智能環球企業有限公司
www.ilighting.com.hk
Tel:Tel:852-35863418
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Report No.: Test Time: 2014/10/23 14:04

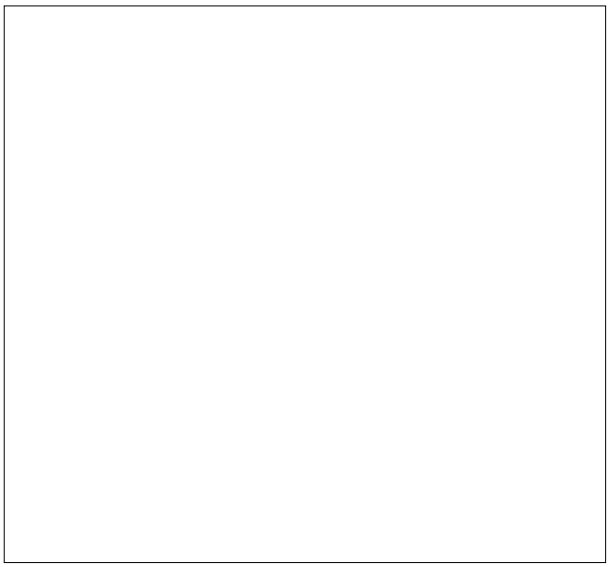
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: LB-A50-H108B6 Voltage: 220V
Current: 0.235A Power: 50.80 W
Power Factor: 0.983

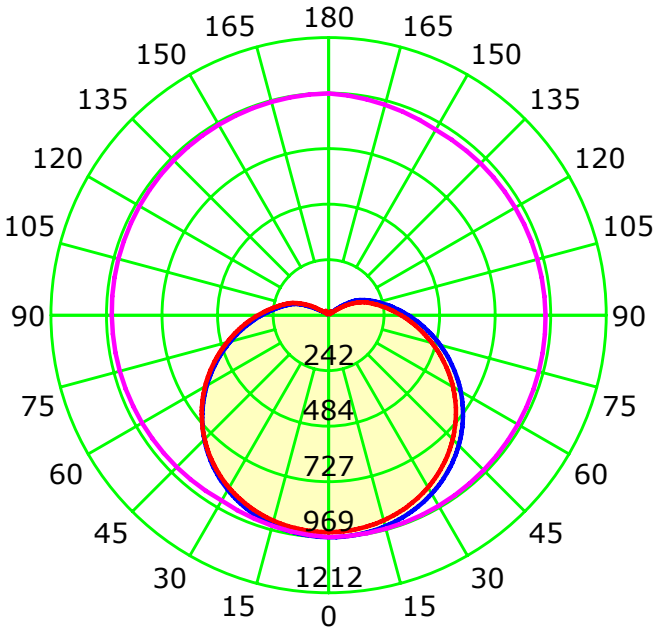
Photometric Results

CIE Class: Semi-Direct Total Rated Lamp Lumens: 4660.0 lm
Measurement Flux: 4660 lm Efficiency: 100%
Downward Ratio: 85% Upward Ratio: 15%
Horizontal Diffuse Angle(25%,50%,75%): H198.3,H148.2,H103.1
Vertical Diffuse Angle(25%,50%,75%): V198.2,V148,V102.6
Luminaire Efficacy Rating (LER): 92 Central Intensity: 969.72 cd
Max. Intensity: 969.96 cd Pos of Max. Intensity: H0 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



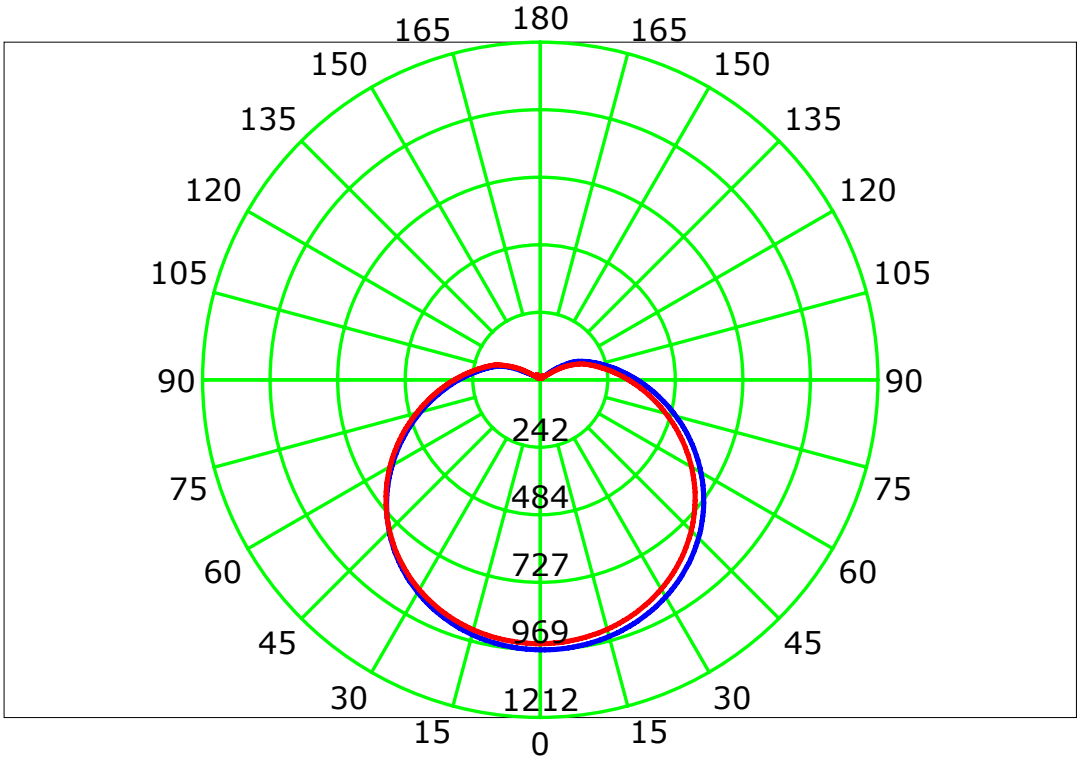
Unit: cd

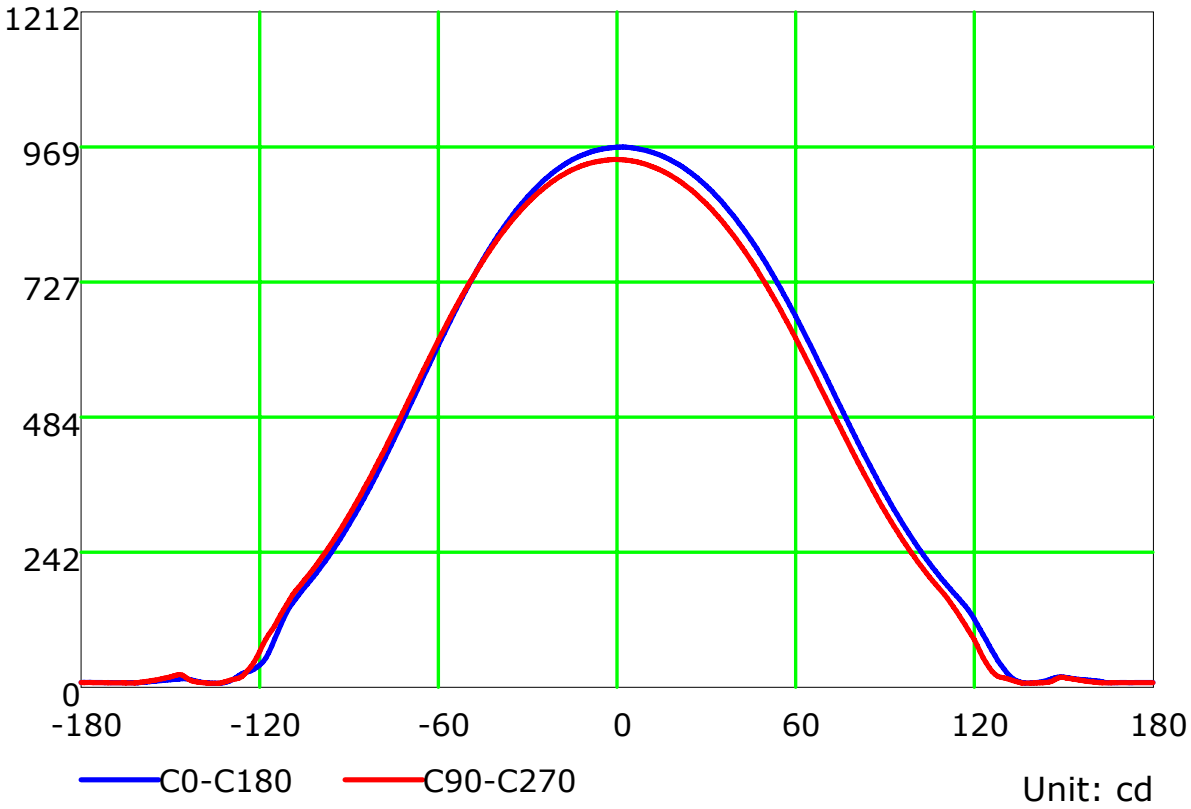
Average Diffuse Angle(50%): 148.1°

C0-C180 C90-C270 G2

C Plane (°):0.0-360.0: 30.0 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: GPM-1800B
Test Type: TYPE C Distance: 8.038 m
Temperature: Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

