

Report No.:

Test Time:

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps: 1

Luminous Length (mm): 1200

Luminous Height (mm): 45

Current: 0.279 A

Power Factor: 0.994

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 600

Voltage: 119.9 V

Power: 33.32 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4438.2 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.5, 159.1, 165.8, 166.4

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

Luminaire Efficacy Rating (LER): 133.25

Max. Intensity: 1511.3 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 4438.2 lm

Efficiency: 100%

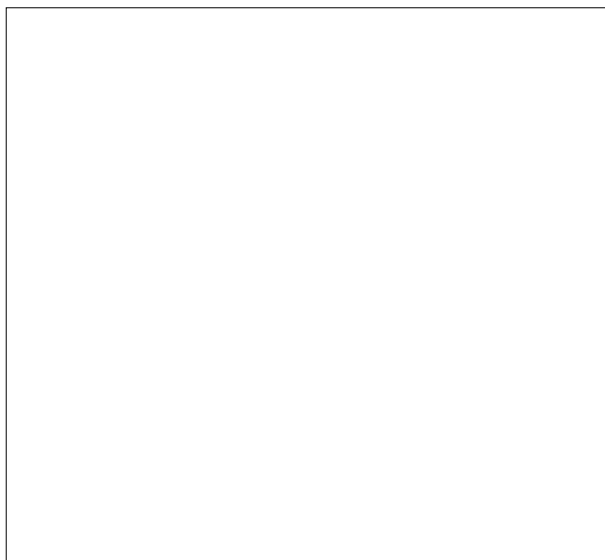
Upward Ratio: 1%

C0r0 Intensity: 1509.93 cd

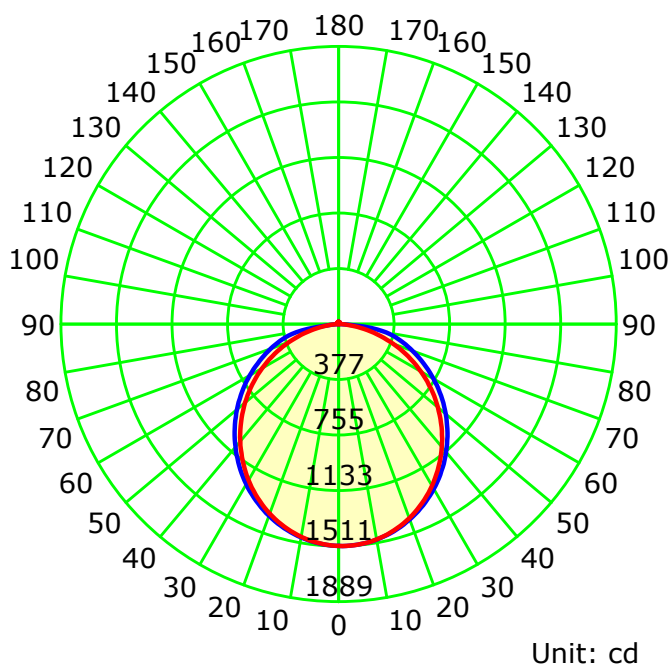
Pos of Max. Intensity: H60 V2

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

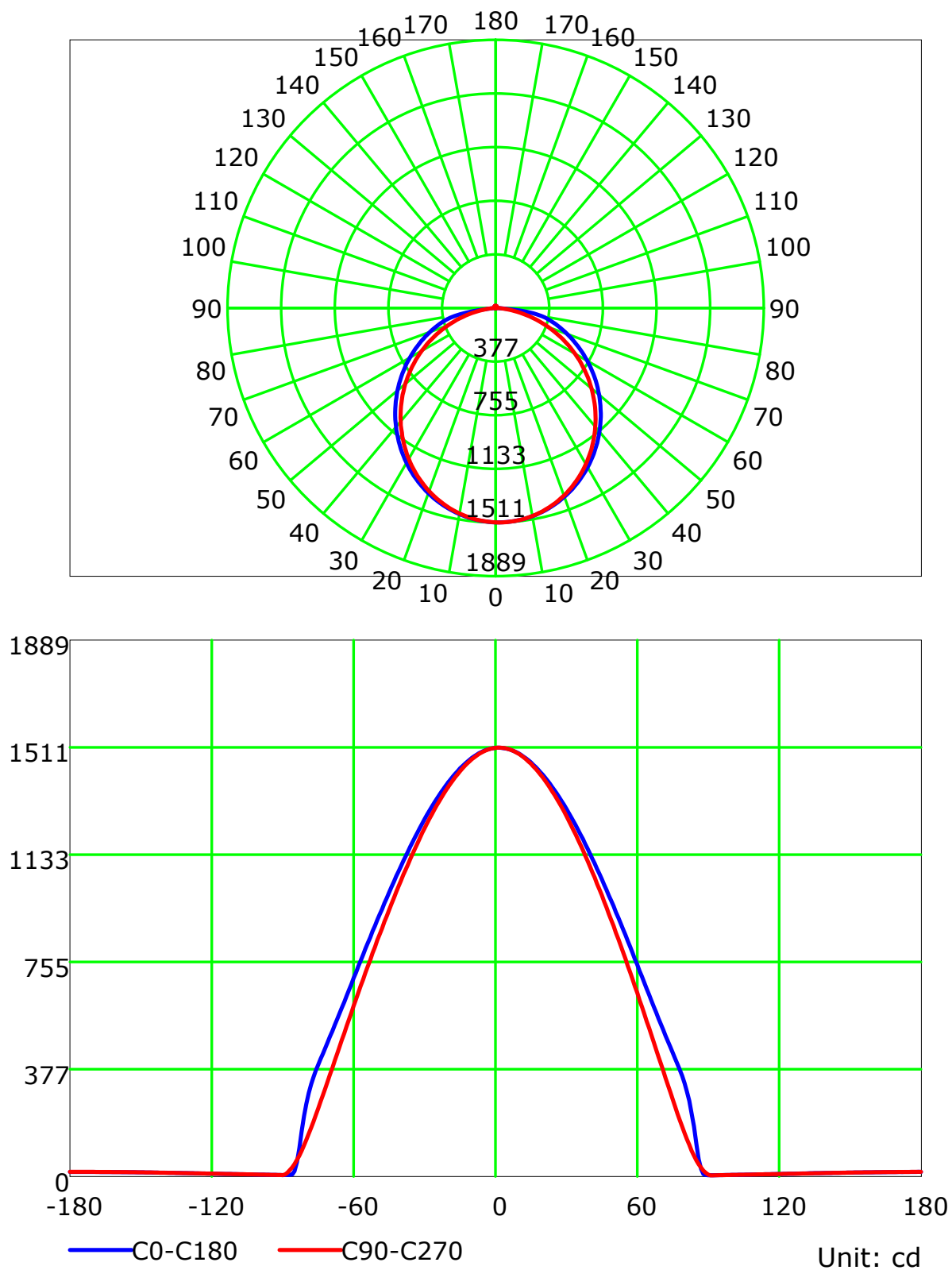
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

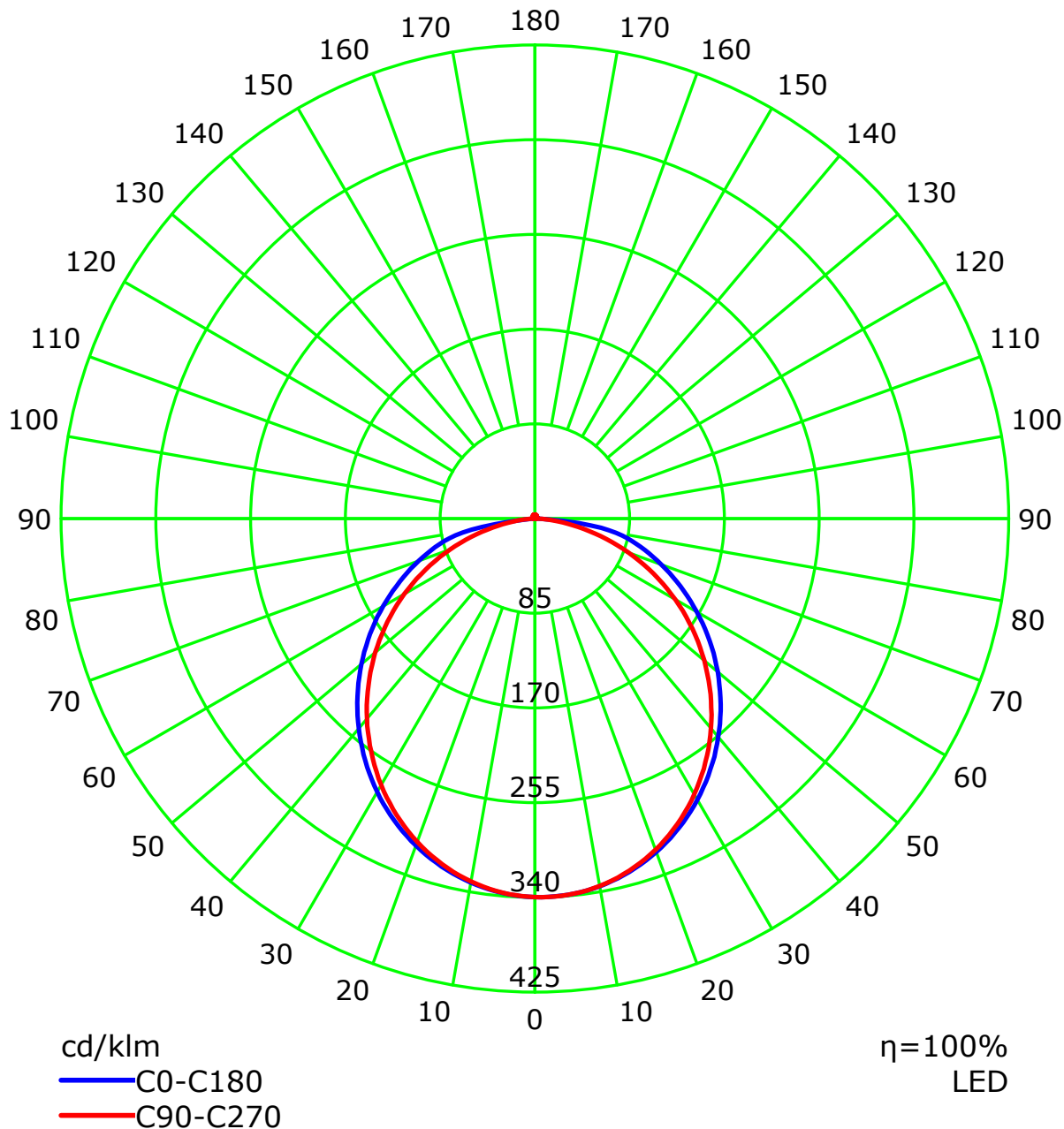
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



