.00	99.99
176.0-177.0	14.2	0.1	3781.8	0.00	100.00
177.0-178.0	14.2	0.1	3781.9	0.00	100.00
178.0-179.0	14.2	0.0	3781.9	0.00	100.00
179.0-180.0	14.3	0.0	3782.0	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°): 1951.81 lm

%lum = 51.6%

%lamp = 51.6%

cone flux(120°): 2872.60 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	1287.1	1287.1	1287.1	1287.1	1287.1	1287.1	1287.1	1287.1	1287.1	1287.1
G1.0	1287.4	1287.7	1287.7	1287.3	1287.2	1286.8	1286.1	1285.9	1285.8	1286.0
G2.0	1287.2	1288.0	1288.0	1287.2	1286.7	1286.2	1284.6	1284.4	1284.1	1284.3
G3.0	1286.5	1287.6	1287.7	1286.9	1286.1	1285.1	1282.7	1282.0	1281.6	1282.1
G4.0	1285.4	1286.8	1287.0	1285.7	1284.5	1283.3	1280.2	1279.6	1278.7	1279.2
G5.0	1283.8	1285.7	1285.6	1284.0	1282.9	1281.2	1277.7	1276.5	1275.6	1276.6
G6.0	1281.8	1283.9	1283.8	1282.0	1280.3	1278.1	1274.2	1272.9	1271.9	1272.9
G7.0	1279.3	1281.8	1281.3	1279.2	1277.2	1275.1	1270.5	1268.8	1267.6	1268.8
G8.0	1276.3	1279.0	1278.5	1276.4	1274.0	1271.7	1265.9	1264.1	1262.3	1263.8
G9.0	1272.7	1275.7	1274.6	1272.5	1269.4	1267.5	1261.4	1259.7	1256.9	1258.9
G10.0	1268.8	1272.1	1271.1	1268.5	1265.4	1262.9	1256.3	1254.5	1251.8	1253.0
G11.0	1264.4	1267.8	1266.6	1263.2	1260.2	1257.5	1250.6	1248.1	1245.2	1246.6
G12.0	1259.6	1263.4	1261.9	1258.3	1254.4	1252.0	1245.1	1242.0	1238.6	1240.0
G13.0	1254.8	1258.6	1256.6	1252.1	1248.8	1246.4	1238.8	1235.3	1231.9	1232.9
G14.0	1249.0	1252.8	1250.4	1245.6	1241.9	1239.5	1231.8	1228.0	1224.0	1225.2
G15.0	1242.9	1246.7	1243.9	1239.2	1235.0	1232.9	1224.8	1220.8	1215.6	1216.9
G16.0	1236.0	1239.9	1236.9	1231.6	1227.5	1225.4	1216.9	1212.1	1206.5	1208.0
G17.0	1229.1	1233.3	1230.0	1223.5	1220.0	1217.4	1209.0	1203.9	1198.3	1199.4
G18.0	1222.0	1226.3	1221.9	1215.4	1212.0	1209.7	1201.1	1195.5	1188.9	1189.9
G19.0	1213.8	1217.9	1213.5	1206.5	1202.2	1200.7	1191.7	1185.6	1178.9	1179.7
G20.0	1206.2	1210.1	1205.2	1197.6	1193.6	1192.1	1183.0	1176.7	1168.7	1169.7
G21.0	1197.9	1202.2	1196.2	1188.5	1184.2	1182.8	1173.3	1166.6	1158.6	1159.4
G22.0	1188.1	1192.0	1186.1	1177.8	1173.8	1172.5	1163.2	1155.6	1147.1	1147.6
G23.0	1179.1	1183.3	1176.0	1167.6	1164.1	1162.6	1153.4	1145.5	1135.7	1136.7
G24.0	1169.2	1173.4	1165.5	1156.1	1151.8	1151.9	1142.1	1133.3	1123.6	1123.9
G25.0	1159.0	1163.3	1155.1	1145.5	1141.4	1140.8	1131.8	1122.3	1112.0	1112.0
G26.0	1149.3	1152.7	1143.9	1133.8	1129.8	1130.1	1121.1	1110.8	1099.8	1099.9
G27.0	1137.5	1141.0	1131.9	1121.3	1117.1	1117.4	1108.7	1097.9	1086.2	1085.9
G28.0	1126.9	1130.4	1119.9	1108.8	1105.1	1105.9	1097.3	1086.0	1073.5	1073.1