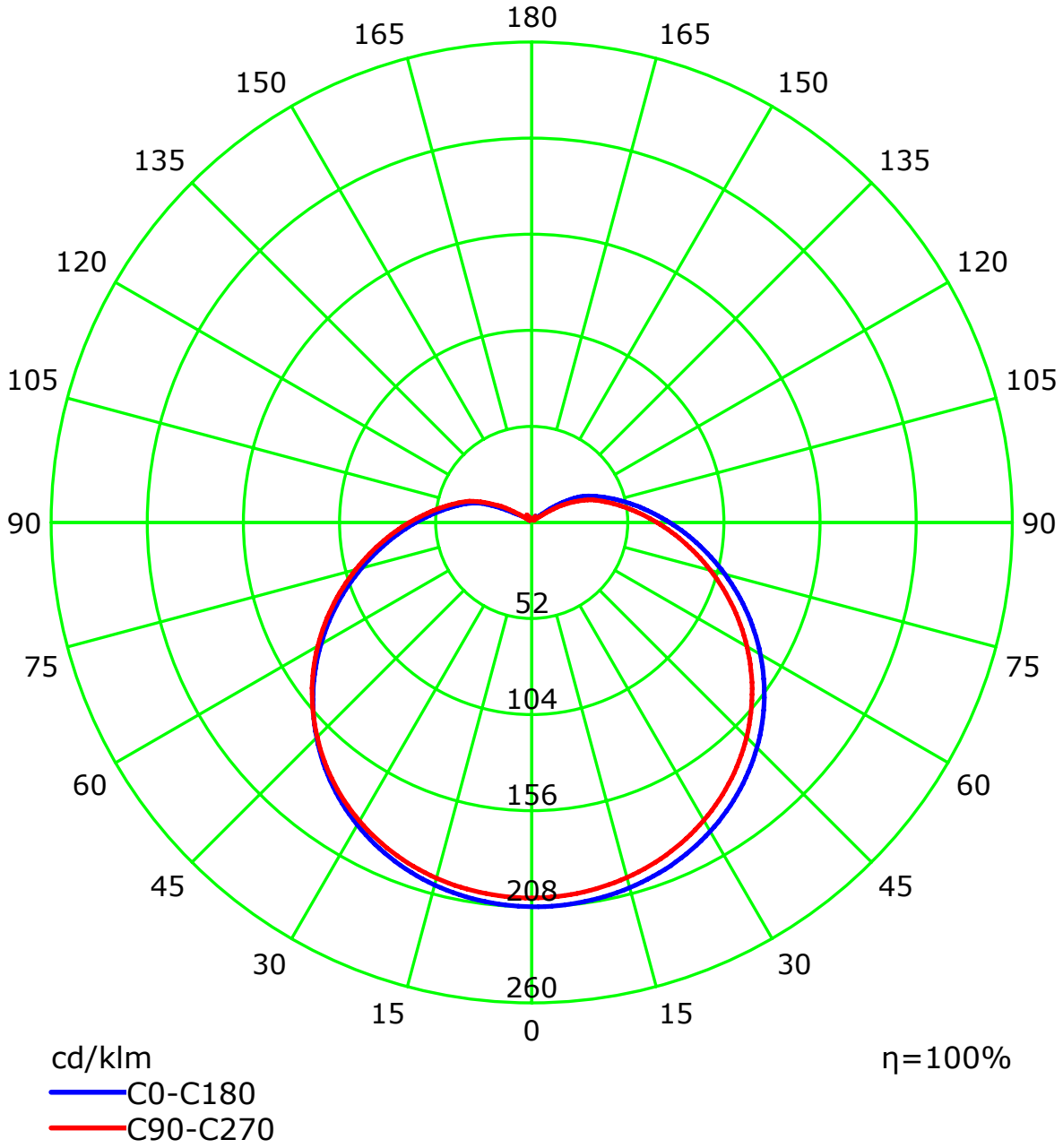




C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

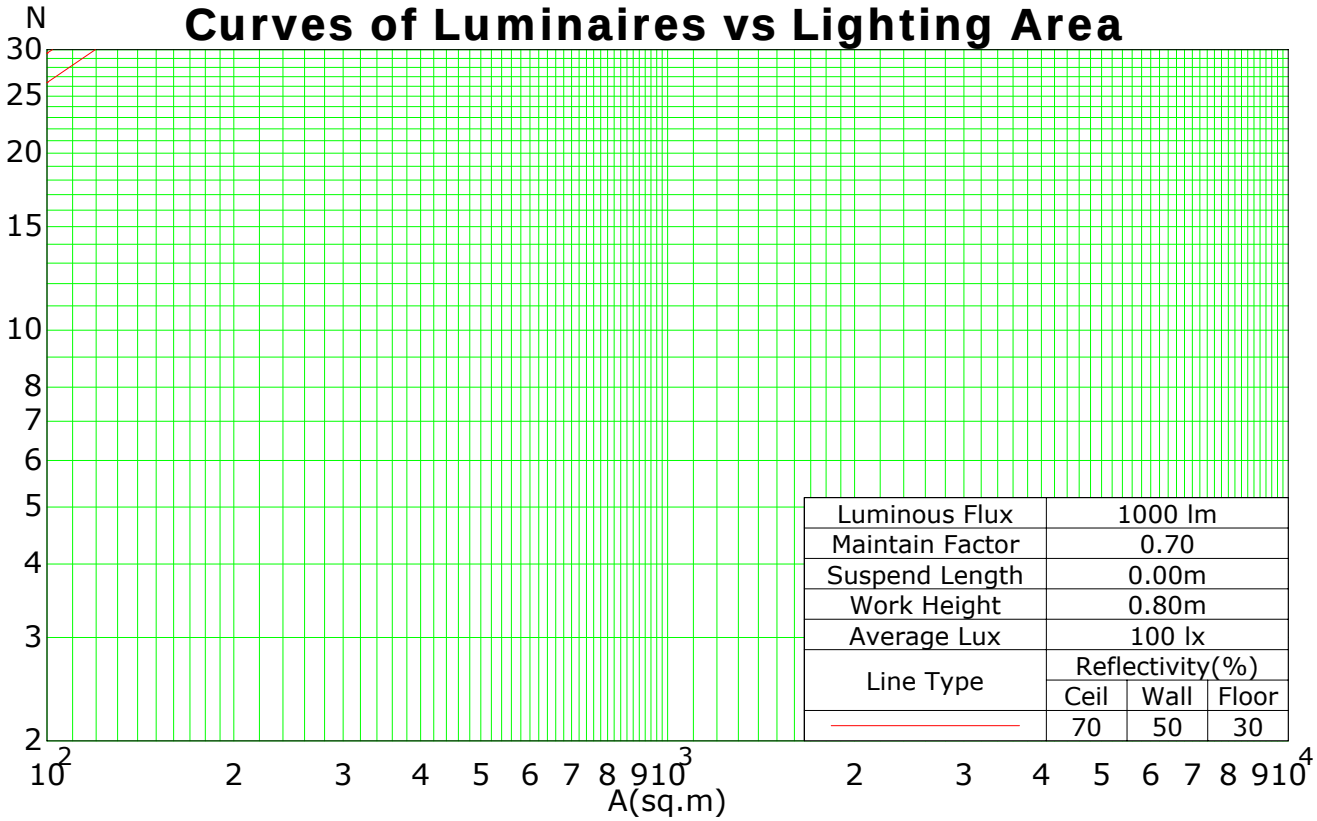
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	102	95	90	85	97	92	87	82	84	80	77	78	75	71	72	69	67	63
2	91	81	73	66	87	78	70	64	72	66	60	66	61	57	61	57	53	50
3	82	70	61	53	78	67	59	52	62	55	49	57	51	46	53	48	44	41
4	75	61	52	44	71	59	50	43	55	47	41	50	44	39	46	41	37	34
5	68	54	45	37	65	52	43	37	48	41	35	45	38	33	41	36	31	29
6	63	49	39	32	60	47	38	31	43	36	30	40	34	29	37	32	27	25
7	58	44	35	28	55	42	34	27	39	32	26	37	30	25	34	28	24	21
8	54	40	31	25	51	38	30	24	36	28	23	33	27	22	31	25	21	19
9	50	36	28	22	48	35	27	22	33	26	21	31	24	20	29	23	19	17
10	47	33	25	20	45	32	25	19	30	23	19	28	22	18	27	21	17	15

Spacing Criteria (0-180): 1.37
Spacing Criteria (90-270): 1.37
Spacing Criteria (Diagonal): 1.50