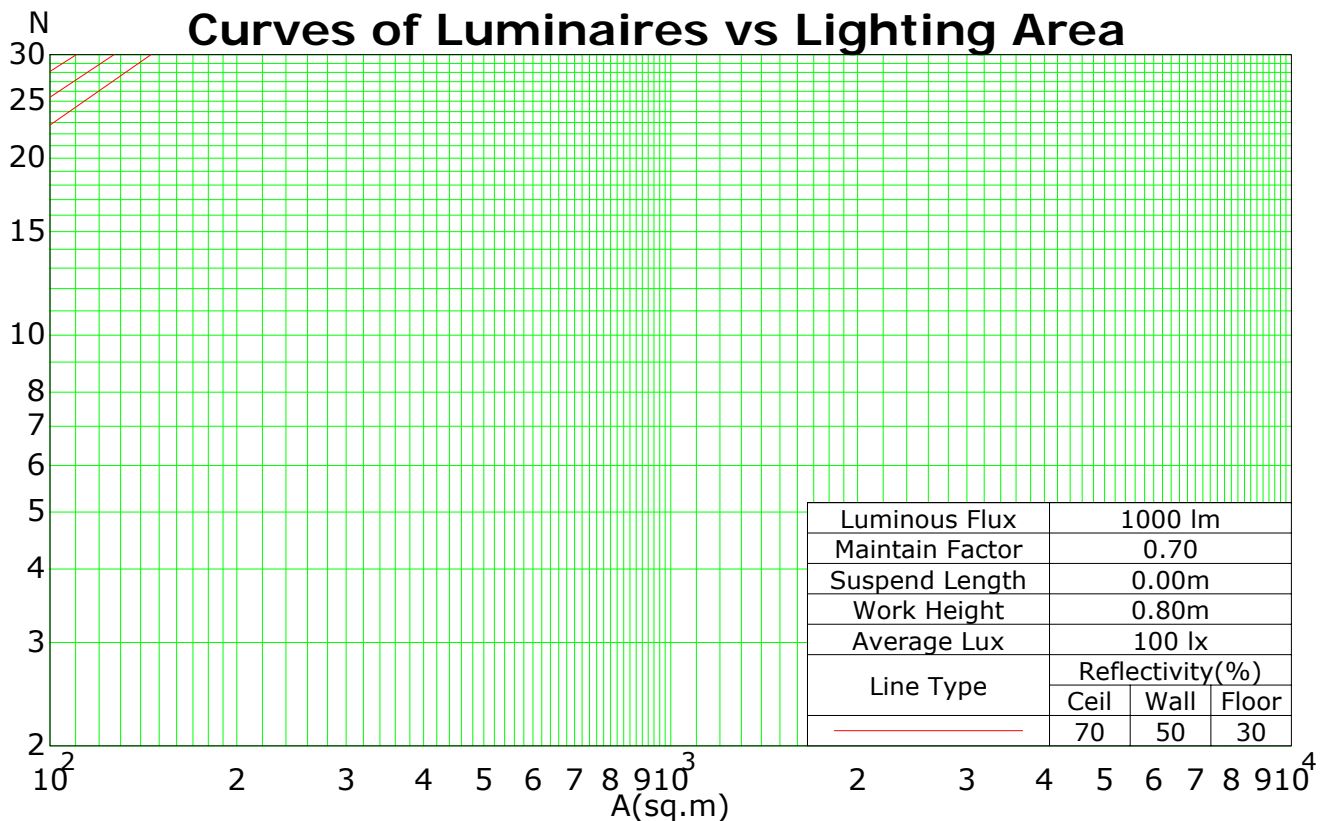
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.93	0.96	0.93	0.90	0.92	0.89	0.87	0.88	0.86	0.84	0.82
2	0.98	0.89	0.82	0.77	0.95	0.87	0.81	0.76	0.84	0.78	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
3	0.89	0.78	0.70	0.63	0.86	0.77	0.69	0.63	0.73	0.67	0.61	0.70	0.65	0.60	0.68	0.63	0.59	0.57
4	0.82	0.69	0.60	0.53	0.79	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.60	0.55	0.50	0.48
5	0.75	0.62	0.53	0.46	0.73	0.61	0.52	0.46	0.58	0.51	0.45	0.56	0.50	0.44	0.54	0.48	0.44	0.42
6	0.69	0.56	0.47	0.40	0.67	0.55	0.46	0.40	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38	0.36
7	0.64	0.50	0.42	0.35	0.62	0.50	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.32
8	0.60	0.46	0.37	0.31	0.58	0.45	0.37	0.31	0.44	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.30	0.29
9	0.56	0.42	0.34	0.28	0.54	0.42	0.34	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.27	0.26
10	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

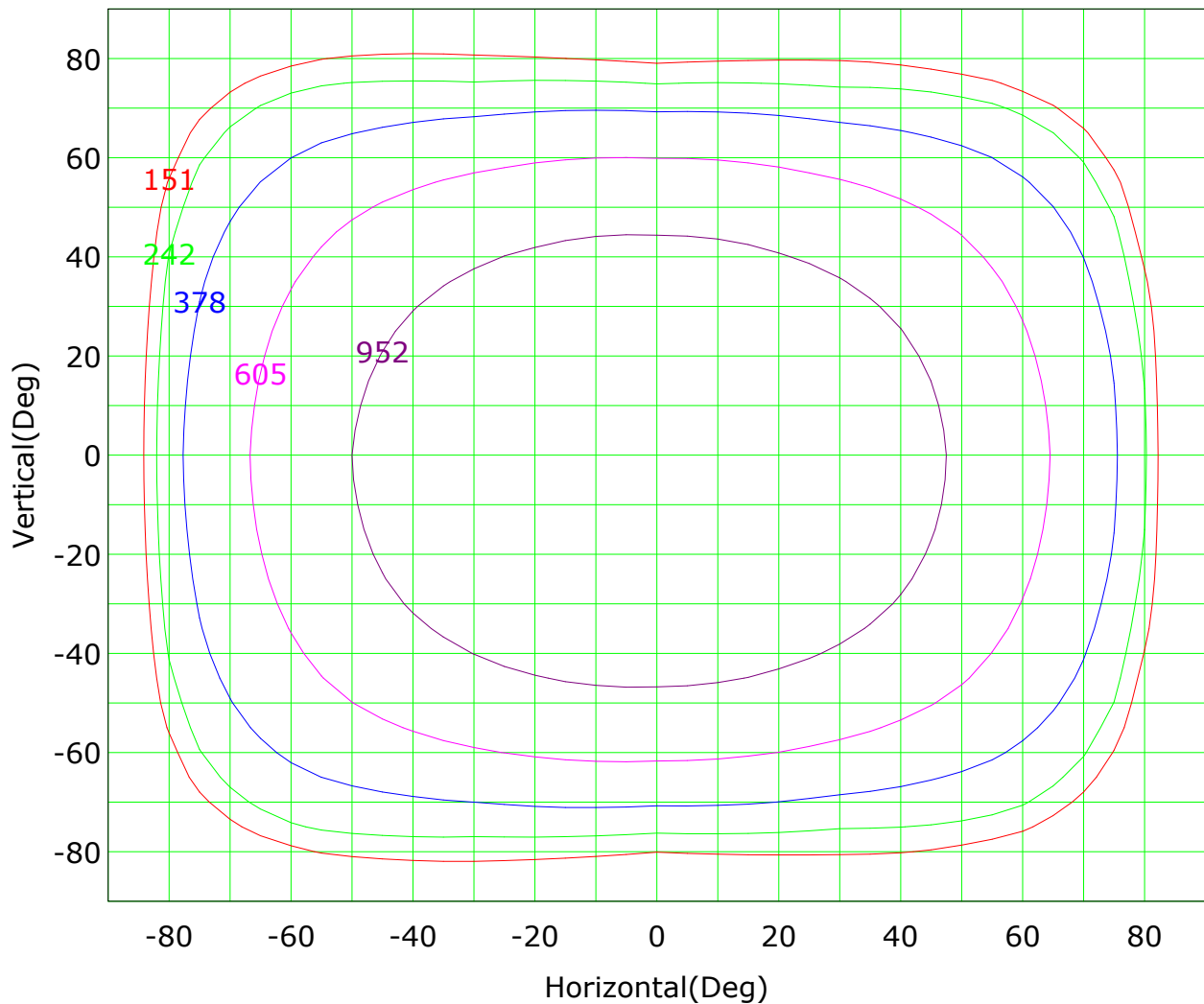
Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.23
Spacing Criteria (Diagonal): 1.37



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

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

Isocandela (rectangle)



Imax (100%): 1511 cd

(10%): 151 cd	(16%): 242 cd
(25%): 378 cd	(40%): 605 cd
(63%): 952 cd	(100%): 1511 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

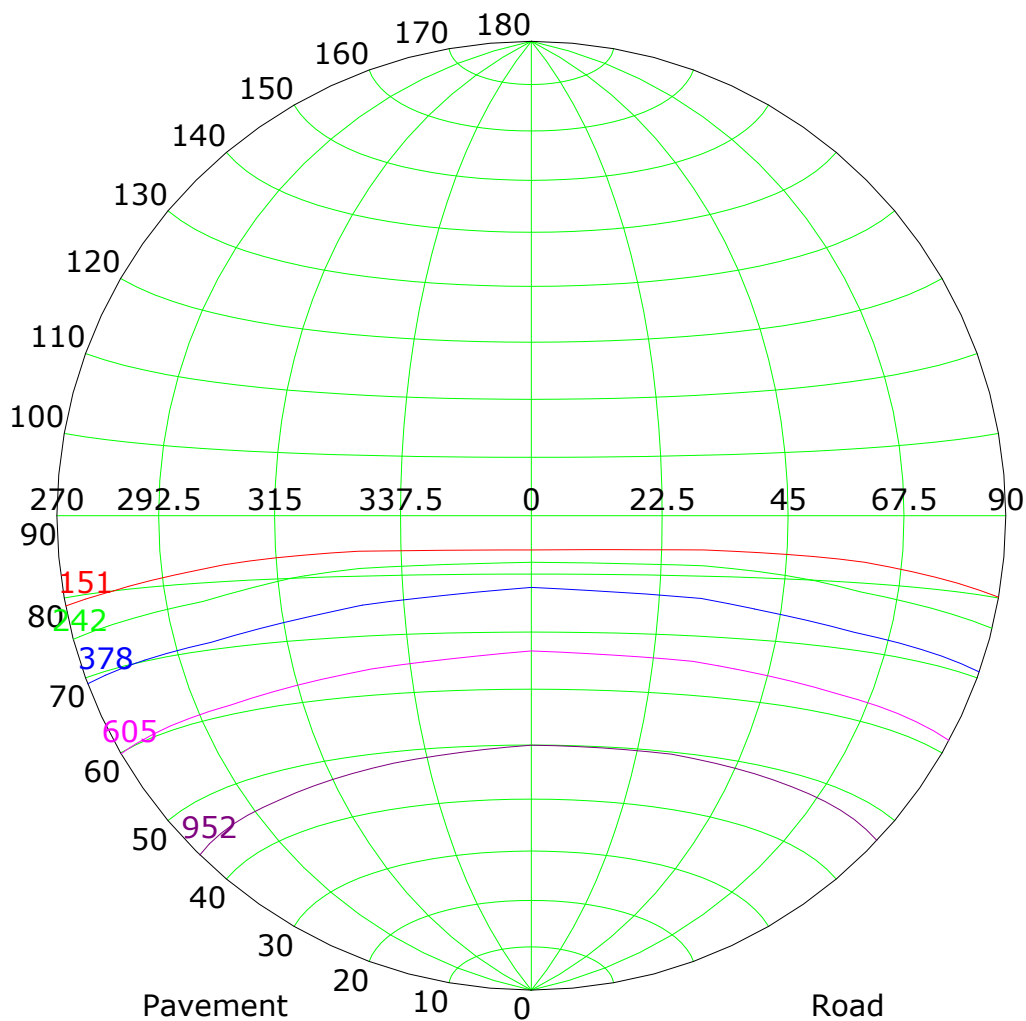
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Isocandela (sphere)



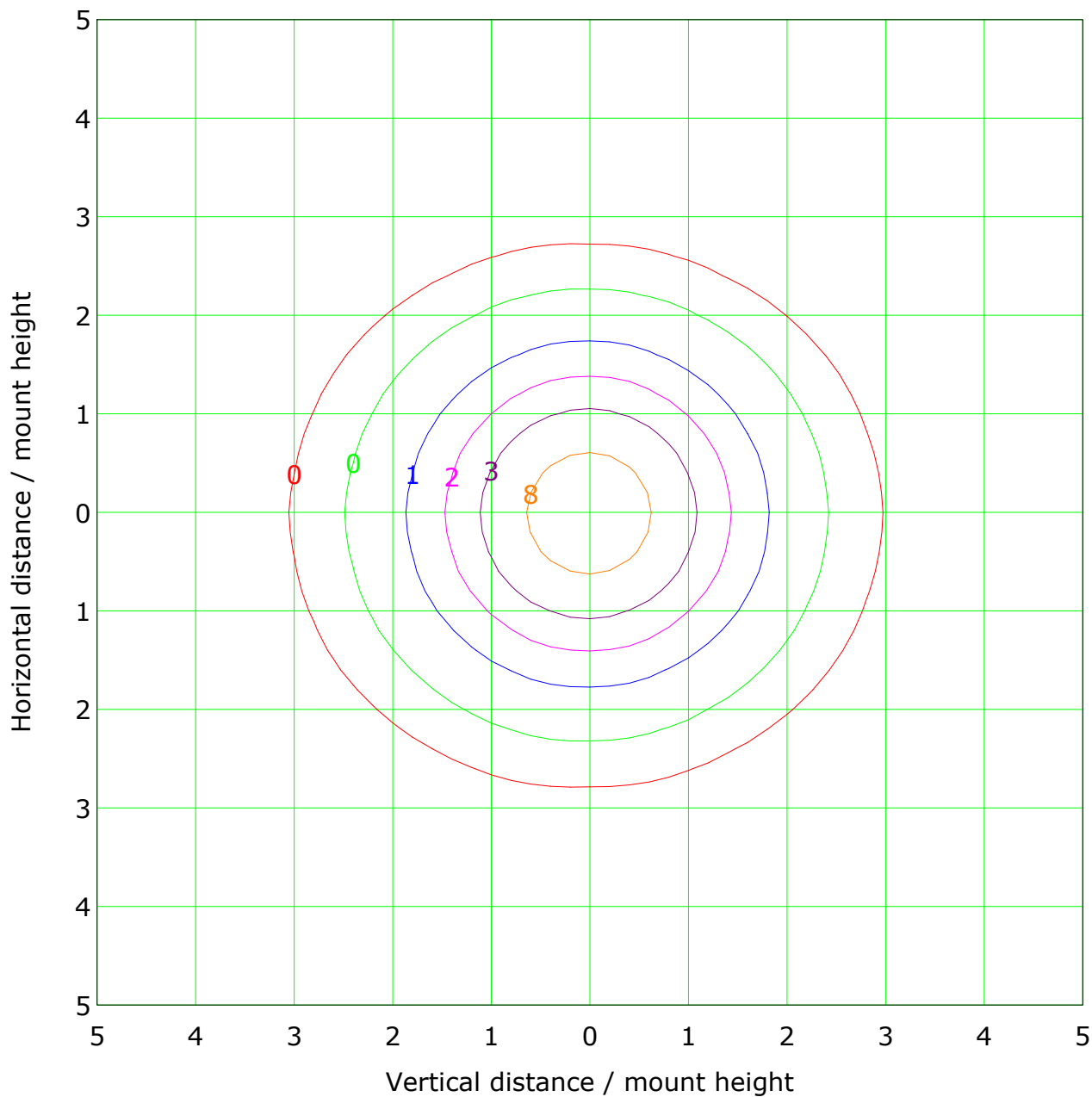
Imax (100%): 1511 cd

(10%): 151 cd	(16%): 242 cd
(25%): 378 cd	(40%): 605 cd
(63%): 952 cd	(100%): 1511 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