G29.0	1115.6	1119.5	1108.2	1096.6	1092.5	1093.5	1085.6	1073.5	1060.2	1059.3
G30.0	1103.3	1106.1	1094.9	1082.3	1078.7	1080.3	1072.0	1059.8	1045.7	1045.0
G31.0	1091.4	1094.6	1081.7	1069.2	1065.0	1067.4	1060.0	1047.0	1032.6	1031.3
G32.0	1078.7	1080.6	1067.9	1054.6	1050.7	1053.4	1046.2	1032.8	1016.8	1015.6
G33.0	1066.6	1068.3	1054.2	1040.4	1036.8	1040.6	1032.9	1018.7	1002.2	1001.3
G34.0	1053.5	1055.2	1040.7	1026.5	1023.0	1026.8	1019.2	1004.8	987.3	986.0
G35.0	1039.7	1041.0	1025.1	1010.1	1007.2	1011.8	1004.6	989.6	971.1	969.0
G36.0	1026.3	1027.1	1010.9	995.7	992.9	997.6	990.5	974.9	956.5	953.9

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	1013.2	1013.5	996.0	980.1	977.1	982.6	975.3	959.6	939.9	937.6
G38.0	997.6	997.8	980.2	963.2	960.8	967.1	961.5	944.1	924.1	921.1
G39.0	983.7	983.6	964.4	947.1	945.0	951.9	946.8	929.3	908.3	905.5
G40.0	968.0	967.5	947.5	930.0	927.9	935.8	931.2	912.2	890.8	887.3
G41.0	953.9	952.9	931.6	913.2	911.6	920.1	916.1	897.0	874.6	871.1
G42.0	938.8	937.4	916.1	897.2	895.4	904.9	901.2	881.9	857.7	854.0
G43.0	923.0	921.2	897.8	878.4	876.9	888.1	884.8	864.0	840.2	835.7
G44.0	907.6	904.9	882.0	862.1	860.5	872.0	869.0	848.6	823.6	818.9
G45.0	891.9	888.9	864.8	844.4	843.2	855.6	852.4	831.0	804.4	799.6
G46.0	875.4	871.9	845.9	825.7	824.8	838.0	836.3	814.7	787.6	782.6
G47.0	859.4	856.3	829.1	807.7	807.2	821.1	819.9	797.6	769.9	764.5
G48.0	842.3	837.8	810.6	787.4	788.2	803.1	802.6	780.0	751.1	745.3
G49.0	826.8	821.9	792.4	769.7	769.9	786.6	786.9	763.7	733.1	726.8
G50.0	810.4	804.8	775.0	751.2	752.3	769.4	770.3	746.3	715.4	708.9
G51.0	793.0	786.9	754.8	731.4	732.0	751.1	752.8	728.0	695.4	688.5
G52.0	776.4	769.5	737.2	712.2	714.1	733.4	735.7	710.6	677.7	670.3
G53.0	759.4	751.9	718.5	693.9	695.1	715.6	717.6	692.0	657.2	650.3
G54.0	741.7	733.5	697.9	672.6	674.3	696.9	700.5	674.2	639.1	630.9
G55.0	724.4	715.7	679.9	653.7	655.9	678.9	683.9	657.2	620.1	612.4
G56.0	706.4	696.8	658.8	632.1	635.5	659.9	665.7	637.5	600.1	591.2
G57.0	689.0	679.8	640.3	612.9	615.9	641.6	648.4	620.2	581.8	572.6
G58.0	671.4	660.6	620.8	593.0	596.2	623.3	631.7	603.0	562.3	552.8
G59.0	653.2	641.5	599.4	570.9	574.5	603.9	612.5	583.0	542.0	531.9
G60.0	635.7	623.2	580.6	550.5	555.6	585.2	595.6	565.8	522.6	511.9
G61.0	616.2	603.0	558.9	528.9	533.9	565.2	576.2	545.7	502.0	490.8
G62.0	599.4	585.3	539.1	508.4	514.6	547.3	559.3	528.1	482.3	470.7
G63.0	581.6	567.0	519.9	488.6	494.5	528.9	541.6	509.7	463.6	451.3
G64.0	562.9	547.4	497.9	465.8	472.4	509.3	523.3	490.4	442.2	429.0
