

Report No.:

Test Time: 2023-07-25 09:01

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm): 1200

Luminous Height (mm): 40

Current: 0.193 A

Power Factor: 0.986

Luminaire Description:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 100

Voltage: 119.9 V

Power: 23.84 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3420.3 lm

Downward Ratio: 93%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 209.7, 160.5, 187.8, 186.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 124.1, 105.3, 114.2, 113.8

Luminous Efficacy (lm/w): 143.47

Max. Intensity: 1037.55 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 3420.3 lm

Efficiency: 100%

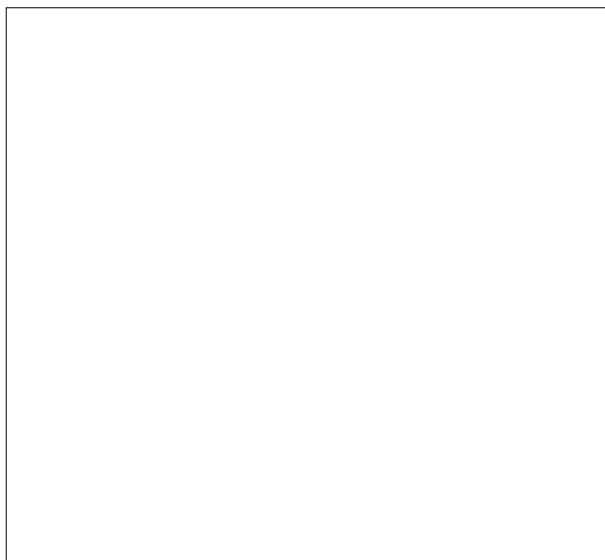
Upward Ratio: 7%

C0r0 Intensity: 1037 cd

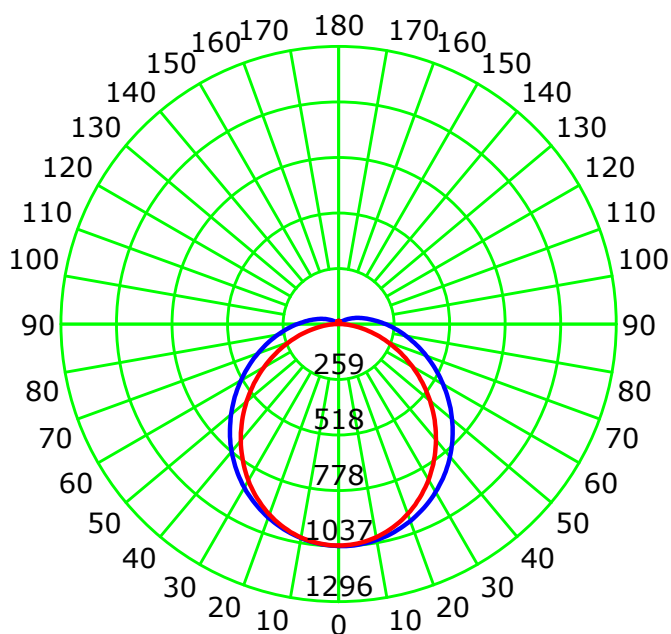
Pos of Max. Intensity: H0 V1

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

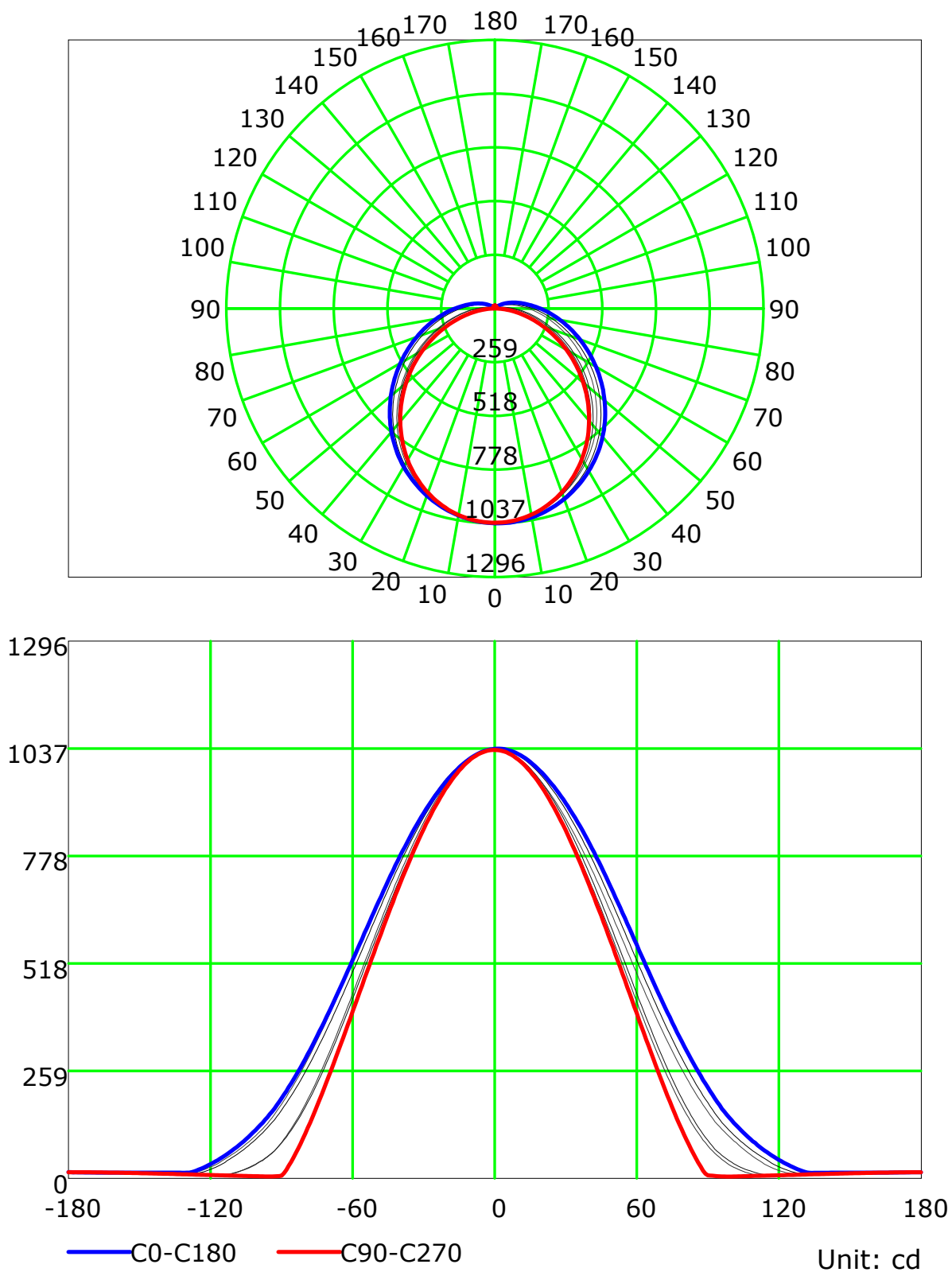
Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

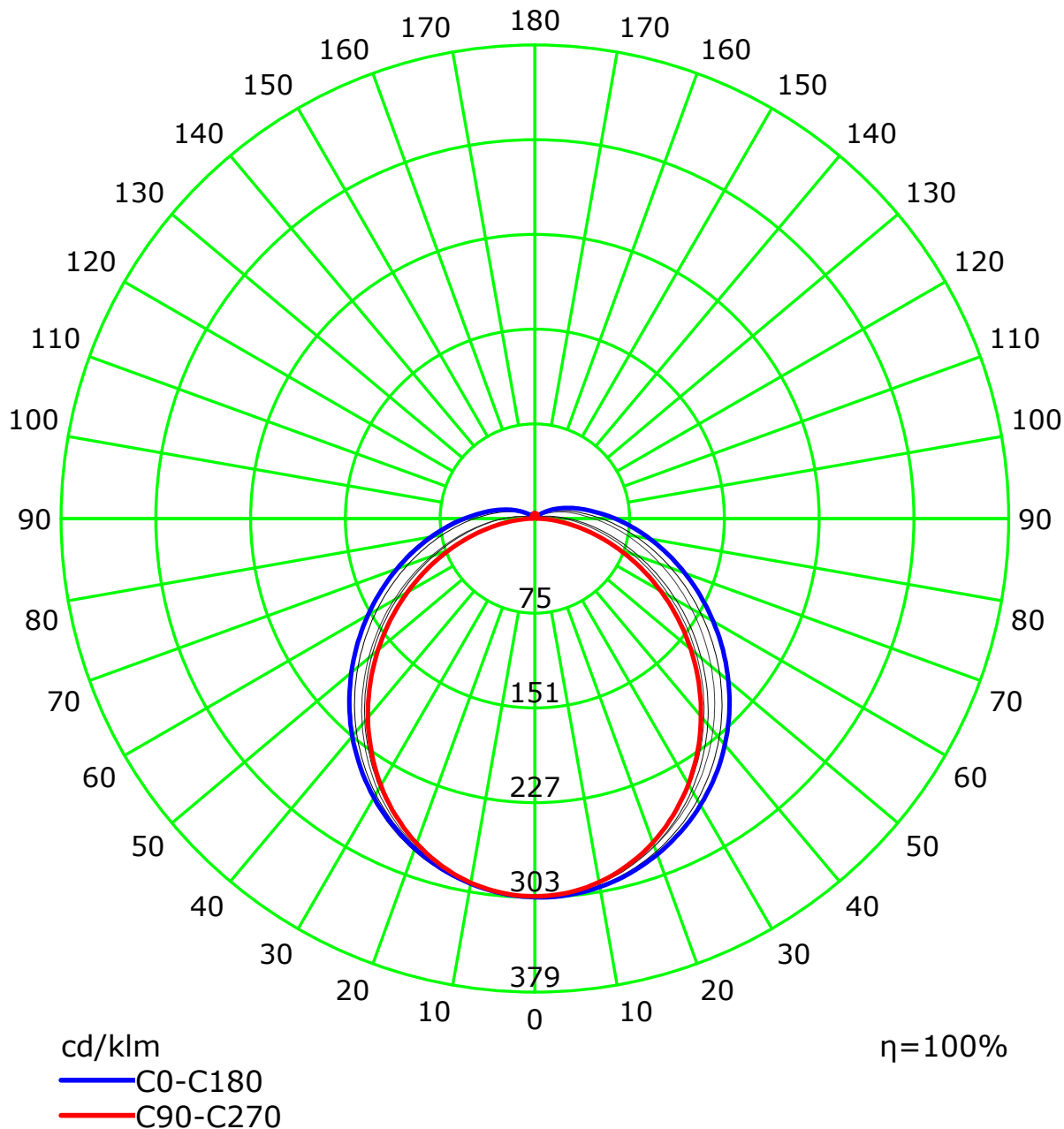
Luminous Intensity Distribution Curve



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)



