

Report No.:

Test Time: 2023-07-27 16:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm): 1200

Luminous Height (mm): 40

Current: 0.465 A

Power Factor: 0.994

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 100

Voltage: 119.7 V

Power: 55.32 W

Photometric Results

CIE Class: Direct

Measurement Flux: 7736.3 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 211.0, 160.4, 188.9, 187.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 125.0, 105.3, 114.6, 113.6

Luminous Efficacy (lm/w): 139.85

Max. Intensity: 2324.35 cd

S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 7736.3 lm

Efficiency: 100%

Upward Ratio: 7%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 211.0, 160.4, 188.9, 187.8

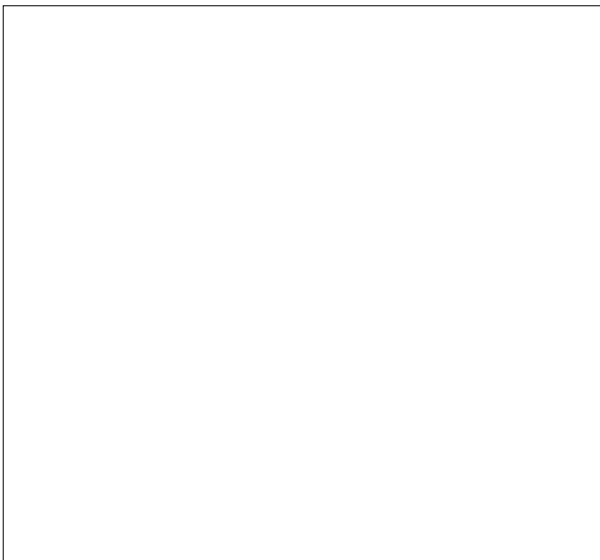
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 125.0, 105.3, 114.6, 113.6

C0r0 Intensity: 2321.83 cd

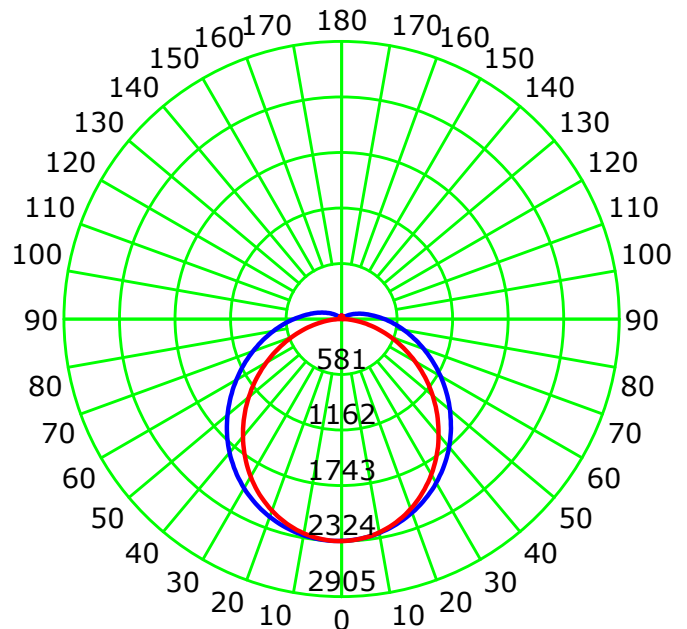
Pos of Max. Intensity: H150 V1

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

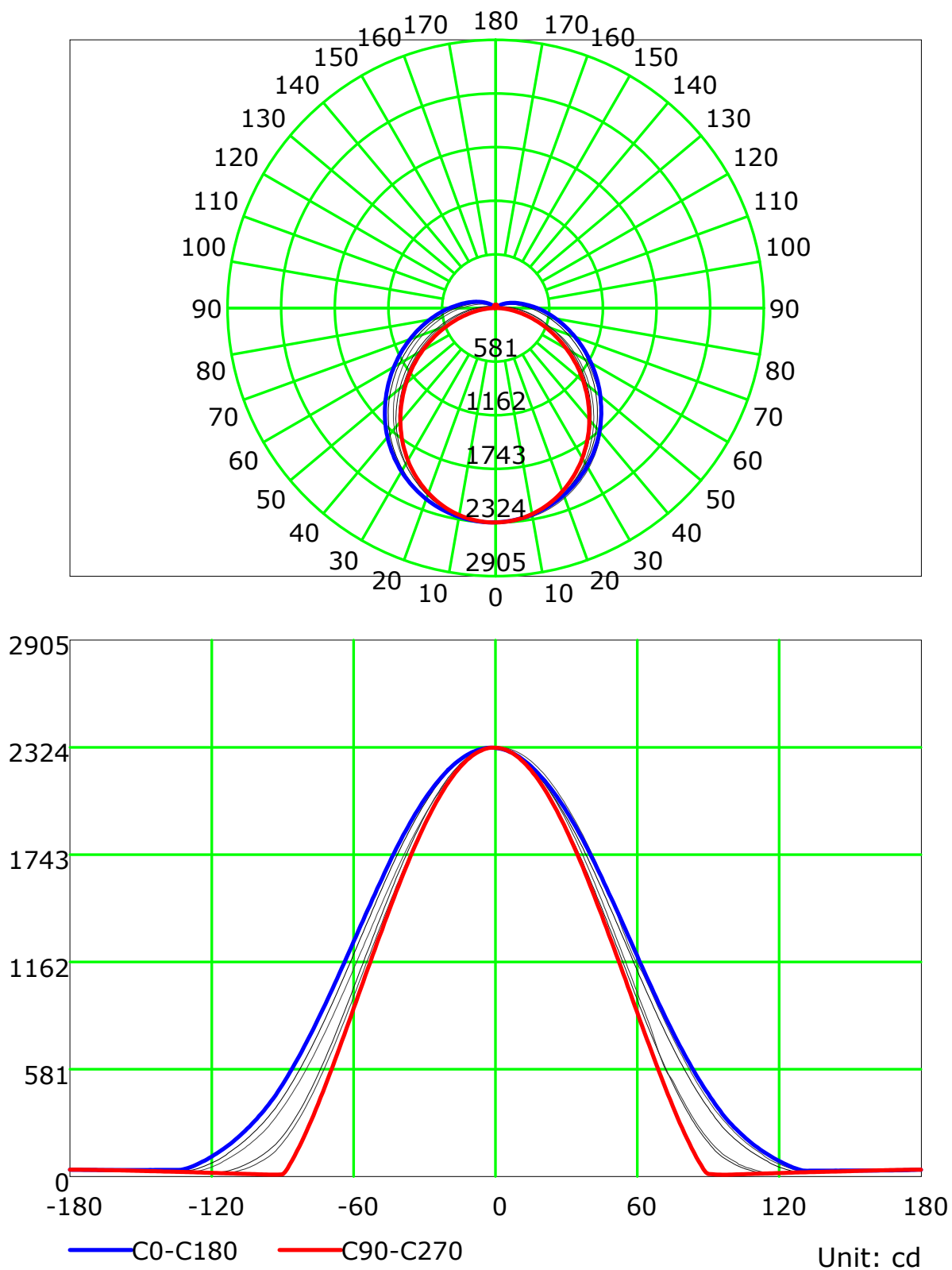
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

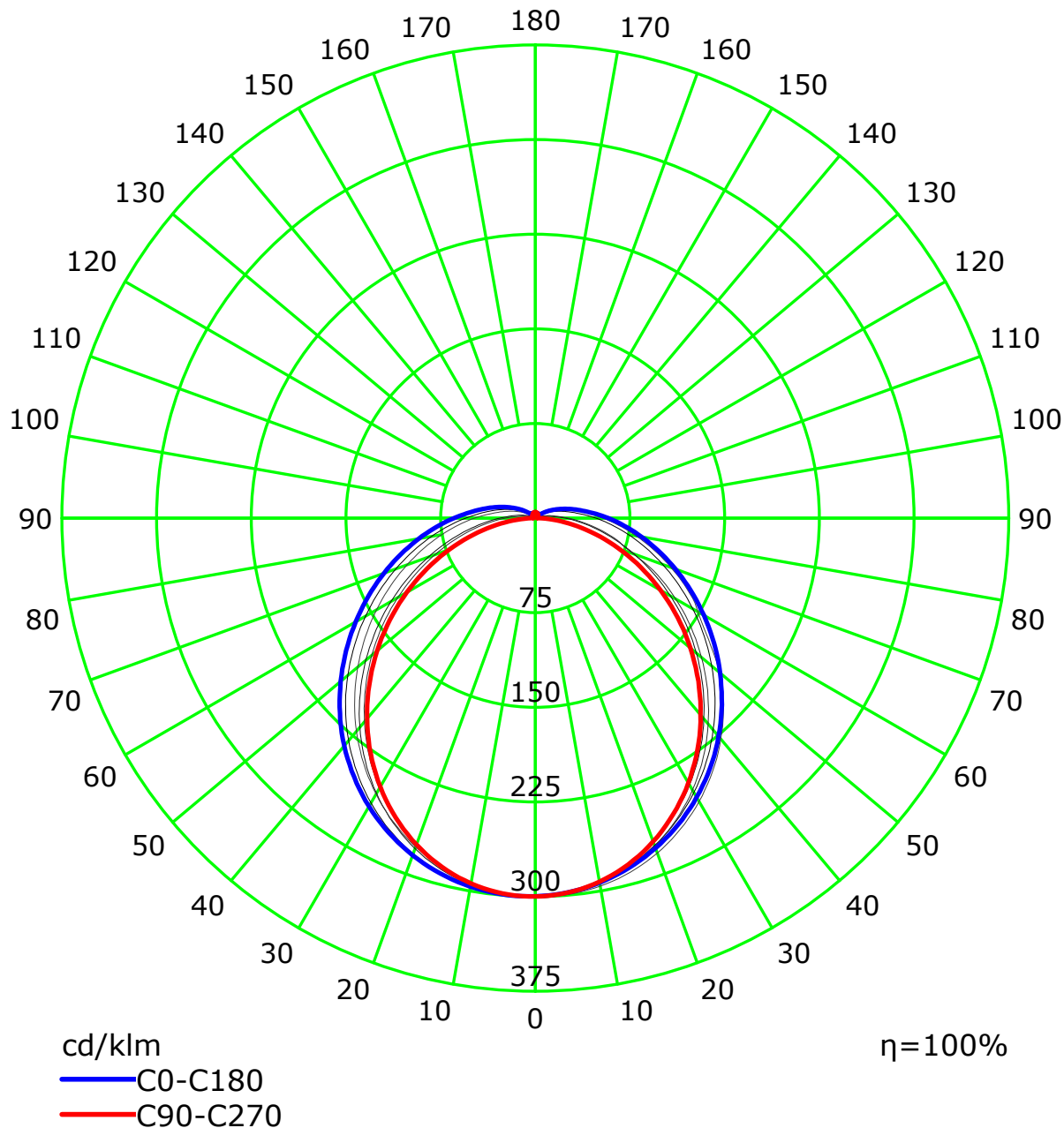
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