G65.0	545.0	528.7	478.6	445.7	453.0	490.6	506.7	472.2	423.2	409.5
G66.0	528.2	510.8	458.3	424.7	432.8	472.0	489.4	454.8	403.6	389.9
G67.0	509.0	490.6	437.1	402.7	411.4	452.6	471.7	436.1	383.0	367.4
G68.0	492.5	472.8	416.7	381.6	390.9	435.1	454.7	418.3	364.1	348.1
G69.0	473.8	452.8	395.6	359.5	369.7	415.5	436.8	399.8	342.8	326.4
G70.0	456.6	434.7	375.5	338.3	349.4	397.4	419.6	382.3	324.3	306.1
G71.0	440.3	417.4	355.2	316.9	329.2	380.6	403.5	365.7	305.9	286.4
G72.0	421.9	398.1	334.4	295.0	308.4	361.3	385.1	347.7	285.0	264.4
G73.0	405.6	380.8	314.2	273.9	289.5	344.5	369.3	330.6	266.9	245.0

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 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	388.6	363.3	295.3	253.5	269.9	327.2	353.3	313.7	248.4	225.1
G75.0	371.1	344.9	274.3	230.7	248.6	309.1	335.2	295.9	228.4	204.3
G76.0	354.2	327.5	255.7	211.1	230.2	292.0	318.4	279.1	211.5	185.1
G77.0	336.9	309.4	234.9	188.8	210.1	274.3	298.4	261.4	192.8	164.9
G78.0	320.2	292.3	217.4	169.8	193.0	257.5	276.4	242.7	177.0	146.4
G79.0	302.1	276.0	199.6	150.4	175.8	239.7	251.4	221.2	160.7	128.4
G80.0	279.9	256.8	180.7	129.9	157.3	218.6	217.5	192.5	144.1	110.1
G81.0	255.1	237.5	164.6	112.5	141.9	195.1	182.6	163.0	128.5	93.4
G82.0	227.3	213.6	148.3	95.2	126.2	168.2	134.5	123.1	112.1	77.2
G83.0	189.7	183.0	131.4	78.3	110.2	131.9	85.9	81.2	93.3	62.5
G84.0	150.5	151.7	115.2	63.0	95.3	93.9	41.8	36.2	72.2	50.0
G85.0	97.3	108.9	96.5	48.7	78.7	46.1	16.4	14.5	43.3	37.4
G86.0	51.4	65.5	75.1	36.8	60.5	18.8	6.1	8.1	15.8	27.9
G87.0	22.4	27.1	51.8	27.0	39.9	5.8	5.2	6.9	8.5	19.7
G88.0	7.5	10.4	21.5	18.1	13.5	4.3	4.8	5.8	5.8	11.9
G89.0	4.7	6.7	8.4	11.6	5.1	3.9	4.7	5.0	4.5	6.3
G90.0	4.2	5.6	6.0	6.0	3.7	3.9	4.6	4.8	4.7	4.6
G91.0	4.0	4.6	3.6	3.7	3.9	4.0	4.8	5.0	4.8	4.7
G92.0	4.0	3.9	3.7	3.7	4.0	4.2	4.9	5.2	5.0	4.9
G93.0	4.1	4.0	3.9	3.9	4.1	4.3	5.0	5.3	5.1	5.0
G94.0	4.2	4.2	4.0	4.0	4.3	4.4	5.2	5.4	5.3	5.2
G95.0	4.4	4.3	4.1	4.3	4.5	4.5	5.3	5.6	5.5	5.4
G96.0	4.5	4.4	4.2	4.4	4.6	4.6	5.5	5.7	5.6	5.4
G97.0	4.6	4.6	4.4	4.5	4.8	4.9	5.6	5.8	5.7	5.7
G98.0	4.8	4.7	4.5	4.7	4.9	5.0	5.8	6.0	6.0	5.8
G99.0	4.9	4.9	4.7	4.8	5.1	5.1	6.0	6.1	6.1	5.9
G100.0	5.0	5.0	4.9	5.0	5.3	5.2	6.0	6.3	6.2	6.1
G101.0	5.2	5.1	5.0	5.2	5.4	5.4	6.2	6.5	6.3	6.3
G102.0	5.4	5.3	5.1	5.2	5.6	5.6	6.3	6.6	6.4	6.4
G103.0	5.5	5.3	5.2	5.5	5.7	5.7	6.4	6.7	6.5	6.4
G104.0	5.7	5.6	5.5	5.6	5.9	5.8	6.5	6.8	6.7	6.6
G105.0	5.8	5.7	5.5	5.7	6.0	5.9	6.7	7.0	6.9	6.8
G106.0	5.9	5.9	5.7	5.8	6.1	6.1	6.9	7.1	7.1	6.9
G107.0	6.1	5.9	5.8	6.0	6.3	6.2	7.0	7.3	7.2	7.1