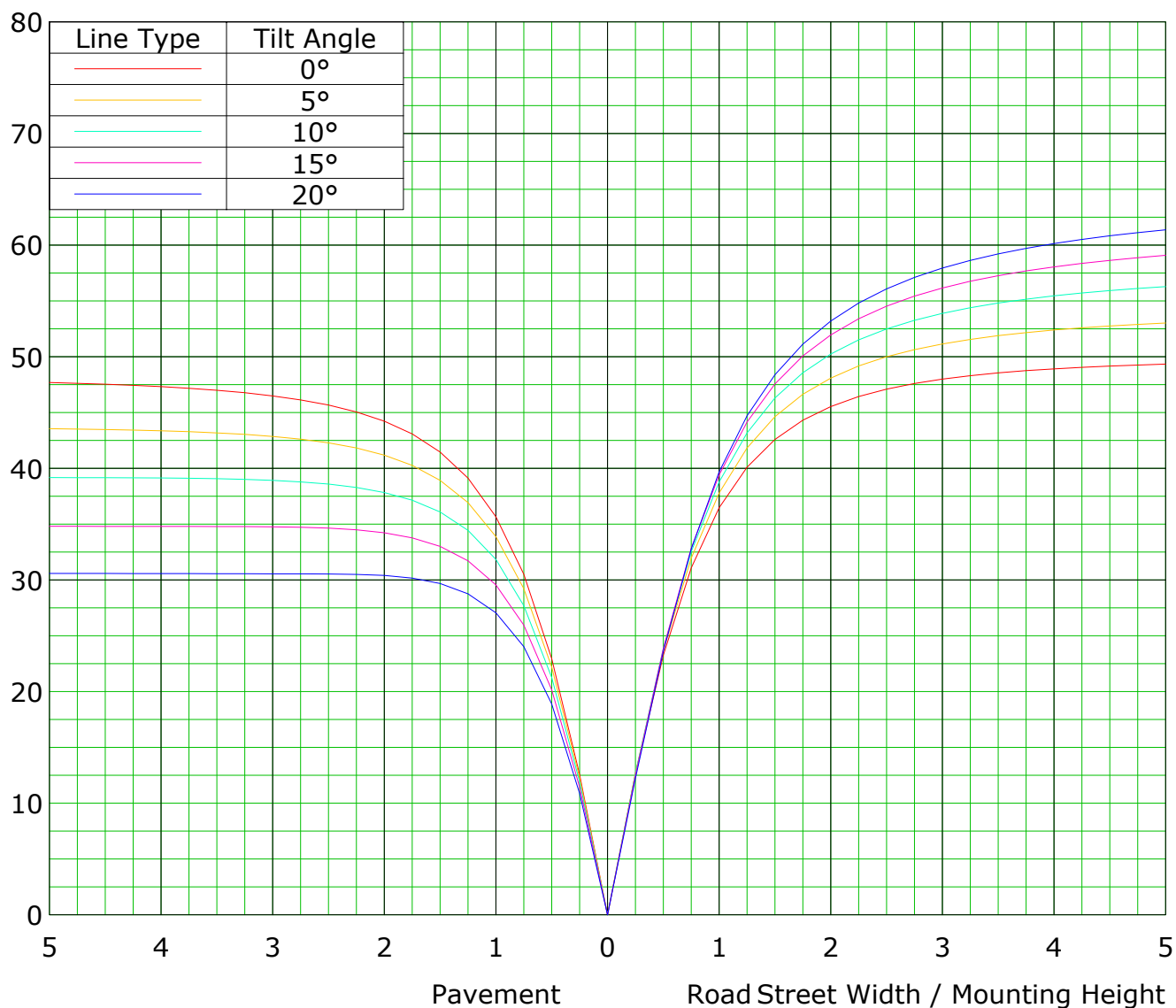
Mounting Height: 10.0m Max Lux(100%): 15.1 lx	
(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.5 lx
(20%): 3.0 lx	(50%): 7.6 lx
(100%): 15.1 lx	

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:

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

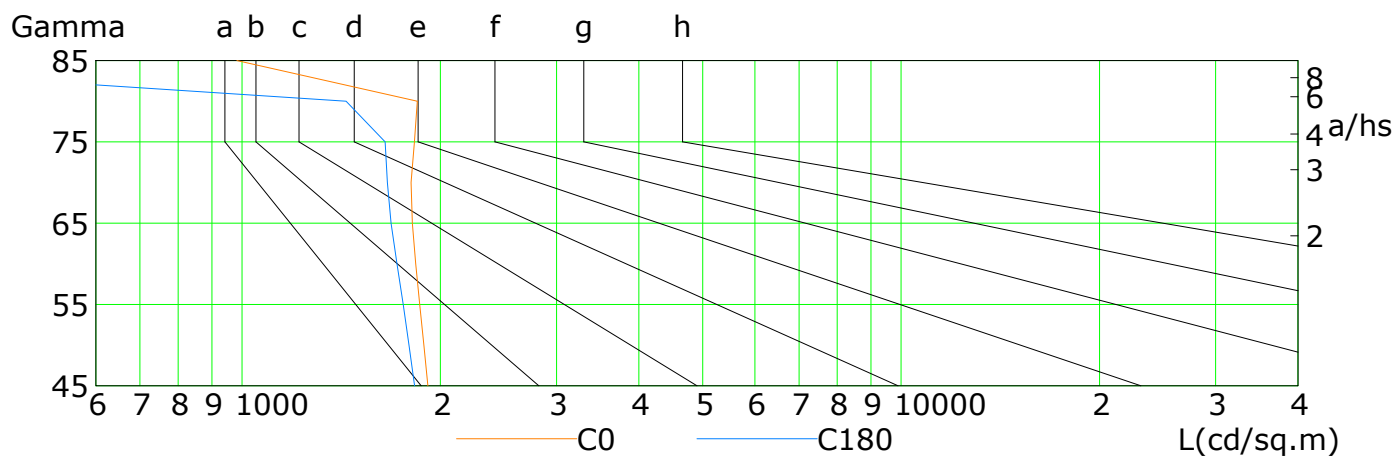
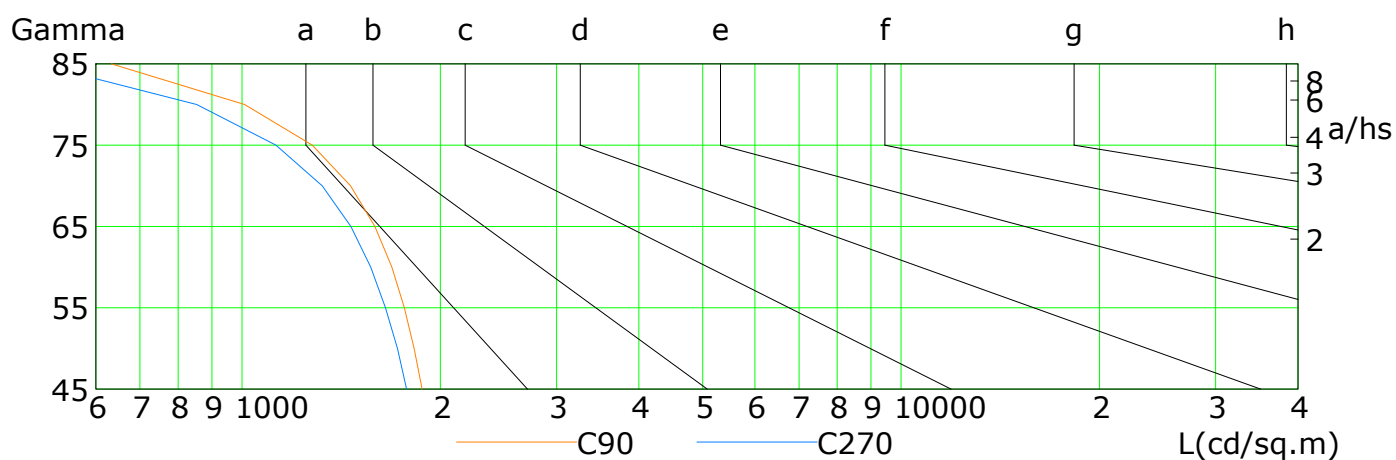
Humidity:

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	1914	1888	1861	1834	1813	1805	1827	1844	982
C90	1876	1824	1763	1687	1591	1461	1278	1009	634
C180	1828	1792	1756	1718	1683	1661	1648	1438	165
C270	1777	1722	1651	1568	1463	1324	1126	854	491

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

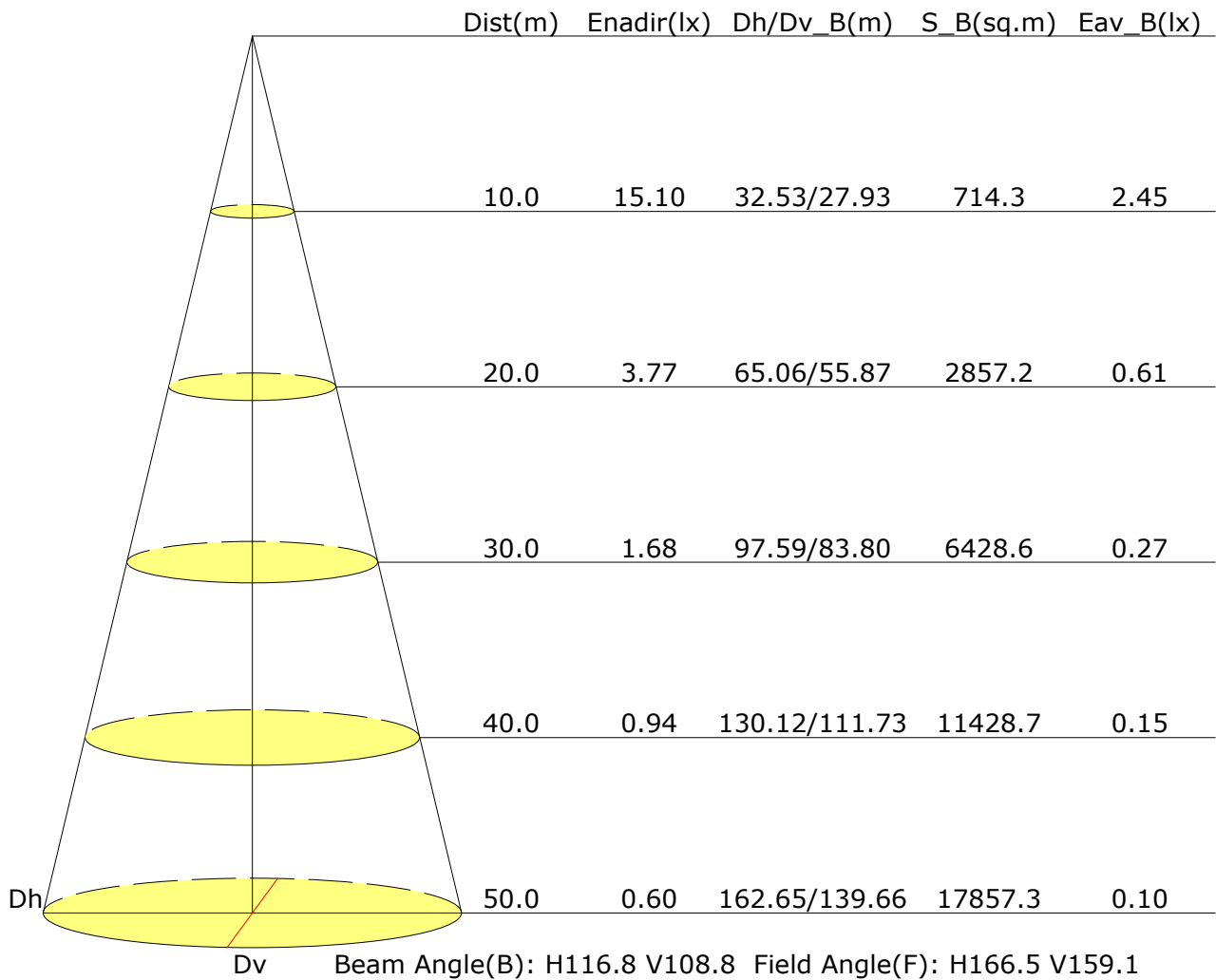
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