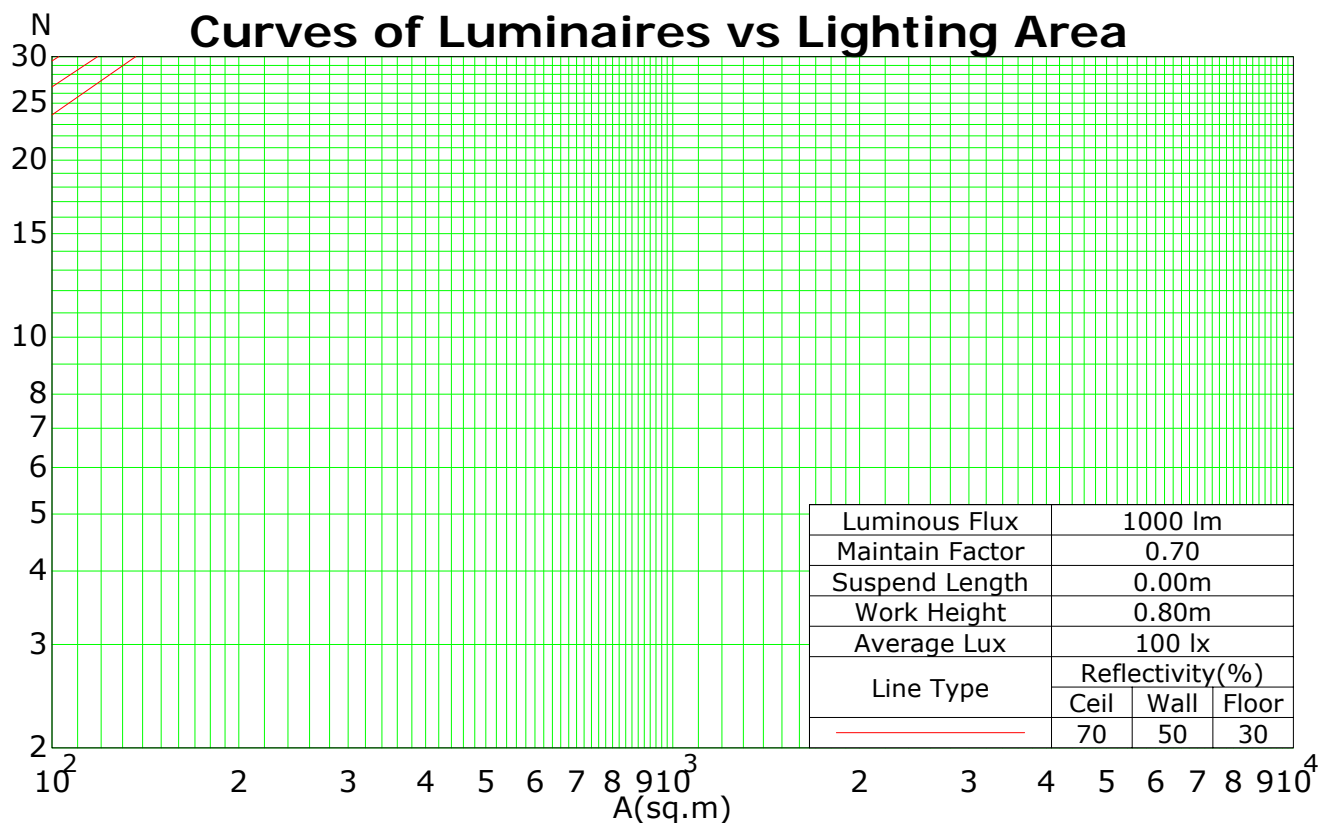
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.17	1.17	1.17	1.17	1.14	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.93
1	1.05	1.00	0.95	0.91	1.02	0.97	0.92	0.88	0.91	0.88	0.84	0.86	0.83	0.81	0.82	0.79	0.77	0.74
2	0.95	0.86	0.79	0.73	0.92	0.84	0.77	0.71	0.79	0.73	0.68	0.75	0.70	0.66	0.71	0.67	0.63	0.61
3	0.87	0.75	0.67	0.60	0.83	0.73	0.65	0.59	0.69	0.62	0.57	0.66	0.60	0.55	0.62	0.57	0.53	0.51
4	0.79	0.67	0.57	0.50	0.76	0.65	0.56	0.50	0.61	0.54	0.48	0.58	0.52	0.47	0.55	0.50	0.45	0.43
5	0.73	0.59	0.50	0.43	0.70	0.58	0.49	0.43	0.55	0.47	0.41	0.52	0.46	0.40	0.50	0.44	0.39	0.37
6	0.67	0.53	0.44	0.38	0.65	0.52	0.43	0.37	0.49	0.42	0.36	0.47	0.40	0.35	0.45	0.39	0.34	0.32
7	0.62	0.48	0.39	0.33	0.60	0.47	0.39	0.33	0.45	0.37	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.28
8	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.41	0.34	0.28	0.39	0.33	0.28	0.38	0.32	0.27	0.25
9	0.54	0.40	0.32	0.26	0.52	0.39	0.32	0.26	0.38	0.31	0.26	0.36	0.30	0.25	0.35	0.29	0.25	0.23
10	0.51	0.37	0.29	0.24	0.49	0.36	0.29	0.24	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21

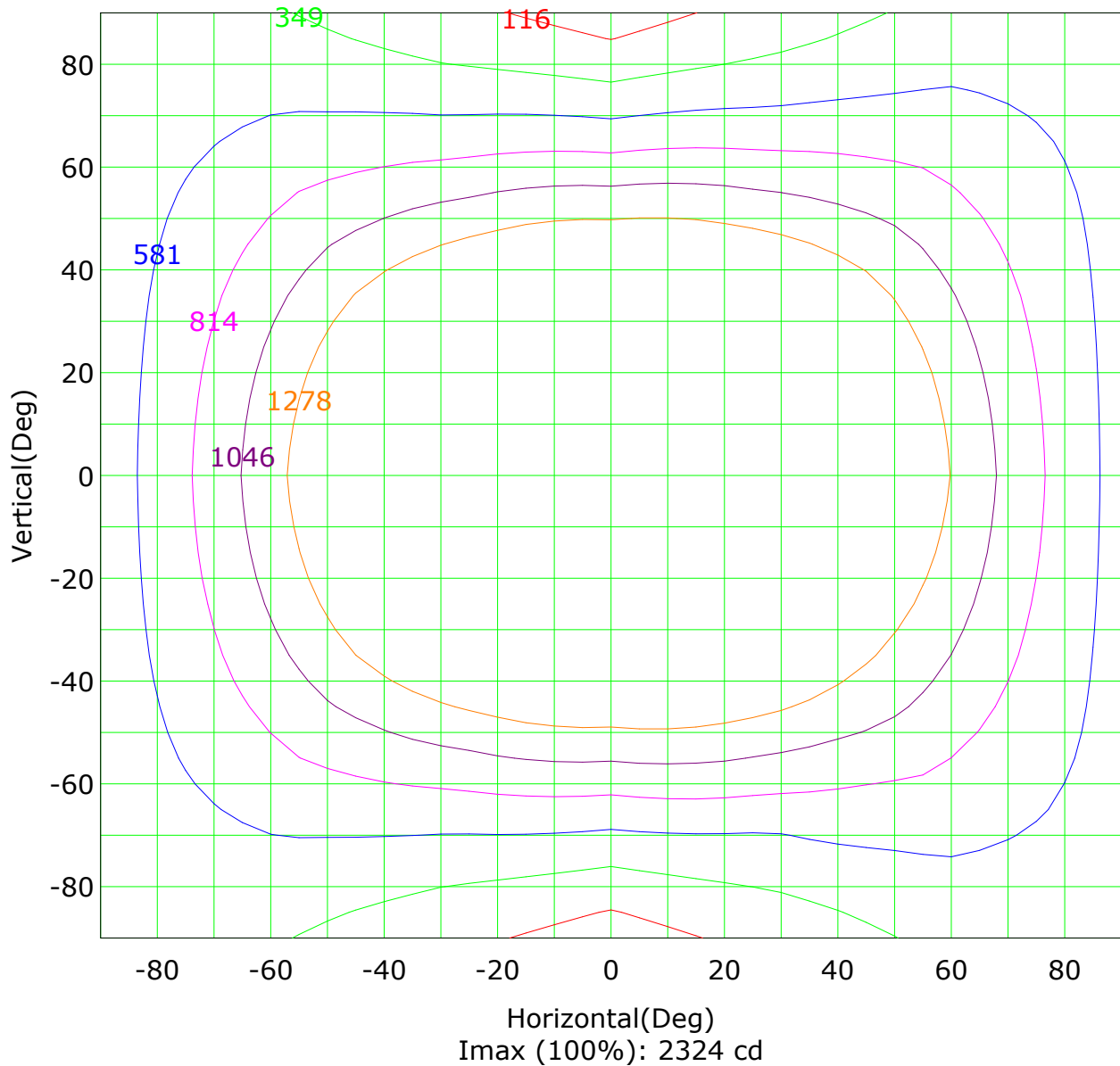
Spacing Criteria (0-180): 1.29
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.37



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

Isocandela (rectangle)

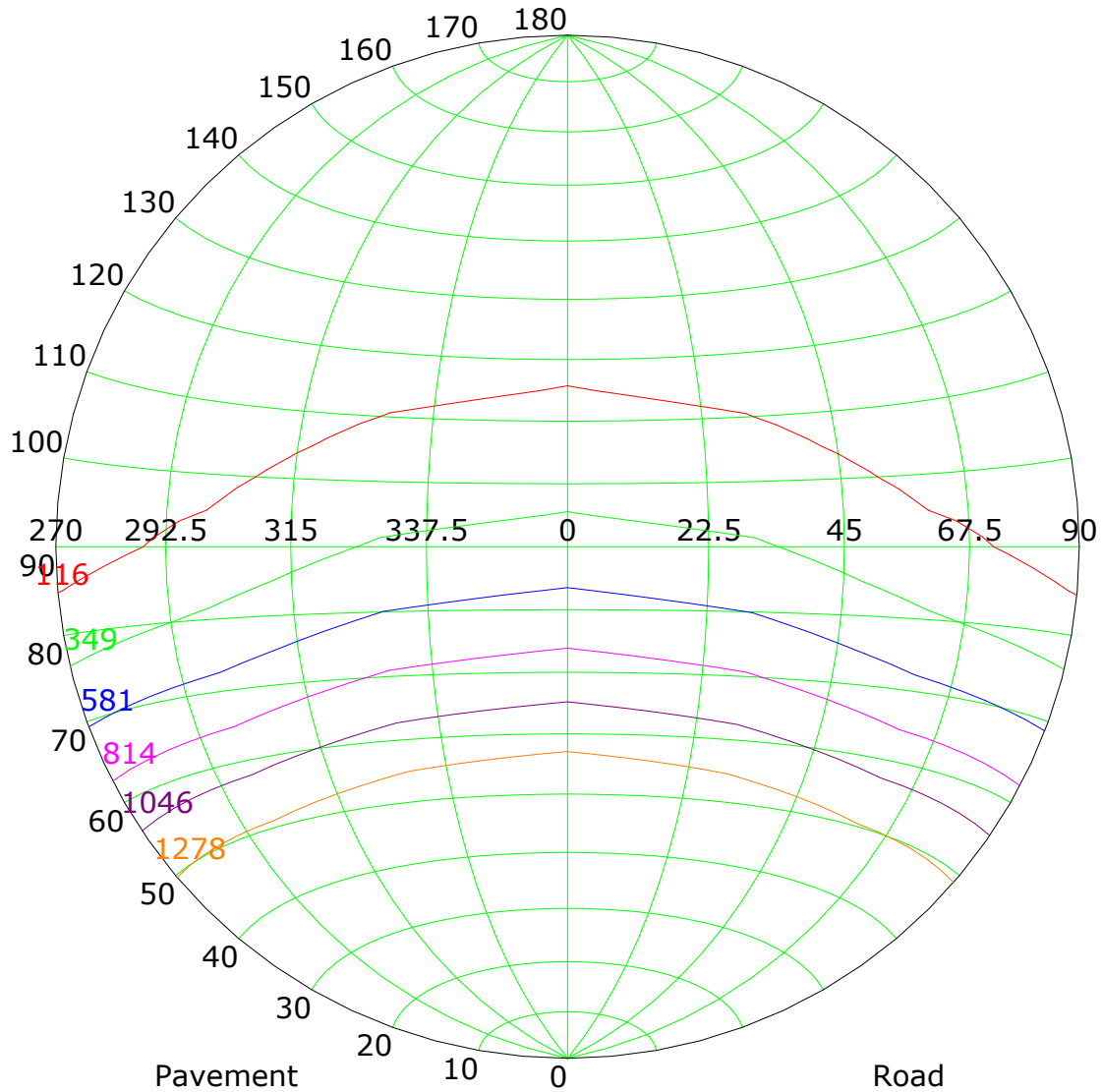


(5%): 116 cd	(15%): 349 cd
(25%): 581 cd	(35%): 814 cd
(45%): 1046 cd	(55%): 1278 cd