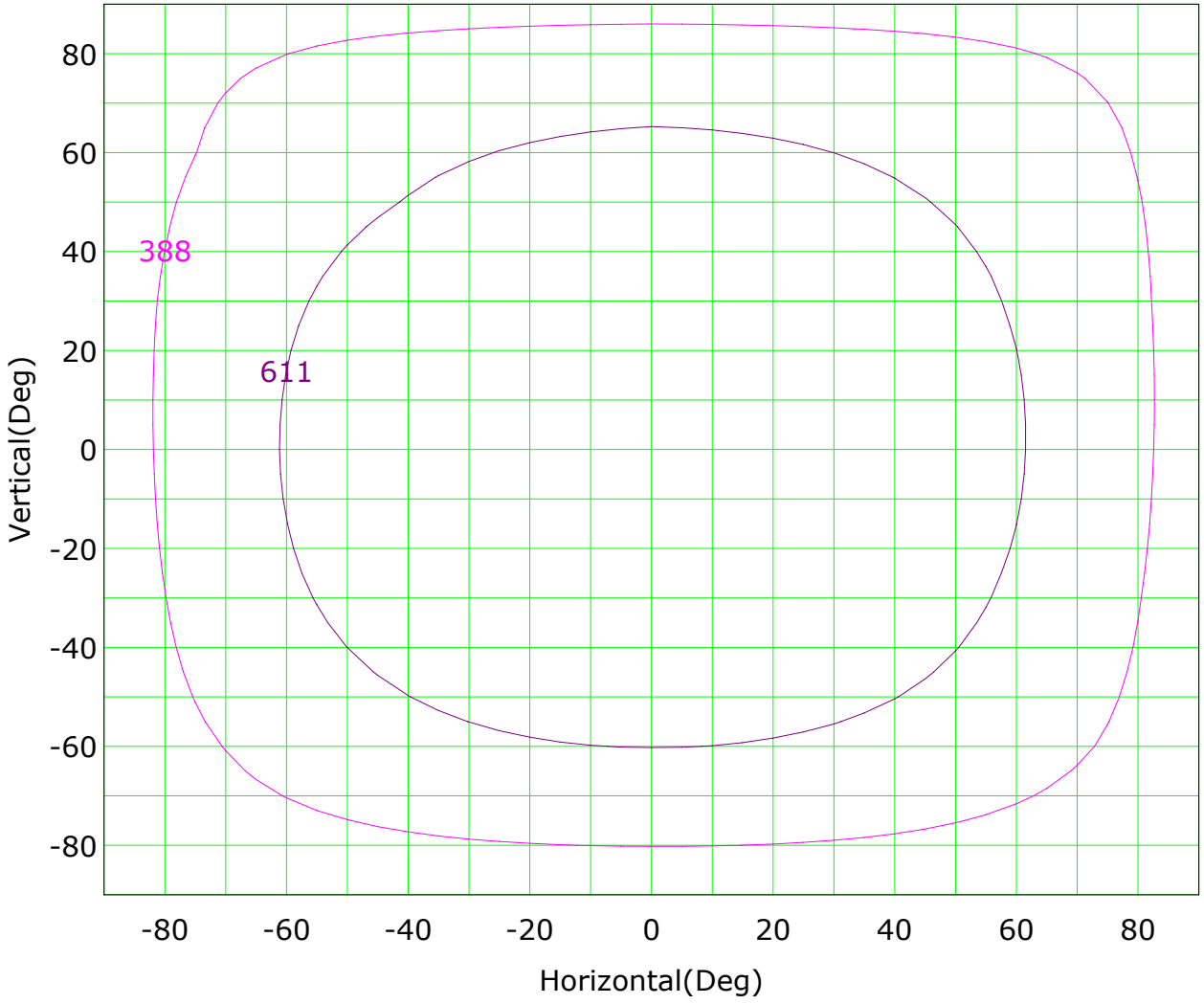
Curves of Luminaires vs Lighting Area



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Isocandela (rectangle)



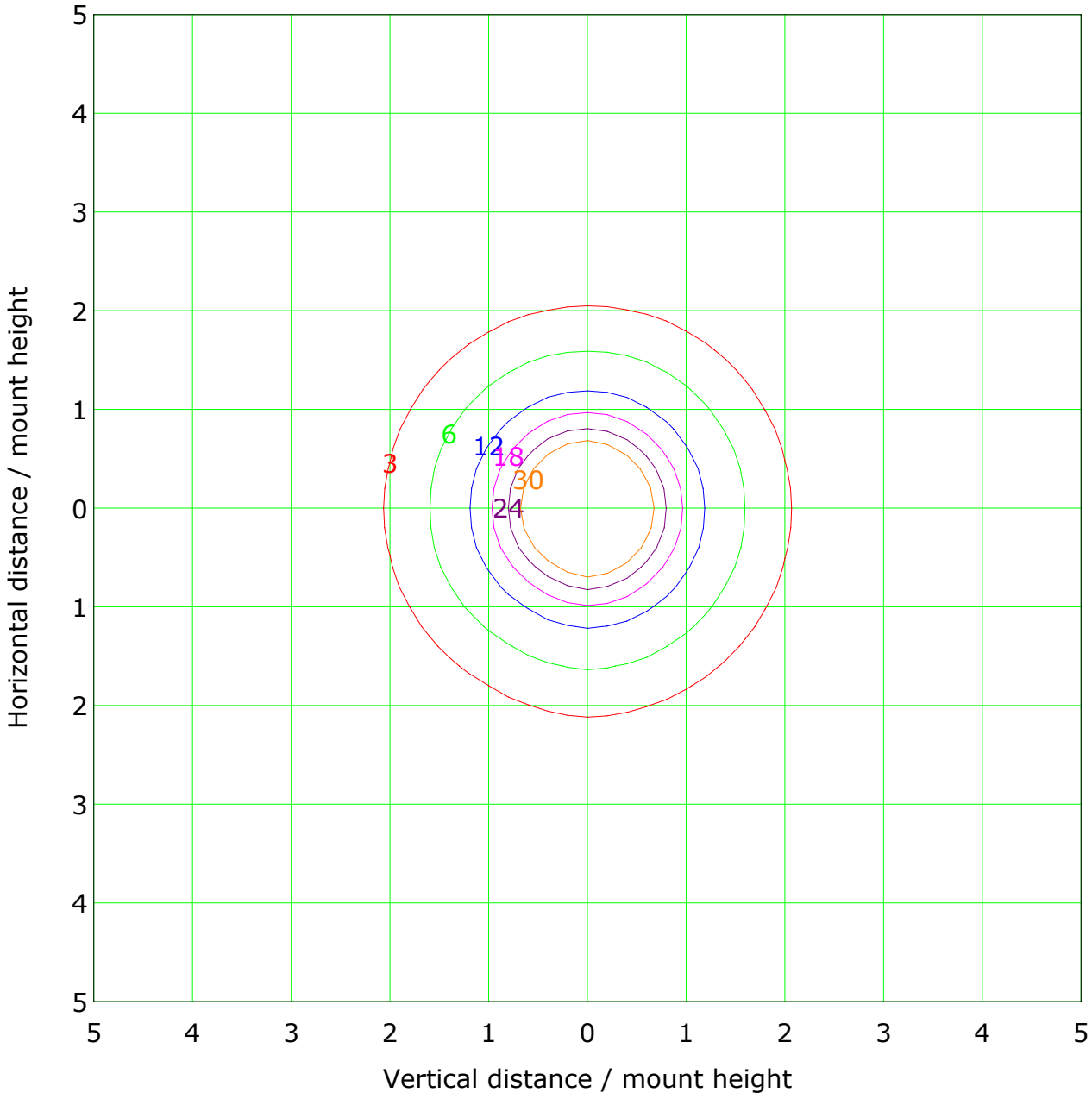
Imax (100%): 970 cd

(10%): 97 cd	(16%): 155 cd
(25%): 242 cd	(40%): 388 cd
(63%): 611 cd	(100%): 970 cd

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

IsoLux Plot



Mounting Height: 4.0m Max Lux(100%): 60.6 lx

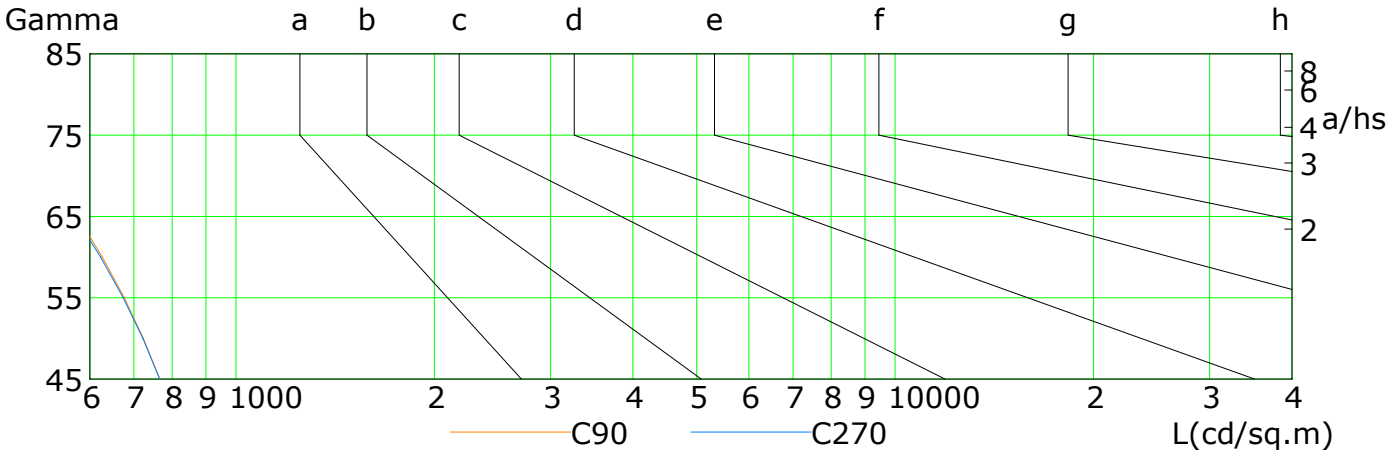
(5%): 3.0 lx	(10%): 6.1 lx
(20%): 12.1 lx	(30%): 18.2 lx
(40%): 24.2 lx	(50%): 30.3 lx
(100%): 60.6 lx	(150%): 90.9 lx