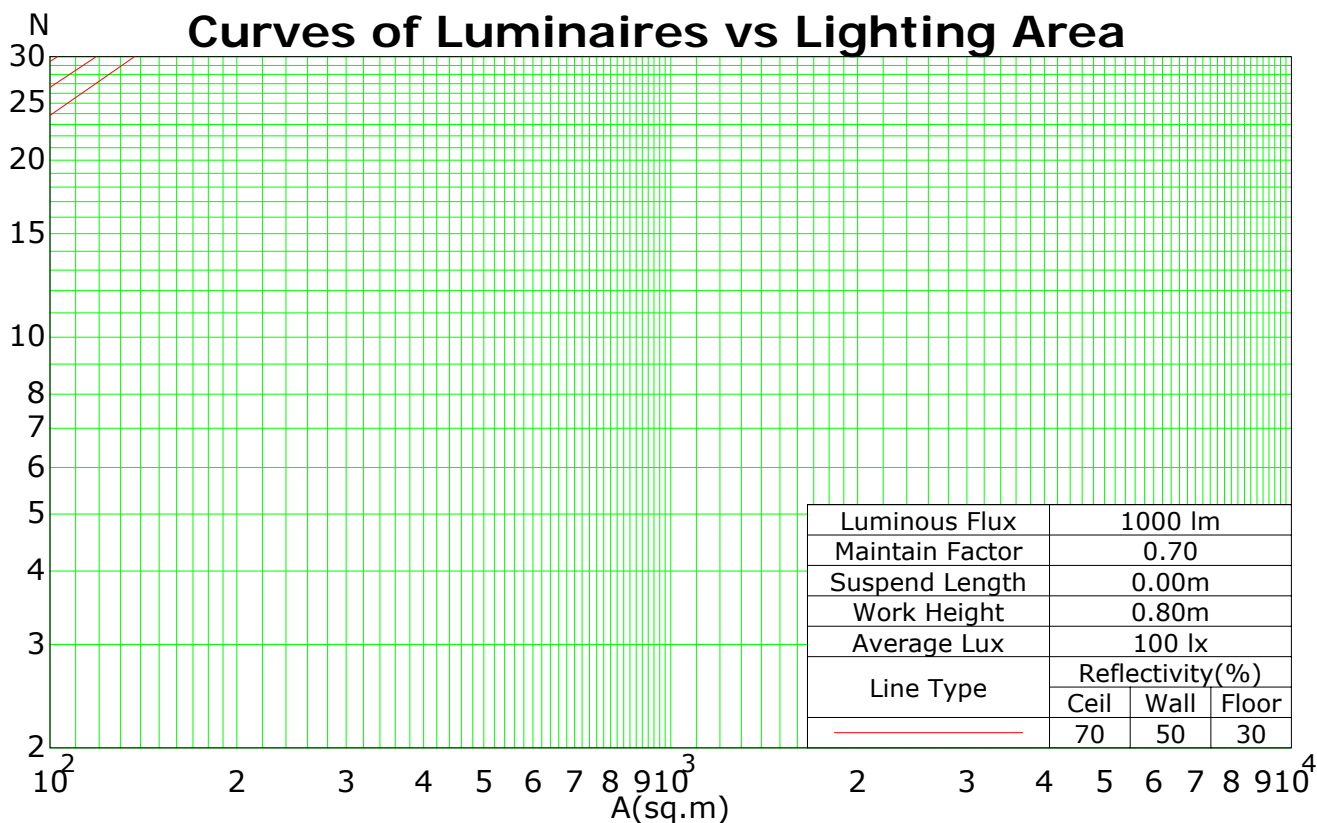
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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	1.06	1.00	0.95	0.91	1.02	0.97	0.93	0.89	0.92	0.88	0.85	0.86	0.84	0.81	0.82	0.79	0.77	0.75
2	0.95	0.86	0.79	0.73	0.92	0.84	0.77	0.71	0.79	0.74	0.69	0.75	0.70	0.66	0.71	0.67	0.64	0.61
3	0.87	0.75	0.67	0.60	0.84	0.73	0.65	0.59	0.69	0.63	0.57	0.66	0.60	0.55	0.62	0.58	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	0.46	0.43
5	0.73	0.59	0.50	0.43	0.70	0.58	0.49	0.43	0.55	0.47	0.42	0.52	0.46	0.41	0.50	0.44	0.40	0.37
6	0.67	0.53	0.44	0.38	0.65	0.52	0.43	0.37	0.50	0.42	0.36	0.47	0.41	0.35	0.45	0.39	0.35	0.32
7	0.62	0.48	0.39	0.33	0.60	0.47	0.39	0.33	0.45	0.38	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.29
8	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.41	0.34	0.29	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	0.40	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	0.37	0.29	0.24	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21

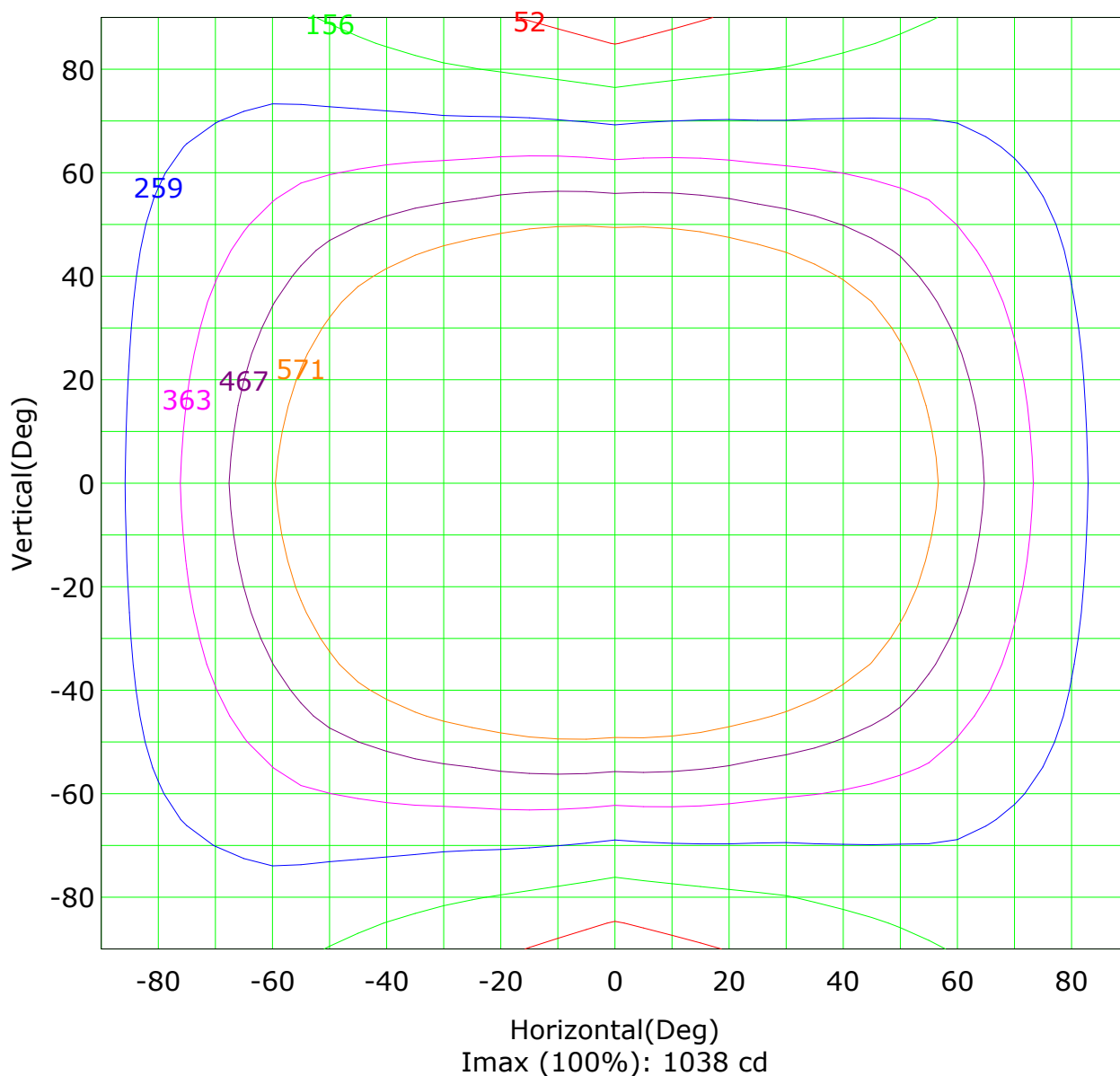
Spacing Criteria (0-180): 1.28
Spacing Criteria (90-270): 1.21
Spacing Criteria (Diagonal): 1.37



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)

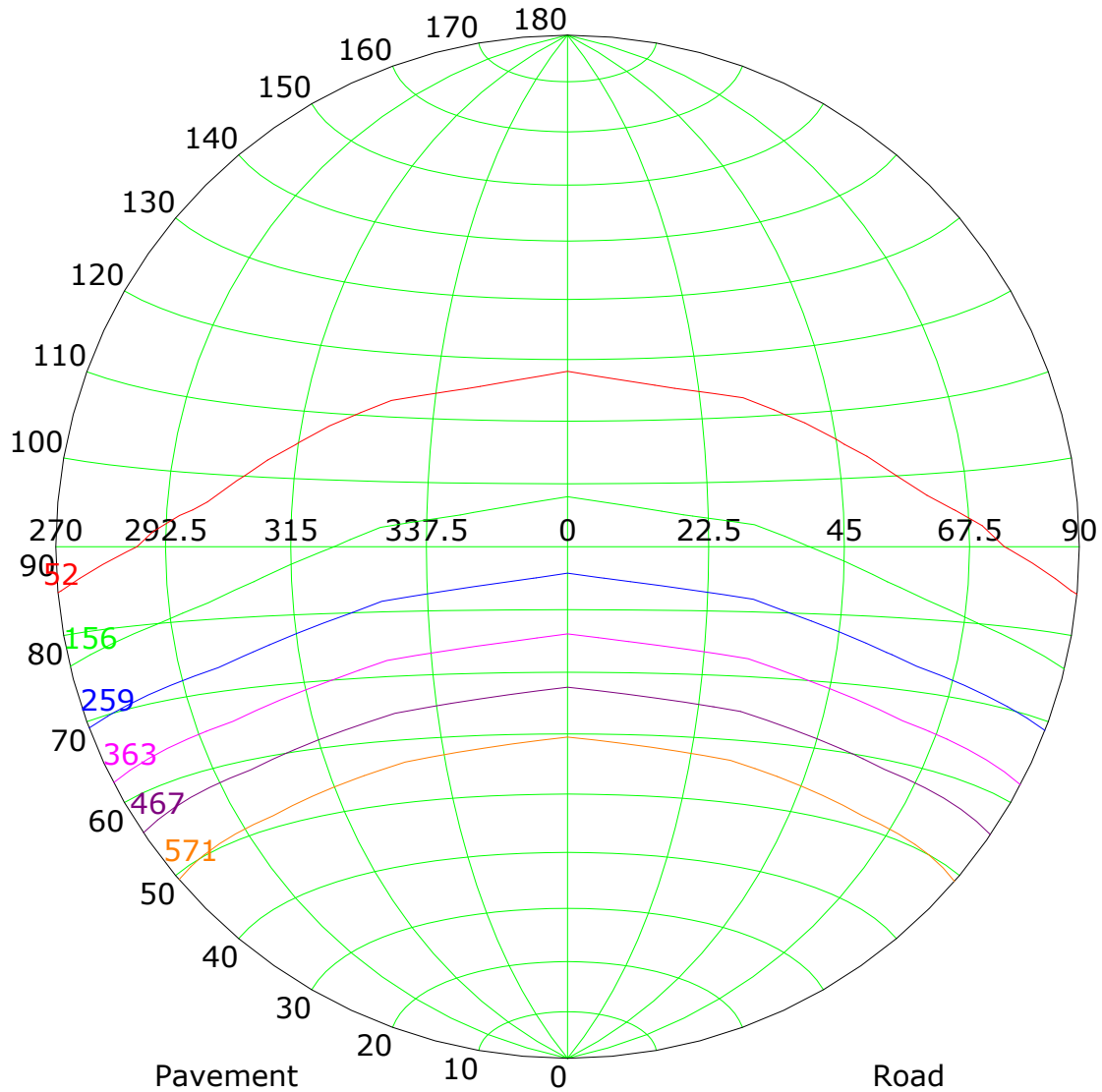


(5%):	52 cd	(15%):	156 cd
(25%):	259 cd	(35%):	363 cd
(45%):	467 cd	(55%):	571 cd

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)