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 2324 cd

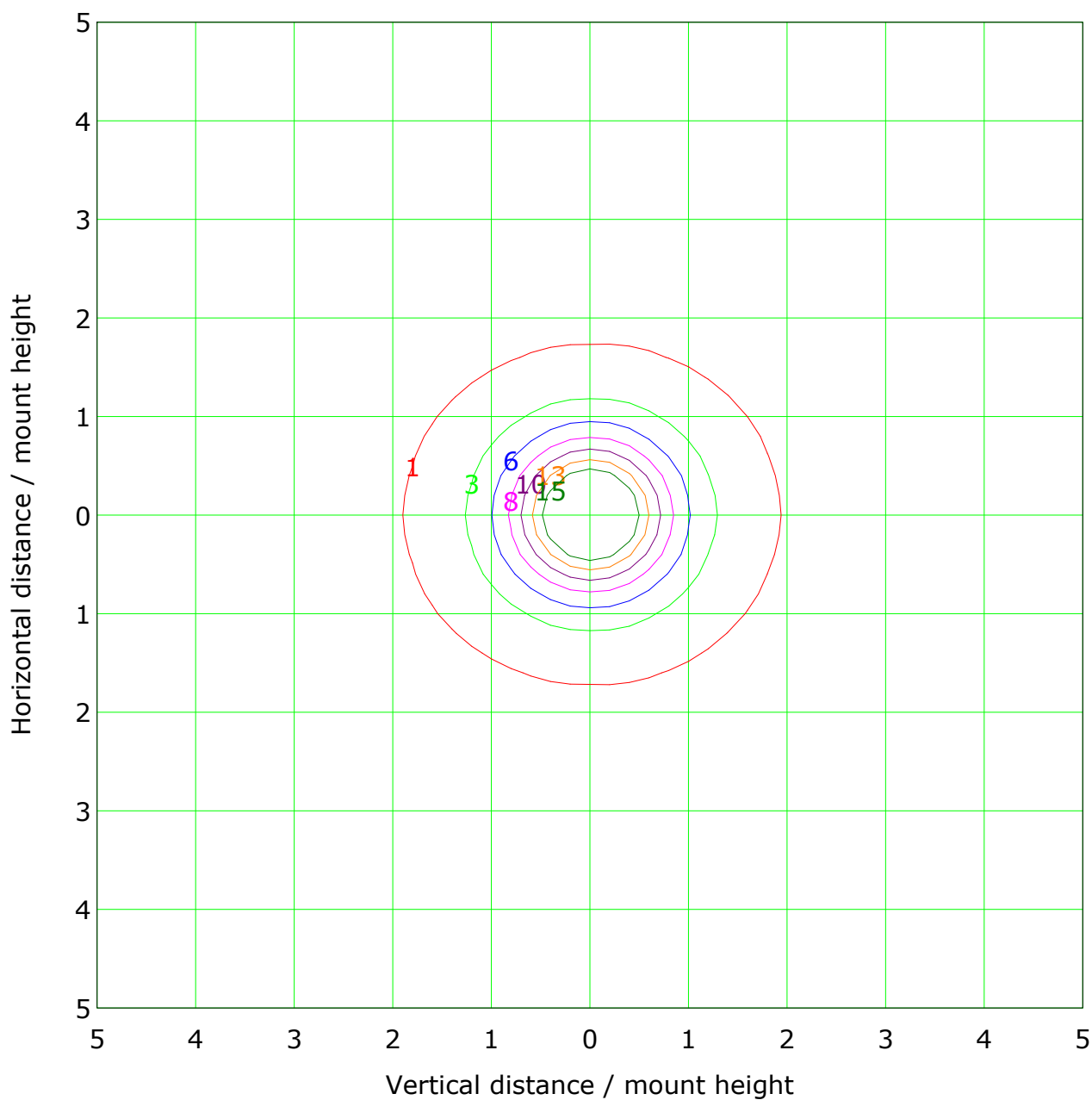
(5%): 116 cd
(25%): 581 cd
(45%): 1046 cd

(15%): 349 cd
(35%): 814 cd
(55%): 1278 cd

CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 64.577 cd/klm

IES: Non-cut-off
Max.At80: 93.822 cd/klm
Max.80-90: 93.822 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 23.2 lx

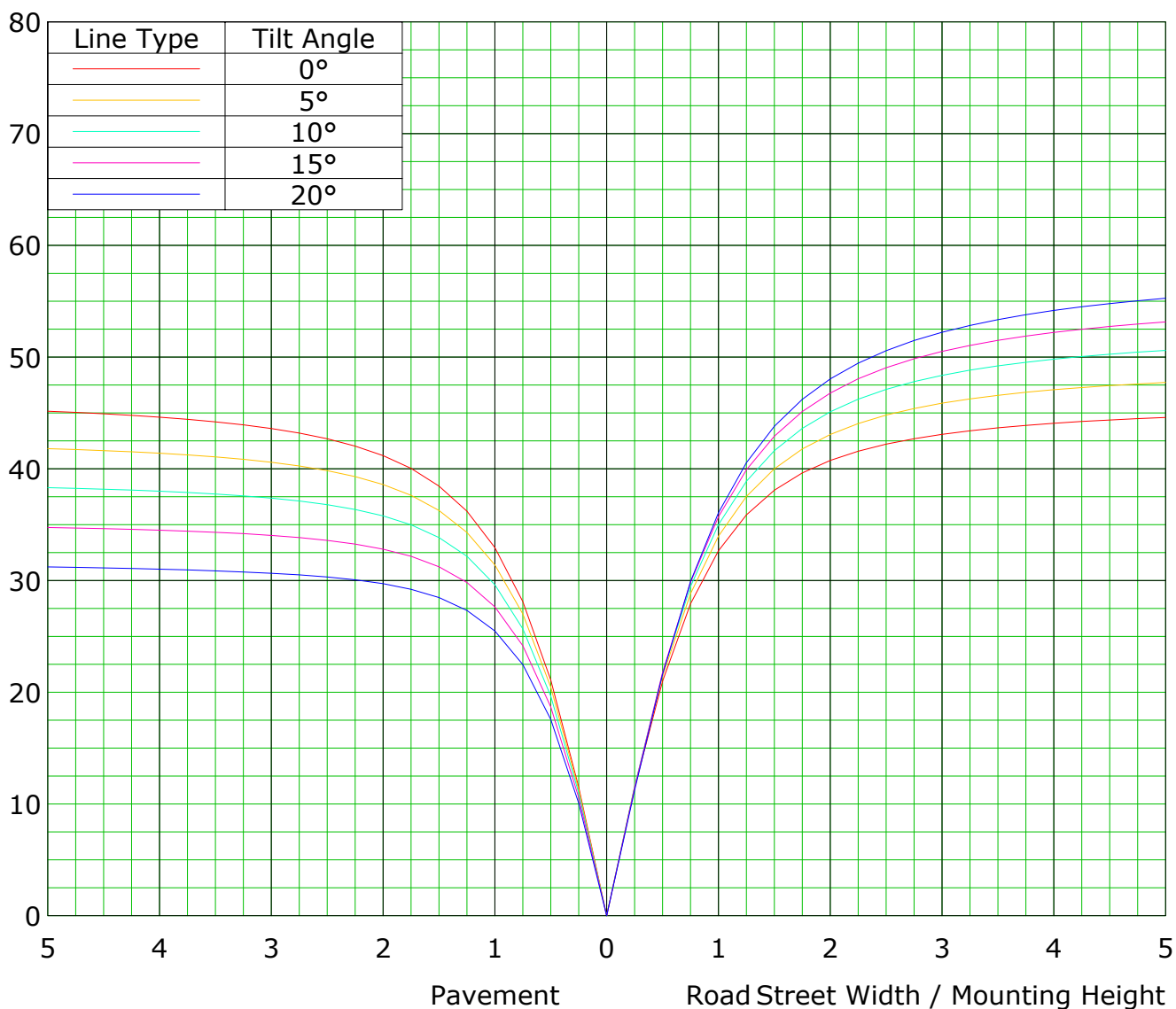
(5%): 1.2 lx	(15%): 3.5 lx
(25%): 5.8 lx	(35%): 8.1 lx
(45%): 10.5 lx	(55%): 12.8 lx
(65%): 15.1 lx	

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: 9.010 m
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)

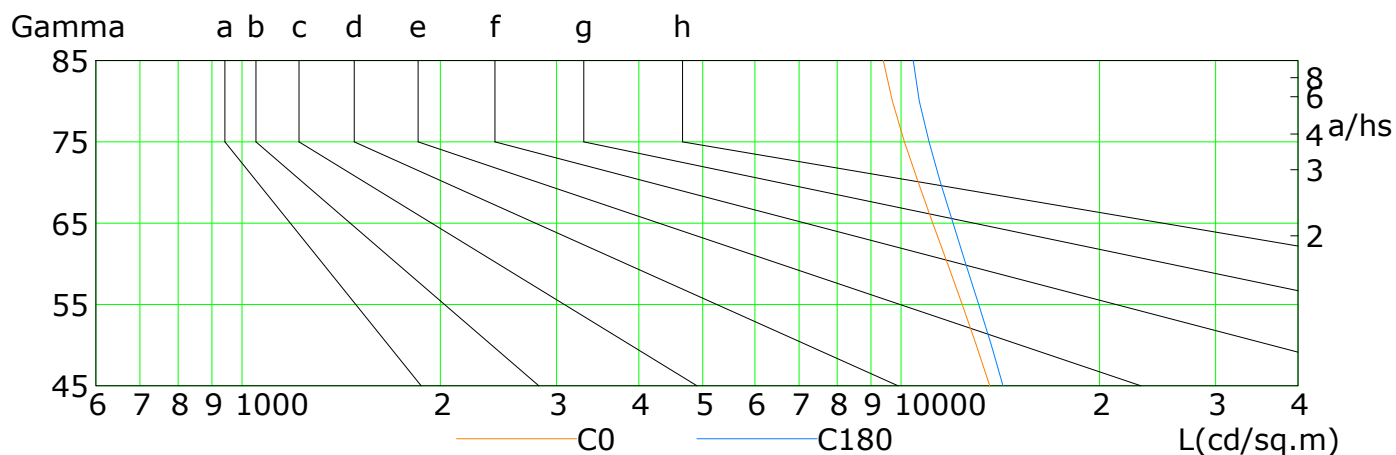
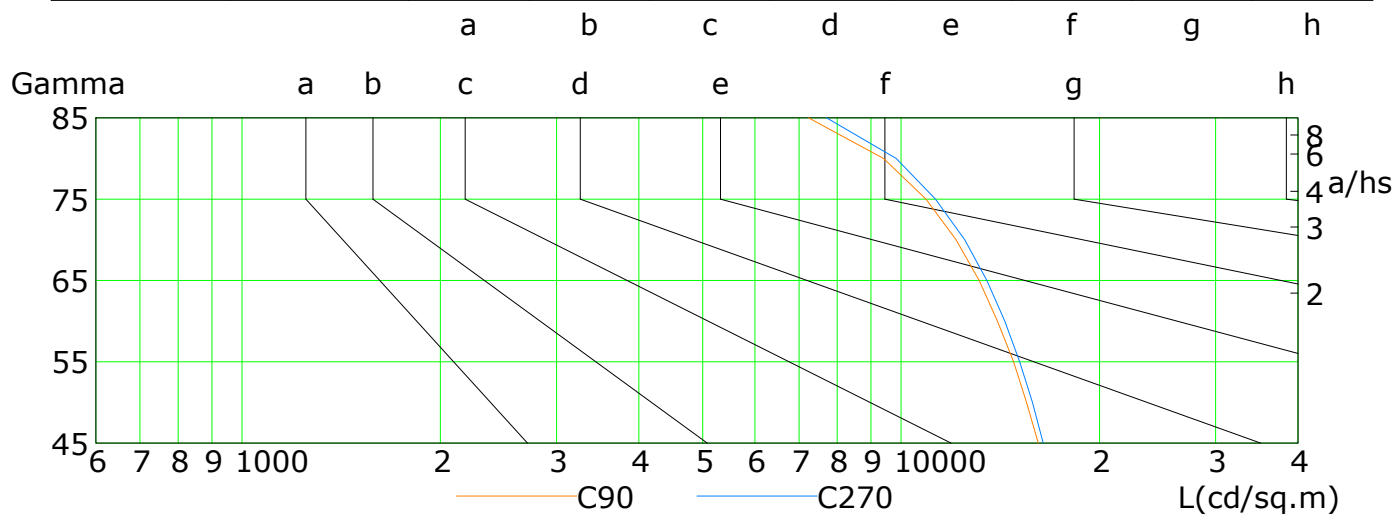


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	13631	12999	12376	11766	11168	10620	10118	9698	9397
C90	16143	15494	14810	14000	13136	12116	10906	9406	7236
C180	14278	13702	13112	12535	11987	11474	11027	10657	10433
C270	16430	15822	15131	14362	13491	12492	11276	9831	7707