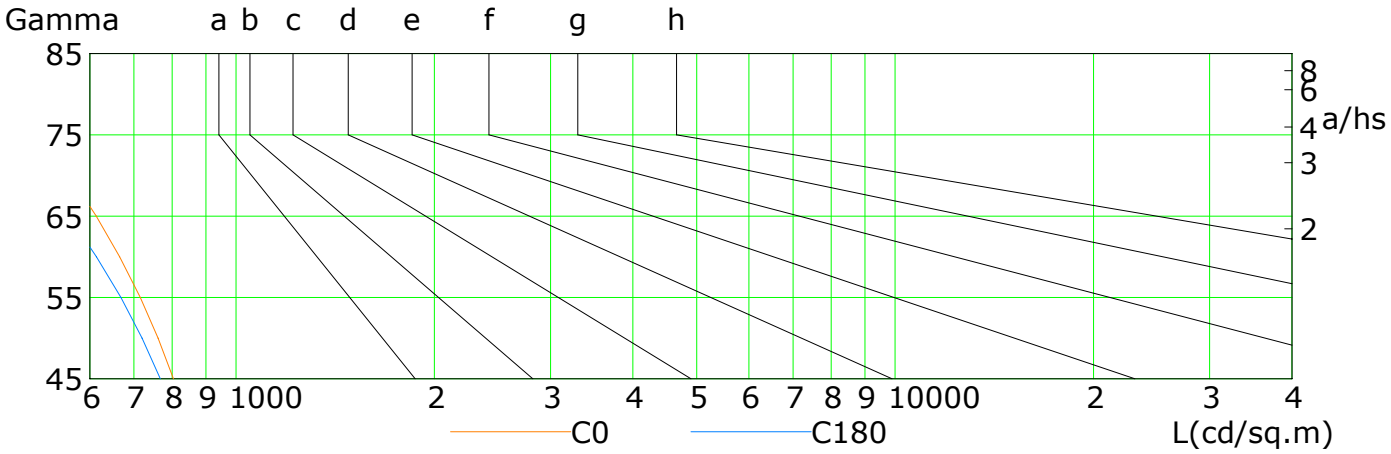
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 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



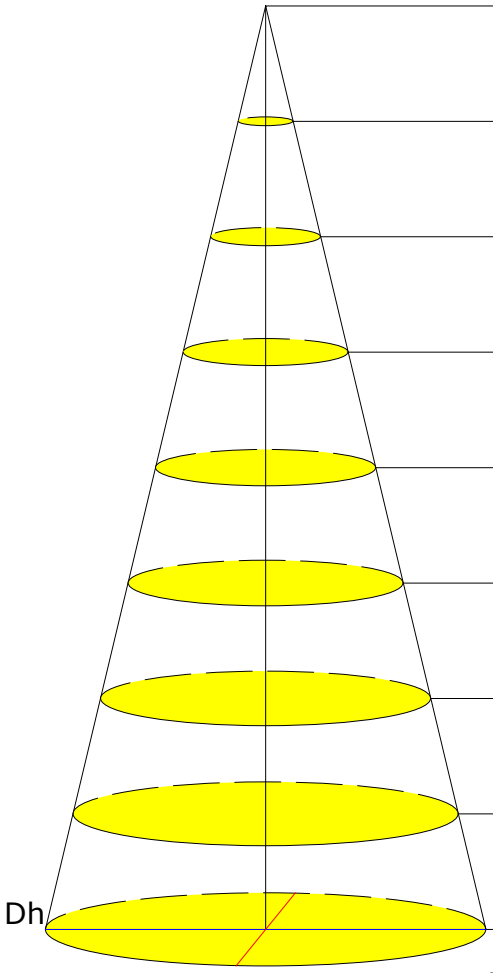


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	804	762	716	666	614	560	504	450	398
C90	766	724	677	627	575	521	467	414	364
C180	768	720	669	614	558	501	445	390	339
C270	766	722	674	623	570	515	460	407	357

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Illuminance at a Distance



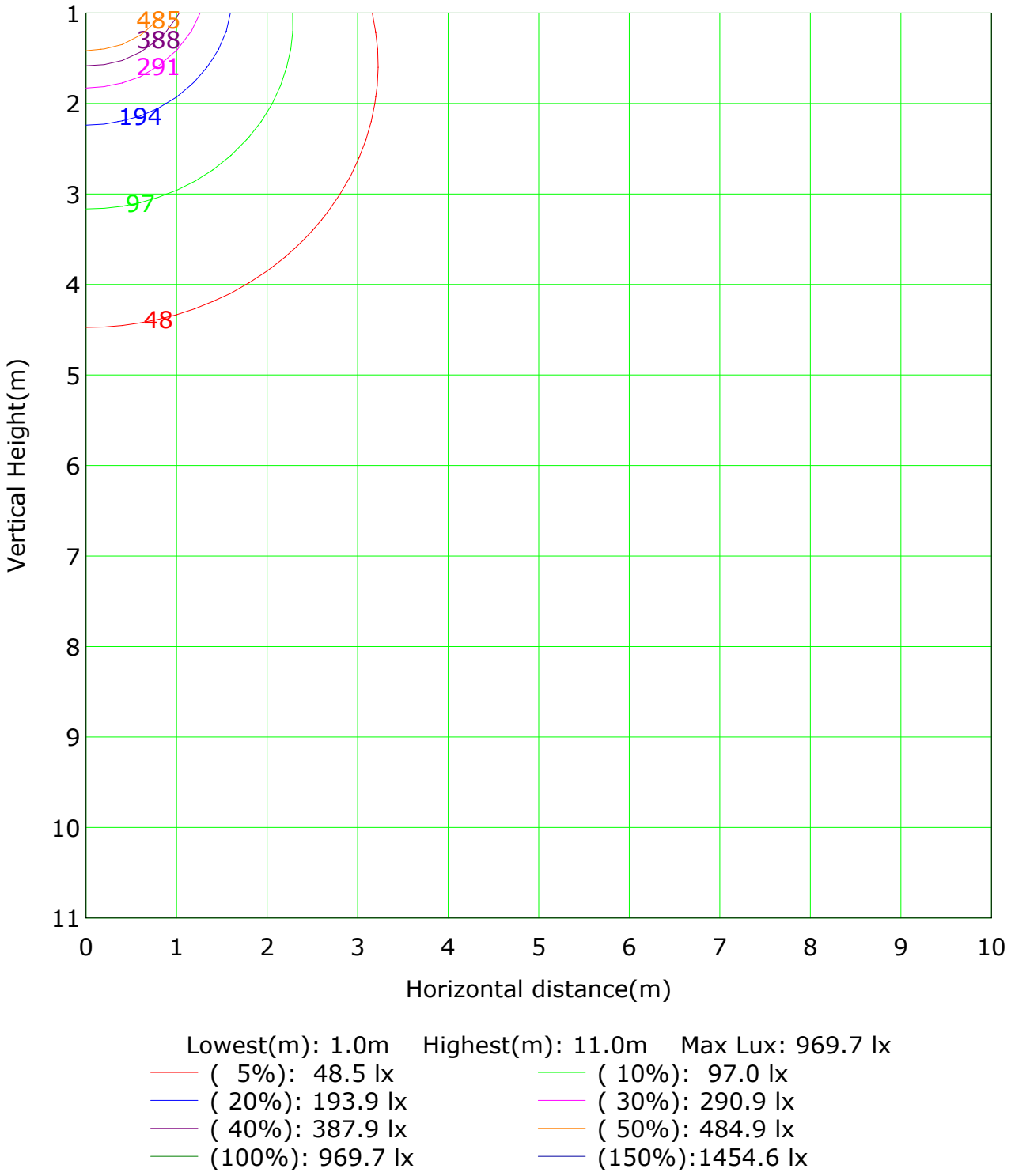
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
		Dh/Dv_F(m)	S_F(sq.m)	Eav_F(lx)
1.0	969.72	7.02/6.98	39.2	43.32
		NA/NA	NA	NA
2.0	242.43	14.04/13.97	156.9	10.83
		NA/NA	NA	NA
3.0	107.75	21.06/20.95	353.1	4.81
		NA/NA	NA	NA
4.0	60.61	28.08/27.94	627.7	2.71
		NA/NA	NA	NA
5.0	38.79	35.09/34.92	980.8	1.73
		NA/NA	NA	NA
6.0	26.94	42.11/41.91	1412.3	1.20
		NA/NA	NA	NA
7.0	19.79	49.13/48.89	1922.3	0.88
		NA/NA	NA	NA
8.0	15.15	56.15/55.88	2510.7	0.68
		NA/NA	NA	NA