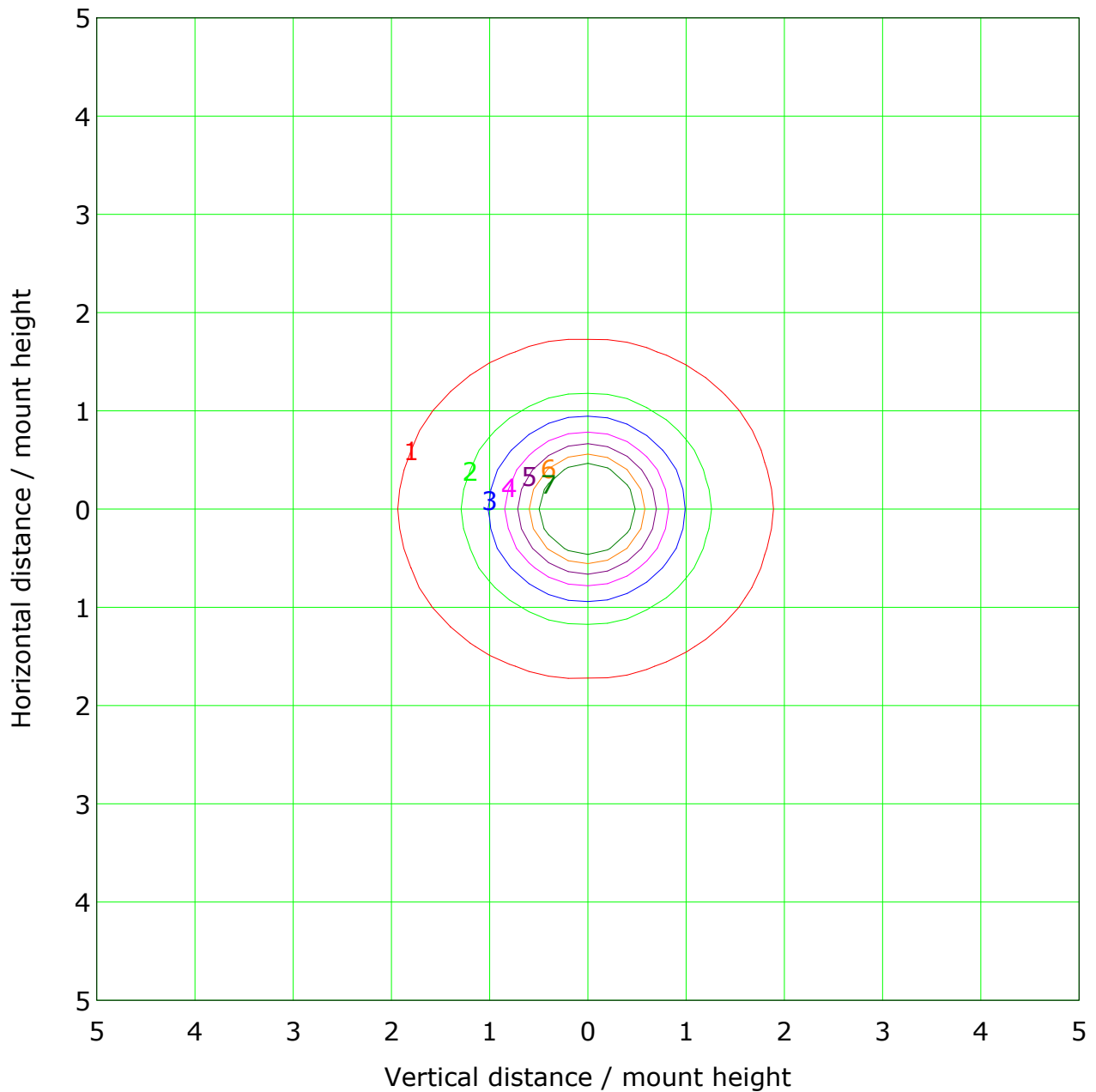
Imax (100%): 1038 cd

(5%): 52 cd	(15%): 156 cd
(25%): 259 cd	(35%): 363 cd
(45%): 467 cd	(55%): 571 cd

CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 64.322 cd/klm

IES: Non-cut-off
Max.At80: 93.380 cd/klm
Max.80-90: 93.380 cd/klm

IsoLux Plot



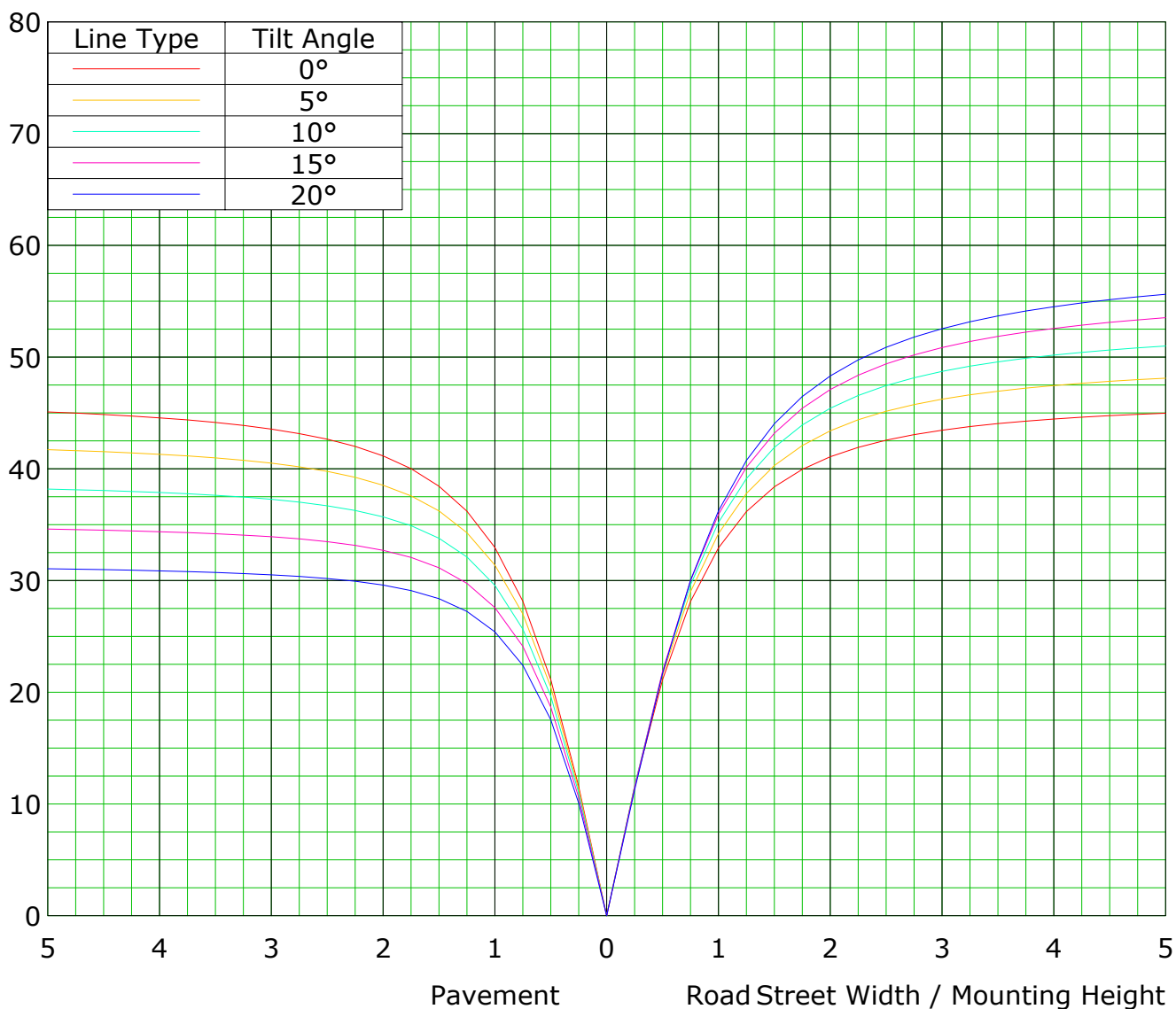
Mounting Height: 10.0m		Max Lux(100%): 10.4 lx	
— (5%):	0.5 lx	— (15%):	1.6 lx
— (25%):	2.6 lx	— (35%):	3.6 lx
— (45%):	4.7 lx	— (55%):	5.7 lx
— (65%):	6.7 lx		

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

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

Roadway CU Curve

Efficiency(%)

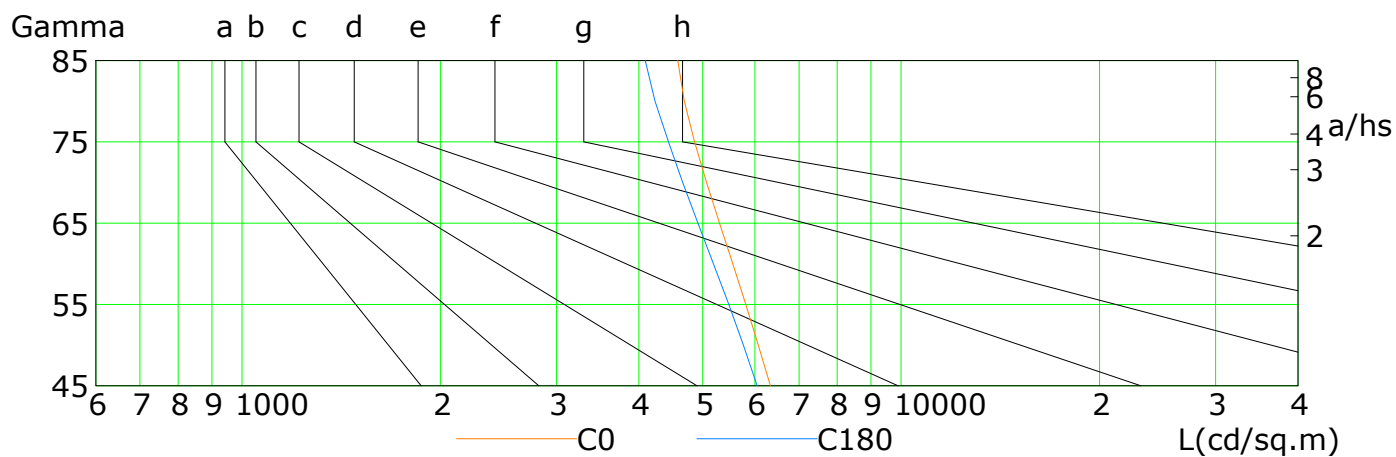
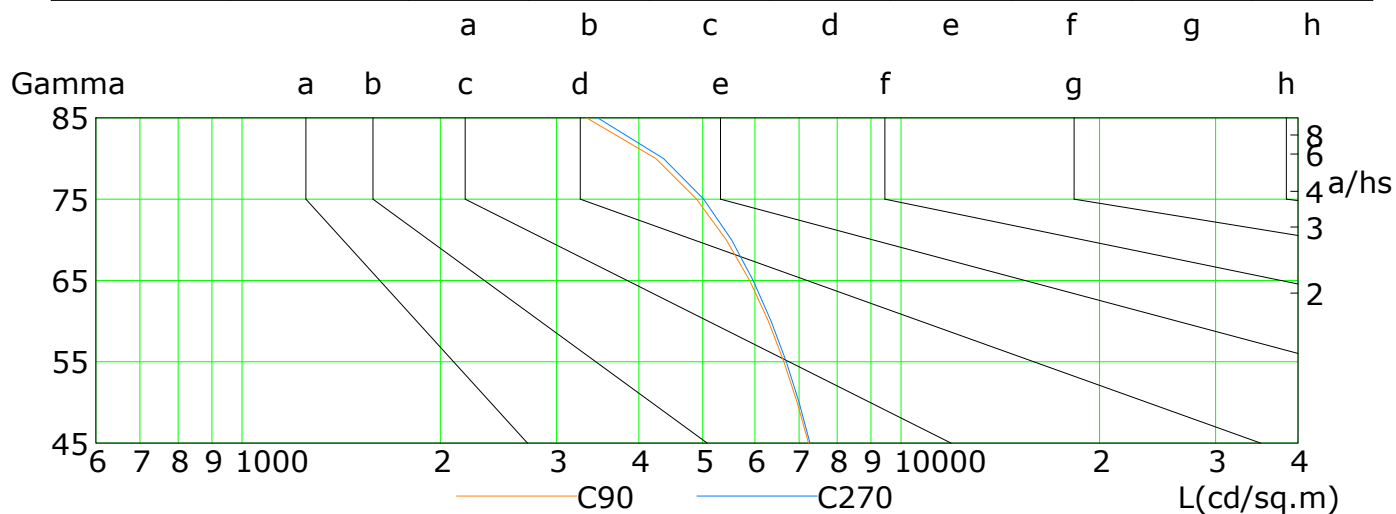