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

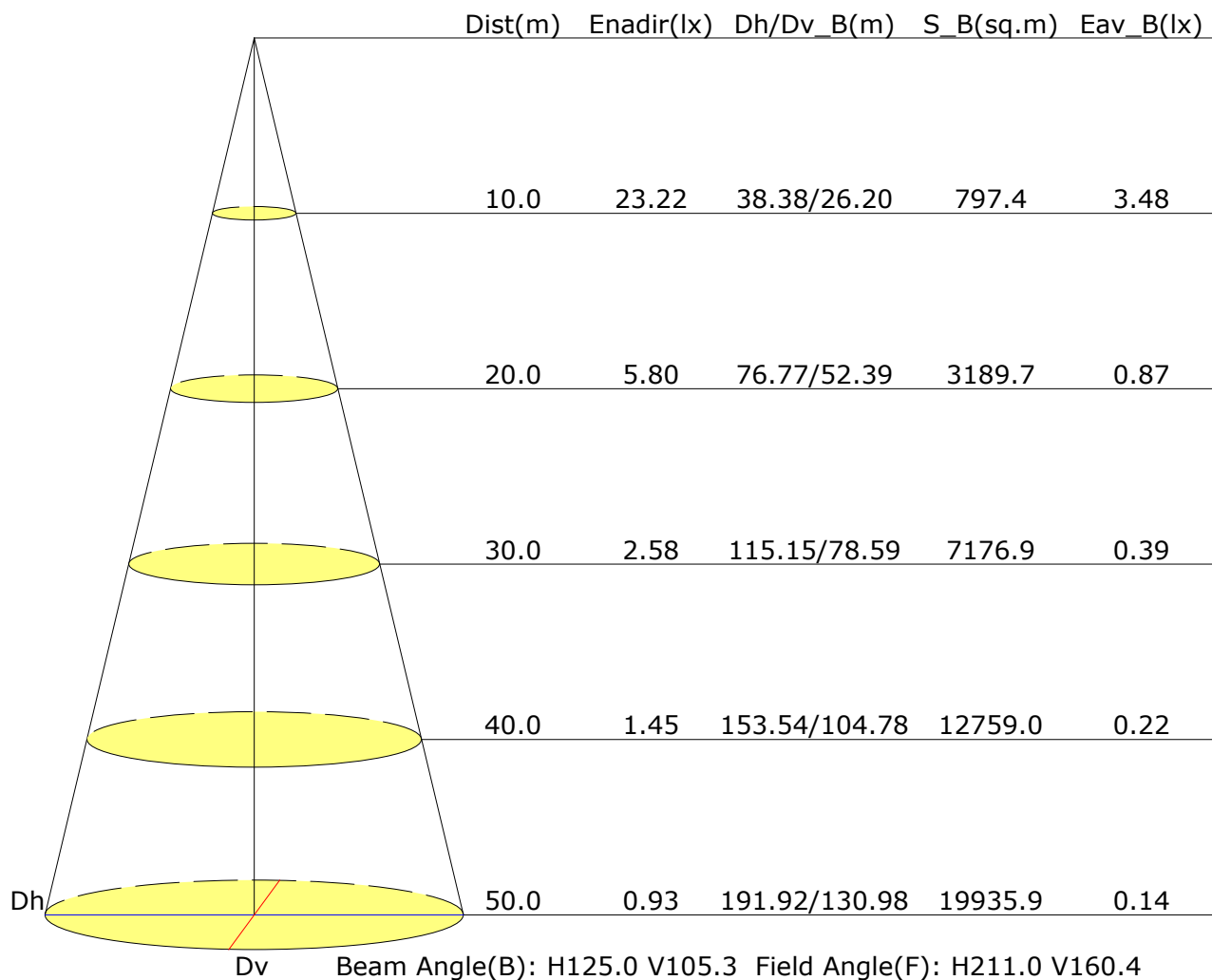
Test Device: GPM-1600L

Distance: 9.010 m

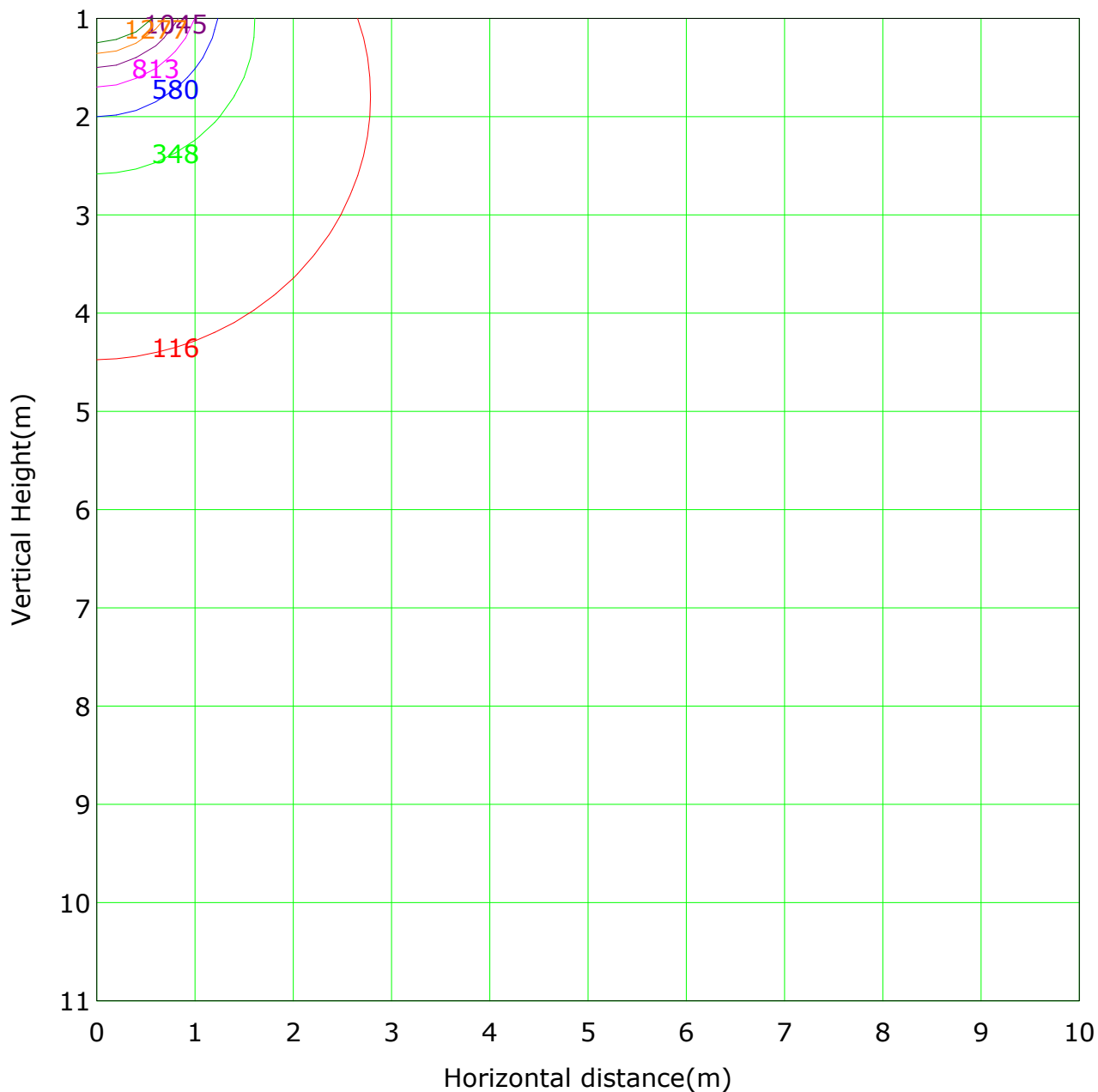
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

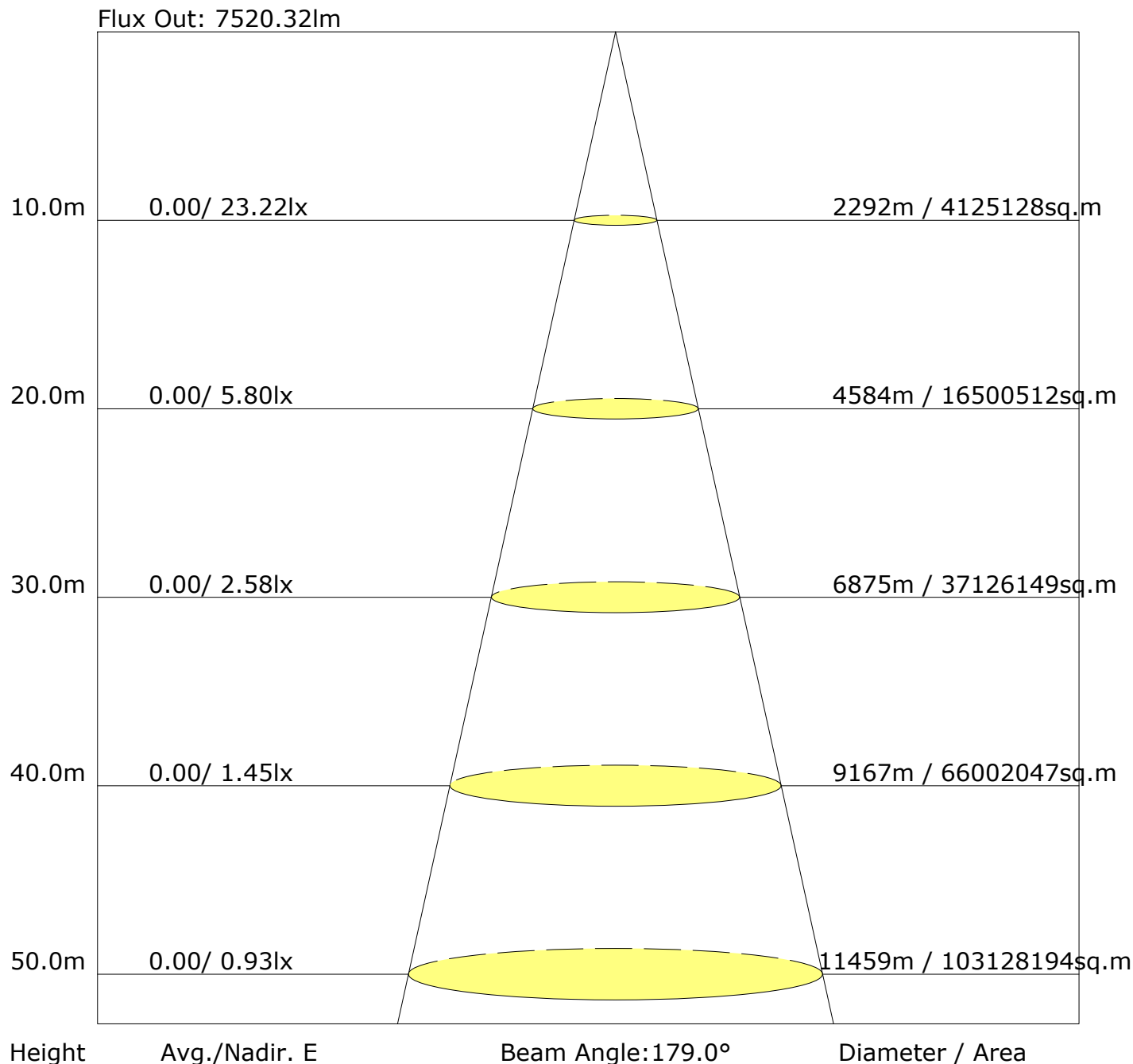


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2321.8 lx

(5%): 116.1 lx	(15%): 348.3 lx
(25%): 580.5 lx	(35%): 812.6 lx
(45%): 1044.8 lx	(55%): 1277.0 lx
(65%): 1509.2 lx	

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

UGR Table

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	20.9	22.3	21.3	22.6	23.0	20.7	22.0	21.1	22.4	22.8
3H	22.7	23.9	23.1	24.3	24.7	22.1	23.4	22.6	23.8	24.2
4H	23.5	24.7	24.0	25.1	25.6	22.7	23.9	23.2	24.3	24.7
6H	24.3	25.4	24.8	25.9	26.3	23.2	24.2	23.6	24.7	25.1
8H	24.7	25.8	25.2	26.2	26.7	23.3	24.4	23.8	24.8	25.3
12H	25.1	26.1	25.5	26.5	27.0	23.4	24.4	23.9	24.9	25.4
X=4H Y=2H	21.5	22.7	22.0	23.1	23.5	21.3	22.5	21.7	22.9	23.3
3H	23.5	24.5	24.0	25.0	25.4	22.9	23.9	23.4	24.4	24.9
4H	24.5	25.4	25.0	25.9	26.4	23.7	24.6	24.2	25.0	25.6
6H	25.5	26.3	26.0	26.8	27.3	24.2	25.0	24.8	25.6	26.1
8H	25.9	26.7	26.5	27.2	27.8	24.4	25.2	25.0	25.7	26.3
12H	26.4	27.1	26.9	27.6	28.2	24.6	25.3	25.2	25.8	26.4
X=8H Y=4H	24.8	25.5	25.3	26.1	26.6	24.0	24.8	24.6	25.3	25.9
6H	26.0	26.6	26.5	27.1	27.7	24.8	25.4	25.4	26.0	26.6
8H	26.6	27.1	27.2	27.7	28.3	25.1	25.7	25.7	26.2	26.9
12H	27.2	27.7	27.8	28.2	28.9	25.4	25.9	26.0	26.4	27.1
X=12H Y=4H	24.8	25.5	25.4	26.0	26.6	24.1	24.8	24.7	25.3	25.9
6H	26.0	26.6	26.6	27.2	27.8	25.0	25.5	25.5	26.1	26.7
8H	26.7	27.2	27.3	27.8	28.4	25.3	25.8	25.9	26.4	27.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.4/-0.4					+0.3/-0.4				
S=2.0H	+0.5/-0.8					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 7736lm ($8\log(F/F_0) = 7.1$).