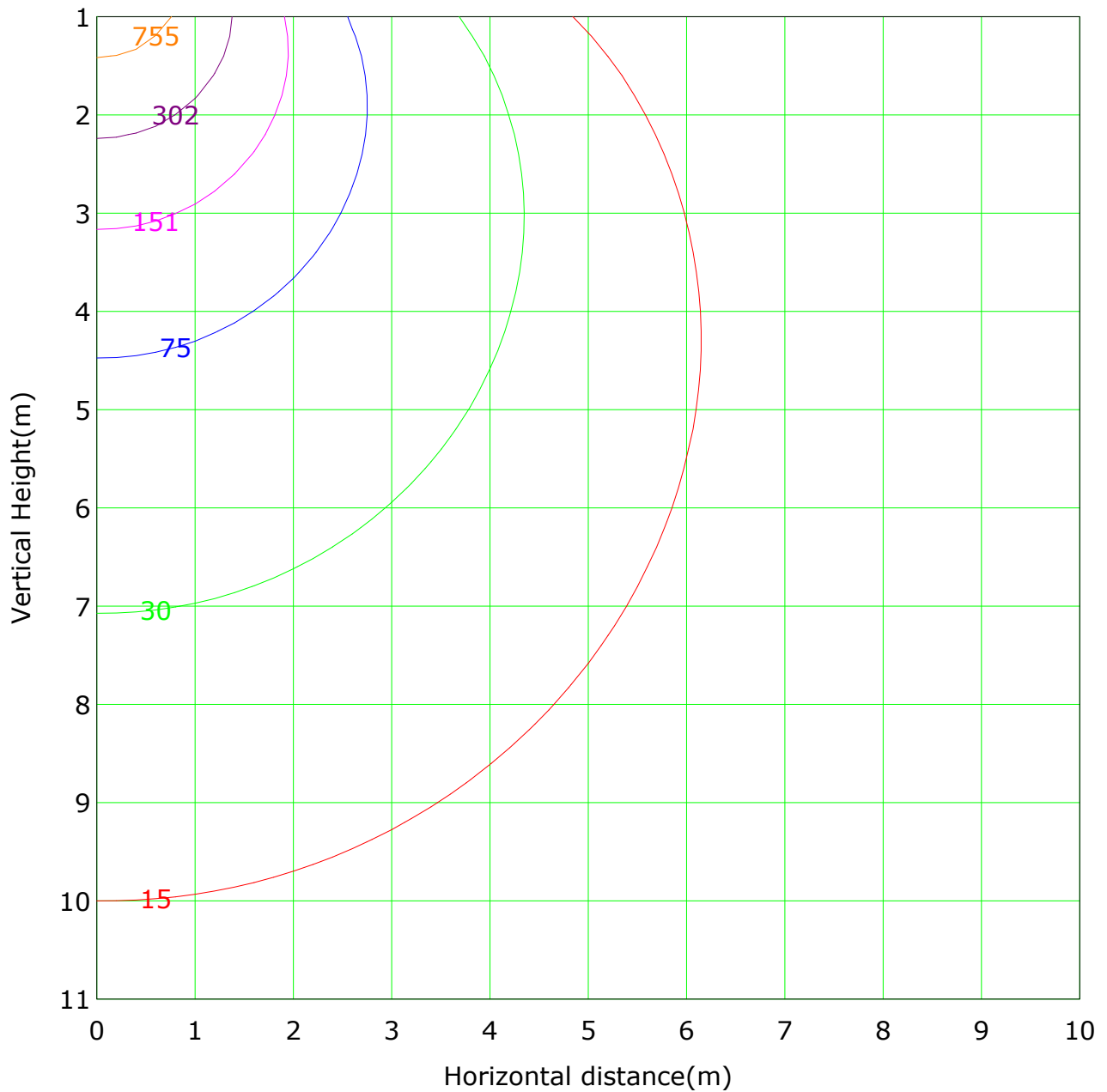
Illuminance at a Distance



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: 1509.9 lx

— (1%): 15.1 lx	— (2%): 30.2 lx
— (5%): 75.5 lx	— (10%): 151.0 lx
— (20%): 302.0 lx	— (50%): 755.0 lx
— (100%): 1509.9 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:

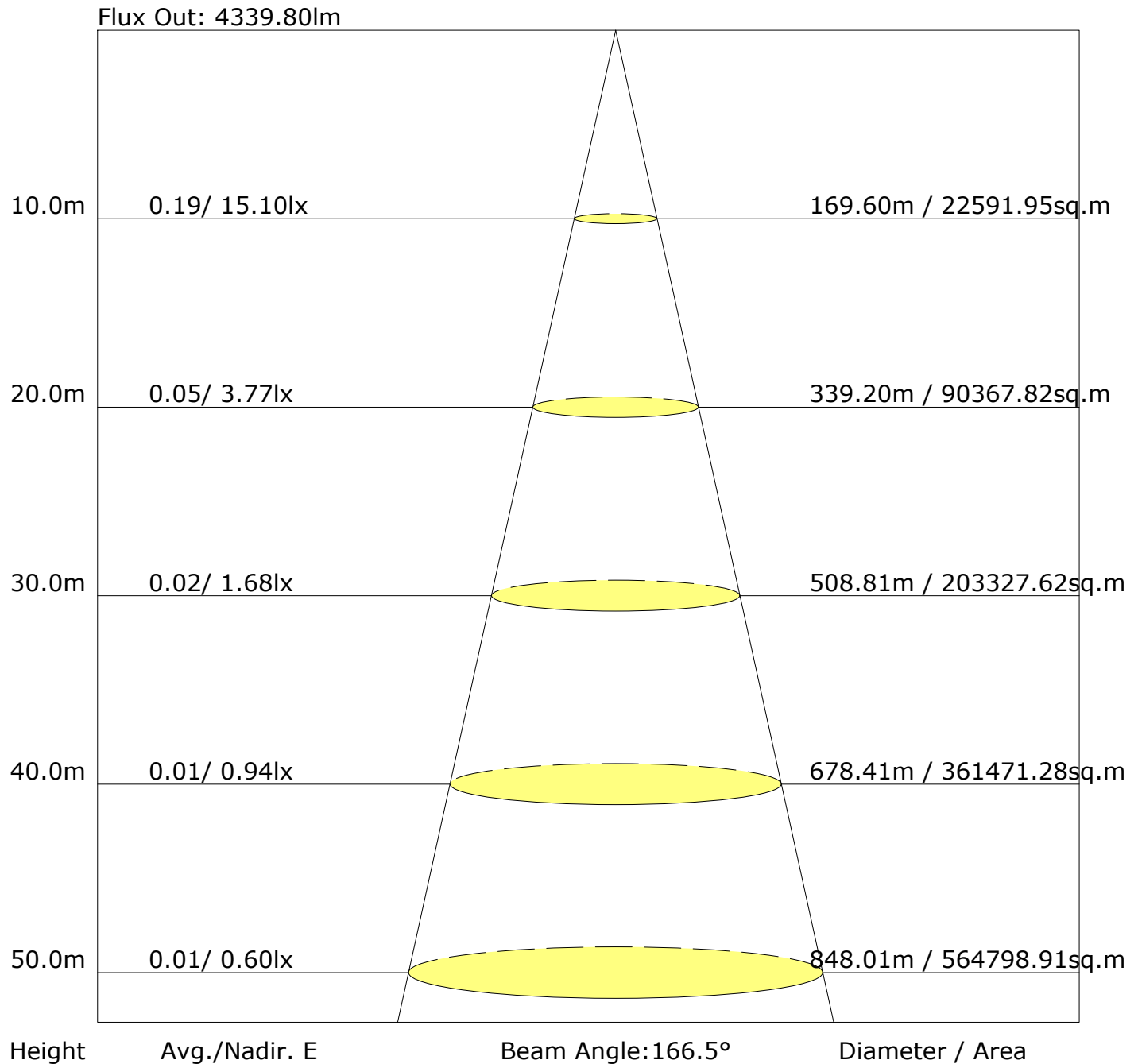
Unit: lm

Horizontal plane

Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	14.8	16.2	15.1	16.5	16.7	14.3	15.6	14.6	15.9	16.2
3H	16.7	17.9	17.0	18.2	18.5	15.7	17.0	16.1	17.3	17.6
4H	17.5	18.7	17.9	19.1	19.4	16.3	17.5	16.6	17.8	18.1
6H	18.3	19.5	18.7	19.8	20.2	16.6	17.7	17.0	18.1	18.4
8H	18.7	19.7	19.0	20.1	20.4	16.7	17.8	17.1	18.1	18.5
12H	18.8	19.8	19.2	20.2	20.6	16.7	17.8	17.1	18.1	18.5
X=4H Y=2H	15.4	16.6	15.8	17.0	17.3	15.0	16.2	15.4	16.5	16.8
3H	17.5	18.5	17.9	18.9	19.3	16.6	17.7	17.1	18.0	18.4
4H	18.5	19.4	19.0	19.8	20.2	17.3	18.2	17.8	18.6	19.0
6H	19.5	20.3	19.9	20.7	21.2	17.8	18.6	18.2	19.0	19.5
8H	19.9	20.6	20.3	21.1	21.5	17.9	18.7	18.4	19.1	19.6
12H	20.1	20.7	20.5	21.2	21.7	18.0	18.7	18.5	19.1	19.6
X=8H Y=4H	18.8	19.6	19.3	20.0	20.4	17.7	18.5	18.2	18.9	19.4
6H	20.0	20.6	20.5	21.0	21.5	18.4	19.0	18.9	19.5	20.0
8H	20.5	21.0	21.0	21.5	22.0	18.6	19.1	19.1	19.6	20.1
12H	20.7	21.2	21.2	21.7	22.2	18.7	19.2	19.3	19.7	20.3
X=12H Y=4H	18.8	19.5	19.3	19.9	20.4	17.8	18.5	18.3	19.0	19.4
6H	20.0	20.6	20.5	21.1	21.6	18.5	19.1	19.0	19.6	20.1
8H	20.6	21.0	21.1	21.5	22.1	18.8	19.3	19.3	19.8	20.3
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 4438lm ($8\log(F/F_0) = 5.2$).