Beam Angle(B): H148.2 V148.0 Field Angle(F): H236.9 V236.0

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Vertical IsoLux Plot



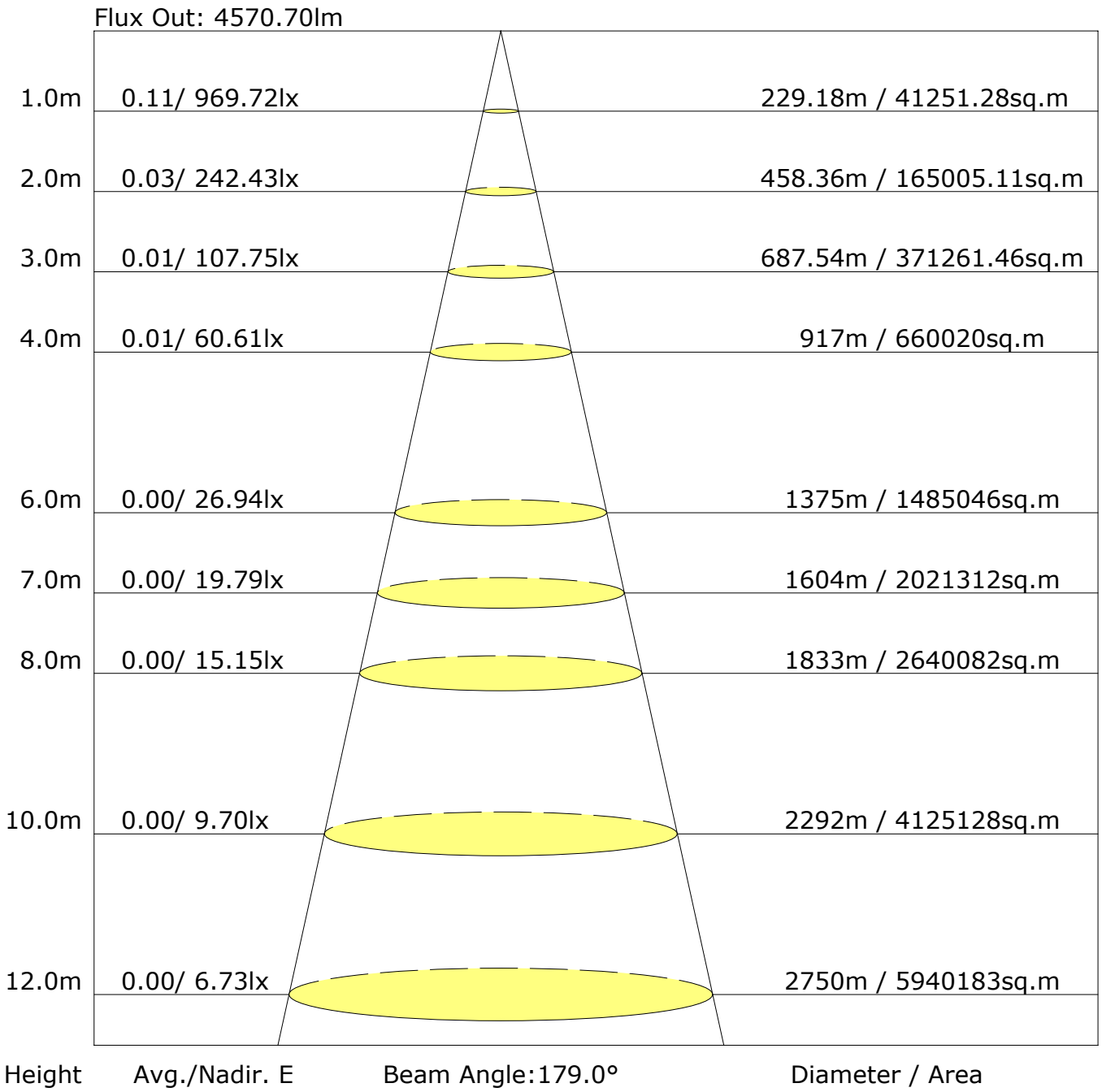
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 969.7 lx

(5%): 48.5 lx	(10%): 97.0 lx
(20%): 193.9 lx	(30%): 290.9 lx
(40%): 387.9 lx	(50%): 484.9 lx
(100%): 969.7 lx	(150%):1454.6 lx

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

UGR Table

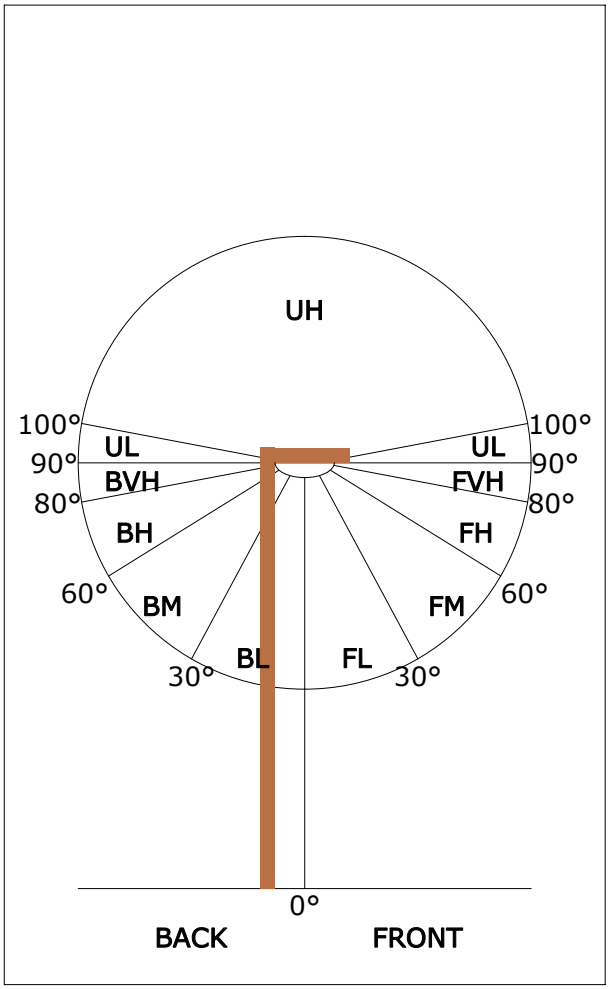
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
3H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
12H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
X=4H Y=2H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
3H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
12H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
X=8H Y=4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
12H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
X=12H Y=4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$

Calculate in accordance with CIE 190:2010

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



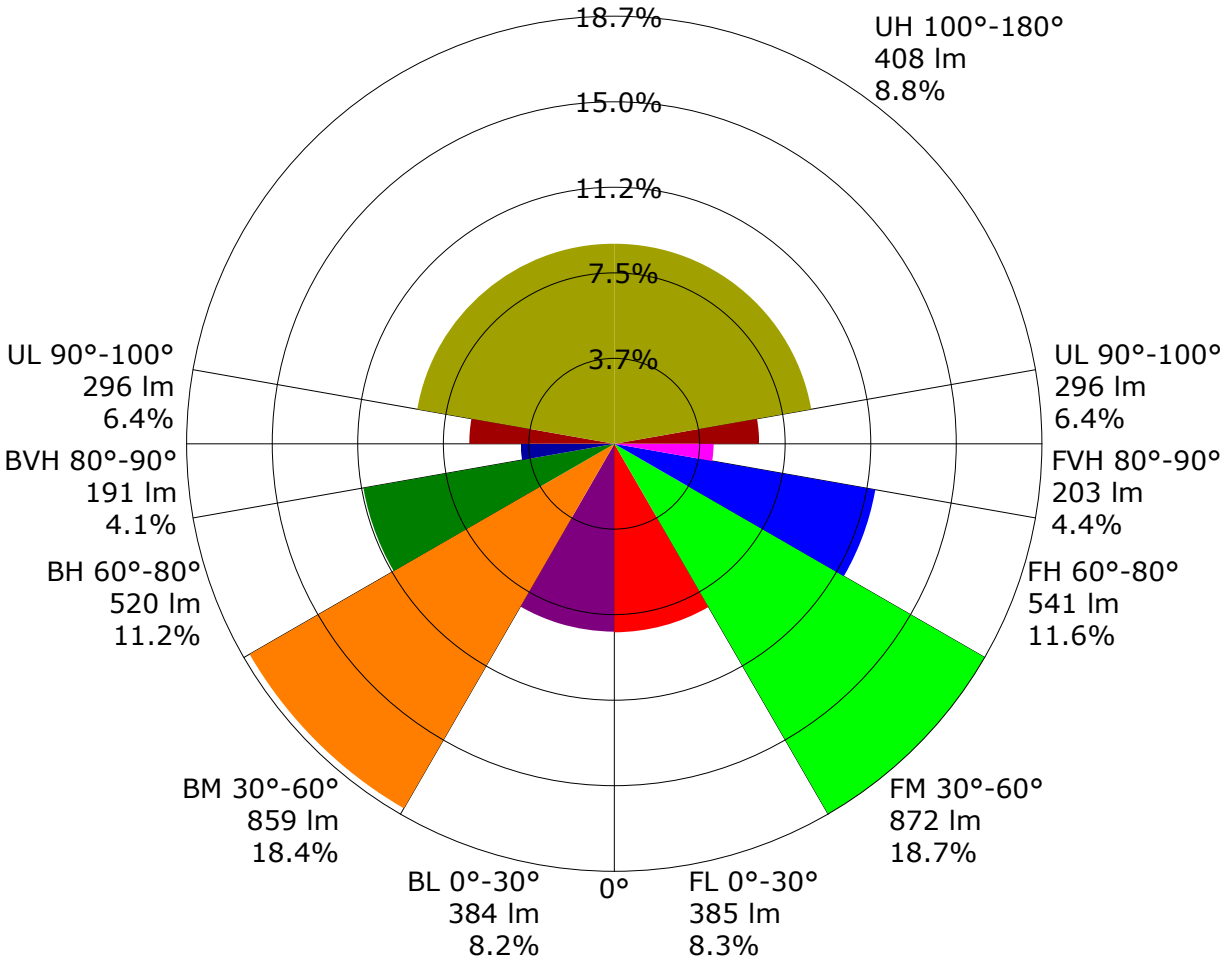
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2002	43.0
FL (0°-30°)	385	8.3
FM (30°-60°)	872	18.7
FH (60°-80°)	541	11.6
FVH (80°-90°)	203	4.4
BACK LIGHT	1954	41.9
BL (0°-30°)	384	8.2
BM (30°-60°)	859	18.4
BH (60°-80°)	520	11.2
BVH (80°-90°)	191	4.1
UP LIGHT	704	15.1
UL (90°-100°)	296	6.4
UH (100°-180°)	408	8.8
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:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