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: 9.010 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

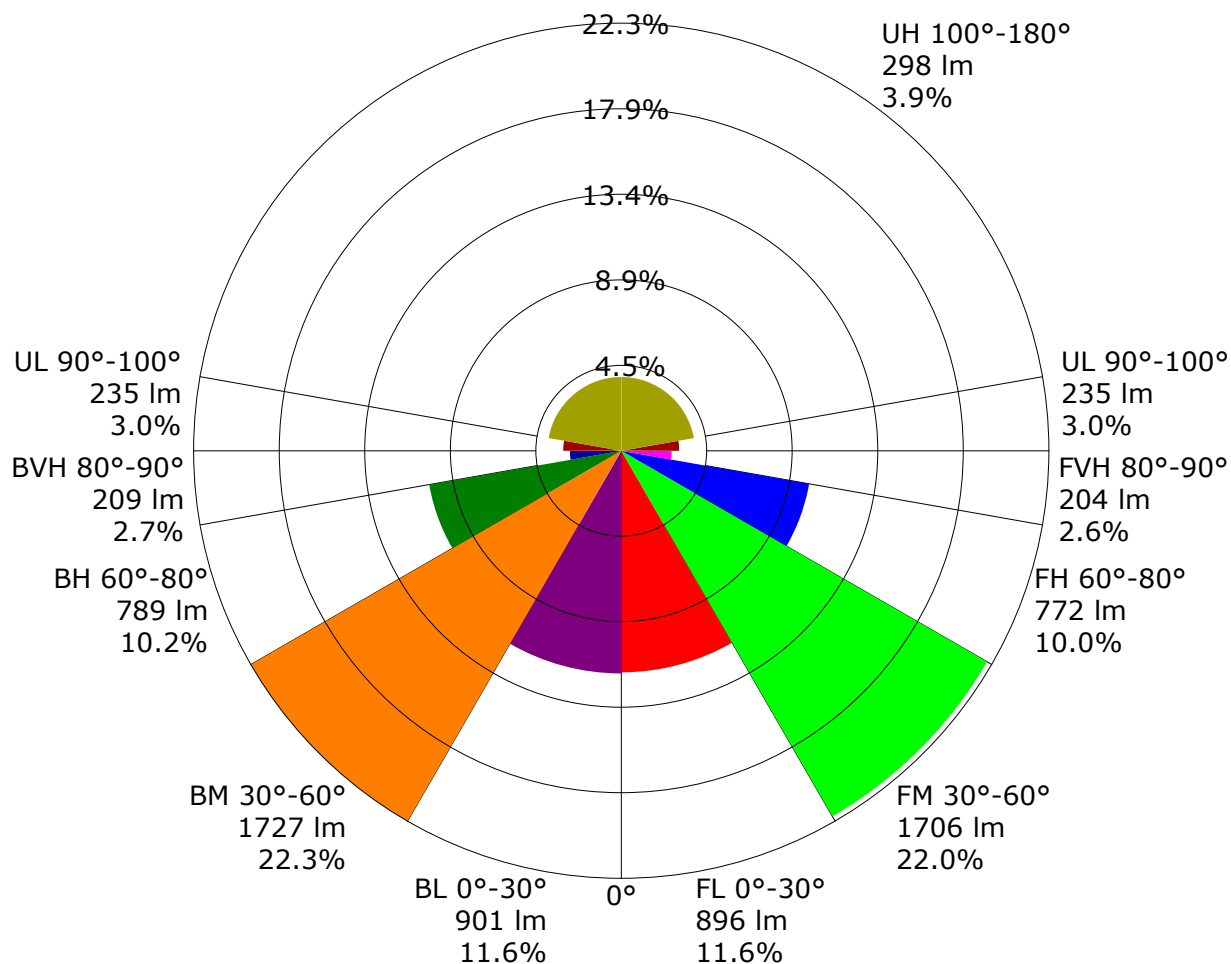
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	3578	46.3
	FL (0°-30°)	896	11.6
	FM (30°-60°)	1706	22.0
	FH (60°-80°)	772	10.0
	FVH (80°-90°)	204	2.6
	BACK LIGHT	3625	46.9
	BL (0°-30°)	901	11.6
	BM (30°-60°)	1727	22.3
	BH (60°-80°)	789	10.2
	BVH (80°-90°)	209	2.7
	UP LIGHT	533	6.9
	UL (90°-100°)	235	3.0
	UH (100°-180°)	298	3.9
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U5 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 G1

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.52	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.67	0.75	0.80	0.85	0.90	0.94	
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.90	
0.50	0.50	0.20	0.50	0.59	0.66	0.71	0.77	0.82	0.85	0.90	0.93	
	0.30		0.43	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.89	
	0.20		0.38	0.47	0.54	0.59	0.67	0.72	0.77	0.82	0.86	
0.30	0.50	0.20	0.48	0.57	0.63	0.67	0.73	0.78	0.81	0.85	0.88	
	0.30		0.42	0.51	0.57	0.62	0.69	0.74	0.77	0.82	0.85	
	0.20		0.37	0.46	0.52	0.57	0.65	0.70	0.74	0.79	0.82	
0.00	0.00	0.00	0.34	0.42	0.49	0.53	0.60	0.65	0.68	0.73	0.76	
Rating:55W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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	1.03	0.86	0.74	0.66	0.53	0.45	0.39	0.31	0.26	
	0.30		0.86	0.74	0.65	0.58	0.48	0.41	0.36	0.29	0.24	
	0.20		0.73	0.64	0.57	0.52	0.44	0.38	0.34	0.27	0.23	
0.50	0.50	0.20	0.98	0.82	0.70	0.62	0.50	0.45	0.37	0.29	0.24	
	0.30		0.83	0.71	0.62	0.56	0.46	0.39	0.35	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.43	0.37	0.32	0.26	0.22	
0.30	0.50	0.20	0.94	0.78	0.67	0.59	0.48	0.40	0.35	0.28	0.23	
	0.30		0.80	0.68	0.60	0.53	0.44	0.38	0.33	0.26	0.22	
	0.20		0.70	0.61	0.54	0.49	0.41	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.59	0.51	0.45	0.40	0.33	0.29	0.25	0.20	0.17	
Rating:55W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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	0.23	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.29	
	0.30		0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26	
	0.20		0.11	0.13	0.14	0.15	0.17	0.19	0.20	0.22	0.23	
0.50	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.27	
	0.30		0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	
	0.20		0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.21	0.22	
0.30	0.50	0.20	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26	0.26	
	0.30		0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	
	0.20		0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	
0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
Rating:55W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2322.3	2.2	2.2	0.03	0.03
1.0-2.0	2321.5	6.7	8.9	0.09	0.11
2.0-3.0	2319.8	11.1	20.0	0.14	0.26
3.0-4.0	2317.2	15.5	35.5	0.20	0.46
4.0-5.0	2313.8	19.9	55.4	0.26	0.72
5.0-6.0	2309.3	24.3	79.7	0.31	1.03
6.0-7.0	2304.2	28.6	108.3	0.37	1.40
7.0-8.0	2298.2	32.9	141.2	0.43	1.82
8.0-9.0	2291.2	37.1	178.3	0.48	2.30
9.0-10.0	2283.5	41.3	219.6	0.53	2.84
10.0-11.0	2274.8	45.5	265.1	0.59	3.43
11.0-12.0	2265.3	49.5	314.6	0.64	4.07
12.0-13.0	2255.3	53.5	368.2	0.69	4.76
13.0-14.0	2244.1	57.4	425.6	0.74	5.50
14.0-15.0	2232.0	61.3	486.9	0.79	6.29
15.0-16.0	2219.1	65.0	551.9	0.84	7.13
16.0-17.0	2205.5	68.7	620.6	0.89	8.02
17.0-18.0	2191.7	72.3	692.9	0.93	8.96
18.0-19.0	2176.5	75.7	768.6	0.98	9.94
19.0-20.0	2160.5	79.1	847.7	1.02	10.96
20.0-21.0	2144.4	82.4	930.1	1.06	12.02
21.0-22.0	2126.9	85.5	1015.5	1.10	13.13
22.0-23.0	2108.7	88.5	1104.0	1.14	14.27
23.0-24.0	2089.8	91.4	1195.4	1.18	15.45
24.0-25.0	2070.2	94.1	1289.6	1.22	16.67
25.0-26.0	2050.8	96.8	1386.4	1.25	17.92
26.0-27.0	2029.7	99.3	1485.7	1.28	19.20
27.0-28.0	2008.0	101.7	1587.4	1.31	20.52
28.0-29.0	1986.7	104.0	1691.3	1.34	21.86
29.0-30.0	1963.7	106.0	1797.4	1.37	23.23
30.0-31.0	1940.3	108.0	1905.3	1.40	24.63
31.0-32.0	1916.1	109.8	2015.1	1.42	26.05
32.0-33.0	1891.3	111.4	2126.6	1.44	27.49
33.0-34.0	1867.0	113.0	2239.6	1.46	28.95
34.0-35.0	1840.9	114.3	2353.9	1.48	30.43
35.0-36.0	1814.6	115.6	2469.5	1.49	31.92

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.010 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1788.4	116.7	2586.1	1.51	33.43
37.0-38.0	1760.9	117.6	2703.7	1.52	34.95
38.0-39.0	1733.5	118.3	2822.0	1.53	36.48
39.0-40.0	1704.9	118.9	2940.9	1.54	38.01
40.0-41.0	1676.0	119.4	3060.3	1.54	39.56
41.0-42.0	1648.1	119.8	3180.0	1.55	41.11
42.0-43.0	1618.5	119.9	3300.0	1.55	42.66
43.0-44.0	1588.4	119.9	3419.9	1.55	44.21
44.0-45.0	1558.7	119.8	3539.7	1.55	45.75
45.0-46.0	1528.1	119.5	3659.2	1.54	47.30
46.0-47.0	1497.9	119.2	3778.3	1.54	48.84
47.0-48.0	1466.5	118.6	3896.9	1.53	50.37
48.0-49.0	1434.9	117.9	4014.8	1.52	51.89
49.0-50.0	1404.3	117.1	4131.9	1.51	53.41
50.0-51.0	1372.1	116.1	4248.0	1.50	54.91
51.0-52.0	1339.8	115.0	4362.9	1.49	56.40
52.0-53.0	1307.8	113.8	4476.7	1.47	57.87
53.0-54.0	1275.3	112.4	4589.1	1.45	59.32
54.0-55.0	1243.6	111.0	4700.2	1.44	60.75
55.0-56.0	1211.2	109.5	4809.6	1.41	62.17
56.0-57.0	1178.9	107.8	4917.4	1.39	63.56
57.0-58.0	1147.8	106.2	5023.6	1.37	64.94
58.0-59.0	1115.5	104.3	5127.9	1.35	66.28
59.0-60.0	1083.7	102.4	5230.3	1.32	67.61
60.0-61.0	1052.2	100.4	5330.7	1.30	68.91
61.0-62.0	1020.9	98.4	5429.1	1.27	70.18
62.0-63.0	990.8	96.4	5525.5	1.25	71.42
63.0-64.0	959.3	94.1	5619.6	1.22	72.64
64.0-65.0	927.9	91.8	5711.5	1.19	73.83
65.0-66.0	897.8	89.6	5801.1	1.16	74.98
66.0-67.0	866.5	87.1	5888.2	1.13	76.11
67.0-68.0	835.4	84.6	5972.8	1.09	77.21
68.0-69.0	804.5	82.1	6054.9	1.06	78.27
69.0-70.0	773.9	79.5	6134.4	1.03	79.29
70.0-71.0	745.2	77.0	6211.4	1.00	80.29
71.0-72.0	715.6	74.4	6285.9	0.96	81.25