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

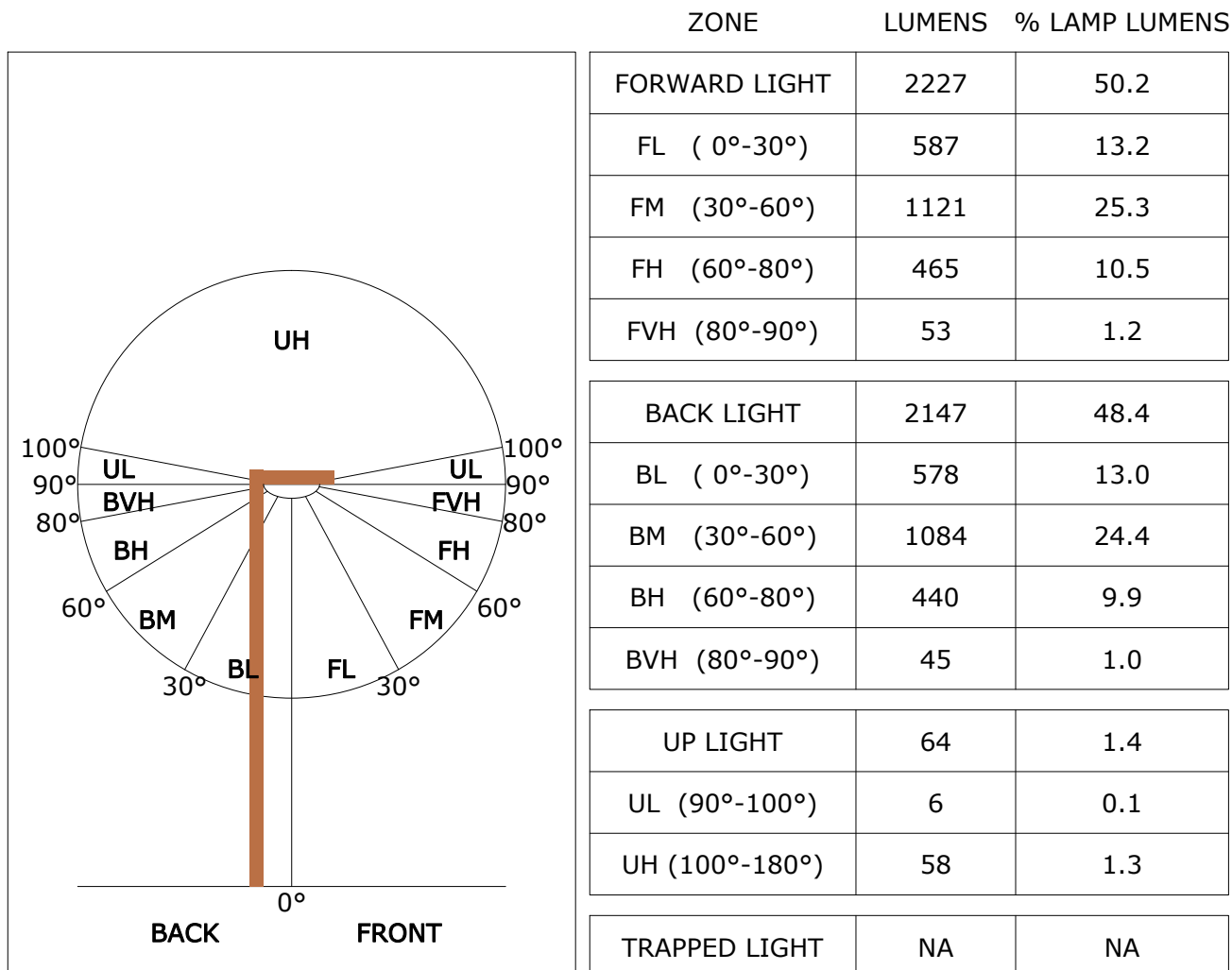
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



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

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

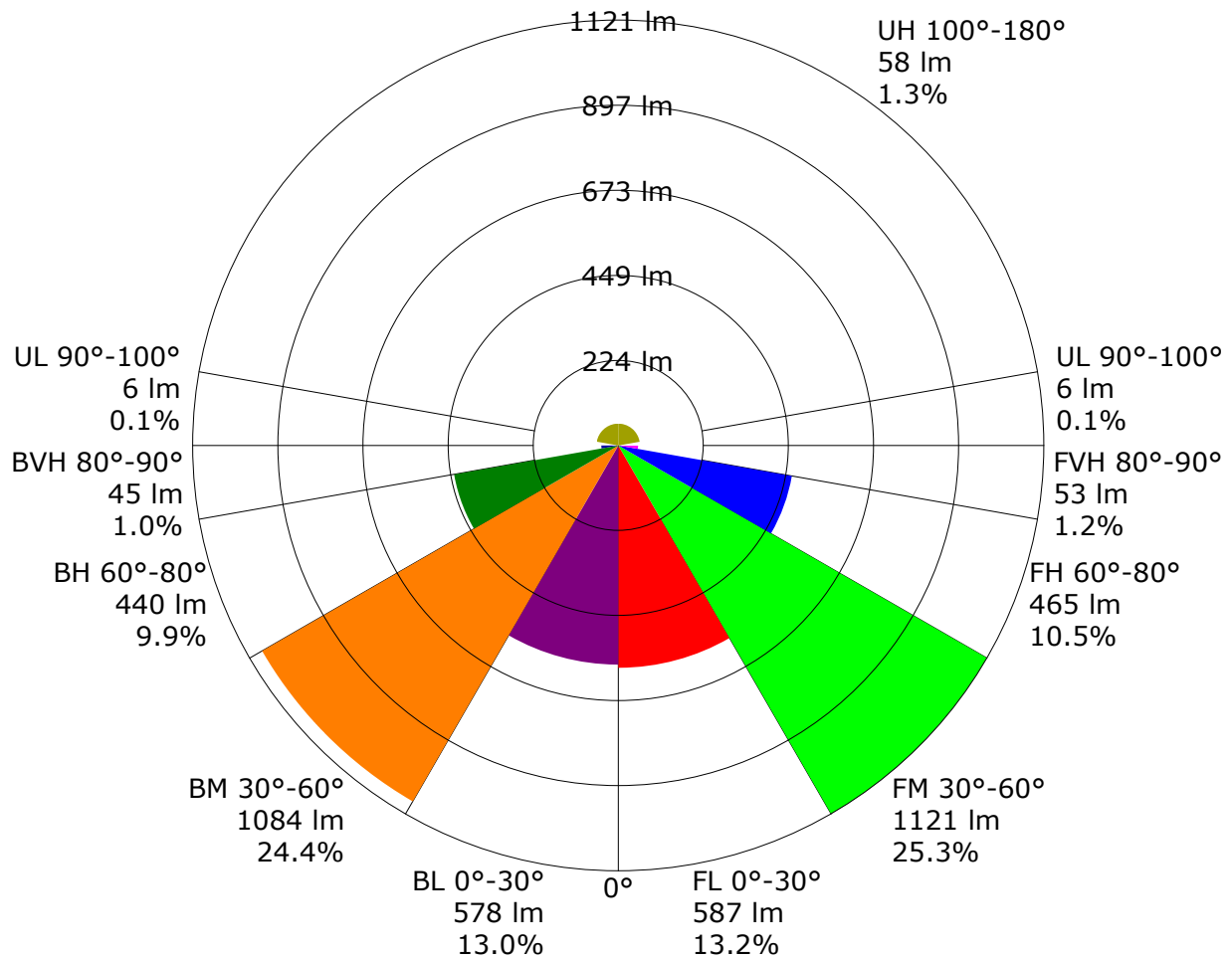
Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LCS Graph



Back Light

Scale= 1121 lm

Trapped Light:NA,NA

Forward Light

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.55	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.30		0.47	0.58	0.65	0.71	0.79	0.85	0.89	0.95	0.99	
	0.20		0.42	0.52	0.59	0.65	0.74	0.80	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.46	0.56	0.64	0.69	0.77	0.82	0.86	0.91	0.95	
	0.20		0.41	0.51	0.59	0.64	0.72	0.78	0.82	0.88	0.92	
0.30	0.50	0.20	0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94	
	0.30		0.46	0.55	0.62	0.67	0.75	0.80	0.83	0.88	0.91	
	0.20		0.41	0.50	0.58	0.63	0.71	0.76	0.80	0.85	0.89	
0.00	0.00	0.00	0.38	0.48	0.55	0.60	0.67	0.72	0.76	0.81	0.84	
<p>Rating:33W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.72	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
Rating:33W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.21	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.21	0.22	0.22	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.17	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:33W 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	1509.8	1.4	1.4	0.03	0.03
1.0-2.0	1509.2	4.3	5.8	0.10	0.13
2.0-3.0	1508.0	7.2	13.0	0.16	0.29
3.0-4.0	1506.2	10.1	23.1	0.23	0.52
4.0-5.0	1503.8	12.9	36.0	0.29	0.81
5.0-6.0	1500.9	15.8	51.8	0.36	1.17
6.0-7.0	1497.3	18.6	70.4	0.42	1.59
7.0-8.0	1493.2	21.4	91.7	0.48	2.07
8.0-9.0	1488.5	24.1	115.9	0.54	2.61
9.0-10.0	1483.3	26.8	142.7	0.60	3.22
10.0-11.0	1477.5	29.5	172.2	0.67	3.88
11.0-12.0	1471.0	32.2	204.4	0.72	4.61
12.0-13.0	1464.3	34.8	239.2	0.78	5.39
13.0-14.0	1456.8	37.3	276.5	0.84	6.23
14.0-15.0	1448.8	39.8	316.2	0.90	7.13
15.0-16.0	1440.1	42.2	358.4	0.95	8.08
16.0-17.0	1431.1	44.6	403.0	1.00	9.08
17.0-18.0	1421.9	46.9	449.9	1.06	10.14
18.0-19.0	1411.7	49.1	499.0	1.11	11.24
19.0-20.0	1401.1	51.3	550.3	1.16	12.40
20.0-21.0	1390.4	53.4	603.7	1.20	13.60
21.0-22.0	1378.8	55.4	659.1	1.25	14.85
22.0-23.0	1366.8	57.4	716.5	1.29	16.14
23.0-24.0	1354.1	59.2	775.7	1.33	17.48
24.0-25.0	1341.1	61.0	836.7	1.37	18.85
25.0-26.0	1328.2	62.7	899.4	1.41	20.26
26.0-27.0	1314.3	64.3	963.7	1.45	21.71
27.0-28.0	1300.1	65.8	1029.5	1.48	23.20
28.0-29.0	1285.9	67.3	1096.8	1.52	24.71
29.0-30.0	1270.8	68.6	1165.4	1.55	26.26
30.0-31.0	1255.3	69.9	1235.3	1.57	27.83
31.0-32.0	1239.3	71.0	1306.3	1.60	29.43
32.0-33.0	1222.8	72.1	1378.4	1.62	31.06
33.0-34.0	1206.7	73.0	1451.4	1.65	32.70
34.0-35.0	1189.6	73.9	1525.3	1.66	34.37
35.0-36.0	1172.3	74.7	1599.9	1.68	36.05