C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

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

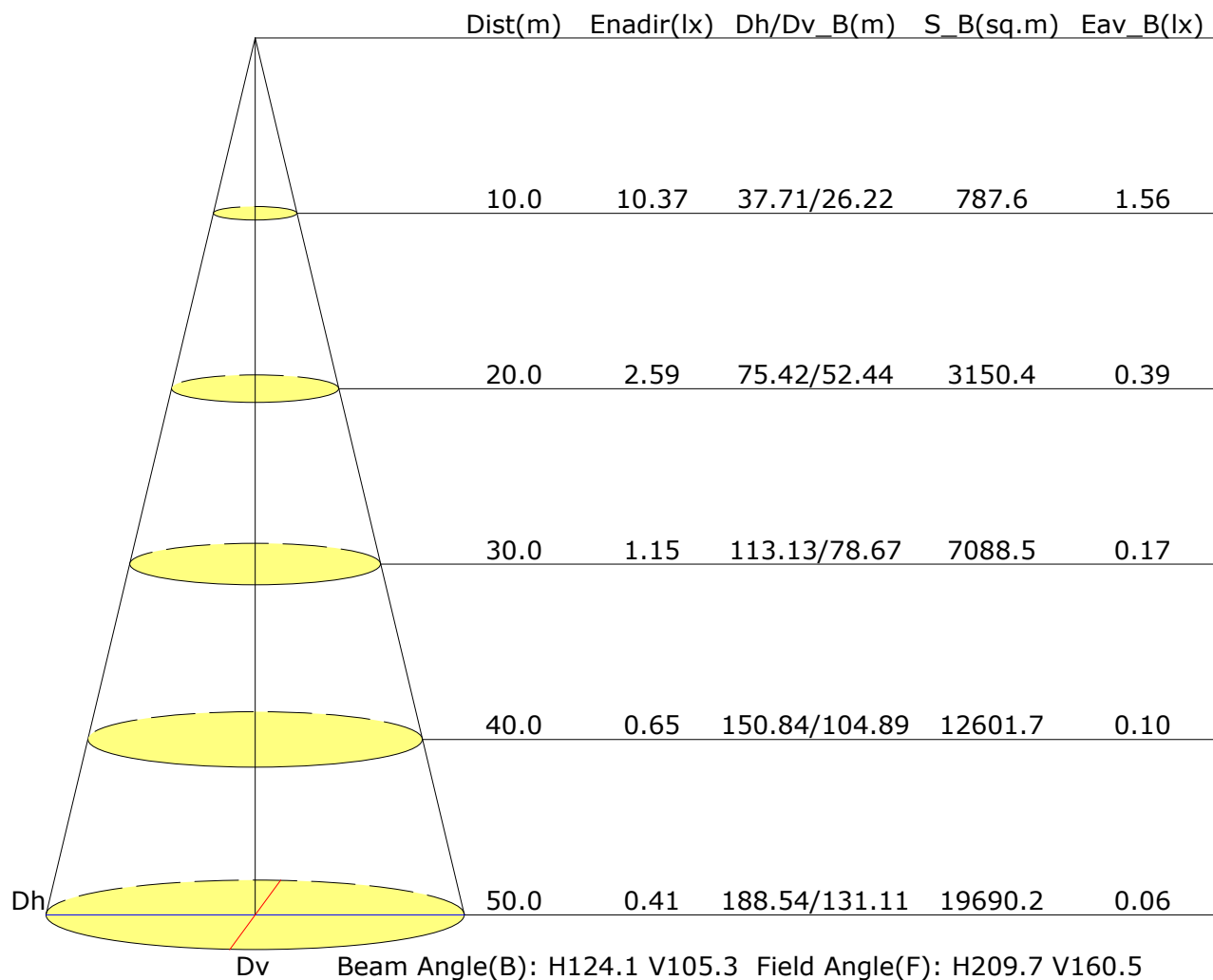


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6334	6069	5813	5553	5303	5068	4858	4689	4582
C90	7235	6953	6639	6287	5890	5429	4896	4245	3331
C180	6048	5763	5478	5190	4917	4662	4435	4232	4091
C270	7271	7002	6696	6349	5964	5530	5017	4360	3465

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

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

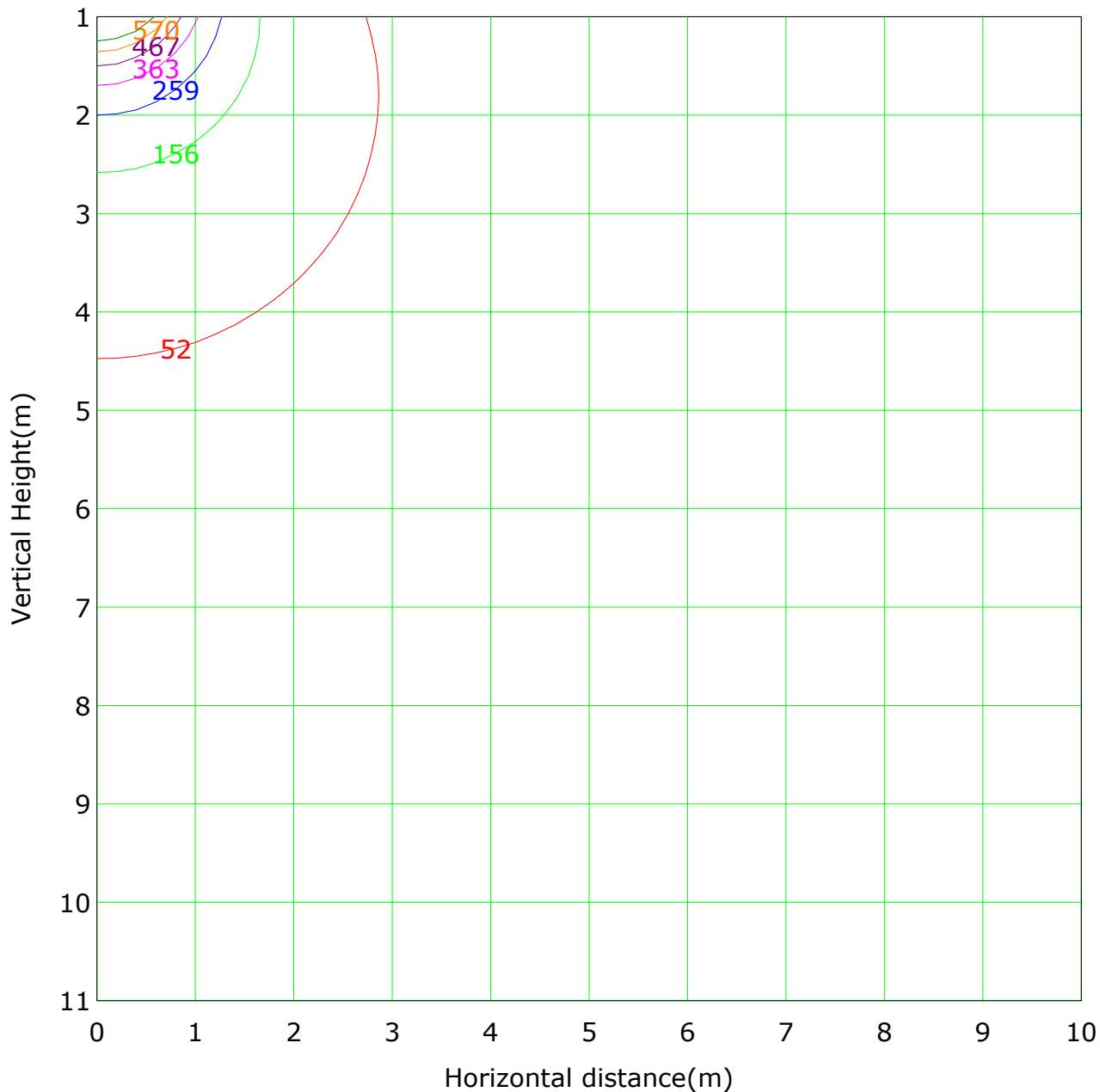
Illuminance at a Distance



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

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

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1037.0 lx

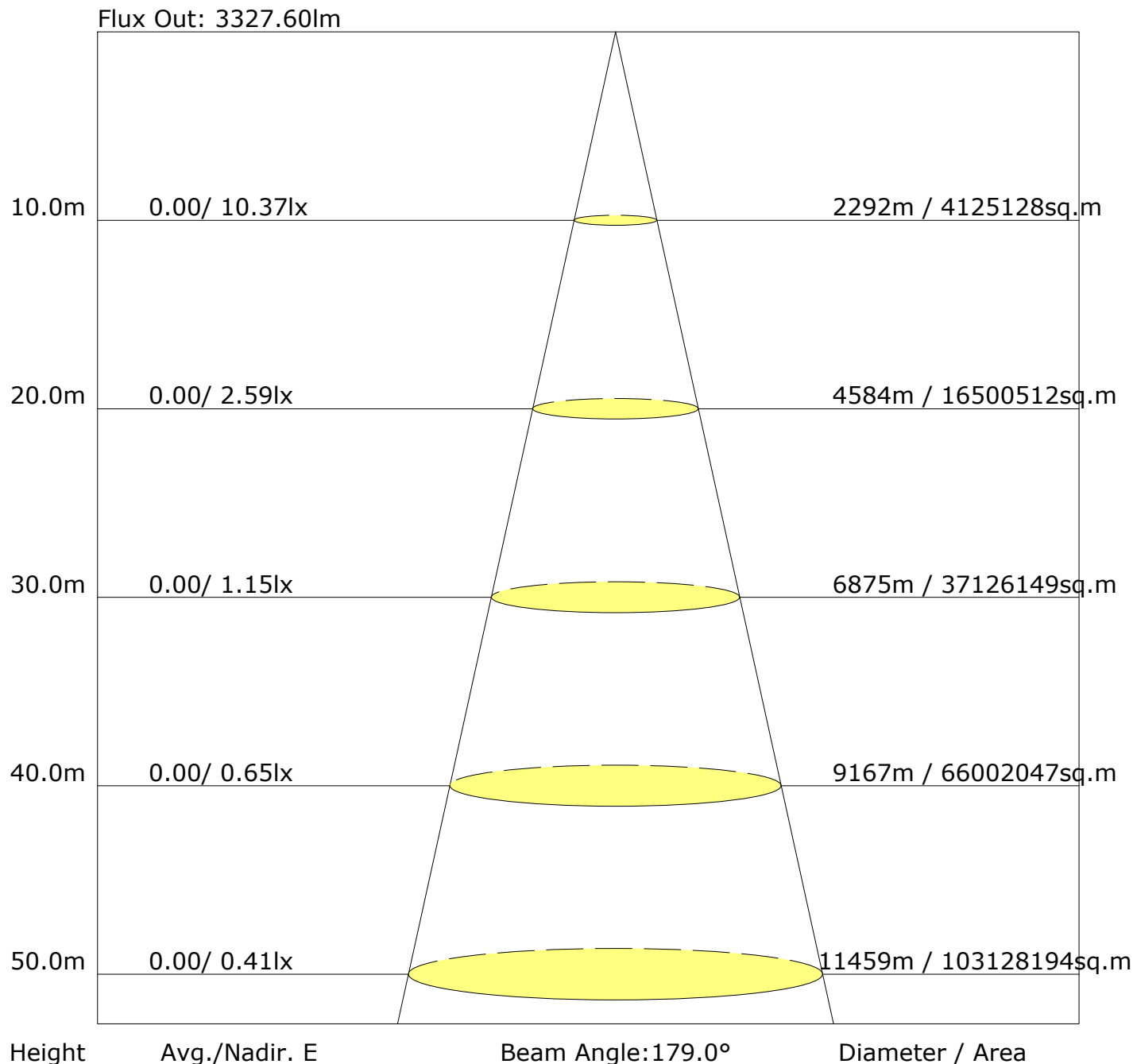
(5%): 51.8 lx	(15%): 155.5 lx
(25%): 259.2 lx	(35%): 362.9 lx
(45%): 466.6 lx	(55%): 570.3 lx
(65%): 674.0 lx	

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:

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

The Average Illuminance Effective Figure



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	18.5	19.8	18.9	20.2	20.6	18.0	19.4	18.4	19.7	20.1
3H	20.3	21.5	20.7	21.9	22.3	19.5	20.7	19.9	21.1	21.5
4H	21.2	22.3	21.6	22.7	23.2	20.1	21.2	20.5	21.6	22.1
6H	22.0	23.1	22.5	23.5	24.0	20.5	21.6	21.0	22.0	22.5
8H	22.4	23.4	22.9	23.9	24.4	20.7	21.7	21.1	22.1	22.6
12H	22.8	23.8	23.2	24.2	24.7	20.7	21.8	21.2	22.2	22.7
X=4H Y=2H	19.1	20.2	19.5	20.6	21.1	18.7	19.9	19.1	20.3	20.7
3H	21.1	22.1	21.6	22.6	23.0	20.3	21.3	20.8	21.8	22.3
4H	22.1	23.0	22.6	23.5	24.0	21.1	22.0	21.6	22.5	23.0
6H	23.1	23.9	23.7	24.4	25.0	21.6	22.5	22.2	23.0	23.5
8H	23.6	24.4	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.7
12H	24.1	24.8	24.6	25.3	25.9	22.0	22.7	22.6	23.2	23.8
X=8H Y=4H	22.4	23.2	23.0	23.7	24.3	21.5	22.2	22.0	22.8	23.3
6H	23.6	24.3	24.2	24.8	25.4	22.3	22.9	22.8	23.4	24.0
8H	24.3	24.8	24.8	25.4	26.0	22.6	23.1	23.2	23.7	24.3
12H	24.9	25.4	25.5	26.0	26.6	22.8	23.3	23.4	23.9	24.6
X=12H Y=4H	22.4	23.1	23.0	23.7	24.2	21.6	22.3	22.1	22.8	23.4
6H	23.7	24.3	24.3	24.8	25.5	22.4	23.0	23.0	23.5	24.2
8H	24.4	24.9	25.0	25.5	26.1	22.8	23.3	23.4	23.9	24.5
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					+0.3/-0.4				
S=2.0H	+0.5/-0.7					+0.5/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 3420lm ($8\log(F/F_0) = 4.3$).