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.010 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	687.1	71.9	6357.7	0.93	82.18
73.0-74.0	660.6	69.5	6427.2	0.90	83.08
74.0-75.0	633.5	66.9	6494.1	0.87	83.94
75.0-76.0	606.4	64.4	6558.5	0.83	84.78
76.0-77.0	579.5	61.8	6620.3	0.80	85.57
77.0-78.0	553.0	59.2	6679.5	0.77	86.34
78.0-79.0	528.3	56.8	6736.3	0.73	87.07
79.0-80.0	503.0	54.2	6790.5	0.70	87.77
80.0-81.0	478.2	51.7	6842.2	0.67	88.44
81.0-82.0	454.5	49.3	6891.5	0.64	89.08
82.0-83.0	431.1	46.9	6938.4	0.61	89.69
83.0-84.0	408.7	44.5	6982.9	0.58	90.26
84.0-85.0	386.4	42.2	7025.1	0.55	90.81
85.0-86.0	364.8	39.9	7065.0	0.52	91.32
86.0-87.0	344.8	37.7	7102.7	0.49	91.81
87.0-88.0	324.8	35.6	7138.3	0.46	92.27
88.0-89.0	305.5	33.5	7171.8	0.43	92.70
89.0-90.0	287.9	31.6	7203.4	0.41	93.11
90.0-91.0	272.1	29.8	7233.2	0.39	93.50
91.0-92.0	257.7	28.3	7261.5	0.37	93.86
92.0-93.0	243.6	26.7	7288.1	0.35	94.21
93.0-94.0	230.3	25.2	7313.3	0.33	94.53
94.0-95.0	218.3	23.9	7337.2	0.31	94.84
95.0-96.0	206.4	22.5	7359.7	0.29	95.13
96.0-97.0	195.3	21.3	7381.0	0.28	95.41
97.0-98.0	185.2	20.1	7401.2	0.26	95.67
98.0-99.0	175.5	19.0	7420.2	0.25	95.91
99.0-100.0	166.3	18.0	7438.2	0.23	96.15
100.0-101.0	157.3	17.0	7455.1	0.22	96.37
101.0-102.0	148.6	16.0	7471.1	0.21	96.57
102.0-103.0	140.4	15.0	7486.2	0.19	96.77
103.0-104.0	132.3	14.1	7500.3	0.18	96.95
104.0-105.0	124.9	13.3	7513.5	0.17	97.12
105.0-106.0	117.6	12.4	7525.9	0.16	97.28
106.0-107.0	110.6	11.6	7537.6	0.15	97.43
107.0-108.0	104.4	10.9	7548.5	0.14	97.57

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.010 m
Humidity:
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	98.1	10.2	7558.7	0.13	97.70
109.0-110.0	92.0	9.5	7568.2	0.12	97.83
110.0-111.0	86.4	8.9	7577.1	0.11	97.94
111.0-112.0	81.0	8.3	7585.3	0.11	98.05
112.0-113.0	75.8	7.7	7593.0	0.10	98.15
113.0-114.0	70.9	7.1	7600.1	0.09	98.24
114.0-115.0	66.3	6.6	7606.8	0.09	98.33
115.0-116.0	62.3	6.2	7612.9	0.08	98.41
116.0-117.0	58.5	5.7	7618.7	0.07	98.48
117.0-118.0	55.0	5.4	7624.0	0.07	98.55
118.0-119.0	52.0	5.0	7629.0	0.06	98.61
119.0-120.0	49.0	4.7	7633.7	0.06	98.67
120.0-121.0	46.2	4.4	7638.1	0.06	98.73
121.0-122.0	43.5	4.1	7642.1	0.05	98.78
122.0-123.0	40.9	3.8	7645.9	0.05	98.83
123.0-124.0	38.6	3.5	7649.4	0.05	98.88
124.0-125.0	36.3	3.3	7652.7	0.04	98.92
125.0-126.0	34.2	3.1	7655.8	0.04	98.96
126.0-127.0	32.6	2.9	7658.7	0.04	99.00
127.0-128.0	31.4	2.7	7661.4	0.04	99.03
128.0-129.0	30.3	2.6	7664.0	0.03	99.07
129.0-130.0	29.5	2.5	7666.5	0.03	99.10
130.0-131.0	29.0	2.4	7668.9	0.03	99.13
131.0-132.0	28.9	2.4	7671.3	0.03	99.16
132.0-133.0	28.8	2.3	7673.6	0.03	99.19
133.0-134.0	28.8	2.3	7675.9	0.03	99.22
134.0-135.0	28.9	2.3	7678.2	0.03	99.25
135.0-136.0	29.1	2.2	7680.4	0.03	99.28
136.0-137.0	29.2	2.2	7682.6	0.03	99.31
137.0-138.0	29.4	2.2	7684.8	0.03	99.33
138.0-139.0	29.6	2.2	7686.9	0.03	99.36
139.0-140.0	29.8	2.1	7689.0	0.03	99.39
140.0-141.0	29.9	2.1	7691.1	0.03	99.42
141.0-142.0	30.1	2.1	7693.2	0.03	99.44
142.0-143.0	30.3	2.0	7695.2	0.03	99.47
143.0-144.0	30.4	2.0	7697.2	0.03	99.49

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.010 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	30.6	1.9	7699.1	0.03	99.52
145.0-146.0	30.8	1.9	7701.1	0.02	99.54
146.0-147.0	31.0	1.9	7702.9	0.02	99.57
147.0-148.0	31.1	1.8	7704.8	0.02	99.59
148.0-149.0	31.3	1.8	7706.6	0.02	99.62
149.0-150.0	31.5	1.8	7708.3	0.02	99.64
150.0-151.0	31.7	1.7	7710.0	0.02	99.66
151.0-152.0	31.9	1.7	7711.7	0.02	99.68
152.0-153.0	32.0	1.6	7713.3	0.02	99.70
153.0-154.0	32.2	1.6	7714.9	0.02	99.72
154.0-155.0	32.3	1.5	7716.4	0.02	99.74
155.0-156.0	32.5	1.5	7717.9	0.02	99.76
156.0-157.0	32.6	1.4	7719.3	0.02	99.78
157.0-158.0	32.8	1.4	7720.7	0.02	99.80
158.0-159.0	32.9	1.3	7722.0	0.02	99.82
159.0-160.0	33.1	1.3	7723.3	0.02	99.83
160.0-161.0	33.2	1.2	7724.5	0.02	99.85
161.0-162.0	33.4	1.2	7725.7	0.02	99.86
162.0-163.0	33.6	1.1	7726.8	0.01	99.88
163.0-164.0	33.7	1.1	7727.8	0.01	99.89
164.0-165.0	33.9	1.0	7728.8	0.01	99.90
165.0-166.0	34.1	0.9	7729.7	0.01	99.92
166.0-167.0	34.3	0.9	7730.6	0.01	99.93
167.0-168.0	34.5	0.8	7731.4	0.01	99.94
168.0-169.0	34.7	0.8	7732.2	0.01	99.95
169.0-170.0	34.9	0.7	7732.9	0.01	99.96
170.0-171.0	35.1	0.6	7733.5	0.01	99.96
171.0-172.0	35.4	0.6	7734.1	0.01	99.97
172.0-173.0	35.6	0.5	7734.6	0.01	99.98
173.0-174.0	35.9	0.4	7735.1	0.01	99.98
174.0-175.0	36.1	0.4	7735.4	0.00	99.99
175.0-176.0	36.4	0.3	7735.8	0.00	99.99
176.0-177.0	36.6	0.2	7736.0	0.00	100.00
177.0-178.0	36.8	0.2	7736.2	0.00	100.00
178.0-179.0	37.0	0.1	7736.3	0.00	100.00
179.0-180.0	37.2	0.0	7736.3	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 9.010 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 3539.66 lm

%lum = 45.8%

%lamp = 45.8%

cone flux(120°): 5230.29 lm

%lum = 67.6%

%lamp = 67.6%

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	2321.8	2320.5	2322.2	2322.9	2324.1	2323.1	2321.8	2320.5	2322.2	2322.9
G1.0	2320.1	2318.9	2320.7	2322.3	2323.5	2324.3	2322.8	2321.7	2323.0	2323.5
G2.0	2318.0	2316.5	2318.0	2320.0	2322.8	2324.0	2323.0	2322.2	2322.7	2322.5
G3.0	2314.7	2312.7	2314.3	2316.9	2320.6	2322.8	2322.6	2321.8	2321.4	2320.9
G4.0	2310.9	2308.7	2310.0	2312.9	2317.3	2322.2	2321.4	2320.1	2319.0	2317.5
G5.0	2306.7	2303.7	2304.2	2307.7	2314.0	2319.5	2318.8	2318.1	2315.9	2313.4
G6.0	2300.7	2298.0	2297.9	2301.6	2308.5	2315.8	2315.8	2315.2	2312.0	2307.8
G7.0	2295.8	2292.0	2291.5	2294.9	2303.0	2311.7	2312.3	2312.0	2306.9	2302.2
G8.0	2288.9	2284.9	2283.5	2286.6	2296.6	2306.8	2308.1	2307.1	2300.5	2294.8
G9.0	2281.4	2276.6	2274.1	2277.2	2287.9	2301.0	2302.8	2302.0	2294.2	2286.8
G10.0	2273.7	2268.2	2264.5	2267.4	2279.4	2294.6	2297.7	2296.1	2287.0	2277.6
G11.0	2263.8	2258.2	2252.7	2255.4	2269.1	2287.4	2290.9	2289.0	2277.7	2266.9
G12.0	2254.7	2248.2	2241.3	2243.5	2259.4	2279.6	2284.3	2281.7	2268.7	2257.0
G13.0	2244.8	2237.3	2229.2	2231.4	2248.6	2271.1	2276.2	2273.6	2257.9	2244.5
G14.0	2234.2	2225.1	2214.5	2216.2	2235.1	2261.0	2267.6	2264.3	2245.9	2231.3
G15.0	2222.9	2212.5	2201.1	2202.2	2222.2	2251.3	2258.2	2254.3	2234.4	2217.4
G16.0	2210.7	2198.8	2185.1	2185.2	2207.0	2239.7	2248.7	2243.0	2220.1	2201.8
G17.0	2197.9	2185.3	2169.2	2169.8	2193.2	2227.8	2238.3	2232.2	2206.4	2186.8
G18.0	2185.1	2171.7	2153.4	2152.2	2177.7	2215.9	2227.4	2220.0	2192.5	2170.1
G19.0	2170.1	2154.9	2134.0	2133.2	2160.7	2201.6	2215.2	2206.6	2175.2	2151.7
G20.0	2156.1	2139.7	2116.8	2113.4	2143.8	2188.9	2203.3	2193.8	2159.8	2133.4
G21.0	2142.0	2124.0	2097.9	2094.1	2125.6	2174.6	2189.4	2179.6	2142.5	2115.3
G22.0	2125.0	2105.4	2076.8	2072.7	2106.1	2157.8	2175.6	2163.9	2123.6	2093.1
G23.0	2109.8	2088.3	2057.1	2050.9	2086.2	2142.5	2161.4	2148.9	2105.7	2073.3
G24.0	2092.7	2069.1	2034.5	2027.4	2064.9	2124.5	2145.5	2130.8	2083.7	2050.7
G25.0	2074.8	2050.0	2013.5	2004.1	2044.2	2107.0	2130.8	2114.8	2064.5	2029.4
G26.0	2058.2	2031.3	1990.9	1982.0	2023.0	2089.9	2114.6	2097.9	2044.6	2006.0
G27.0	2038.1	2009.5	1966.2	1954.8	1998.9	2069.3	2096.9	2077.7	2020.7	1981.1
G28.0	2019.9	1989.4	1943.5	1930.8	1976.9	2050.8	2080.4	2059.4	1999.1	1956.4
G29.0	2001.2	1968.1	1918.7	1906.0	1954.2	2031.3	2062.6	2039.3	1976.0	1931.9
G30.0	1978.9	1945.8	1892.4	1877.3	1927.4	2009.0	2043.2	2018.2	1950.7	1904.6
G31.0	1959.6	1924.2	1867.4	1851.2	1903.5	1988.9	2024.9	1998.8	1927.5	1877.9
G32.0	1936.9	1899.7	1839.1	1821.3	1876.4	1965.2	2003.4	1975.5	1900.0	1849.3
G33.0	1916.4	1877.2	1812.8	1794.2	1850.3	1943.6	1983.3	1954.3	1874.5	1821.3
G34.0	1894.3	1853.7	1786.4	1765.2	1825.1	1921.2	1963.4	1931.5	1849.0	1793.0
G35.0	1870.5	1827.9	1756.7	1734.4	1795.1	1897.1	1939.7	1906.7	1819.3	1762.7
G36.0	1847.8	1803.4	1729.0	1704.9	1768.5	1873.1	1919.1	1884.3	1793.4	1733.9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 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	1825.1	1779.1	1701.4	1675.8	1740.2	1849.5	1894.6	1859.0	1764.1	1700.7
G38.0	1799.2	1750.9	1669.0	1643.1	1710.1	1823.3	1872.6	1834.4	1735.5	1671.1
G39.0	1775.6	1726.1	1640.9	1611.5	1680.2	1798.2	1850.1	1810.6	1707.4	1639.7
G40.0	1748.2	1696.6	1608.1	1577.1	1649.1	1770.1	1824.3	1782.8	1675.1	1606.8
G41.0	1724.1	1671.1	1577.7	1546.5	1618.9	1745.0	1800.9	1758.1	1646.5	1574.6
G42.0	1698.6	1644.3	1548.4	1513.9	1589.7	1718.3	1776.0	1731.5	1617.5	1543.2
G43.0	1671.1	1615.5	1514.7	1480.1	1556.1	1689.8	1749.6	1703.5	1583.7	1508.8
G44.0	1644.6	1587.7	1484.8	1446.8	1525.2	1661.6	1724.9	1676.7	1553.7	1475.8
G45.0	1619.3	1559.6	1453.3	1415.5	1495.2	1634.5	1696.1	1646.8	1519.6	1440.6
G46.0	1589.6	1530.0	1420.3	1378.7	1462.3	1603.1	1670.3	1619.9	1489.2	1406.9
G47.0	1563.5	1502.1	1389.6	1346.5	1430.0	1575.5	1643.2	1591.7	1457.2	1374.1
G48.0	1534.2	1470.5	1354.6	1309.8	1396.5	1542.2	1614.1	1561.5	1423.7	1336.3
G49.0	1508.2	1443.1	1323.9	1277.1	1364.2	1511.3	1586.7	1532.6	1391.2	1303.5
G50.0	1480.7	1413.8	1291.3	1242.6	1331.4	1477.5	1560.7	1503.4	1359.8	1268.9
G51.0	1452.3	1383.8	1256.1	1206.7	1297.3	1440.5	1530.2	1472.6	1324.1	1232.3
G52.0	1424.3	1354.4	1225.1	1172.2	1264.4	1403.8	1504.1	1444.3	1292.2	1198.6
G53.0	1396.3	1325.2	1192.3	1139.2	1233.2	1367.2	1472.8	1411.9	1256.1	1160.2
G54.0	1367.1	1294.7	1158.1	1101.3	1197.4	1330.1	1446.0	1383.5	1224.3	1126.5
G55.0	1338.4	1265.6	1125.6	1067.9	1165.9	1297.9	1418.0	1354.1	1192.9	1091.1
G56.0	1309.3	1234.9	1091.2	1029.8	1129.9	1262.9	1387.7	1323.0	1156.5	1054.0
G57.0	1280.9	1207.2	1058.3	996.2	1098.6	1232.6	1360.9	1294.4	1124.6	1018.2
G58.0	1252.5	1176.4	1025.4	959.7	1065.6	1203.6	1332.1	1265.1	1091.6	984.3
G59.0	1223.0	1146.2	990.1	922.9	1029.1	1176.3	1300.9	1233.3	1056.5	945.4
G60.0	1195.0	1117.3	959.1	888.5	996.3	1153.4	1273.1	1203.6	1023.2	911.5
G61.0	1164.2	1085.7	923.7	852.1	961.6	1130.3	1243.5	1172.6	988.5	874.3
G62.0	1137.4	1058.3	893.0	817.3	928.8	1109.3	1214.6	1143.2	955.3	838.5
G63.0	1109.3	1029.6	861.2	782.8	897.2	1084.3	1187.1	1114.8	924.0	804.8
G64.0	1080.1	999.4	828.0	746.6	861.4	1054.6	1157.3	1084.0	889.8	766.5
G65.0	1052.2	971.3	796.6	713.8	829.3	1026.3	1129.4	1054.8	857.3	733.1
G66.0	1025.8	944.6	765.9	679.8	793.9	999.3	1102.1	1027.2	826.6	698.0
G67.0	995.8	913.9	734.1	644.2	753.8	969.6	1071.6	995.6	793.4	662.0
G68.0	970.1	887.9	705.5	610.7	715.0	942.2	1045.2	968.4	762.4	629.1
G69.0	940.4	857.8	673.4	575.9	675.8	912.1	1016.1	938.7	729.0	591.8
G70.0	914.8	831.0	644.2	542.8	640.4	886.5	988.5	911.1	700.1	559.7
G71.0	888.4	805.7	616.8	510.3	607.9	859.7	961.3	884.7	671.3	526.1
G72.0	860.0	776.7	586.1	476.7	577.2	830.6	932.9	854.5	639.3	491.6
G73.0	835.4	751.7	559.5	444.5	555.5	805.5	907.5	828.5	611.5	459.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