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1154.9	75.3	1675.3	1.70	37.75
37.0-38.0	1136.8	75.9	1751.2	1.71	39.46
38.0-39.0	1118.8	76.4	1827.5	1.72	41.18
39.0-40.0	1100.1	76.7	1904.3	1.73	42.91
40.0-41.0	1081.1	77.0	1981.3	1.73	44.64
41.0-42.0	1062.8	77.2	2058.5	1.74	46.38
42.0-43.0	1043.3	77.3	2135.8	1.74	48.12
43.0-44.0	1023.6	77.3	2213.0	1.74	49.86
44.0-45.0	1003.9	77.2	2290.2	1.74	51.60
45.0-46.0	983.7	76.9	2367.1	1.73	53.34
46.0-47.0	963.5	76.6	2443.8	1.73	55.06
47.0-48.0	942.8	76.2	2520.0	1.72	56.78
48.0-49.0	921.9	75.7	2595.7	1.71	58.49
49.0-50.0	901.7	75.2	2670.9	1.69	60.18
50.0-51.0	880.3	74.5	2745.4	1.68	61.86
51.0-52.0	858.9	73.7	2819.1	1.66	63.52
52.0-53.0	837.7	72.9	2892.0	1.64	65.16
53.0-54.0	815.7	71.9	2963.9	1.62	66.78
54.0-55.0	794.2	70.9	3034.8	1.60	68.38
55.0-56.0	771.9	69.8	3104.6	1.57	69.95
56.0-57.0	749.7	68.6	3173.1	1.54	71.50
57.0-58.0	728.0	67.3	3240.5	1.52	73.01
58.0-59.0	705.2	65.9	3306.4	1.49	74.50
59.0-60.0	682.5	64.5	3370.9	1.45	75.95
60.0-61.0	659.8	63.0	3433.9	1.42	77.37
61.0-62.0	636.8	61.4	3495.2	1.38	78.75
62.0-63.0	614.7	59.8	3555.0	1.35	80.10
63.0-64.0	591.6	58.1	3613.1	1.31	81.41
64.0-65.0	568.7	56.3	3669.4	1.27	82.68
65.0-66.0	546.5	54.5	3723.9	1.23	83.91
66.0-67.0	523.5	52.6	3776.6	1.19	85.09
67.0-68.0	500.7	50.7	3827.3	1.14	86.23
68.0-69.0	477.9	48.8	3876.0	1.10	87.33
69.0-70.0	455.0	46.7	3922.8	1.05	88.39
70.0-71.0	433.3	44.8	3967.6	1.01	89.40
71.0-72.0	410.8	42.7	4010.3	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	388.4	40.6	4050.9	0.92	91.27
73.0-74.0	367.2	38.6	4089.5	0.87	92.14
74.0-75.0	345.2	36.5	4126.0	0.82	92.97
75.0-76.0	323.4	34.3	4160.3	0.77	93.74
76.0-77.0	301.8	32.2	4192.5	0.73	94.46
77.0-78.0	280.1	30.0	4222.5	0.68	95.14
78.0-79.0	258.9	27.8	4250.3	0.63	95.77
79.0-80.0	235.9	25.4	4275.8	0.57	96.34
80.0-81.0	211.4	22.9	4298.6	0.52	96.85
81.0-82.0	185.3	20.1	4318.7	0.45	97.31
82.0-83.0	155.7	16.9	4335.7	0.38	97.69
83.0-84.0	124.4	13.6	4349.2	0.31	97.99
84.0-85.0	92.4	10.1	4359.3	0.23	98.22
85.0-86.0	62.1	6.8	4366.1	0.15	98.37
86.0-87.0	38.1	4.2	4370.3	0.09	98.47
87.0-88.0	20.3	2.2	4372.5	0.05	98.52
88.0-89.0	9.9	1.1	4373.6	0.02	98.54
89.0-90.0	6.4	0.7	4374.3	0.02	98.56
90.0-91.0	5.3	0.6	4374.8	0.01	98.57
91.0-92.0	5.1	0.6	4375.4	0.01	98.58
92.0-93.0	5.2	0.6	4376.0	0.01	98.60
93.0-94.0	5.4	0.6	4376.6	0.01	98.61
94.0-95.0	5.6	0.6	4377.2	0.01	98.62
95.0-96.0	5.7	0.6	4377.8	0.01	98.64
96.0-97.0	5.9	0.6	4378.5	0.01	98.65
97.0-98.0	6.1	0.7	4379.1	0.01	98.67
98.0-99.0	6.3	0.7	4379.8	0.02	98.68
99.0-100.0	6.4	0.7	4380.5	0.02	98.70
100.0-101.0	6.6	0.7	4381.2	0.02	98.72
101.0-102.0	6.8	0.7	4381.9	0.02	98.73
102.0-103.0	6.9	0.7	4382.7	0.02	98.75
103.0-104.0	7.1	0.8	4383.4	0.02	98.77
104.0-105.0	7.3	0.8	4384.2	0.02	98.78
105.0-106.0	7.4	0.8	4385.0	0.02	98.80
106.0-107.0	7.6	0.8	4385.8	0.02	98.82
107.0-108.0	7.8	0.8	4386.6	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	7.9	0.8	4387.4	0.02	98.86
109.0-110.0	8.1	0.8	4388.3	0.02	98.87
110.0-111.0	8.3	0.9	4389.1	0.02	98.89
111.0-112.0	8.5	0.9	4390.0	0.02	98.91
112.0-113.0	8.6	0.9	4390.9	0.02	98.93
113.0-114.0	8.8	0.9	4391.7	0.02	98.95
114.0-115.0	8.9	0.9	4392.6	0.02	98.97
115.0-116.0	9.1	0.9	4393.5	0.02	98.99
116.0-117.0	9.2	0.9	4394.4	0.02	99.01
117.0-118.0	9.4	0.9	4395.4	0.02	99.03
118.0-119.0	9.6	0.9	4396.3	0.02	99.06
119.0-120.0	9.8	0.9	4397.2	0.02	99.08
120.0-121.0	9.9	0.9	4398.1	0.02	99.10
121.0-122.0	10.1	0.9	4399.1	0.02	99.12
122.0-123.0	10.3	1.0	4400.0	0.02	99.14
123.0-124.0	10.5	1.0	4401.0	0.02	99.16
124.0-125.0	10.6	1.0	4402.0	0.02	99.18
125.0-126.0	10.8	1.0	4402.9	0.02	99.20
126.0-127.0	11.0	1.0	4403.9	0.02	99.23
127.0-128.0	11.2	1.0	4404.9	0.02	99.25
128.0-129.0	11.3	1.0	4405.8	0.02	99.27
129.0-130.0	11.5	1.0	4406.8	0.02	99.29
130.0-131.0	11.7	1.0	4407.8	0.02	99.31
131.0-132.0	11.9	1.0	4408.8	0.02	99.34
132.0-133.0	12.0	1.0	4409.7	0.02	99.36
133.0-134.0	12.2	1.0	4410.7	0.02	99.38
134.0-135.0	12.4	1.0	4411.7	0.02	99.40
135.0-136.0	12.5	1.0	4412.6	0.02	99.42
136.0-137.0	12.7	1.0	4413.6	0.02	99.45
137.0-138.0	12.9	1.0	4414.5	0.02	99.47
138.0-139.0	13.0	0.9	4415.5	0.02	99.49
139.0-140.0	13.1	0.9	4416.4	0.02	99.51
140.0-141.0	13.3	0.9	4417.3	0.02	99.53
141.0-142.0	13.4	0.9	4418.3	0.02	99.55
142.0-143.0	13.6	0.9	4419.2	0.02	99.57
143.0-144.0	13.7	0.9	4420.1	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	13.9	0.9	4420.9	0.02	99.61
145.0-146.0	14.0	0.9	4421.8	0.02	99.63
146.0-147.0	14.1	0.9	4422.7	0.02	99.65
147.0-148.0	14.2	0.8	4423.5	0.02	99.67
148.0-149.0	14.4	0.8	4424.3	0.02	99.69
149.0-150.0	14.5	0.8	4425.1	0.02	99.71
150.0-151.0	14.6	0.8	4425.9	0.02	99.72
151.0-152.0	14.7	0.8	4426.7	0.02	99.74
152.0-153.0	14.8	0.8	4427.5	0.02	99.76
153.0-154.0	15.0	0.7	4428.2	0.02	99.77
154.0-155.0	15.1	0.7	4428.9	0.02	99.79
155.0-156.0	15.2	0.7	4429.6	0.02	99.81
156.0-157.0	15.3	0.7	4430.3	0.02	99.82
157.0-158.0	15.4	0.6	4430.9	0.01	99.84
158.0-159.0	15.5	0.6	4431.5	0.01	99.85
159.0-160.0	15.6	0.6	4432.1	0.01	99.86
160.0-161.0	15.6	0.6	4432.7	0.01	99.88
161.0-162.0	15.7	0.5	4433.2	0.01	99.89
162.0-163.0	15.8	0.5	4433.8	0.01	99.90
163.0-164.0	15.9	0.5	4434.3	0.01	99.91
164.0-165.0	16.0	0.5	4434.7	0.01	99.92
165.0-166.0	16.1	0.4	4435.2	0.01	99.93
166.0-167.0	16.1	0.4	4435.6	0.01	99.94
167.0-168.0	16.2	0.4	4436.0	0.01	99.95
168.0-169.0	16.3	0.4	4436.3	0.01	99.96
169.0-170.0	16.3	0.3	4436.6	0.01	99.96
170.0-171.0	16.4	0.3	4436.9	0.01	99.97
171.0-172.0	16.4	0.3	4437.2	0.01	99.98
172.0-173.0	16.5	0.2	4437.4	0.01	99.98
173.0-174.0	16.5	0.2	4437.6	0.00	99.99
174.0-175.0	16.6	0.2	4437.8	0.00	99.99
175.0-176.0	16.6	0.1	4438.0	0.00	99.99
176.0-177.0	16.6	0.1	4438.1	0.00	100.00
177.0-178.0	16.7	0.1	4438.2	0.00	100.00
178.0-179.0	16.7	0.0	4438.2	0.00	100.00
179.0-180.0	16.7	0.0	4438.2	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°): 2290.21 lm

%lum = 51.6%

%lamp = 51.6%

cone flux(120°): 3370.90 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	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9
G1.0	1510.5	1510.4	1511.0	1510.7	1510.0	1509.7	1508.9	1508.3	1508.4	1508.5
G2.0	1510.3	1510.9	1511.3	1510.4	1509.9	1508.7	1507.3	1506.4	1506.2	1506.8
G3.0	1509.4	1510.4	1510.9	1509.9	1508.8	1507.3	1505.0	1504.0	1503.3	1504.3
G4.0	1508.1	1509.7	1509.8	1508.6	1506.8	1505.3	1502.4	1500.9	1500.1	1501.4
G5.0	1506.7	1508.1	1508.1	1506.8	1504.7	1502.5	1498.9	1497.8	1496.5	1497.4
G6.0	1504.2	1506.1	1505.9	1504.3	1501.6	1499.3	1494.9	1493.0	1491.5	1493.3
G7.0	1501.1	1503.4	1502.7	1501.1	1498.3	1495.3	1490.8	1488.6	1486.6	1488.1
G8.0	1497.9	1500.6	1500.2	1497.7	1494.3	1491.7	1485.5	1482.7	1481.0	1482.4
G9.0	1494.0	1496.7	1495.6	1492.8	1489.1	1486.0	1480.2	1477.6	1474.7	1476.2
G10.0	1489.5	1492.2	1491.4	1488.1	1484.2	1481.4	1474.5	1471.4	1468.0	1469.8
G11.0	1484.1	1487.3	1485.7	1482.3	1478.2	1475.0	1467.6	1464.0	1460.6	1462.3
G12.0	1478.1	1481.6	1480.2	1476.1	1471.6	1468.4	1460.7	1456.9	1452.9	1454.6
G13.0	1472.6	1476.3	1474.3	1469.6	1465.1	1461.5	1453.5	1449.3	1444.8	1446.5
G14.0	1465.6	1469.6	1466.8	1461.5	1456.9	1453.9	1445.3	1440.5	1435.6	1437.2
G15.0	1458.7	1462.6	1459.9	1454.1	1449.0	1446.1	1437.5	1432.1	1426.0	1427.6
G16.0	1450.3	1454.7	1451.1	1444.8	1439.7	1436.8	1427.9	1422.2	1415.6	1417.1
G17.0	1442.6	1446.9	1442.8	1436.3	1431.1	1428.5	1418.9	1412.3	1405.9	1407.3
G18.0	1434.2	1438.7	1433.9	1426.7	1421.3	1418.7	1409.4	1402.7	1394.9	1396.2
G19.0	1424.4	1428.6	1424.0	1416.1	1410.8	1408.5	1398.7	1391.3	1383.0	1384.5
G20.0	1415.4	1419.6	1414.0	1405.9	1400.5	1398.3	1388.0	1379.6	1371.0	1372.2
G21.0	1405.3	1410.0	1403.5	1394.7	1389.1	1387.3	1377.4	1368.9	1359.3	1360.2
G22.0	1394.6	1398.8	1391.7	1382.4	1377.0	1375.3	1365.0	1355.5	1345.4	1347.0
G23.0	1384.3	1388.3	1380.6	1370.6	1365.0	1364.1	1353.8	1343.6	1332.5	1333.3
G24.0	1371.8	1375.8	1367.3	1356.8	1351.5	1350.4	1340.8	1329.9	1318.0	1318.8
G25.0	1360.4	1364.6	1355.4	1344.2	1339.1	1337.9	1328.1	1316.3	1304.7	1305.3
G26.0	1348.4	1352.0	1342.1	1330.4	1325.1	1325.4	1315.4	1303.3	1290.2	1290.3
G27.0	1335.4	1338.8	1328.3	1315.7	1310.4	1311.2	1301.4	1288.4	1274.6	1274.3
G28.0	1322.6	1326.0	1314.3	1301.9	1296.7	1297.0	1288.0	1273.9	1258.9	1259.8
G29.0	1309.5	1312.7	1300.4	1286.7	1281.8	1283.5	1273.9	1259.5	1244.0	1243.6
G30.0	1295.5	1298.2	1284.9	1270.3	1265.5	1267.3	1258.6	1243.7	1227.1	1226.4
G31.0	1281.2	1283.5	1269.5	1254.2	1249.9	1252.9	1243.5	1228.1	1211.3	1210.7
G32.0	1266.0	1268.0	1252.9	1237.3	1233.0	1236.5	1227.6	1211.3	1193.1	1191.8
G33.0	1251.9	1253.7	1236.7	1220.4	1217.3	1220.5	1211.8	1195.1	1175.7	1174.2
G34.0	1236.6	1238.1	1221.4	1204.2	1200.4	1205.2	1196.1	1178.3	1159.2	1156.3
G35.0	1220.0	1221.4	1203.0	1185.0	1182.3	1187.1	1178.9	1160.8	1139.6	1137.3
G36.0	1204.6	1205.4	1186.5	1168.2	1164.6	1170.9	1163.2	1143.5	1122.4	1119.9