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

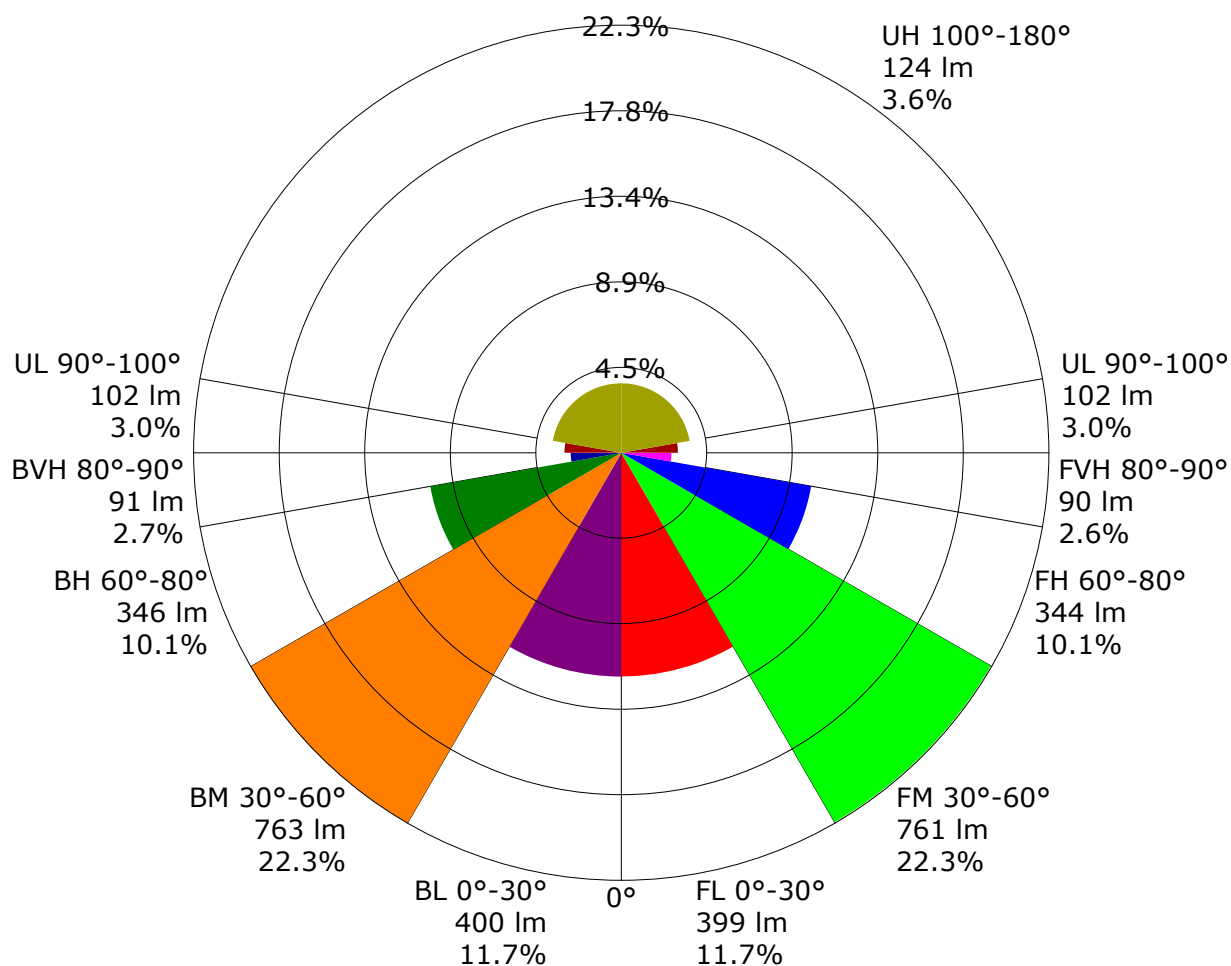
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1595	46.6
	FL (0°-30°)	399	11.7
	FM (30°-60°)	761	22.3
	FH (60°-80°)	344	10.1
	FVH (80°-90°)	90	2.6
	BACK LIGHT	1599	46.8
	BL (0°-30°)	400	11.7
	BM (30°-60°)	763	22.3
	BH (60°-80°)	346	10.1
	BVH (80°-90°)	91	2.7
	UP LIGHT	226	6.6
	UL (90°-100°)	102	3.0
	UH (100°-180°)	124	3.6
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 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	0.75	0.82	0.87	0.90	0.95	0.98	
	0.30		0.44	0.54	0.61	0.67	0.75	0.81	0.85	0.90	0.94	
	0.20		0.39	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.91	
0.50	0.50	0.20	0.50	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93	
	0.30		0.43	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90	
	0.20		0.38	0.47	0.54	0.59	0.67	0.73	0.77	0.83	0.86	
0.30	0.50	0.20	0.48	0.57	0.63	0.67	0.74	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	0.53	0.58	0.65	0.70	0.74	0.79	0.83	
0.00	0.00	0.00	0.34	0.43	0.49	0.53	0.60	0.65	0.68	0.73	0.76	
Rating:23W 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	0.65	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	0.34	0.28	0.23	
	0.20		0.72	0.63	0.56	0.50	0.42	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:23W 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	0.24	0.25	0.26	0.27	0.27	0.28	0.28	0.28	
	0.30		0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.25	0.25	
	0.20		0.11	0.12	0.14	0.15	0.17	0.18	0.20	0.21	0.22	
0.50	0.50	0.20	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.27	0.27	
	0.30		0.16	0.17	0.18	0.19	0.21	0.22	0.22	0.24	0.24	
	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	0.21	0.23	0.23	0.24	0.25	0.25	0.25	0.26	0.26	
	0.30		0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	
	0.20		0.11	0.12	0.13	0.14	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:23W 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	1034.6	1.0	1.0	0.03	0.03
1.0-2.0	1034.2	3.0	4.0	0.09	0.12
2.0-3.0	1033.5	4.9	8.9	0.14	0.26
3.0-4.0	1032.3	6.9	15.8	0.20	0.46
4.0-5.0	1030.6	8.9	24.7	0.26	0.72
5.0-6.0	1028.6	10.8	35.5	0.32	1.04
6.0-7.0	1026.3	12.7	48.2	0.37	1.41
7.0-8.0	1023.6	14.7	62.9	0.43	1.84
8.0-9.0	1020.4	16.5	79.4	0.48	2.32
9.0-10.0	1016.8	18.4	97.8	0.54	2.86
10.0-11.0	1012.9	20.2	118.1	0.59	3.45
11.0-12.0	1008.5	22.0	140.1	0.64	4.10
12.0-13.0	1004.0	23.8	163.9	0.70	4.79
13.0-14.0	998.8	25.6	189.5	0.75	5.54
14.0-15.0	993.3	27.3	216.8	0.80	6.34
15.0-16.0	987.4	28.9	245.7	0.85	7.18
16.0-17.0	981.2	30.6	276.3	0.89	8.08
17.0-18.0	975.0	32.1	308.4	0.94	9.02
18.0-19.0	968.1	33.7	342.1	0.98	10.00
19.0-20.0	960.8	35.2	377.3	1.03	11.03
20.0-21.0	953.6	36.6	413.9	1.07	12.10
21.0-22.0	945.7	38.0	451.9	1.11	13.21
22.0-23.0	937.5	39.3	491.3	1.15	14.36
23.0-24.0	928.9	40.6	531.9	1.19	15.55
24.0-25.0	920.0	41.8	573.7	1.22	16.77
25.0-26.0	911.3	43.0	616.7	1.26	18.03
26.0-27.0	901.9	44.1	660.9	1.29	19.32
27.0-28.0	892.2	45.2	706.0	1.32	20.64
28.0-29.0	882.6	46.2	752.2	1.35	21.99
29.0-30.0	872.3	47.1	799.3	1.38	23.37
30.0-31.0	861.7	48.0	847.3	1.40	24.77
31.0-32.0	850.9	48.8	896.0	1.43	26.20
32.0-33.0	839.9	49.5	945.5	1.45	27.64
33.0-34.0	828.9	50.2	995.7	1.47	29.11
34.0-35.0	817.2	50.8	1046.4	1.48	30.60
35.0-36.0	805.4	51.3	1097.7	1.50	32.09

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	793.6	51.8	1149.5	1.51	33.61
37.0-38.0	781.4	52.2	1201.7	1.53	35.13
38.0-39.0	769.3	52.5	1254.2	1.54	36.67
39.0-40.0	756.7	52.8	1307.0	1.54	38.21
40.0-41.0	743.8	53.0	1359.9	1.55	39.76
41.0-42.0	731.4	53.1	1413.1	1.55	41.31
42.0-43.0	718.2	53.2	1466.3	1.56	42.87
43.0-44.0	704.8	53.2	1519.5	1.56	44.43
44.0-45.0	691.7	53.2	1572.7	1.55	45.98
45.0-46.0	678.0	53.0	1625.7	1.55	47.53
46.0-47.0	664.5	52.9	1678.6	1.55	49.08
47.0-48.0	650.6	52.6	1731.2	1.54	50.61
48.0-49.0	636.7	52.3	1783.4	1.53	52.14
49.0-50.0	623.2	52.0	1835.4	1.52	53.66
50.0-51.0	609.0	51.5	1886.9	1.51	55.17
51.0-52.0	594.8	51.0	1938.0	1.49	56.66
52.0-53.0	580.9	50.5	1988.5	1.48	58.14
53.0-54.0	566.6	49.9	2038.5	1.46	59.60
54.0-55.0	552.5	49.3	2087.8	1.44	61.04
55.0-56.0	538.1	48.6	2136.4	1.42	62.46
56.0-57.0	523.8	47.9	2184.3	1.40	63.86
57.0-58.0	510.0	47.2	2231.5	1.38	65.24
58.0-59.0	495.5	46.3	2277.8	1.35	66.60
59.0-60.0	481.1	45.5	2323.3	1.33	67.93
60.0-61.0	466.8	44.6	2367.8	1.30	69.23
61.0-62.0	452.6	43.6	2411.4	1.28	70.50
62.0-63.0	439.0	42.7	2454.1	1.25	71.75
63.0-64.0	424.9	41.7	2495.8	1.22	72.97
64.0-65.0	410.8	40.7	2536.5	1.19	74.16
65.0-66.0	397.4	39.7	2576.2	1.16	75.32
66.0-67.0	383.7	38.6	2614.7	1.13	76.45
67.0-68.0	370.0	37.5	2652.2	1.10	77.54
68.0-69.0	356.5	36.4	2688.6	1.06	78.61
69.0-70.0	343.1	35.2	2723.8	1.03	79.64
70.0-71.0	330.3	34.1	2758.0	1.00	80.64
71.0-72.0	317.3	33.0	2791.0	0.96	81.60