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	810.1	726.3	532.2	414.5	539.7	779.3	881.2	802.0	583.2	428.4
G75.0	783.4	699.9	504.6	380.9	519.4	752.4	853.7	773.4	554.1	393.8
G76.0	758.6	674.9	478.4	351.8	495.4	726.9	828.0	748.7	526.9	364.2
G77.0	733.0	649.8	451.9	319.5	468.5	701.0	800.2	722.0	499.3	331.0
G78.0	708.8	625.7	427.2	290.4	444.3	676.3	776.3	696.7	473.4	302.6
G79.0	686.0	603.2	403.1	263.2	421.6	653.5	751.5	672.3	449.3	273.4
G80.0	660.5	578.0	378.6	233.1	397.3	627.7	725.8	646.8	422.5	243.6
G81.0	637.6	556.3	356.0	207.4	374.9	604.4	702.6	624.1	398.6	215.8
G82.0	615.9	534.0	335.0	181.2	352.8	582.4	676.7	598.7	374.6	187.9
G83.0	592.8	510.5	311.7	154.7	330.5	559.2	653.4	576.8	353.3	161.9
G84.0	570.8	490.0	292.3	130.1	310.1	537.3	631.3	554.5	332.0	137.8
G85.0	547.6	467.5	270.7	104.5	289.7	513.4	608.0	530.6	310.5	111.3
G86.0	527.8	448.4	253.0	83.1	270.8	493.5	585.9	510.1	290.7	88.8
G87.0	507.5	428.6	234.8	62.4	253.6	473.4	564.4	489.2	271.8	66.5
G88.0	486.8	408.7	217.0	40.6	234.8	452.7	542.1	468.0	252.8	44.0
G89.0	467.4	390.1	200.6	23.2	219.3	433.0	521.2	448.1	235.4	25.0
G90.0	449.1	372.6	185.4	14.4	203.4	414.7	499.6	427.7	218.3	12.2
G91.0	428.7	353.2	168.8	13.5	187.4	395.5	480.7	409.5	203.2	11.4
G92.0	411.3	336.7	154.9	12.4	173.4	377.1	460.9	391.1	188.7	10.9
G93.0	392.3	317.9	139.4	11.6	160.0	359.0	441.0	372.4	174.7	10.4
G94.0	374.3	301.9	127.4	10.8	147.4	343.1	423.2	356.2	163.7	10.4
G95.0	357.5	285.9	116.5	10.4	135.7	328.3	406.3	341.2	152.4	10.5
G96.0	339.1	269.7	106.5	9.9	123.3	312.2	389.1	324.6	141.5	10.9
G97.0	323.0	255.9	97.9	9.9	114.2	297.8	373.3	309.9	131.8	11.2
G98.0	308.6	243.6	90.3	10.3	106.1	284.5	357.0	294.9	122.0	11.6
G99.0	293.5	230.0	82.4	10.6	98.1	269.1	341.9	281.4	113.2	11.9
G100.0	280.9	218.9	75.1	11.0	90.7	256.5	328.0	268.7	105.3	12.3
G101.0	266.7	206.4	68.0	11.5	83.6	242.2	312.5	254.6	96.7	12.7
G102.0	254.8	195.9	61.1	11.8	76.9	229.9	299.5	242.8	89.6	13.1
G103.0	242.7	185.3	55.5	12.3	65.4	218.0	285.9	230.7	82.9	13.4
G104.0	230.2	174.6	49.7	12.8	61.7	206.1	271.7	218.0	75.9	14.0
G105.0	218.8	164.7	44.9	13.1	56.4	195.1	259.8	207.2	70.1	14.1
G106.0	206.6	154.4	40.4	13.6	49.8	183.8	247.0	195.3	63.7	14.6
G107.0	196.1	145.4	36.6	14.0	46.7	174.1	234.8	185.0	58.2	15.0
G108.0	185.7	136.6	33.1	14.4	43.5	164.4	223.2	174.7	52.6	15.3
G109.0	174.7	128.1	29.4	14.8	38.9	154.7	211.4	164.4	47.4	15.8
G110.0	165.1	120.0	25.9	15.2	34.8	145.5	200.4	155.0	43.0	16.1

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	156.3	112.6	23.1	15.5	31.0	137.4	189.8	146.5	38.9	16.6
G112.0	146.6	104.5	20.7	15.9	27.8	128.4	179.0	137.0	34.8	16.9
G113.0	138.3	97.6	19.4	16.3	25.1	119.9	169.4	128.2	31.4	17.4
G114.0	129.6	89.9	19.2	16.7	23.1	107.7	159.7	116.5	28.5	17.7
G115.0	121.5	83.8	19.5	17.0	22.5	99.7	150.7	108.3	26.2	18.1
G116.0	113.7	74.8	19.8	17.5	22.3	92.2	142.1	100.9	25.4	18.5
G117.0	105.7	68.0	20.2	17.8	22.6	85.2	133.1	92.7	25.3	19.0
G118.0	98.1	62.2	20.4	18.1	22.8	79.0	125.3	86.5	25.4	19.3
G119.0	91.3	57.0	20.8	18.6	23.1	73.6	117.2	80.3	25.4	19.7
G120.0	84.4	51.3	21.2	19.1	23.4	68.2	108.6	74.3	25.6	20.2
G121.0	77.9	46.8	21.2	19.5	23.7	63.2	101.5	68.5	25.7	20.6
G122.0	71.1	42.9	21.6	20.0	23.9	57.6	93.6	62.8	25.9	21.3
G123.0	65.5	38.7	22.0	20.4	24.2	52.5	86.6	57.5	26.0	21.3
G124.0	59.8	35.2	22.2	21.0	24.3	48.0	80.6	52.7	26.1	21.7
G125.0	54.0	31.7	22.6	21.3	24.6	42.9	74.0	47.5	26.3	22.2
G126.0	48.8	29.2	22.8	21.8	24.8	39.1	67.8	43.0	26.4	22.6
G127.0	44.4	28.5	23.1	22.1	25.0	36.3	61.8	39.6	26.6	23.1
G128.0	40.0	28.5	23.4	22.5	25.2	33.3	56.3	36.5	26.7	23.4
G129.0	36.2	28.5	23.7	22.8	25.3	32.0	51.4	34.2	26.9	23.8
G130.0	32.9	28.5	23.9	23.1	25.6	31.2	46.3	33.3	27.0	24.2
G131.0	31.7	28.6	24.2	23.4	25.8	31.1	43.0	33.3	27.2	24.5
G132.0	31.7	28.8	24.4	23.7	26.1	31.4	39.3	33.2	27.4	25.0
G133.0	31.7	29.0	24.6	24.1	26.3	31.4	37.0	33.2	27.5	25.2
G134.0	31.8	29.1	25.0	24.5	26.5	31.1	36.2	33.2	27.8	25.6
G135.0	31.8	29.2	25.2	24.8	26.7	31.2	36.1	33.3	27.9	26.0
G136.0	31.9	29.4	25.5	25.0	26.8	31.4	36.1	33.3	28.0	26.3
G137.0	31.9	29.5	25.8	25.4	27.0	31.5	36.1	33.3	28.3	26.6
G138.0	32.0	29.7	26.1	25.6	27.1	31.9	36.1	33.5	28.4	26.9
G139.0	32.0	29.9	26.2	26.0	27.4	32.0	36.0	33.6	28.5	27.3
G140.0	32.1	30.0	26.5	26.2	27.5	32.0	36.0	33.6	28.8	27.5
G141.0	32.2	30.2	26.8	26.5	27.6	32.0	36.0	33.7	29.0	27.9
G142.0	32.2	30.3	27.1	26.9	27.7	32.1	36.0	33.7	29.1	28.2
G143.0	32.3	30.4	27.4	27.1	27.9	32.3	35.9	33.8	29.3	28.7
G144.0	32.4	30.6	27.7	27.5	28.0	32.6	35.9	33.9	29.5	29.0
G145.0	32.3	30.7	28.0	27.9	28.3	32.8	35.8	34.0	29.8	29.3
G146.0	32.4	30.9	28.2	28.2	28.5	32.8	35.9	33.9	30.0	29.6
G147.0	32.5	31.0	28.4	28.5	28.6	32.9	35.8	34.0	30.3	30.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