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	1189.3	1189.3	1168.9	1150.0	1146.4	1153.4	1144.8	1125.2	1102.0	1099.3
G38.0	1171.4	1170.8	1150.1	1130.4	1127.3	1135.2	1128.4	1108.2	1084.0	1081.1
G39.0	1154.6	1154.2	1131.5	1111.7	1109.5	1117.3	1111.1	1089.9	1065.3	1062.8
G40.0	1136.8	1135.3	1112.0	1091.6	1088.6	1098.5	1092.5	1070.7	1045.2	1041.4
G41.0	1119.3	1118.1	1093.3	1072.0	1070.4	1080.1	1074.9	1052.3	1025.4	1022.5
G42.0	1102.5	1100.0	1075.0	1052.9	1051.0	1062.3	1057.6	1034.4	1006.6	1002.1
G43.0	1083.7	1080.7	1053.7	1031.0	1030.1	1041.8	1038.4	1013.8	985.6	981.0
G44.0	1065.9	1062.1	1035.0	1011.5	1009.9	1023.4	1020.1	995.4	965.5	960.3
G45.0	1047.4	1043.9	1014.7	990.7	989.5	1004.0	1000.3	975.1	943.9	938.4
G46.0	1028.0	1023.2	993.5	968.5	968.2	983.9	981.2	955.3	924.2	917.5
G47.0	1009.2	1004.6	972.9	947.3	947.4	963.6	962.8	935.7	903.2	897.3
G48.0	989.4	983.0	951.0	924.7	925.2	942.9	941.8	915.0	881.1	873.9
G49.0	971.1	964.4	929.9	903.1	904.8	922.8	923.5	895.9	859.7	853.2
G50.0	951.8	944.4	909.6	882.1	883.1	902.5	903.7	875.5	839.3	832.3
G51.0	930.5	923.4	886.2	858.1	859.2	881.1	883.0	854.0	815.6	808.3
G52.0	911.6	902.9	865.3	836.5	838.3	860.4	864.2	834.3	794.9	787.1
G53.0	891.9	882.4	843.7	814.1	816.0	840.3	842.3	811.7	770.9	762.5
G54.0	871.0	860.7	820.4	790.1	792.6	817.3	823.1	790.6	749.7	740.9
G55.0	850.7	839.7	798.0	767.0	769.9	797.0	802.7	770.3	727.4	718.3
G56.0	829.6	817.9	774.2	741.9	746.2	773.9	781.5	748.6	703.9	694.2
G57.0	809.1	797.5	751.5	719.3	723.3	753.6	760.9	727.5	681.3	672.1
G58.0	788.4	775.4	728.7	695.8	700.1	732.0	741.5	707.2	659.7	649.0
G59.0	765.8	753.2	703.2	669.9	674.6	708.4	718.8	683.8	636.0	624.7
G60.0	746.1	731.6	681.3	646.9	652.4	687.7	698.8	663.5	613.0	601.1
G61.0	723.6	709.0	657.1	620.9	627.0	663.9	677.1	640.0	589.1	576.3
G62.0	703.8	687.3	632.3	597.6	604.3	642.2	656.3	619.4	566.0	552.6
G63.0	682.9	665.4	609.9	573.3	580.6	621.2	636.4	597.5	544.0	529.7
G64.0	661.0	642.7	585.2	546.5	555.7	597.4	614.0	575.2	518.8	503.8
G65.0	640.3	620.6	561.5	522.9	531.9	576.3	594.4	554.7	496.6	480.9
G66.0	619.3	599.6	537.8	498.3	508.0	554.5	574.4	533.3	473.5	456.9
G67.0	598.0	575.8	513.0	472.5	482.9	532.0	553.4	511.4	449.2	431.7
G68.0	578.6	554.7	489.0	447.4	460.1	510.3	534.3	490.5	427.2	408.7
G69.0	556.3	531.2	464.1	421.6	434.1	488.0	512.4	468.8	402.1	382.5
G70.0	536.1	509.8	440.3	396.8	410.4	466.9	493.4	449.2	380.3	359.6
G71.0	517.0	489.7	417.8	373.0	387.7	446.3	473.5	428.8	357.6	335.6
G72.0	495.1	466.7	392.1	345.7	362.3	424.7	452.9	407.7	334.1	310.5
G73.0	476.0	446.9	368.6	322.1	338.8	404.1	433.1	387.6	311.9	287.8

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 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	456.2	426.0	346.4	297.3	316.7	384.5	414.4	367.8	291.3	264.4
G75.0	435.7	404.6	321.1	271.6	292.9	362.6	393.1	346.9	267.8	239.1
G76.0	416.0	384.1	299.6	247.4	270.6	343.3	374.1	328.1	248.0	217.4
G77.0	395.8	362.9	276.2	221.4	246.8	321.6	349.8	306.3	226.2	193.1
G78.0	376.1	342.9	254.5	198.9	226.7	301.8	325.1	285.3	207.6	172.0
G79.0	354.9	322.6	233.6	176.2	206.3	281.9	294.4	259.1	188.4	150.9
G80.0	328.7	301.3	212.6	153.0	185.8	255.9	256.3	225.1	169.0	129.5
G81.0	299.7	277.5	192.7	131.7	166.6	229.6	213.3	190.4	150.6	110.1
G82.0	267.0	250.4	174.2	112.2	148.9	196.6	159.3	145.5	131.4	90.8
G83.0	222.9	214.6	153.5	91.2	129.4	155.6	99.6	94.2	109.5	73.9
G84.0	176.6	177.9	135.6	73.6	112.6	108.8	50.4	43.6	84.5	59.0
G85.0	114.5	127.8	112.8	56.8	92.0	55.0	19.2	16.9	50.9	44.0
G86.0	60.5	77.0	87.6	43.4	72.0	21.4	7.3	9.5	18.6	32.4
G87.0	26.6	32.1	60.3	31.4	46.0	7.0	6.0	8.2	9.9	23.1
G88.0	8.8	12.3	24.9	21.0	15.5	5.1	5.6	6.8	6.7	14.1
G89.0	5.5	7.9	9.6	13.3	5.9	4.7	5.4	5.8	5.2	7.5
G90.0	4.8	6.8	6.9	6.9	4.3	4.7	5.4	5.7	5.4	5.4
G91.0	4.6	5.5	4.0	4.1	4.5	4.8	5.5	5.9	5.6	5.5
G92.0	4.6	4.6	4.3	4.4	4.6	5.0	5.7	6.1	5.6	5.7
G93.0	4.7	4.7	4.3	4.6	4.9	5.2	5.9	6.3	5.9	5.9
G94.0	4.9	4.9	4.5	4.8	5.0	5.4	6.0	6.5	6.1	6.0
G95.0	5.0	5.1	4.6	4.9	5.2	5.4	6.2	6.6	6.3	6.2
G96.0	5.2	5.2	4.8	5.1	5.4	5.6	6.4	6.7	6.5	6.5
G97.0	5.4	5.4	5.0	5.2	5.6	5.7	6.6	6.9	6.6	6.6
G98.0	5.6	5.5	5.2	5.5	5.7	6.0	6.7	7.0	6.8	6.8
G99.0	5.7	5.7	5.4	5.7	5.9	6.1	6.8	7.3	7.0	7.0
G100.0	5.9	5.9	5.6	5.8	6.1	6.2	7.0	7.4	7.2	7.1
G101.0	6.0	6.0	5.6	6.0	6.3	6.6	7.1	7.6	7.3	7.3
G102.0	6.2	6.2	5.9	6.2	6.5	6.6	7.3	7.8	7.5	7.5
G103.0	6.4	6.4	6.0	6.3	6.6	6.8	7.5	7.9	7.6	7.6
G104.0	6.5	6.6	6.2	6.5	6.8	7.0	7.6	8.0	7.8	7.8
G105.0	6.7	6.7	6.4	6.7	6.9	7.1	7.8	8.1	7.9	7.9
G106.0	6.9	6.8	6.6	6.8	7.1	7.3	7.9	8.3	8.1	8.1
G107.0	7.1	7.0	6.7	7.0	7.3	7.4	8.1	8.5	8.3	8.2
G108.0	7.2	7.1	6.8	7.1	7.5	7.7	8.3	8.7	8.5	8.4
G109.0	7.5	7.3	7.0	7.3	7.6	7.8	8.4	8.9	8.7	8.6
G110.0	7.6	7.5	7.3	7.5	7.9	8.0	8.6	9.0	8.9	8.7

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	7.7	7.8	7.5	7.6	8.2	8.1	8.8	9.2	9.1	8.9
G112.0	7.9	7.8	7.6	7.8	8.4	8.3	9.0	9.3	9.3	9.1
G113.0	8.0	8.0	7.8	8.0	8.6	8.4	9.1	9.5	9.4	9.2
G114.0	8.2	8.2	7.8	8.1	8.6	8.7	9.2	9.7	9.5	9.4
G115.0	8.3	8.3	8.0	8.3	8.7	8.8	9.4	9.9	9.7	9.6
G116.0	8.5	8.5	8.2	8.5	8.9	9.0	9.6	10.0	9.8	9.8
G117.0	8.7	8.6	8.3	8.7	9.0	9.2	9.7	10.1	10.0	9.9
G118.0	8.9	8.9	8.5	8.8	9.2	9.4	9.9	10.3	10.1	10.0
G119.0	9.1	9.0	8.7	8.9	9.4	9.5	10.1	10.5	10.3	10.2
G120.0	9.2	9.2	9.0	9.1	9.7	9.8	10.2	10.7	10.5	10.3
G121.0	9.4	9.5	9.0	9.3	9.7	9.8	10.4	10.8	10.6	10.6
G122.0	9.5	9.5	9.3	9.5	9.9	10.1	10.6	11.1	10.8	10.7
G123.0	9.7	9.8	9.5	9.7	10.1	10.3	10.8	11.2	11.0	10.8
G124.0	9.9	9.9	9.7	9.9	10.2	10.5	11.0	11.4	11.1	11.0
G125.0	10.1	10.1	9.8	10.0	10.4	10.6	11.2	11.6	11.2	11.3
G126.0	10.3	10.3	9.9	10.2	10.6	10.8	11.4	11.8	11.5	11.3
G127.0	10.4	10.4	10.1	10.3	10.8	11.0	11.5	11.9	11.6	11.6
G128.0	10.7	10.6	10.3	10.5	10.9	11.2	11.8	12.0	11.8	11.7
G129.0	10.9	10.8	10.4	10.7	11.1	11.3	11.9	12.3	11.9	11.9
G130.0	11.1	11.0	10.6	10.8	11.2	11.5	12.1	12.5	12.1	12.0
G131.0	11.2	11.3	10.8	11.0	11.4	11.7	12.2	12.6	12.3	12.1
G132.0	11.4	11.5	11.0	11.2	11.6	11.9	12.4	12.9	12.4	12.3
G133.0	11.7	11.7	11.2	11.4	11.8	12.1	12.6	13.0	12.6	12.5
G134.0	11.9	11.8	11.3	11.6	11.9	12.3	12.8	13.2	12.7	12.8
G135.0	12.1	11.9	11.5	11.7	12.0	12.4	12.9	13.3	12.9	12.9
G136.0	12.2	12.1	11.6	12.0	12.3	12.7	13.1	13.4	13.1	13.1
G137.0	12.3	12.2	11.8	12.1	12.4	13.0	13.1	13.7	13.1	13.3
G138.0	12.4	12.4	12.0	12.3	12.5	13.1	13.3	13.9	13.3	13.3
G139.0	12.5	12.5	12.2	12.4	12.8	13.2	13.4	13.9	13.5	13.3
G140.0	12.6	12.6	12.3	12.6	13.0	13.3	13.5	14.0	13.7	13.6
G141.0	12.8	12.8	12.4	12.8	13.2	13.3	13.8	14.2	13.8	13.8
G142.0	13.0	13.0	12.7	12.9	13.3	13.3	13.8	14.3	14.0	13.9
G143.0	13.1	13.1	12.8	13.1	13.3	13.5	14.1	14.4	14.1	14.1
G144.0	13.2	13.3	13.0	13.3	13.4	13.7	14.1	14.5	14.3	14.2
G145.0	13.4	13.3	13.1	13.3	13.7	13.9	14.2	14.7	14.4	14.3
G146.0	13.5	13.5	13.1	13.3	13.8	14.1	14.4	14.9	14.5	14.5
G147.0	13.7	13.7	13.4	13.7	13.9	14.1	14.5	14.8	14.6	14.6