LCS Graph



Scale= MAX LCS%

Trapped Light:NA,NA

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
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	0.48	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.93
	0.30		0.40	0.47	0.55	0.60	0.68	0.74	0.78	0.84	0.88
	0.20		0.34	0.41	0.48	0.54	0.62	0.68	0.73	0.79	0.84
0.50	0.50	0.20	0.45	0.52	0.59	0.63	0.70	0.75	0.78	0.83	0.86
	0.30		0.38	0.45	0.52	0.57	0.64	0.69	0.73	0.78	0.82
	0.20		0.33	0.40	0.46	0.51	0.59	0.64	0.68	0.74	0.78
0.30	0.50	0.20	0.42	0.49	0.55	0.59	0.65	0.69	0.72	0.76	0.79
	0.30		0.36	0.42	0.49	0.53	0.60	0.64	0.68	0.73	0.76
	0.20		0.31	0.38	0.44	0.49	0.55	0.60	0.64	0.70	0.73
0.00	0.00	0.00	0.28	0.33	0.39	0.43	0.49	0.54	0.57	0.62	0.65

Rating:0W 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:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)							SHR NOM = 1.50				
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	1.04	0.91	0.79	0.70	0.58	0.50	0.43	0.35	0.29
	0.30		0.87	0.78	0.69	0.62	0.52	0.45	0.40	0.33	0.28
	0.20		0.75	0.68	0.61	0.56	0.48	0.42	0.38	0.31	0.27
0.50	0.50	0.20	0.97	0.85	0.74	0.66	0.54	0.49	0.41	0.33	0.27
	0.30		0.83	0.74	0.65	0.59	0.50	0.43	0.38	0.31	0.26
	0.20		0.72	0.65	0.58	0.53	0.46	0.40	0.36	0.30	0.25
0.30	0.50	0.20	0.92	0.79	0.69	0.61	0.51	0.43	0.38	0.31	0.26
	0.30		0.78	0.70	0.62	0.56	0.47	0.41	0.36	0.29	0.25
	0.20		0.69	0.62	0.56	0.51	0.44	0.38	0.34	0.28	0.24
0.00	0.00	0.00	0.57	0.52	0.46	0.42	0.36	0.31	0.28	0.23	0.20

Rating:0W 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 = 1.50								
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	0.31	0.33	0.34	0.34	0.35	0.36	0.36	0.36	0.37
	0.30		0.24	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33
	0.20		0.19	0.20	0.22	0.23	0.25	0.26	0.27	0.29	0.30
0.50	0.50	0.20	0.30	0.32	0.32	0.33	0.34	0.34	0.35	0.35	0.35
	0.30		0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32
	0.20		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.28	0.29
0.30	0.50	0.20	0.29	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34
	0.30		0.23	0.25	0.26	0.26	0.28	0.29	0.29	0.30	0.31
	0.20		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.27	0.28
0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Rating:0W 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:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

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	969.7	961.4	954.3	947.8	941.4	935.4	969.7	961.4	954.3	947.8
G1.0	969.9	961.3	954.1	947.5	941.1	935.5	969.3	961.2	954.2	947.7
G2.0	970.0	961.0	953.8	947.0	940.8	935.2	968.8	960.7	954.0	947.3
G3.0	969.7	960.7	953.5	946.5	940.5	934.9	968.2	960.1	953.4	946.9
G4.0	969.2	960.2	952.9	946.0	939.8	934.3	967.3	959.5	953.0	946.3
G5.0	968.6	959.7	951.7	945.2	938.8	933.8	966.4	958.4	952.4	945.5
G6.0	967.9	958.7	950.7	944.3	937.9	933.0	965.1	957.5	951.2	944.6
G7.0	967.0	957.5	949.7	943.0	936.9	932.1	963.8	956.3	950.1	943.6
G8.0	965.9	956.3	948.2	941.7	935.6	930.8	962.5	955.0	948.9	942.4
G9.0	964.8	955.1	946.4	940.1	934.0	929.5	960.8	953.5	947.6	941.0
G10.0	963.5	953.5	944.9	938.5	932.5	928.0	959.0	951.7	945.6	939.6
G11.0	961.8	951.7	943.2	936.4	930.8	926.5	956.9	949.8	944.0	937.9
G12.0	960.2	949.9	941.2	934.5	928.9	924.8	954.8	948.0	942.2	936.1
G13.0	958.4	948.0	939.1	932.4	926.9	923.0	952.5	945.6	940.1	933.8
G14.0	956.5	945.7	936.6	930.2	924.5	920.9	950.0	943.2	937.7	931.6
G15.0	954.2	943.3	934.2	927.5	922.1	918.7	947.3	940.7	935.3	929.2
G16.0	951.9	940.8	931.7	925.0	919.5	916.2	944.2	937.9	932.7	926.7
G17.0	949.4	938.3	928.7	922.2	916.8	913.7	941.1	935.0	929.8	923.7
G18.0	946.8	935.3	925.7	919.2	913.6	910.7	937.8	931.7	926.8	920.8
G19.0	943.7	932.2	922.7	915.8	910.4	907.7	933.9	928.3	923.4	917.7
G20.0	940.8	929.0	919.3	912.5	907.2	904.4	930.2	924.6	920.1	914.5
G21.0	937.8	925.7	915.9	909.0	903.7	901.0	926.3	920.6	916.4	910.8
G22.0	934.5	922.3	912.0	905.3	899.7	897.3	922.1	916.6	912.7	907.1
G23.0	930.6	918.2	908.2	900.9	895.8	893.7	917.6	912.3	908.4	903.0
G24.0	926.8	914.1	903.9	896.8	891.6	889.8	913.1	907.9	904.1	898.9
G25.0	922.9	910.2	899.7	892.7	887.4	885.4	908.3	903.3	899.7	894.4
G26.0	918.8	905.8	895.3	888.2	883.0	881.1	903.3	898.2	895.0	889.9
G27.0	914.7	901.3	890.4	883.5	878.1	876.5	897.7	893.3	889.9	885.3
G28.0	909.8	896.4	885.5	878.3	873.3	871.6	892.5	888.0	884.9	880.4
G29.0	905.2	891.7	880.6	873.4	868.2	866.6	886.8	882.4	879.8	875.1
G30.0	900.3	886.5	875.4	868.0	863.1	861.5	881.1	876.9	874.1	870.0
G31.0	895.2	881.2	869.6	862.6	857.4	856.3	874.7	870.7	868.5	864.3
G32.0	890.1	875.5	864.1	857.1	851.8	850.6	868.5	864.8	862.6	858.7
G33.0	884.2	869.8	858.1	851.0	846.0	845.0	862.3	858.3	856.1	852.6
G34.0	878.6	863.9	852.2	845.1	840.1	838.8	855.6	851.8	850.1	846.6
G35.0	872.9	858.0	846.3	838.7	833.9	832.8	848.4	845.0	843.6	840.2
G36.0	866.6	851.9	839.5	832.4	827.1	826.3	841.2	838.1	836.8	833.8