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	304.5	31.8	2822.8	0.93	82.53
73.0-74.0	292.4	30.7	2853.6	0.90	83.43
74.0-75.0	279.9	29.6	2883.1	0.86	84.30
75.0-76.0	267.6	28.4	2911.6	0.83	85.13
76.0-77.0	255.5	27.2	2938.8	0.80	85.92
77.0-78.0	243.7	26.1	2964.9	0.76	86.68
78.0-79.0	232.6	25.0	2989.9	0.73	87.42
79.0-80.0	221.3	23.9	3013.7	0.70	88.11
80.0-81.0	210.2	22.7	3036.5	0.66	88.78
81.0-82.0	199.7	21.7	3058.1	0.63	89.41
82.0-83.0	189.2	20.6	3078.7	0.60	90.01
83.0-84.0	179.2	19.5	3098.2	0.57	90.58
84.0-85.0	169.2	18.5	3116.7	0.54	91.12
85.0-86.0	159.7	17.5	3134.2	0.51	91.63
86.0-87.0	150.9	16.5	3150.7	0.48	92.12
87.0-88.0	141.9	15.5	3166.2	0.45	92.57
88.0-89.0	133.3	14.6	3180.8	0.43	93.00
89.0-90.0	125.5	13.8	3194.6	0.40	93.40
90.0-91.0	118.3	13.0	3207.6	0.38	93.78
91.0-92.0	111.9	12.3	3219.8	0.36	94.14
92.0-93.0	105.6	11.6	3231.4	0.34	94.48
93.0-94.0	99.7	10.9	3242.3	0.32	94.80
94.0-95.0	94.4	10.3	3252.6	0.30	95.10
95.0-96.0	89.2	9.7	3262.4	0.28	95.38
96.0-97.0	84.3	9.2	3271.5	0.27	95.65
97.0-98.0	79.8	8.7	3280.2	0.25	95.90
98.0-99.0	75.4	8.2	3288.4	0.24	96.14
99.0-100.0	71.4	7.7	3296.1	0.23	96.37
100.0-101.0	67.3	7.3	3303.4	0.21	96.58
101.0-102.0	63.5	6.8	3310.2	0.20	96.78
102.0-103.0	60.0	6.4	3316.6	0.19	96.97
103.0-104.0	56.4	6.0	3322.7	0.18	97.14
104.0-105.0	53.0	5.6	3328.3	0.16	97.31
105.0-106.0	49.8	5.3	3333.5	0.15	97.46
106.0-107.0	46.8	4.9	3338.5	0.14	97.61
107.0-108.0	44.0	4.6	3343.1	0.13	97.74

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	41.1	4.3	3347.3	0.12	97.87
109.0-110.0	38.4	4.0	3351.3	0.12	97.98
110.0-111.0	36.0	3.7	3355.0	0.11	98.09
111.0-112.0	33.6	3.4	3358.4	0.10	98.19
112.0-113.0	31.5	3.2	3361.6	0.09	98.28
113.0-114.0	29.4	3.0	3364.6	0.09	98.37
114.0-115.0	27.4	2.7	3367.3	0.08	98.45
115.0-116.0	25.7	2.5	3369.9	0.07	98.53
116.0-117.0	24.0	2.4	3372.2	0.07	98.59
117.0-118.0	22.5	2.2	3374.4	0.06	98.66
118.0-119.0	21.1	2.0	3376.4	0.06	98.72
119.0-120.0	19.8	1.9	3378.3	0.06	98.77
120.0-121.0	18.5	1.8	3380.1	0.05	98.82
121.0-122.0	17.4	1.6	3381.7	0.05	98.87
122.0-123.0	16.3	1.5	3383.2	0.04	98.92
123.0-124.0	15.3	1.4	3384.6	0.04	98.96
124.0-125.0	14.4	1.3	3385.9	0.04	98.99
125.0-126.0	13.7	1.2	3387.1	0.04	99.03
126.0-127.0	13.0	1.1	3388.3	0.03	99.06
127.0-128.0	12.5	1.1	3389.4	0.03	99.10
128.0-129.0	12.2	1.0	3390.4	0.03	99.13
129.0-130.0	12.0	1.0	3391.4	0.03	99.16
130.0-131.0	11.9	1.0	3392.4	0.03	99.18
131.0-132.0	11.8	1.0	3393.4	0.03	99.21
132.0-133.0	11.8	1.0	3394.3	0.03	99.24
133.0-134.0	11.8	0.9	3395.3	0.03	99.27
134.0-135.0	11.9	0.9	3396.2	0.03	99.30
135.0-136.0	12.0	0.9	3397.1	0.03	99.32
136.0-137.0	12.1	0.9	3398.0	0.03	99.35
137.0-138.0	12.2	0.9	3398.9	0.03	99.38
138.0-139.0	12.2	0.9	3399.8	0.03	99.40
139.0-140.0	12.3	0.9	3400.7	0.03	99.43
140.0-141.0	12.4	0.9	3401.6	0.03	99.45
141.0-142.0	12.5	0.9	3402.4	0.02	99.48
142.0-143.0	12.6	0.8	3403.3	0.02	99.50
143.0-144.0	12.6	0.8	3404.1	0.02	99.53

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

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

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	12.7	0.8	3404.9	0.02	99.55
145.0-146.0	12.8	0.8	3405.7	0.02	99.57
146.0-147.0	12.9	0.8	3406.5	0.02	99.60
147.0-148.0	12.9	0.8	3407.2	0.02	99.62
148.0-149.0	13.0	0.7	3408.0	0.02	99.64
149.0-150.0	13.1	0.7	3408.7	0.02	99.66
150.0-151.0	13.2	0.7	3409.4	0.02	99.68
151.0-152.0	13.2	0.7	3410.1	0.02	99.70
152.0-153.0	13.3	0.7	3410.8	0.02	99.72
153.0-154.0	13.4	0.7	3411.4	0.02	99.74
154.0-155.0	13.4	0.6	3412.1	0.02	99.76
155.0-156.0	13.5	0.6	3412.7	0.02	99.78
156.0-157.0	13.5	0.6	3413.3	0.02	99.79
157.0-158.0	13.6	0.6	3413.9	0.02	99.81
158.0-159.0	13.7	0.5	3414.4	0.02	99.83
159.0-160.0	13.7	0.5	3414.9	0.02	99.84
160.0-161.0	13.8	0.5	3415.4	0.01	99.86
161.0-162.0	13.8	0.5	3415.9	0.01	99.87
162.0-163.0	13.9	0.5	3416.4	0.01	99.89
163.0-164.0	14.0	0.4	3416.8	0.01	99.90
164.0-165.0	14.0	0.4	3417.2	0.01	99.91
165.0-166.0	14.1	0.4	3417.6	0.01	99.92
166.0-167.0	14.1	0.4	3418.0	0.01	99.93
167.0-168.0	14.2	0.3	3418.3	0.01	99.94
168.0-169.0	14.3	0.3	3418.6	0.01	99.95
169.0-170.0	14.3	0.3	3418.9	0.01	99.96
170.0-171.0	14.4	0.3	3419.2	0.01	99.97
171.0-172.0	14.5	0.2	3419.4	0.01	99.97
172.0-173.0	14.6	0.2	3419.6	0.01	99.98
173.0-174.0	14.6	0.2	3419.8	0.01	99.99
174.0-175.0	14.7	0.2	3419.9	0.00	99.99
175.0-176.0	14.8	0.1	3420.1	0.00	99.99
176.0-177.0	14.8	0.1	3420.2	0.00	100.00
177.0-178.0	14.9	0.1	3420.2	0.00	100.00
178.0-179.0	14.9	0.0	3420.3	0.00	100.00
179.0-180.0	15.0	0.0	3420.3	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°): 1572.66 lm