G108.0	6.2	6.0	6.0	6.2	6.4	6.4	7.1	7.4	7.3	7.2
G109.0	6.4	6.2	6.1	6.3	6.6	6.5	7.3	7.6	7.5	7.4
G110.0	6.5	6.4	6.3	6.3	6.8	6.7	7.4	7.7	7.7	7.5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 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	6.6	6.5	6.4	6.5	7.0	6.8	7.6	7.8	7.9	7.7
G112.0	6.8	6.7	6.6	6.7	7.2	7.0	7.7	7.9	8.0	7.7
G113.0	6.9	6.8	6.7	6.8	7.4	7.1	7.8	8.0	8.1	7.9
G114.0	7.1	7.0	6.9	6.9	7.3	7.3	8.0	8.2	8.2	8.1
G115.0	7.3	7.2	7.0	7.1	7.4	7.5	8.0	8.3	8.3	8.2
G116.0	7.4	7.2	7.2	7.3	7.6	7.6	8.2	8.5	8.4	8.3
G117.0	7.4	7.4	7.3	7.4	7.7	7.7	8.3	8.6	8.6	8.5
G118.0	7.7	7.5	7.4	7.5	7.9	7.9	8.5	8.8	8.8	8.6
G119.0	7.7	7.7	7.6	7.7	8.0	8.0	8.6	9.0	8.9	8.7
G120.0	7.9	7.8	7.7	7.8	8.3	8.2	8.8	9.0	9.1	8.8
G121.0	8.1	8.0	7.9	7.9	8.3	8.2	8.9	9.2	9.2	9.0
G122.0	8.2	8.1	8.0	8.0	8.4	8.5	9.1	9.3	9.3	9.2
G123.0	8.4	8.3	8.1	8.2	8.6	8.7	9.2	9.5	9.5	9.4
G124.0	8.5	8.5	8.3	8.4	8.7	8.8	9.4	9.7	9.7	9.4
G125.0	8.7	8.5	8.4	8.5	8.8	8.9	9.7	9.9	9.7	9.6
G126.0	8.8	8.7	8.6	8.7	9.0	9.1	9.8	10.0	9.9	9.7
G127.0	9.0	8.9	8.7	8.8	9.2	9.3	9.9	10.1	10.1	9.8
G128.0	9.1	9.0	8.9	8.9	9.3	9.5	10.1	10.2	10.1	10.0
G129.0	9.3	9.3	9.0	9.1	9.5	9.5	10.2	10.4	10.2	10.2
G130.0	9.5	9.4	9.2	9.3	9.6	9.7	10.3	10.5	10.5	10.2
G131.0	9.7	9.7	9.3	9.4	9.7	9.8	10.5	10.8	10.5	10.4
G132.0	9.7	9.7	9.5	9.5	9.8	10.0	10.6	10.9	10.7	10.5
G133.0	10.0	9.8	9.7	9.7	10.0	10.2	10.8	11.0	10.8	10.7
G134.0	10.2	10.0	9.7	9.8	10.2	10.2	10.8	11.2	10.9	10.8
G135.0	10.3	10.1	9.9	10.0	10.3	10.4	11.0	11.3	11.1	11.0
G136.0	10.4	10.2	10.0	10.2	10.4	10.6	11.1	11.5	11.1	11.1
G137.0	10.6	10.4	10.2	10.3	10.5	10.9	11.3	11.7	11.4	11.3
G138.0	10.6	10.5	10.3	10.4	10.7	11.0	11.4	11.8	11.5	11.4
G139.0	10.8	10.6	10.5	10.6	10.9	11.0	11.6	11.9	11.6	11.5
G140.0	10.8	10.8	10.6	10.7	11.0	11.1	11.7	12.0	11.7	11.6
G141.0	11.0	10.9	10.8	10.9	11.1	11.3	11.8	12.1	11.9	11.8
G142.0	11.0	11.1	10.9	11.0	11.3	11.4	11.9	12.2	12.1	11.9
G143.0	11.2	11.2	11.0	11.1	11.5	11.4	12.1	12.3	12.2	12.0
G144.0	11.3	11.3	11.2	11.3	11.6	11.6	12.1	12.4	12.2	12.1
G145.0	11.5	11.4	11.3	11.4	11.6	11.7	12.3	12.5	12.4	12.2
G146.0	11.6	11.5	11.4	11.5	11.8	11.8	12.5	12.6	12.5	12.4
G147.0	11.7	11.7	11.6	11.7	11.9	11.9	12.5	12.6	12.6	12.5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 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	11.8	11.7	11.6	11.7	12.0	12.1	12.6	12.8	12.7	12.6
G149.0	12.0	11.8	11.8	11.9	12.1	12.1	12.7	13.0	12.8	12.7
G150.0	12.1	11.9	11.9	12.0	12.2	12.2	12.9	13.1	13.0	12.8
G151.0	12.2	12.1	12.1	12.1	12.4	12.3	13.0	13.1	13.1	13.0
G152.0	12.3	12.2	12.1	12.2	12.5	12.4	13.0	13.1	13.1	13.1