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 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	860.1	845.0	833.0	825.5	820.6	819.9	834.0	830.7	830.2	826.8
G38.0	853.9	838.6	826.0	819.0	813.8	813.3	826.7	823.4	822.6	820.0
G39.0	847.4	831.8	819.3	812.1	807.0	806.2	818.7	816.2	815.5	812.8
G40.0	840.5	825.0	811.9	805.0	799.9	799.3	810.9	808.2	808.0	805.6
G41.0	833.2	817.4	804.8	797.4	792.3	791.7	802.8	800.1	800.4	798.0
G42.0	826.2	810.1	797.2	789.9	784.9	784.3	794.1	792.1	792.1	790.1
G43.0	818.8	802.7	789.5	782.4	777.0	776.3	785.8	783.5	784.0	782.4
G44.0	811.1	794.9	781.8	774.4	769.2	768.6	777.0	775.2	776.0	774.2
G45.0	803.5	787.1	774.1	766.4	761.2	760.6	767.7	766.3	767.1	765.7
G46.0	795.7	779.0	765.4	758.3	752.5	752.0	758.8	757.0	758.7	757.5
G47.0	787.5	770.2	757.0	750.0	744.1	743.6	749.4	748.2	749.8	749.1
G48.0	778.8	761.9	748.6	741.0	735.7	735.1	740.0	738.7	740.9	740.1
G49.0	770.3	753.3	739.6	732.3	727.0	726.3	730.6	729.4	731.3	731.3
G50.0	761.8	744.2	730.9	723.5	717.8	717.1	720.3	719.3	722.0	722.0
G51.0	753.0	735.2	722.0	714.6	708.8	708.0	710.5	709.7	712.4	712.9
G52.0	743.8	726.1	712.9	705.3	699.6	699.0	700.3	699.6	703.0	703.5
G53.0	734.8	716.9	703.2	696.2	689.8	689.8	690.5	689.7	692.9	694.3
G54.0	725.0	707.0	693.8	686.8	680.4	679.9	679.7	679.1	683.1	684.3
G55.0	715.8	697.2	684.0	676.9	670.7	670.0	669.1	668.6	672.9	674.4
G56.0	705.9	687.7	674.5	667.0	661.1	660.3	658.1	658.3	662.3	664.7
G57.0	696.3	678.0	664.3	657.3	651.3	650.5	647.5	647.4	651.8	654.3
G58.0	686.6	667.6	654.4	647.6	640.8	640.1	636.3	636.9	641.5	644.1
G59.0	676.2	657.6	644.3	637.1	630.9	630.0	625.6	625.9	631.2	634.0
G60.0	666.1	647.6	633.8	627.0	620.7	619.8	614.1	614.5	620.0	623.2
G61.0	656.1	637.4	623.5	616.9	610.1	609.4	603.3	603.7	609.1	612.8
G62.0	645.5	626.9	613.3	606.2	599.8	598.7	591.8	592.5	598.5	602.0
G63.0	635.2	616.5	602.3	595.9	588.8	587.7	580.8	581.5	587.1	591.7
G64.0	624.1	605.6	591.9	584.9	578.4	577.2	569.1	569.8	576.3	580.5
G65.0	613.7	595.2	581.2	574.6	568.0	566.7	558.1	559.0	565.2	569.9
G66.0	603.1	584.2	570.7	564.1	557.0	555.5	546.7	547.7	554.0	558.9
G67.0	592.1	573.7	559.5	553.3	546.4	544.9	534.9	536.6	543.2	547.6
G68.0	580.9	562.3	549.0	542.0	535.1	533.5	524.0	524.9	532.0	537.0
G69.0	570.3	551.8	538.0	531.4	524.5	522.8	512.4	513.6	520.6	525.8
G70.0	559.5	540.6	527.5	520.8	513.4	511.5	501.3	502.5	509.8	515.0
G71.0	548.7	529.8	516.8	510.1	502.7	500.7	489.6	490.8	498.5	503.7
G72.0	537.3	519.3	506.2	499.1	492.0	490.0	478.4	479.8	487.4	492.9
G73.0	526.5	508.4	494.9	488.4	480.6	479.1	466.9	468.5	476.5	481.8

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 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	515.1	497.2	484.4	477.2	470.1	467.7	455.9	457.6	465.0	471.0
G75.0	504.4	486.6	473.4	466.7	459.5	457.1	444.6	446.2	454.3	459.8
G76.0	493.7	475.6	463.0	456.2	448.6	446.1	433.8	435.5	443.0	449.4
G77.0	482.4	465.1	452.6	445.4	438.3	435.7	422.7	424.6	431.9	438.5
G78.0	471.8	454.0	441.7	435.1	427.3	424.7	411.6	414.1	421.5	427.5
G79.0	460.8	443.7	431.5	424.1	417.0	414.4	401.1	403.1	411.1	417.2
G80.0	450.2	433.4	420.9	413.9	406.4	404.2	390.3	392.6	400.5	406.9
G81.0	439.1	422.7	410.7	403.4	396.2	393.7	379.7	382.5	389.8	396.9
G82.0	428.8	412.6	400.7	393.4	386.3	383.6	369.6	371.8	379.4	386.3
G83.0	418.4	402.5	390.0	383.4	375.6	373.6	359.2	361.6	369.5	376.1
G84.0	408.0	391.8	380.1	373.6	365.8	363.1	349.4	351.9	359.1	366.4
G85.0	397.9	381.9	370.4	363.8	356.1	353.4	339.3	342.2	349.4	356.7
G86.0	387.6	372.2	360.5	353.7	346.6	343.9	329.8	332.1	339.9	346.6
G87.0	377.7	362.3	351.1	344.3	336.9	334.2	320.2	322.5	330.2	337.0
G88.0	367.4	352.9	341.2	334.6	327.6	325.0	311.1	313.4	320.5	327.9
G89.0	357.6	343.1	332.1	325.0	318.0	315.5	301.8	304.0	311.6	318.3
G90.0	348.1	334.0	323.2	316.1	309.1	306.5	292.6	294.8	302.3	309.1
G91.0	338.8	324.5	314.0	307.2	300.0	297.5	284.0	286.1	293.1	300.4
G92.0	329.0	315.6	305.3	298.2	291.4	288.7	275.1	277.3	284.7	291.3
G93.0	320.0	307.0	296.2	289.7	282.9	280.3	266.4	269.1	276.0	282.6
G94.0	311.2	298.0	287.8	281.3	274.0	271.5	258.3	260.6	267.4	274.4
G95.0	302.1	289.5	279.5	272.5	265.8	263.3	250.0	252.2	259.3	265.7
G96.0	293.5	281.1	271.3	264.4	257.8	255.3	242.3	244.5	251.1	257.8
G97.0	284.9	272.9	263.0	256.3	249.8	247.4	234.4	236.6	243.4	249.8
G98.0	276.7	264.7	255.3	248.6	241.9	239.5	226.9	229.2	235.5	242.1
G99.0	268.6	256.9	247.6	240.8	234.4	232.1	219.6	222.1	228.3	234.8
G100.0	260.1	248.9	239.7	233.4	226.6	224.4	212.5	214.7	220.8	227.1
G101.0	252.3	241.5	232.6	225.8	219.6	217.3	205.4	207.5	213.5	219.8
G102.0	244.7	234.2	225.2	218.7	212.4	210.4	198.5	200.9	206.7	212.5
G103.0	237.3	226.8	218.3	211.8	205.6	203.5	192.0	194.0	199.8	205.7
G104.0	229.6	219.9	211.5	204.8	199.0	196.9	185.4	187.4	193.4	198.9
G105.0	222.5	212.8	204.4	197.8	192.0	190.1	179.1	181.2	186.7	192.5
G106.0	215.4	206.1	197.9	191.5	185.7	183.8	172.6	174.9	180.2	185.9
G107.0	208.6	199.6	191.4	185.2	179.3	177.5	165.4	168.9	174.1	179.5
G108.0	202.0	192.9	185.1	179.0	173.3	171.5	158.4	162.6	166.4	173.3
G109.0	195.0	186.7	179.1	172.7	167.4	165.7	151.2	156.1	156.7	166.2
G110.0	188.8	180.6	172.7	166.4	161.2	159.7	143.7	148.8	145.6	157.1

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 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	182.6	174.4	166.7	159.8	155.6	153.1	134.5	141.5	135.0	148.3
G112.0	176.5	168.6	160.2	152.2	150.2	146.6	123.5	133.4	124.1	139.4
G113.0	170.3	162.8	154.2	144.6	144.9	139.6	111.8	126.1	112.4	130.5
G114.0	164.4	157.1	148.3	136.9	139.8	132.3	99.1	118.9	100.5	120.4
G115.0	158.5	151.0	142.3	128.4	134.3	124.1	86.7	112.0	89.1	110.2
G116.0	152.2	144.9	136.7	120.1	129.3	116.2	73.8	105.8	78.4	102.3
G117.0	146.0	138.6	130.4	111.8	124.0	107.9	62.3	99.4	66.9	94.9
G118.0	139.2	131.9	122.5	103.1	118.6	99.2	52.4	93.2	57.9	86.4
G119.0	131.4	125.7	113.3	94.6	112.4	90.3	45.3	85.7	51.3	76.2
G120.0	122.5	119.7	104.6	85.8	106.1	79.7	40.0	76.6	47.0	64.4
G121.0	113.4	114.2	96.3	75.5	99.6	68.5	36.0	65.8	43.6	54.1
G122.0	103.8	109.2	88.0	63.8	93.0	57.7	32.3	55.5	40.7	44.6
G123.0	94.4	104.6	79.1	53.4	86.4	47.9	29.7	47.5	37.5	37.3
G124.0	85.1	100.2	70.1	44.0	80.1	39.0	28.1	41.8	35.6	30.8
G125.0	75.3	96.1	60.6	35.7	73.6	31.4	26.9	39.3	35.0	24.4
G126.0	65.6	91.8	52.0	28.7	67.7	25.7	24.5	37.5	33.5	19.4
G127.0	56.6	87.0	44.7	23.5	61.9	21.6	21.5	36.7	30.5	16.4
G128.0	47.5	81.8	38.8	19.6	56.4	19.3	17.7	37.0	26.2	15.5
G129.0	40.2	75.6	33.0	17.9	50.3	19.3	14.1	35.8	21.7	14.3
G130.0	33.0	68.4	27.8	17.2	44.1	19.4	11.7	32.2	17.6	12.8
G131.0	26.0	58.3	22.5	15.6	36.8	18.4	9.9	26.0	14.5	11.1
G132.0	20.2	47.4	18.1	14.0	29.4	16.4	8.4	17.9	11.6	9.6
G133.0	15.6	36.0	15.0	12.2	22.8	14.1	7.5	10.9	9.4	8.1
G134.0	12.4	26.2	12.1	10.4	16.5	11.8	7.3	7.5	7.7	7.3
G135.0	10.4	17.8	9.9	8.9	11.6	9.7	7.6	7.4	7.3	7.3
G136.0	8.8	11.2	8.2	7.7	8.2	7.8	7.7	7.4	7.4	7.4
G137.0	7.9	8.1	7.8	7.6	7.6	7.4	7.8	7.3	7.8	7.5
G138.0	7.8	7.5	7.8	7.7	7.6	7.6	8.4	7.3	8.1	7.9
G139.0	8.0	7.6	8.0	7.6	7.6	7.6	8.9	7.7	8.6	8.3
G140.0	8.3	7.7	8.3	7.8	7.9	7.7	9.6	7.9	9.7	8.8
G141.0	8.7	7.7	8.9	7.9	8.4	7.9	10.9	8.5	10.8	9.7
G142.0	9.4	7.7	9.7	8.1	9.0	8.3	12.1	9.8	12.4	10.6
G143.0	10.4	8.2	10.7	8.3	9.8	8.6	13.3	11.9	14.3	12.0
G144.0	11.8	9.4	12.1	8.7	10.9	9.1	14.5	15.7	16.1	14.7
G145.0	13.5	11.5	13.8	9.5	12.2	9.8	15.5	20.2	17.1	18.5
G146.0	15.3	14.5	15.8	10.7	14.4	11.0	15.7	23.1	16.8	21.9
G147.0	17.2	19.3	17.1	13.5	17.9	14.0	15.2	23.9	15.8	23.2