%lum = 46.0%
%lamp = 46.0%

cone flux(120°): 2323.28 lm

%lum = 67.9%
%lamp = 67.9%

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	1037.0	1035.2	1034.6	1034.3	1033.6	1033.4	1037.0	1035.2	1034.6	1034.3
G1.0	1037.5	1035.4	1035.0	1034.0	1033.0	1032.7	1036.1	1034.9	1034.4	1034.2
G2.0	1037.4	1035.1	1034.3	1033.3	1032.6	1031.9	1035.6	1034.2	1033.4	1033.7
G3.0	1037.1	1034.5	1033.4	1032.3	1031.2	1030.6	1034.1	1032.6	1032.3	1032.8
G4.0	1036.5	1033.8	1032.0	1030.6	1029.1	1028.6	1032.8	1031.0	1030.6	1030.9
G5.0	1034.9	1032.4	1030.1	1028.8	1027.0	1027.1	1030.5	1029.2	1028.5	1028.9
G6.0	1033.3	1030.6	1028.4	1025.8	1024.5	1024.7	1028.1	1026.8	1025.9	1026.5
G7.0	1031.8	1028.8	1025.6	1022.8	1021.8	1022.3	1025.4	1024.0	1022.8	1023.7
G8.0	1029.8	1026.6	1022.5	1019.7	1018.5	1019.0	1022.3	1020.9	1019.4	1020.2
G9.0	1027.1	1023.7	1018.9	1015.0	1014.2	1015.4	1018.9	1017.6	1016.1	1016.7
G10.0	1024.3	1020.7	1015.2	1011.1	1010.3	1011.7	1015.2	1013.7	1012.3	1012.7
G11.0	1021.3	1017.0	1010.6	1006.4	1005.4	1007.6	1011.2	1009.7	1007.0	1007.5
G12.0	1017.8	1013.4	1005.9	1001.1	1000.4	1003.4	1006.6	1005.4	1002.4	1002.5
G13.0	1014.2	1009.4	1001.4	995.7	995.0	998.7	1002.4	1000.7	997.2	997.4
G14.0	1010.0	1004.4	995.9	988.9	988.3	993.2	997.3	995.5	991.0	990.7
G15.0	1005.4	999.7	989.8	982.7	982.3	987.9	992.1	990.0	985.0	984.8
G16.0	1000.5	994.4	983.3	975.2	975.3	981.7	986.2	983.3	978.0	977.5
G17.0	995.7	988.8	976.8	968.5	968.3	975.7	980.7	977.8	971.5	970.6
G18.0	990.3	983.4	969.9	961.1	961.4	969.6	974.7	971.6	964.6	963.3
G19.0	984.6	976.7	962.4	952.5	952.9	962.4	968.2	964.5	956.4	954.7
G20.0	979.3	970.5	954.8	944.1	945.5	955.3	961.9	957.7	948.5	946.4
G21.0	973.1	964.0	946.8	935.5	937.3	948.0	955.3	950.6	940.2	938.6
G22.0	966.5	956.9	938.0	925.8	928.0	940.1	947.7	942.6	931.2	928.7
G23.0	959.8	949.1	929.7	916.5	919.0	932.7	940.6	934.7	922.7	919.6
G24.0	952.6	941.3	919.6	905.8	908.8	923.9	932.1	926.3	912.5	908.8
G25.0	946.0	933.4	910.8	896.0	899.5	915.4	924.8	918.1	903.3	899.2
G26.0	938.5	926.2	900.8	885.4	889.4	907.1	916.9	909.3	893.8	889.5
G27.0	930.8	916.8	890.6	874.0	879.0	897.6	908.4	899.9	882.8	877.6
G28.0	922.9	908.5	881.0	863.3	868.0	888.8	899.9	890.8	872.5	866.9
G29.0	915.0	899.8	870.3	852.3	857.6	878.8	891.5	881.6	861.6	856.0
G30.0	905.8	890.0	858.9	840.2	845.3	868.7	881.7	871.5	850.2	843.3
G31.0	897.8	880.8	847.7	828.1	834.3	858.5	873.0	861.6	839.2	831.9
G32.0	888.1	870.1	835.8	814.9	822.3	848.3	862.7	850.9	826.4	819.1
G33.0	879.3	860.7	824.6	802.5	810.1	838.3	853.3	840.3	815.3	806.7
G34.0	870.4	850.4	812.5	790.4	798.3	827.5	843.3	829.5	803.0	793.9
G35.0	860.2	839.9	800.1	776.3	785.0	815.6	832.6	818.3	789.4	779.8
G36.0	851.2	829.3	787.6	763.7	772.6	805.3	821.8	807.6	777.2	766.5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	840.9	818.8	775.2	749.9	760.0	793.8	810.7	795.3	763.7	752.8
G38.0	830.5	807.0	761.9	735.6	746.3	782.1	799.9	784.6	751.2	739.7
G39.0	819.8	796.3	749.4	721.5	733.1	770.1	789.7	773.1	738.5	726.1
G40.0	808.6	783.8	735.3	707.1	719.1	757.7	777.8	760.5	724.0	711.2
G41.0	797.7	772.9	722.5	692.6	705.3	745.7	766.3	748.5	710.9	697.1
G42.0	787.3	761.1	708.9	678.7	692.3	733.9	755.2	736.5	697.3	683.3
G43.0	775.0	748.5	694.6	663.2	677.1	720.5	742.5	723.7	682.8	667.1
G44.0	764.3	736.5	680.7	648.6	663.9	708.6	731.2	711.5	669.5	653.1
G45.0	752.5	724.6	667.0	634.3	649.8	695.8	718.4	697.8	654.1	637.5
G46.0	740.5	711.3	652.4	618.6	634.9	682.6	706.2	685.1	640.4	622.7
G47.0	728.5	699.2	638.3	603.6	620.4	669.6	693.8	672.7	626.2	607.4
G48.0	716.3	685.3	623.3	587.8	605.5	655.8	680.7	658.6	611.2	591.6
G49.0	703.5	673.2	609.6	572.3	591.0	643.0	668.9	646.0	596.7	576.3
G50.0	691.3	660.4	595.3	557.6	577.1	630.3	656.4	632.4	583.0	561.5
G51.0	678.5	646.8	579.5	540.9	561.1	615.8	643.5	618.8	567.1	544.8
G52.0	666.0	633.5	565.7	525.3	546.6	603.1	630.7	606.4	553.0	530.0
G53.0	654.4	620.8	551.1	510.5	532.4	589.9	617.5	591.8	537.7	513.6
G54.0	640.7	606.7	536.0	493.6	517.1	576.1	604.5	579.1	522.9	497.9
G55.0	628.7	594.0	521.3	478.7	502.2	562.7	592.4	565.8	508.8	482.8
G56.0	615.0	579.9	506.1	461.6	486.4	548.3	578.3	551.9	492.4	465.7
G57.0	602.9	567.3	491.4	446.6	472.1	535.7	566.0	538.5	478.3	450.7
G58.0	590.1	553.5	476.8	431.0	457.4	522.4	553.3	526.0	463.9	434.8
G59.0	576.3	539.9	460.9	414.0	441.3	508.1	540.0	511.7	448.4	418.6
G60.0	564.0	526.6	447.0	399.0	426.8	494.9	527.1	499.2	433.9	402.9
G61.0	550.2	512.3	431.1	381.9	411.4	481.1	513.9	485.5	418.5	386.4
G62.0	537.7	500.1	417.5	366.6	397.0	468.2	501.7	472.3	403.8	371.3
G63.0	525.5	487.0	402.9	351.6	383.1	455.9	489.1	460.0	389.9	355.7
G64.0	511.6	473.2	388.0	334.8	367.5	441.7	476.0	445.9	375.2	339.5
G65.0	499.6	460.7	373.7	320.1	353.8	429.4	463.3	433.6	360.8	324.1
G66.0	487.1	448.4	360.3	304.8	339.8	416.7	451.3	420.7	347.6	309.4
G67.0	474.0	434.2	345.1	288.9	325.4	403.8	438.6	407.6	332.4	293.5
G68.0	461.7	422.3	332.0	273.7	311.8	391.3	426.5	395.9	319.4	278.4
G69.0	448.7	408.7	317.1	258.2	297.9	378.6	413.7	382.2	305.4	262.5
G70.0	436.6	397.0	303.8	243.2	284.7	366.3	401.6	370.8	292.0	247.8
G71.0	424.7	384.5	291.3	228.8	271.6	354.4	390.3	358.8	279.7	233.7
G72.0	411.9	371.9	277.3	213.7	258.2	342.0	377.6	346.4	265.6	218.3
G73.0	400.3	359.9	265.1	199.4	245.7	330.8	366.5	334.8	253.7	203.9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	389.3	348.4	252.8	185.9	234.0	319.2	355.9	323.6	241.5	189.8
G75.0	376.1	336.1	240.0	171.0	221.0	307.6	343.4	311.2	228.9	175.2
G76.0	365.2	324.6	228.1	158.0	209.8	296.4	332.3	300.6	217.1	161.4
G77.0	352.7	312.7	216.0	143.5	197.4	284.7	320.8	288.8	205.0	147.4
G78.0	342.2	301.5	204.6	131.1	186.7	274.4	310.0	278.3	194.0	134.1
G79.0	331.2	291.0	193.9	118.6	175.8	263.9	299.8	267.9	183.7	121.8
G80.0	319.4	279.5	182.1	105.2	165.0	253.3	288.3	257.2	172.1	108.0
G81.0	309.0	269.3	171.9	93.6	155.0	243.1	278.3	247.0	162.4	96.3
G82.0	298.4	258.9	162.1	81.9	145.7	233.3	267.4	236.6	151.6	83.5
G83.0	287.7	248.3	151.4	70.1	135.3	223.1	258.2	226.9	142.6	72.4
G84.0	277.4	238.4	142.3	59.1	126.5	213.7	248.3	217.8	133.5	61.2
G85.0	267.0	227.7	132.2	48.1	117.3	204.1	238.4	207.9	124.3	50.0
G86.0	257.6	218.6	123.8	38.0	109.4	195.1	229.1	199.4	115.9	39.9
G87.0	248.1	209.9	115.3	28.8	101.2	187.1	220.4	190.8	108.2	30.5
G88.0	237.8	200.1	107.0	18.9	92.6	177.7	210.6	181.8	99.8	20.6
G89.0	229.0	191.3	99.2	11.5	86.5	169.9	202.4	173.7	92.8	12.6
G90.0	220.0	183.2	92.1	7.6	78.8	161.3	193.4	164.8	85.7	6.6
G91.0	210.7	174.0	84.6	7.0	72.0	152.8	185.1	156.9	79.1	5.6
G92.0	202.2	166.1	77.8	6.5	66.4	145.4	177.1	149.6	72.8	5.3
G93.0	193.0	157.6	70.6	5.9	60.6	137.3	168.9	141.6	66.9	5.1
G94.0	184.7	149.8	65.3	5.5	55.5	130.7	161.6	135.2	62.0	4.8
G95.0	176.8	142.4	60.6	5.1	50.8	125.0	154.9	128.9	57.4	4.7
G96.0	168.0	134.9	55.4	4.8	45.6	118.6	147.6	122.4	52.8	4.8
G97.0	161.0	128.5	51.1	4.7	41.6	112.8	141.5	116.3	48.6	4.8
G98.0	154.1	122.8	47.0	4.5	37.3	107.2	134.5	110.2	44.5	4.9
G99.0	147.3	116.4	43.0	4.5	33.1	101.5	128.8	104.8	41.2	5.1
G100.0	140.9	110.9	39.6	4.5	29.6	96.1	122.9	99.3	37.8	5.3
G101.0	134.3	104.9	35.6	4.7	26.8	90.7	116.6	93.8	34.3	5.3
G102.0	128.3	99.8	32.4	4.8	24.4	86.6	111.3	88.6	31.4	5.4
G103.0	122.8	94.8	29.3	5.0	21.7	81.0	105.8	84.2	28.6	5.6
G104.0	116.5	89.4	26.6	5.1	19.3	75.8	100.2	78.8	26.0	5.8
G105.0	110.9	85.1	24.1	5.3	17.0	71.0	94.9	74.4	23.4	5.9
G106.0	105.4	79.9	21.6	5.4	14.5	66.4	89.7	69.6	21.1	6.1
G107.0	100.2	75.4	19.9	5.7	13.3	61.8	85.0	65.6	18.8	6.2
G108.0	95.2	71.0	18.2	5.8	11.6	57.8	80.4	61.5	16.5	6.3
G109.0	89.6	66.7	16.2	6.0	10.0	53.3	75.5	57.4	14.3	6.5
G110.0	86.0	62.8	14.2	6.2	9.3	49.4	71.4	53.7	12.6	6.7

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 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	80.4	59.0	12.7	6.2	8.5	45.5	67.2	50.1	11.3	6.8
G112.0	75.8	55.3	11.2	6.4	8.2	42.3	62.7	46.3	10.2	7.0
G113.0	71.5	51.6	10.1	6.5	8.2	38.5	59.0	43.1	9.9	7.1
G114.0	67.2	48.0	9.0	6.7	8.4	34.2	55.0	38.3	9.8	7.3
G115.0	63.5	44.5	8.6	6.8	8.4	31.4	51.1	35.0	9.8	7.5
G116.0	59.6	40.7	8.7	7.0	8.6	28.6	47.7	32.1	9.8	7.5
G117.0	55.5	36.7	8.8	7.1	8.7	25.8	43.9	29.2	9.9	7.8
G118.0	52.0	33.6	8.8	7.3	8.9	23.5	40.9	26.7	10.0	7.9
G119.0	48.5	30.8	8.9	7.4	8.9	21.3	37.7	24.4	10.0	8.0
G120.0	44.6	28.1	9.1	7.6	9.1	19.0	34.7	21.9	10.1	8.2
G121.0	41.8	25.7	9.2	7.8	9.2	17.4	31.7	19.9	10.1	8.4
G122.0	38.3	23.2	9.4	8.0	9.3	15.7	28.8	17.7	10.2	8.6
G123.0	35.4	21.3	9.5	8.2	9.4	14.1	26.0	15.9	10.3	8.8
G124.0	32.7	19.2	9.6	8.3	9.5	13.0	23.6	14.5	10.4	8.9
G125.0	29.7	17.2	9.8	8.5	9.6	12.0	21.2	13.5	10.4	9.1
G126.0	27.2	15.5	9.9	8.6	9.7	11.8	18.9	12.9	10.5	9.2
G127.0	24.5	14.1	9.9	8.8	9.9	11.9	16.8	12.8	10.6	9.4
G128.0	22.0	12.9	10.1	9.0	9.9	11.9	15.3	12.8	10.7	9.5
G129.0	19.8	12.4	10.2	9.1	10.0	12.0	14.0	12.9	10.7	9.6
G130.0	17.7	12.3	10.3	9.3	10.2	12.2	13.9	12.9	10.8	9.9
G131.0	15.8	12.4	10.4	9.5	10.2	12.0	13.7	13.0	10.9	10.0
G132.0	14.4	12.5	10.5	9.6	10.3	12.3	13.8	13.0	11.0	10.1
G133.0	13.6	12.5	10.6	9.9	10.4	12.4	13.9	13.1	11.0	10.4
G134.0	13.5	12.6	10.7	10.0	10.4	12.5	13.9	13.1	11.1	10.4
G135.0	13.6	12.6	10.8	10.2	10.6	12.4	13.9	13.1	11.3	10.6
G136.0	13.6	12.7	11.0	10.3	10.7	12.6	13.9	13.2	11.3	10.8
G137.0	13.7	12.8	11.1	10.4	10.8	12.7	13.9	13.2	11.4	10.9
G138.0	13.7	12.9	11.2	10.5	10.8	12.7	13.9	13.3	11.5	11.1
G139.0	13.7	12.9	11.2	10.7	11.0	12.7	13.9	13.3	11.5	11.1
G140.0	13.8	12.9	11.4	10.9	11.0	12.8	13.9	13.3	11.7	11.4
G141.0	13.8	13.0	11.5	11.0	11.1	12.8	13.9	13.5	11.8	11.5
G142.0	13.9	13.1	11.6	11.1	11.3	12.9	13.9	13.4	11.8	11.6
G143.0	13.9	13.1	11.7	11.3	11.3	12.9	13.9	13.5	12.0	11.8
G144.0	13.9	13.2	11.9	11.4	11.4	12.9	13.9	13.5	12.1	11.9
G145.0	13.9	13.3	12.1	11.6	11.5	13.1	13.9	13.5	12.2	12.1
G146.0	13.9	13.4	12.1	11.7	11.6	13.1	13.9	13.6	12.3	12.2
G147.0	13.9	13.4	12.3	11.8	11.7	13.1	13.9	13.5	12.4	12.4