G153.0	12.4	12.3	12.2	12.4	12.6	12.5	13.0	13.1	13.1	13.1
G154.0	12.6	12.4	12.4	12.4	12.7	12.6	13.0	13.1	13.1	13.1
G155.0	12.7	12.6	12.4	12.6	12.7	12.7	13.2	13.2	13.2	13.2
G156.0	12.8	12.6	12.6	12.6	12.8	12.8	13.3	13.3	13.3	13.3
G157.0	12.8	12.8	12.7	12.7	13.1	13.0	13.3	13.4	13.4	13.4
G158.0	12.9	12.8	12.8	12.9	13.2	13.0	13.4	13.5	13.6	13.5
G159.0	13.0	12.8	12.8	13.1	13.2	13.0	13.5	13.7	13.6	13.6
G160.0	13.1	13.1	13.1	13.1	13.2	13.2	13.5	13.6	13.7	13.7
G161.0	13.0	13.1	13.1	13.1	13.2	13.3	13.5	13.7	13.8	13.7
G162.0	13.1	13.1	13.1	13.2	13.3	13.3	13.7	13.8	13.7	13.7
G163.0	13.3	13.1	13.1	13.2	13.5	13.4	13.7	13.8	13.8	13.8
G164.0	13.3	13.2	13.2	13.3	13.5	13.4	13.8	13.9	13.9	13.9
G165.0	13.3	13.3	13.2	13.4	13.6	13.5	13.8	14.0	13.9	13.9
G166.0	13.4	13.4	13.3	13.5	13.7	13.6	13.9	14.0	13.9	13.9
G167.0	13.5	13.5	13.4	13.5	13.7	13.8	13.9	14.1	14.0	14.0
G168.0	13.6	13.6	13.5	13.7	13.8	13.7	13.9	14.1	14.1	14.1
G169.0	13.6	13.7	13.6	13.8	13.8	13.9	14.0	14.2	14.1	14.1
G170.0	13.6	13.7	13.6	13.7	14.0	13.9	14.0	14.2	14.1	14.1
G171.0	13.8	13.8	13.7	13.9	14.0	14.0	14.0	14.2	14.1	14.2
G172.0	13.8	13.9	13.8	14.0	14.0	14.1	14.1	14.2	14.1	14.3
G173.0	13.9	13.9	13.8	14.0	14.1	14.1	14.1	14.2	14.1	14.2
G174.0	13.9	14.0	13.9	14.0	14.2	14.0	14.1	14.3	14.2	14.3
G175.0	14.0	14.0	14.0	14.2	14.1	14.1	14.2	14.3	14.2	14.3
G176.0	14.0	14.2	14.0	14.2	14.2	14.1	14.2	14.3	14.2	14.3
G177.0	14.0	14.2	14.1	14.2	14.2	14.2	14.1	14.3	14.2	14.3
G178.0	14.1	14.2	14.1	14.2	14.2	14.2	14.2	14.3	14.2	14.3
G179.0	14.2	14.3	14.1	14.3	14.3	14.2	14.2	14.3	14.2	14.3
G180.0	14.2	14.3	14.2	14.2	14.3	14.3	14.1	14.3	14.1	14.3

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1287.1	1287.1	1287.1							
G1.0	1286.3	1286.9	1287.4							
G2.0	1285.2	1286.4	1287.2							
G3.0	1283.5	1285.0	1286.5							
G4.0	1281.1	1283.6	1285.4							
G5.0	1278.6	1281.5	1283.8							
G6.0	1275.3	1278.8	1281.8							
G7.0	1271.6	1275.9	1279.3							
G8.0	1267.1	1271.9	1276.3							
G9.0	1262.5	1268.3	1272.7							
G10.0	1257.5	1263.9	1268.8							
G11.0	1251.6	1258.5	1264.4							
G12.0	1245.6	1253.2	1259.6							
G13.0	1239.0	1247.7	1254.8							
G14.0	1231.8	1240.8	1249.0							
G15.0	1224.3	1234.4	1242.9							
G16.0	1215.9	1226.8	1236.0							
G17.0	1207.4	1219.4	1229.1							
G18.0	1199.0	1211.9	1222.0							
G19.0	1189.0	1203.0	1213.8							
G20.0	1179.2	1194.2	1206.2							
G21.0	1169.7	1185.4	1197.9							
G22.0	1158.3	1175.1	1188.1							
G23.0	1148.0	1165.2	1179.1							
G24.0	1136.4	1154.7	1169.2							