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 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	13.8	13.8	13.5	13.8	14.1	14.2	14.7	15.0	14.8	14.7
G149.0	14.0	13.9	13.7	14.0	14.2	14.4	14.8	15.1	14.8	14.9
G150.0	14.1	14.0	13.8	14.1	14.3	14.5	14.9	15.2	14.9	15.0
G151.0	14.2	14.1	13.9	14.2	14.4	14.6	15.1	15.3	15.1	15.1
G152.0	14.3	14.3	14.0	14.3	14.6	14.7	15.1	15.4	15.1	15.2
G153.0	14.5	14.4	14.1	14.4	14.6	14.8	15.3	15.5	15.2	15.3
G154.0	14.7	14.5	14.2	14.5	14.8	15.0	15.3	15.5	15.4	15.5
G155.0	14.7	14.6	14.4	14.6	14.9	15.1	15.4	15.6	15.4	15.5
G156.0	14.9	14.9	14.5	14.8	15.1	15.2	15.5	15.7	15.5	15.7
G157.0	15.0	14.9	14.6	15.0	15.1	15.3	15.6	15.8	15.6	15.8
G158.0	15.1	15.0	14.8	15.1	15.3	15.4	15.6	15.9	15.8	15.8
G159.0	15.2	15.1	14.9	15.1	15.4	15.5	15.7	16.1	15.9	15.9
G160.0	15.2	15.2	15.0	15.3	15.4	15.6	15.9	16.1	15.9	16.0
G161.0	15.3	15.3	15.1	15.3	15.6	15.7	15.9	16.2	16.0	16.1
G162.0	15.4	15.4	15.2	15.5	15.7	15.7	15.9	16.2	16.0	16.1
G163.0	15.5	15.5	15.3	15.6	15.8	15.9	16.0	16.3	16.1	16.2
G164.0	15.6	15.6	15.3	15.7	15.9	16.0	16.0	16.3	16.1	16.3
G165.0	15.6	15.7	15.4	15.8	16.0	16.1	16.1	16.4	16.2	16.4
G166.0	15.7	15.8	15.5	15.9	16.1	16.2	16.1	16.5	16.2	16.4
G167.0	15.9	15.9	15.6	16.0	16.1	16.2	16.1	16.6	16.3	16.4
G168.0	15.9	16.0	15.8	16.0	16.2	16.3	16.2	16.7	16.4	16.5
G169.0	16.0	16.1	15.9	16.1	16.2	16.4	16.3	16.7	16.4	16.5
G170.0	16.0	16.1	15.9	16.2	16.3	16.5	16.4	16.7	16.5	16.6
G171.0	16.2	16.3	16.0	16.3	16.4	16.5	16.4	16.7	16.5	16.6
G172.0	16.1	16.2	16.0	16.3	16.5	16.6	16.4	16.7	16.5	16.6
G173.0	16.2	16.3	16.2	16.5	16.5	16.6	16.4	16.8	16.5	16.7
G174.0	16.3	16.4	16.2	16.5	16.6	16.7	16.4	16.8	16.5	16.7
G175.0	16.4	16.5	16.3	16.5	16.6	16.7	16.5	16.8	16.6	16.7
G176.0	16.4	16.6	16.3	16.6	16.6	16.7	16.4	16.8	16.5	16.8
G177.0	16.5	16.6	16.4	16.6	16.7	16.8	16.5	16.8	16.5	16.7
G178.0	16.5	16.7	16.4	16.7	16.7	16.8	16.5	16.8	16.5	16.7
G179.0	16.6	16.8	16.5	16.7	16.7	16.8	16.5	16.8	16.5	16.8
G180.0	16.5	16.8	16.5	16.7	16.8	16.8	16.4	16.8	16.5	16.7

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1509.9	1509.9	1509.9							
G1.0	1509.4	1509.7	1510.5							
G2.0	1507.6	1508.9	1510.3							
G3.0	1505.4	1507.7	1509.4							
G4.0	1503.0	1505.5	1508.1							
G5.0	1500.1	1503.0	1506.7							
G6.0	1495.8	1500.1	1504.2							
G7.0	1491.8	1496.4	1501.1							
G8.0	1486.6	1492.2	1497.9							
G9.0	1481.0	1487.6	1494.0							
G10.0	1475.3	1482.4	1489.5							
G11.0	1468.2	1476.4	1484.1							
G12.0	1461.1	1470.3	1478.1							
G13.0	1453.9	1463.4	1472.6							
G14.0	1444.9	1455.7	1465.6							
G15.0	1436.4	1448.0	1458.7							
G16.0	1426.4	1439.1	1450.3							
G17.0	1416.8	1430.9	1442.6							
G18.0	1407.1	1421.5	1434.2							
G19.0	1395.4	1411.1	1424.4							
G20.0	1384.1	1401.2	1415.4							
G21.0	1372.9	1390.4	1405.3							
G22.0	1359.7	1378.9	1394.6							
G23.0	1347.4	1367.5	1384.3							
G24.0	1333.0	1354.3	1371.8							
G25.0	1319.9	1342.3	1360.4							
G26.0	1305.9	1329.7	1348.4							
G27.0	1290.9	1315.2	1335.4							
G28.0	1275.9	1302.1	1322.6							
G29.0	1261.4	1288.0	1309.5							
G30.0	1244.7	1272.7	1295.5							
G31.0	1228.6	1258.3	1281.2							
G32.0	1211.3	1241.5	1266.0							
G33.0	1194.5	1226.0	1251.9							
G34.0	1177.4	1210.7	1236.6							
G35.0	1159.1	1192.8	1220.0							
G36.0	1141.2	1176.8	1204.6							

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 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1122.0	1159.1	1189.3							
G38.0	1104.7	1141.7	1171.4							
G39.0	1085.9	1124.9	1154.6							
G40.0	1066.0	1105.1	1136.8							
G41.0	1047.6	1087.9	1119.3							
G42.0	1028.1	1069.7	1102.5							
G43.0	1007.3	1050.0	1083.7							
G44.0	987.4	1031.9	1065.9							
G45.0	965.9	1011.1	1047.4							
G46.0	946.5	992.6	1028.0							
G47.0	925.6	972.9	1009.2							
G48.0	903.1	952.4	989.4							
G49.0	882.5	932.5	971.1							
G50.0	861.2	913.2	951.8							
G51.0	838.8	891.1	930.5							
G52.0	818.0	871.4	911.6							
G53.0	794.1	849.0	891.9							
G54.0	773.1	829.1	871.0							
G55.0	750.8	809.1	850.7							
G56.0	727.5	786.3	829.6							
G57.0	705.1	765.9	809.1							
G58.0	683.4	744.9	788.4							
G59.0	658.5	722.5	765.8							
G60.0	636.8	700.8	746.1							
G61.0	612.6	678.5	723.6							
G62.0	589.6	656.9	703.8							
G63.0	566.3	636.1	682.9							
G64.0	542.1	613.5	661.0							
G65.0	519.9	591.9	640.3							
G66.0	496.7	571.1	619.3							
G67.0	472.2	547.5	598.0							
G68.0	450.2	527.0	578.6							
G69.0	424.9	504.9	556.3							
G70.0	402.7	483.9	536.1							
G71.0	379.7	464.0	517.0							
G72.0	355.7	441.7	495.1							
G73.0	333.3	422.3	476.0							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	312.0	402.2	456.2							
G75.0	287.9	381.4	435.7							
G76.0	267.2	361.6	416.0							
G77.0	244.3	341.2	395.8							
G78.0	224.8	321.7	376.1							
G79.0	205.3	302.5	354.9							
G80.0	185.4	282.2	328.7							
G81.0	167.2	259.9	299.7							
G82.0	148.8	232.8	267.0							
G83.0	132.2	202.3	222.9							
G84.0	116.3	167.9	176.6							
G85.0	97.4	123.0	114.5							
G86.0	77.6	72.7	60.5							
G87.0	52.8	31.5	26.6							
G88.0	21.0	9.9	8.8							
G89.0	8.0	6.5	5.5							
G90.0	5.3	5.6	4.8							
G91.0	5.5	5.5	4.6							
G92.0	5.6	5.6	4.6							
G93.0	5.8	5.8	4.7							
G94.0	6.0	5.9	4.9							
G95.0	6.2	6.1	5.0							
G96.0	6.4	6.3	5.2							
G97.0	6.6	6.4	5.4							
G98.0	6.7	6.7	5.6							
G99.0	6.9	6.8	5.7							
G100.0	7.1	7.0	5.9							
G101.0	7.3	7.1	6.0							
G102.0	7.5	7.3	6.2							
G103.0	7.6	7.4	6.4							
G104.0	7.8	7.6	6.5							
G105.0	7.9	7.8	6.7							
G106.0	8.1	8.0	6.9							
G107.0	8.2	8.1	7.1							
G108.0	8.4	8.3	7.2							
G109.0	8.6	8.4	7.5							
G110.0	8.8	8.7	7.6							

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 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	9.1	8.8	7.7							
G112.0	9.3	8.9	7.9							
G113.0	9.3	9.1	8.0							
G114.0	9.6	9.3	8.2							
G115.0	9.8	9.4	8.3							
G116.0	9.8	9.6	8.5							
G117.0	9.9	9.8	8.7							
G118.0	10.0	9.9	8.9							
G119.0	10.3	10.1	9.1							
G120.0	10.3	10.3	9.2							
G121.0	10.6	10.4	9.4							
G122.0	10.8	10.7	9.5							
G123.0	10.9	10.8	9.7							
G124.0	11.0	11.1	9.9							
G125.0	11.2	11.3	10.1							
G126.0	11.3	11.4	10.3							
G127.0	11.6	11.7	10.4							
G128.0	11.7	11.9	10.7							
G129.0	11.9	12.0	10.9							
G130.0	12.0	12.2	11.1							
G131.0	12.2	12.4	11.2							
G132.0	12.4	12.5	11.4							
G133.0	12.6	12.6	11.7							
G134.0	12.6	12.7	11.9							
G135.0	12.9	12.8	12.1							
G136.0	13.1	13.1	12.2							
G137.0	13.3	13.2	12.3							
G138.0	13.3	13.3	12.4							
G139.0	13.3	13.4	12.5							
G140.0	13.5	13.6	12.6							
G141.0	13.8	13.8	12.8							
G142.0	13.9	13.9	13.0							
G143.0	14.0	14.0	13.1							
G144.0	14.2	14.2	13.2							
G145.0	14.3	14.3	13.4							
G146.0	14.5	14.4	13.5							
G147.0	14.5	14.5	13.7							

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	14.7	14.7	13.8							
G149.0	14.7	14.8	14.0							
G150.0	14.9	14.9	14.1							
G151.0	15.1	15.1	14.2							
G152.0	15.2	15.1	14.3							
G153.0	15.2	15.2	14.5							
G154.0	15.4	15.3	14.7							
G155.0	15.5	15.4	14.7							
G156.0	15.5	15.6	14.9							
G157.0	15.6	15.6	15.0							
G158.0	15.7	15.7	15.1							
G159.0	15.9	15.8	15.2							
G160.0	15.9	15.8	15.2							
G161.0	16.0	16.0	15.3							
G162.0	16.1	16.0	15.4							
G163.0	16.1	16.1	15.5							
G164.0	16.1	16.1	15.6							
G165.0	16.3	16.3	15.6							
G166.0	16.4	16.3	15.7							
G167.0	16.3	16.3	15.9							
G168.0	16.4	16.4	15.9							
G169.0	16.5	16.5	16.0							
G170.0	16.6	16.6	16.0							
G171.0	16.5	16.6	16.2							
G172.0	16.6	16.6	16.1							
G173.0	16.6	16.6	16.2							
G174.0	16.7	16.7	16.3							
G175.0	16.8	16.7	16.4							
G176.0	16.7	16.7	16.4							
G177.0	16.8	16.8	16.5							
G178.0	16.8	16.8	16.5							
G179.0	16.7	16.8	16.6							
G180.0	16.8	16.8	16.5							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.011 m

Humidity:

Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	2028.81
L 0-180(75) av	2223.86
L 0-180(85) av	1065.08
L 90-270(65) av	1649.53
L 90-270(75) av	1370.26
L 90-270(85) av	803.15
L 45(65) av	1829.48
L 45(75) av	1787.64
L 45(85) av	1346.12

Standard: GB/T 29293-2012