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 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	13.9	13.5	12.4	12.0	11.9	13.1	13.9	13.6	12.5	12.4
G149.0	13.9	13.5	12.5	12.2	12.0	13.2	13.9	13.6	12.6	12.6
G150.0	13.9	13.6	12.6	12.4	12.1	13.3	13.9	13.7	12.7	12.8
G151.0	13.9	13.6	12.7	12.5	12.2	13.3	13.9	13.7	12.8	12.9
G152.0	13.9	13.6	12.9	12.6	12.3	13.3	13.9	13.7	12.9	13.1
G153.0	13.9	13.6	12.9	12.8	12.5	13.3	13.9	13.6	13.1	13.2
G154.0	13.9	13.7	13.0	12.9	12.6	13.3	13.9	13.7	13.1	13.3
G155.0	13.9	13.8	13.1	13.1	12.7	13.3	13.9	13.6	13.1	13.4
G156.0	13.9	13.8	13.2	13.1	12.8	13.3	13.9	13.7	13.2	13.5
G157.0	14.0	13.9	13.4	13.3	12.9	13.3	13.9	13.6	13.4	13.6
G158.0	13.9	14.0	13.4	13.5	13.0	13.3	13.9	13.7	13.5	13.8
G159.0	13.9	14.0	13.5	13.5	13.1	13.5	13.9	13.6	13.5	13.9
G160.0	13.9	14.0	13.6	13.7	13.3	13.4	13.9	13.8	13.5	14.0
G161.0	14.0	14.1	13.6	13.7	13.3	13.5	13.9	13.8	13.6	14.1
G162.0	13.9	14.0	13.8	13.9	13.4	13.6	13.9	13.9	13.7	14.0
G163.0	14.0	14.1	14.0	14.1	13.6	13.6	13.9	14.0	13.9	14.0
G164.0	14.1	14.0	14.0	14.0	13.6	13.7	13.9	14.0	14.0	14.3
G165.0	14.1	14.1	14.0	14.0	13.7	13.7	13.9	14.0	14.0	14.4
G166.0	14.1	14.1	14.0	14.0	13.8	13.9	14.0	14.0	14.0	14.4
G167.0	14.3	14.2	14.0	14.2	14.0	14.1	13.9	14.1	14.0	14.5
G168.0	14.3	14.3	14.1	14.3	14.0	14.0	14.0	14.1	14.0	14.6
G169.0	14.3	14.4	14.2	14.5	14.0	14.1	14.2	14.2	14.3	14.6
G170.0	14.3	14.5	14.3	14.5	14.1	14.1	14.2	14.3	14.3	14.8
G171.0	14.5	14.5	14.4	14.6	14.3	14.1	14.3	14.3	14.4	14.8
G172.0	14.5	14.5	14.5	14.7	14.4	14.1	14.4	14.3	14.6	14.8
G173.0	14.5	14.6	14.6	14.8	14.6	14.1	14.4	14.5	14.7	14.9
G174.0	14.6	14.7	14.6	14.9	14.7	14.5	14.4	14.6	14.8	14.9
G175.0	14.7	14.6	14.8	14.9	14.8	14.7	14.7	14.6	14.8	14.9
G176.0	14.8	14.7	14.8	14.9	14.8	14.8	14.7	14.8	14.8	14.9
G177.0	14.8	14.8	14.8	14.9	14.9	14.9	14.8	15.0	14.9	14.9
G178.0	14.8	14.8	14.9	15.0	14.9	14.9	14.8	15.0	15.0	15.0
G179.0	14.9	14.9	14.9	15.0	14.9	14.9	15.1	15.0	15.0	15.0
G180.0	15.0	14.9	15.0	15.0	14.9	15.0	15.1	14.9	15.0	15.0

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1033.6	1033.4	1037.0							
G1.0	1033.6	1033.1	1037.5							
G2.0	1033.2	1032.9	1037.4							
G3.0	1032.5	1032.3	1037.1							
G4.0	1031.4	1031.1	1036.5							
G5.0	1029.5	1030.1	1034.9							
G6.0	1027.3	1028.2	1033.3							
G7.0	1025.2	1026.4	1031.8							
G8.0	1022.2	1023.8	1029.8							
G9.0	1018.7	1021.2	1027.1							
G10.0	1015.0	1017.9	1024.3							
G11.0	1011.0	1014.2	1021.3							
G12.0	1006.1	1010.9	1017.8							
G13.0	1001.6	1006.7	1014.2							
G14.0	995.5	1001.5	1010.0							
G15.0	990.1	997.2	1005.4							
G16.0	983.5	991.2	1000.5							
G17.0	977.1	986.2	995.7							
G18.0	970.4	980.9	990.3							
G19.0	962.5	974.1	984.6							
G20.0	955.2	968.0	979.3							
G21.0	947.7	961.1	973.1							
G22.0	938.4	953.6	966.5							
G23.0	930.4	946.8	959.8							
G24.0	920.9	938.8	952.6							
G25.0	911.3	931.0	946.0							
G26.0	902.0	923.2	938.5							
G27.0	891.5	913.7	930.8							
G28.0	881.2	905.2	922.9							
G29.0	871.4	896.8	915.0							
G30.0	859.5	886.8	905.8							
G31.0	848.7	877.5	897.8							
G32.0	836.8	867.8	888.1							
G33.0	824.9	857.4	879.3							
G34.0	813.0	847.1	870.4							
G35.0	800.4	836.3	860.2							
G36.0	787.8	825.8	851.2							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	774.6	814.4	840.9							
G38.0	762.0	803.4	830.5							
G39.0	749.5	792.9	819.8							
G40.0	735.5	780.2	808.6							
G41.0	722.2	769.4	797.7							
G42.0	709.7	757.9	787.3							
G43.0	694.3	744.5	775.0							
G44.0	681.1	732.8	764.3							
G45.0	666.7	719.8	752.5							
G46.0	652.2	707.5	740.5							
G47.0	638.2	695.6	728.5							
G48.0	623.2	681.9	716.3							
G49.0	609.4	669.7	703.5							
G50.0	594.8	656.7	691.3							
G51.0	579.5	643.4	678.5							
G52.0	565.1	629.7	666.0							
G53.0	549.7	615.9	654.4							
G54.0	535.1	602.8	640.7							
G55.0	521.0	590.0	628.7							
G56.0	505.7	575.5	615.0							
G57.0	490.8	563.2	602.9							
G58.0	476.7	549.8	590.1							
G59.0	460.5	536.2	576.3							
G60.0	445.8	523.0	564.0							
G61.0	430.5	509.3	550.2							
G62.0	416.4	496.7	537.7							
G63.0	402.0	483.8	525.5							
G64.0	386.9	470.0	511.6							
G65.0	372.5	456.8	499.6							
G66.0	358.8	444.8	487.1							
G67.0	343.5	431.5	474.0							
G68.0	330.0	418.9	461.7							
G69.0	315.7	405.9	448.7							
G70.0	302.0	393.5	436.6							
G71.0	289.6	381.5	424.7							
G72.0	275.9	368.3	411.9							
G73.0	263.1	356.8	400.3							

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: 9.010 m

Humidity:

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	251.1	345.1	389.3							
G75.0	237.4	332.9	376.1							
G76.0	225.3	321.9	365.2							
G77.0	213.1	309.5	352.7							
G78.0	201.9	298.3	342.2							
G79.0	190.7	287.8	331.2							
G80.0	178.6	276.0	319.4							
G81.0	168.6	266.0	309.0							
G82.0	157.3	254.5	298.4							
G83.0	147.8	244.9	287.7							
G84.0	138.2	235.0	277.4							
G85.0	128.5	224.8	267.0							
G86.0	119.7	215.6	257.6							
G87.0	111.5	206.9	248.1							
G88.0	102.6	196.9	237.8							
G89.0	95.2	188.4	229.0							
G90.0	86.6	179.2	220.0							
G91.0	80.3	171.3	210.7							
G92.0	73.3	163.1	202.2							
G93.0	66.5	154.8	193.0							
G94.0	61.0	146.9	184.7							
G95.0	56.4	139.7	176.8							
G96.0	51.7	132.1	168.0							
G97.0	47.9	126.3	161.0							
G98.0	43.2	119.8	154.1							
G99.0	40.7	114.3	147.3							
G100.0	37.2	108.5	140.9							
G101.0	33.5	102.7	134.3							
G102.0	30.1	97.8	128.3							
G103.0	27.6	92.8	122.8							
G104.0	24.7	87.3	116.5							
G105.0	22.5	83.0	110.9							
G106.0	20.5	78.1	105.4							
G107.0	18.6	73.7	100.2							
G108.0	17.0	69.5	95.2							
G109.0	15.2	65.0	89.6							
G110.0	13.7	61.1	86.0							

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 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	12.1	57.5	80.4							
G112.0	10.6	53.6	75.8							
G113.0	9.5	50.3	71.5							
G114.0	8.8	46.7	67.2							
G115.0	8.8	43.2	63.5							
G116.0	8.8	39.2	59.6							
G117.0	9.0	35.6	55.5							
G118.0	9.2	32.7	52.0							
G119.0	9.3	30.0	48.5							
G120.0	9.3	27.5	44.6							
G121.0	9.5	25.2	41.8							
G122.0	9.6	22.8	38.3							
G123.0	9.8	20.7	35.4							
G124.0	9.9	18.8	32.7							
G125.0	10.1	16.9	29.7							
G126.0	10.2	15.3	27.2							
G127.0	10.3	13.9	24.5							
G128.0	10.4	13.0	22.0							
G129.0	10.6	12.8	19.8							
G130.0	10.7	12.8	17.7							
G131.0	10.8	12.8	15.8							
G132.0	10.9	12.8	14.4							
G133.0	11.0	12.9	13.6							
G134.0	11.1	13.0	13.5							
G135.0	11.2	13.1	13.6							
G136.0	11.4	13.2	13.6							
G137.0	11.5	13.2	13.7							
G138.0	11.6	13.3	13.7							
G139.0	11.7	13.4	13.7							
G140.0	11.9	13.4	13.8							
G141.0	11.9	13.5	13.8							
G142.0	12.1	13.5	13.9							
G143.0	12.2	13.5	13.9							
G144.0	12.3	13.6	13.9							
G145.0	12.5	13.7	13.9							
G146.0	12.5	13.8	13.9							
G147.0	12.6	13.8	13.9							

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	12.8	13.8	13.9							
G149.0	12.9	13.9	13.9							
G150.0	13.0	13.9	13.9							
G151.0	13.1	14.0	13.9							
G152.0	13.1	14.1	13.9							
G153.0	13.3	14.1	13.9							
G154.0	13.4	14.1	13.9							
G155.0	13.4	14.1	13.9							
G156.0	13.5	14.1	13.9							
G157.0	13.7	14.1	14.0							
G158.0	13.7	14.1	13.9							
G159.0	13.8	14.1	13.9							
G160.0	13.9	14.1	13.9							
G161.0	14.0	14.2	14.0							
G162.0	14.0	14.2	13.9							
G163.0	14.0	14.3	14.0							
G164.0	14.1	14.3	14.1							
G165.0	14.3	14.3	14.1							
G166.0	14.2	14.4	14.1							
G167.0	14.4	14.4	14.3							
G168.0	14.4	14.6	14.3							
G169.0	14.5	14.5	14.3							
G170.0	14.5	14.6	14.3							
G171.0	14.6	14.6	14.5							
G172.0	14.6	14.7	14.5							
G173.0	14.7	14.7	14.5							
G174.0	14.8	14.7	14.6							
G175.0	14.7	14.7	14.7							
G176.0	14.8	14.8	14.8							
G177.0	14.9	14.8	14.8							
G178.0	14.9	14.8	14.8							
G179.0	15.0	14.9	14.9							
G180.0	14.9	15.0	15.0							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 9.010 m

Humidity:

Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	9493.40
L 0-180(75) av	11583.71
L 0-180(85) av	24164.13
L 90-270(65) av	6350.79
L 90-270(75) av	5572.75
L 90-270(85) av	4692.75
L 45(65) av	7989.33
L 45(75) av	8915.38
L 45(85) av	16336.66

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