G25.0	1125.1	1143.8	1159.0							
G26.0	1112.9	1133.1	1149.3							
G27.0	1099.9	1121.2	1137.5							
G28.0	1087.2	1109.7	1126.9							
G29.0	1074.7	1098.0	1115.6							
G30.0	1061.0	1084.7	1103.3							
G31.0	1047.0	1072.3	1091.4							
G32.0	1032.2	1058.6	1078.7							
G33.0	1017.9	1045.2	1066.6							
G34.0	1003.1	1031.5	1053.5							
G35.0	987.4	1017.0	1039.7							
G36.0	972.8	1003.2	1026.3							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	956.3	987.5	1013.2							
G38.0	941.2	973.5	997.6							
G39.0	925.1	958.1	983.7							
G40.0	908.4	942.1	968.0							
G41.0	892.5	926.6	953.9							
G42.0	875.9	911.6	938.8							
G43.0	858.3	895.1	923.0							
G44.0	841.1	878.9	907.6							
G45.0	823.0	861.9	891.9							
G46.0	806.4	845.2	875.4							
G47.0	788.7	829.3	859.4							
G48.0	769.2	811.3	842.3							
G49.0	751.9	795.0	826.8							
G50.0	734.6	777.9	810.4							
G51.0	714.7	759.5	793.0							
G52.0	697.0	742.0	776.4							
G53.0	676.7	723.5	759.4							
G54.0	658.5	706.6	741.7							
G55.0	639.6	689.0	724.4							
G56.0	619.8	670.2	706.4							
G57.0	600.5	652.3	689.0							
G58.0	582.3	634.1	671.4							
G59.0	561.7	615.1	653.2							
G60.0	542.3	597.8	635.7							
G61.0	521.7	577.4	616.2							
G62.0	502.0	560.0	599.4							
G63.0	483.1	541.6	581.6							
G64.0	461.6	522.1	562.9							
G65.0	442.7	504.6	545.0							
G66.0	422.8	486.0	528.2							
G67.0	402.1	466.8	509.0							
G68.0	383.2	448.4	492.5							
G69.0	361.7	429.6	473.8							
G70.0	342.9	412.5	456.6							
G71.0	323.3	394.7	440.3							
G72.0	303.0	376.6	421.9							
G73.0	283.6	359.3	405.6							

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	265.5	342.8	388.6							
G75.0	245.0	324.3	371.1							
G76.0	227.5	308.3	354.2							
G77.0	207.7	289.9	336.9							
G78.0	191.2	273.6	320.2							
G79.0	174.5	257.9	302.1							
G80.0	157.7	239.7	279.9							
G81.0	142.0	221.6	255.1							
G82.0	126.4	197.8	227.3							
G83.0	112.2	172.8	189.7							
G84.0	98.8	142.2	150.5							
G85.0	82.3	103.9	97.3							
G86.0	65.7	60.8	51.4							
G87.0	44.8	27.2	22.4							
G88.0	19.0	8.1	7.5							
G89.0	6.8	5.5	4.7							
G90.0	4.5	4.7	4.2							
G91.0	4.7	4.6	4.0							
G92.0	4.8	4.7	4.0							
G93.0	5.0	4.8	4.1							
G94.0	5.2	5.0	4.2							
G95.0	5.2	5.1	4.4							
G96.0	5.4	5.2	4.5							
G97.0	5.6	5.3	4.6							
G98.0	5.8	5.5	4.8							
G99.0	5.9	5.6	4.9							
G100.0	6.1	5.7	5.0							
G101.0	6.2	6.0	5.2							
G102.0	6.4	6.1	5.4							
G103.0	6.5	6.3	5.5							
G104.0	6.7	6.4	5.7							
G105.0	6.8	6.5	5.8							