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	32.4	31.1	28.8	28.8	28.9	33.0	35.7	34.0	30.5	30.3
G149.0	32.5	31.2	29.1	29.2	29.3	33.0	35.7	34.0	30.9	30.6
G150.0	32.5	31.3	29.3	29.5	29.8	33.2	35.6	34.0	31.1	30.9
G151.0	32.6	31.4	29.7	29.9	30.1	33.2	35.6	34.0	31.4	31.3
G152.0	32.5	31.5	29.9	30.3	30.5	33.1	35.6	34.1	31.7	31.6
G153.0	32.6	31.6	30.1	30.8	30.8	33.0	35.4	34.0	31.9	32.0
G154.0	32.6	31.7	30.4	31.3	31.0	32.9	35.4	34.1	32.1	32.3
G155.0	32.7	31.8	30.6	31.6	31.3	33.0	35.4	33.9	32.4	32.5
G156.0	32.7	32.0	30.9	31.9	31.6	32.9	35.4	33.9	32.6	32.9
G157.0	32.7	32.0	31.2	32.3	32.0	32.9	35.3	33.9	32.9	33.2
G158.0	32.7	32.2	31.4	32.7	32.2	32.8	35.3	34.0	33.0	33.5
G159.0	32.8	32.3	31.6	33.0	32.5	32.8	35.3	34.0	33.3	33.8
G160.0	32.9	32.4	31.9	33.3	32.7	32.9	35.2	34.1	33.5	34.0
G161.0	33.0	32.5	32.2	33.6	32.9	33.0	35.3	34.1	33.6	34.2
G162.0	33.0	32.7	32.3	34.0	32.9	33.2	35.3	34.3	33.8	34.6
G163.0	33.2	32.9	32.6	34.2	33.2	33.4	35.3	34.3	33.9	34.7
G164.0	33.2	33.0	32.8	34.3	33.3	33.5	35.4	34.6	34.0	35.0
G165.0	33.3	33.2	33.1	34.7	33.6	33.8	35.4	34.6	34.2	35.1
G166.0	33.5	33.3	33.4	35.0	33.9	33.9	35.5	34.7	34.3	35.3
G167.0	33.5	33.4	33.8	35.2	34.1	34.1	35.5	35.0	34.5	35.5
G168.0	33.6	33.6	34.2	35.4	34.3	34.2	35.7	35.2	34.6	35.8
G169.0	33.8	33.8	34.5	35.7	34.6	34.3	35.8	35.3	34.9	35.9
G170.0	33.9	33.9	35.0	35.9	34.8	34.3	35.9	35.4	35.0	36.2
G171.0	34.1	34.1	35.5	36.2	35.0	34.5	36.0	35.5	35.2	36.4
G172.0	34.3	34.5	36.0	36.4	35.3	34.5	36.3	35.5	35.4	36.5
G173.0	34.7	35.0	36.4	36.6	35.5	34.6	36.3	35.5	35.5	36.7
G174.0	35.0	35.6	36.7	36.8	35.6	34.7	36.4	35.5	35.8	36.8
G175.0	35.5	36.3	37.0	37.1	35.9	34.9	36.6	35.6	35.9	37.1
G176.0	36.1	36.8	37.2	37.2	36.1	35.1	36.6	35.7	36.1	37.2
G177.0	36.5	37.0	37.3	37.3	36.5	35.4	36.7	35.8	36.4	37.3
G178.0	36.8	37.2	37.4	37.5	36.8	35.8	36.5	36.3	36.8	37.5
G179.0	37.2	37.2	37.5	37.6	37.1	36.1	36.8	36.7	37.1	37.6
G180.0	37.1	37.1	37.3	37.6	37.3	36.8	37.2	37.0	37.3	37.5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	2324.1	2323.1	2321.8							
G1.0	2323.5	2321.8	2320.1							
G2.0	2321.4	2319.8	2318.0							
G3.0	2319.4	2316.5	2314.7							
G4.0	2315.4	2313.2	2310.9							
G5.0	2310.9	2308.8	2306.7							
G6.0	2305.4	2302.9	2300.7							
G7.0	2299.0	2297.0	2295.8							
G8.0	2291.7	2289.6	2288.9							
G9.0	2283.2	2282.1	2281.4							
G10.0	2274.8	2274.1	2273.7							
G11.0	2264.1	2264.9	2263.8							
G12.0	2253.4	2254.8	2254.7							
G13.0	2242.1	2244.1	2244.8							
G14.0	2228.9	2232.5	2234.2							
G15.0	2215.1	2220.6	2222.9							
G16.0	2199.9	2207.2	2210.7							
G17.0	2184.4	2194.0	2197.9							
G18.0	2169.5	2180.3	2185.1							
G19.0	2151.7	2164.2	2170.1							
G20.0	2133.6	2149.2	2156.1							
G21.0	2116.6	2132.9	2142.0							
G22.0	2095.3	2115.3	2125.0							
G23.0	2076.4	2098.0	2109.8							
G24.0	2054.7	2077.9	2092.7							
G25.0	2034.1	2060.0	2074.8							
G26.0	2011.6	2042.0	2058.2							
G27.0	1987.1	2019.9	2038.1							
G28.0	1964.0	2000.1	2019.9							
G29.0	1941.2	1978.8	2001.2							
G30.0	1915.2	1956.2	1978.9							
G31.0	1889.6	1934.7	1959.6							
G32.0	1862.3	1909.9	1936.9							
G33.0	1835.9	1888.5	1916.4							
G34.0	1808.7	1863.4	1894.3							
G35.0	1779.4	1837.6	1870.5							
G36.0	1752.2	1814.3	1847.8							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1720.8	1786.6	1825.1							
G38.0	1693.0	1762.1	1799.2							
G39.0	1663.0	1735.9	1775.6							
G40.0	1631.6	1708.2	1748.2							
G41.0	1600.6	1682.3	1724.1							
G42.0	1571.2	1654.8	1698.6							
G43.0	1537.0	1625.6	1671.1							
G44.0	1507.1	1597.3	1644.6							
G45.0	1473.8	1567.8	1619.3							
G46.0	1442.2	1540.7	1589.6							
G47.0	1411.0	1511.9	1563.5							
G48.0	1375.6	1481.2	1534.2							
G49.0	1344.4	1451.9	1508.2							
G50.0	1311.5	1424.0	1480.7							
G51.0	1276.9	1392.3	1452.3							
G52.0	1243.8	1364.0	1424.3							
G53.0	1209.1	1333.1	1396.3							
G54.0	1177.2	1303.8	1367.1							
G55.0	1143.8	1275.5	1338.4							
G56.0	1108.9	1243.4	1309.3							
G57.0	1075.4	1215.2	1280.9							
G58.0	1043.8	1185.9	1252.5							
G59.0	1007.6	1155.2	1223.0							
G60.0	975.9	1125.8	1195.0							
G61.0	939.6	1095.3	1164.2							
G62.0	908.3	1065.8	1137.4							
G63.0	875.5	1038.1	1109.3							
G64.0	841.6	1006.6	1080.1							
G65.0	811.0	979.2	1052.2							
G66.0	779.4	950.9	1025.8							
G67.0	747.1	921.6	995.8							
G68.0	716.3	894.8	970.1							
G69.0	684.7	864.6	940.4							
G70.0	656.1	838.6	914.8							
G71.0	626.7	811.5	888.4							
G72.0	596.3	783.3	860.0							
G73.0	568.0	758.2	835.4							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	541.4	732.2	810.1							
G75.0	511.5	705.7	783.4							
G76.0	486.0	680.7	758.6							
G77.0	457.6	653.9	733.0							
G78.0	433.3	630.6	708.8							
G79.0	408.7	606.9	686.0							
G80.0	383.4	582.1	660.5							
G81.0	360.0	559.3	637.6							
G82.0	336.5	535.9	615.9							
G83.0	314.8	514.0	592.8							
G84.0	294.7	493.4	570.8							
G85.0	272.8	471.6	547.6							
G86.0	253.5	451.3	527.8							
G87.0	235.7	431.4	507.5							
G88.0	216.3	411.2	486.8							
G89.0	200.5	392.3	467.4							
G90.0	183.6	373.2	449.1							
G91.0	168.0	356.2	428.7							
G92.0	153.8	338.5	411.3							
G93.0	138.5	320.5	392.3							
G94.0	126.9	303.8	374.3							
G95.0	116.7	287.8	357.5							
G96.0	107.0	271.5	339.1							
G97.0	99.1	257.9	323.0							
G98.0	90.4	244.2	308.6							
G99.0	83.6	231.8	293.5							
G100.0	76.4	220.7	280.9							
G101.0	68.9	208.3	266.7							
G102.0	62.2	197.0	254.8							
G103.0	56.5	186.9	242.7							
G104.0	50.6	175.5	230.2							
G105.0	45.5	166.1	218.8							
G106.0	41.1	155.5	206.6							
G107.0	37.3	146.5	196.1							
G108.0	33.8	137.8	185.7							
G109.0	30.1	128.9	174.7							
G110.0	26.9	120.8	165.1							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	24.0	113.1	156.3							
G112.0	21.3	105.3	146.6							
G113.0	20.4	98.0	138.3							
G114.0	20.4	90.6	129.6							
G115.0	20.7	84.0	121.5							
G116.0	20.9	75.4	113.7							
G117.0	21.3	68.6	105.7							
G118.0	21.3	62.9	98.1							
G119.0	21.6	57.4	91.3							
G120.0	21.9	51.7	84.4							
G121.0	22.1	47.2	77.9							
G122.0	22.4	43.0	71.1							
G123.0	22.7	38.8	65.5							
G124.0	23.1	35.2	59.8							
G125.0	23.3	31.8	54.0							
G126.0	23.6	29.7	48.8							
G127.0	23.8	29.1	44.4							
G128.0	24.2	29.1	40.0							
G129.0	24.4	29.1	36.2							
G130.0	24.7	29.2	32.9							
G131.0	24.9	29.4	31.7							
G132.0	25.2	29.5	31.7							
G133.0	25.5	29.7	31.7							
G134.0	25.6	29.7	31.8							
G135.0	26.0	30.0	31.8							
G136.0	26.2	30.1	31.9							
G137.0	26.4	30.2	31.9							
G138.0	26.7	30.5	32.0							
G139.0	26.9	30.5	32.0							
G140.0	27.1	30.7	32.1							
G141.0	27.5	30.9	32.2							
G142.0	27.8	30.9	32.2							
G143.0	28.0	30.9	32.3							
G144.0	28.4	31.0	32.4							
G145.0	28.5	31.1	32.3							
G146.0	28.8	31.2	32.4							
G147.0	29.1	31.4	32.5							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	29.4	31.5	32.4							
G149.0	29.7	31.7	32.5							
G150.0	29.9	31.7	32.5							
G151.0	30.3	32.0	32.6							
G152.0	30.5	31.9	32.5							
G153.0	30.6	32.1	32.6							
G154.0	31.0	32.2	32.6							
G155.0	31.2	32.2	32.7							
G156.0	31.5	32.3	32.7							
G157.0	31.7	32.4	32.7							
G158.0	31.8	32.5	32.7							
G159.0	32.1	32.7	32.8							
G160.0	32.3	32.8	32.9							
G161.0	32.4	32.9	33.0							
G162.0	32.7	33.0	33.0							
G163.0	32.9	33.2	33.2							
G164.0	33.1	33.4	33.2							
G165.0	33.5	33.4	33.3							
G166.0	33.8	33.6	33.5							
G167.0	34.1	33.7	33.5							
G168.0	34.6	33.8	33.6							
G169.0	35.0	34.0	33.8							
G170.0	35.4	34.1	33.9							
G171.0	35.8	34.3	34.1							
G172.0	36.1	34.8	34.3							
G173.0	36.6	35.3	34.7							
G174.0	36.8	35.9	35.0							
G175.0	37.1	36.5	35.5							
G176.0	37.3	36.8	36.1							
G177.0	37.5	37.0	36.5							
G178.0	37.5	37.1	36.8							
G179.0	37.5	37.1	37.2							
G180.0	37.3	36.7	37.1							

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: 9.010 m
Humidity:
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	21508.87
L 0-180(75) av	26355.29
L 0-180(85) av	55245.47
L 90-270(65) av	14265.04
L 90-270(75) av	12470.75
L 90-270(85) av	10318.22
L 45(65) av	18056.83
L 45(75) av	20207.65
L 45(85) av	37372.53

Standard: GB/T 29293-2012

Preheating curve

Preheating curve

Max.										
Min.										

Preheat time: 0 h Sample interval:1 s Stable range: 0.00 % Stable time: 00:00:00