G106.0	7.0	6.6	5.9							
G107.0	7.1	6.8	6.1							
G108.0	7.2	6.9	6.2							
G109.0	7.4	7.1	6.4							
G110.0	7.6	7.2	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:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	7.8	7.4	6.6							
G112.0	7.9	7.6	6.8							
G113.0	8.0	7.7	6.9							
G114.0	8.2	7.8	7.1							
G115.0	8.4	7.9	7.3							
G116.0	8.4	8.1	7.4							
G117.0	8.6	8.2	7.4							
G118.0	8.7	8.3	7.7							
G119.0	8.8	8.5	7.7							
G120.0	8.9	8.6	7.9							
G121.0	9.1	8.8	8.1							
G122.0	9.2	8.9	8.2							
G123.0	9.4	9.1	8.4							
G124.0	9.5	9.2	8.5							
G125.0	9.6	9.5	8.7							
G126.0	9.8	9.6	8.8							
G127.0	9.8	9.8	9.0							
G128.0	10.1	9.9	9.1							
G129.0	10.2	10.1	9.3							
G130.0	10.2	10.2	9.5							
G131.0	10.4	10.4	9.7							
G132.0	10.5	10.4	9.7							
G133.0	10.6	10.6	10.0							
G134.0	10.9	10.7	10.2							
G135.0	11.0	10.8	10.3							
G136.0	11.2	11.0	10.4							
G137.0	11.3	11.1	10.6							
G138.0	11.4	11.2	10.6							
G139.0	11.5	11.3	10.8							
G140.0	11.7	11.5	10.8							
G141.0	11.8	11.6	11.0							
G142.0	11.9	11.7	11.0							
G143.0	12.0	11.8	11.2							
G144.0	12.2	11.9	11.3							
G145.0	12.2	12.1	11.5							
G146.0	12.3	12.2	11.6							
G147.0	12.5	12.3	11.7							

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	12.6	12.4	11.8							
G149.0	12.6	12.4	12.0							
G150.0	12.8	12.6	12.1							
G151.0	12.9	12.7	12.2							
G152.0	12.9	12.7	12.3							
G153.0	13.2	13.0	12.4							
G154.0	13.2	13.0	12.6							
G155.0	13.2	13.0	12.7							
G156.0	13.2	13.0	12.8							
G157.0	13.2	13.1	12.8							
G158.0	13.4	13.3	12.9							
G159.0	13.4	13.3	13.0							
G160.0	13.6	13.4	13.1							
G161.0	13.6	13.4	13.0							
G162.0	13.7	13.5	13.1							
G163.0	13.8	13.5	13.3							
G164.0	13.7	13.6	13.3							
G165.0	13.8	13.7	13.3							
G166.0	13.9	13.8	13.4							
G167.0	13.9	13.8	13.5							
G168.0	14.0	13.8	13.6							
G169.0	14.1	13.9	13.6							
G170.0	14.1	13.9	13.6							
G171.0	14.2	14.0	13.8							
G172.0	14.2	14.1	13.8							
G173.0	14.2	14.0	13.9							
G174.0	14.3	14.1	13.9							
G175.0	14.3	14.1	14.0							
G176.0	14.3	14.1	14.0							
G177.0	14.3	14.2	14.0							
G178.0	14.3	14.2	14.1							
G179.0	14.3	14.3	14.2							
G180.0	14.3	14.3	14.2							

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	1728.10
L 0-180(75) av	1895.15
L 0-180(85) av	906.24
L 90-270(65) av	1405.17
L 90-270(75) av	1167.16
L 90-270(85) av	686.01
L 45(65) av	1558.40
L 45(75) av	1523.01
L 45(85) av	1143.79

Standard: GB/T 29293-2012