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 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	18.3	24.0	17.6	16.3	21.1	17.1	14.6	22.3	14.9	22.0
G149.0	18.8	27.2	17.4	18.2	22.2	18.8	14.2	21.1	13.9	20.5
G150.0	18.4	28.5	16.6	17.9	20.2	18.0	13.7	19.8	13.1	18.9
G151.0	17.5	27.3	15.8	16.6	20.2	16.8	13.3	18.4	12.5	17.5
G152.0	16.8	25.5	15.2	16.0	19.2	15.7	12.8	17.3	11.8	16.4
G153.0	16.0	24.0	14.4	15.2	17.3	14.6	12.3	16.2	11.1	15.3
G154.0	15.2	22.6	13.5	14.1	15.7	13.6	11.6	15.2	10.7	14.3
G155.0	14.5	21.2	12.5	13.3	14.5	12.5	11.1	14.1	10.3	13.2
G156.0	13.9	19.9	11.9	12.4	13.5	11.6	10.7	13.2	10.1	12.4
G157.0	13.6	18.4	11.3	11.6	12.7	10.8	10.1	12.4	9.9	11.5
G158.0	13.1	17.2	10.5	10.9	12.0	10.0	9.7	11.7	9.4	10.8
G159.0	12.7	16.1	10.0	10.2	11.4	9.5	9.3	10.8	9.2	9.9
G160.0	12.1	15.1	9.8	9.6	10.8	9.2	8.8	9.7	9.1	9.3
G161.0	11.6	14.0	9.6	9.1	10.1	8.9	8.3	8.3	8.6	8.5
G162.0	11.0	13.0	9.1	8.6	9.6	8.5	8.3	8.2	8.2	8.0
G163.0	10.3	11.5	8.5	8.3	8.8	8.2	8.4	8.3	8.1	8.0
G164.0	8.9	8.9	8.4	8.3	8.3	8.3	8.4	8.3	8.3	8.0
G165.0	8.4	8.5	8.3	8.3	8.4	8.3	8.4	8.3	8.1	8.0
G166.0	8.4	8.5	8.4	8.3	8.4	8.3	8.4	8.3	8.1	8.2
G167.0	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.3	8.3	8.1
G168.0	8.4	8.6	8.5	8.4	8.4	8.3	8.5	8.4	8.3	8.2
G169.0	8.6	8.4	8.5	8.4	8.4	8.3	8.5	8.4	8.4	8.1
G170.0	8.7	8.5	8.4	8.5	8.5	8.4	8.6	8.4	8.4	8.2
G171.0	8.7	8.5	8.5	8.5	8.4	8.4	8.6	8.5	8.5	8.3
G172.0	8.6	8.7	8.6	8.4	8.5	8.4	8.6	8.6	8.4	8.5
G173.0	8.6	8.7	8.5	8.5	8.6	8.5	8.7	8.6	8.6	8.4
G174.0	8.7	8.8	8.6	8.5	8.6	8.6	8.8	8.7	8.6	8.5
G175.0	8.7	8.8	8.6	8.6	8.6	8.5	8.7	8.7	8.6	8.6
G176.0	8.7	8.8	8.6	8.6	8.6	8.6	8.8	8.7	8.7	8.5
G177.0	8.7	8.8	8.6	8.5	8.6	8.6	8.9	8.7	8.6	8.6
G178.0	8.7	8.8	8.7	8.6	8.6	8.6	8.7	8.7	8.7	8.7
G179.0	8.8	8.8	8.7	8.5	8.5	8.5	8.9	8.8	8.8	8.6
G180.0	8.8	8.8	8.6	8.6	8.6	8.4	8.8	8.7	8.7	8.6

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	941.4	935.4	969.7							
G1.0	941.3	935.3	969.9							
G2.0	941.0	935.0	970.0							
G3.0	940.5	934.2	969.7							
G4.0	940.1	933.5	969.2							
G5.0	939.4	932.7	968.6							
G6.0	938.4	931.8	967.9							
G7.0	937.5	930.8	967.0							
G8.0	936.2	929.4	965.9							
G9.0	934.9	928.0	964.8							
G10.0	933.2	926.4	963.5							
G11.0	931.5	924.5	961.8							
G12.0	929.7	922.6	960.2							
G13.0	927.8	920.5	958.4							
G14.0	925.5	918.4	956.5							
G15.0	923.2	916.2	954.2							
G16.0	920.6	913.5	951.9							
G17.0	918.0	910.8	949.4							
G18.0	915.0	907.9	946.8							
G19.0	912.0	904.9	943.7							
G20.0	908.7	901.4	940.8							
G21.0	905.3	898.0	937.8							
G22.0	901.5	894.3	934.5							
G23.0	897.6	890.3	930.6							
G24.0	893.7	886.3	926.8							
G25.0	889.5	882.2	922.9							
G26.0	884.9	877.8	918.8							
G27.0	880.4	873.3	914.7							
G28.0	875.5	868.4	909.8							
G29.0	870.6	863.7	905.2							
G30.0	865.2	858.6	900.3							
G31.0	860.0	853.1	895.2							
G32.0	854.3	847.6	890.1							
G33.0	848.7	842.0	884.2							
G34.0	842.3	836.2	878.6							
G35.0	836.5	829.9	872.9							
G36.0	830.0	823.7	866.6							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	823.5	817.2	860.1							
G38.0	816.7	810.7	853.9							
G39.0	809.9	804.1	847.4							
G40.0	802.7	796.8	840.5							
G41.0	795.5	789.9	833.2							
G42.0	787.9	782.4	826.2							
G43.0	780.2	774.6	818.8							
G44.0	772.5	767.1	811.1							
G45.0	764.4	759.2	803.5							
G46.0	756.1	750.7	795.7							
G47.0	747.7	742.7	787.5							
G48.0	739.4	734.2	778.8							
G49.0	730.4	725.8	770.3							
G50.0	721.2	716.7	761.8							
G51.0	712.5	707.9	753.0							
G52.0	703.5	698.7	743.8							
G53.0	694.0	689.8	734.8							
G54.0	684.8	680.2	725.0							
G55.0	675.0	670.7	715.8							
G56.0	665.1	661.3	705.9							
G57.0	655.0	651.2	696.3							
G58.0	645.3	641.7	686.6							
G59.0	634.9	631.6	676.2							
G60.0	625.1	621.8	666.1							
G61.0	614.5	611.3	656.1							
G62.0	604.3	601.3	645.5							
G63.0	593.6	590.9	635.2							
G64.0	583.4	580.8	624.1							
G65.0	572.6	570.0	613.7							
G66.0	561.8	559.4	603.1							
G67.0	551.4	549.2	592.1							
G68.0	540.4	538.3	580.9							
G69.0	529.4	527.5	570.3							
G70.0	518.9	517.2	559.5							
G71.0	507.8	506.1	548.7							
G72.0	497.2	495.6	537.3							
G73.0	486.7	485.2	526.5							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	475.7	474.5	515.1							
G75.0	465.3	463.5	504.4							
G76.0	454.4	453.3	493.7							
G77.0	443.6	442.8	482.4							
G78.0	433.4	432.6	471.8							
G79.0	423.2	421.9	460.8							
G80.0	412.7	411.6	450.2							
G81.0	402.3	401.9	439.1							
G82.0	391.9	391.4	428.8							
G83.0	382.0	381.4	418.4							
G84.0	371.8	371.7	408.0							
G85.0	362.2	362.2	397.9							
G86.0	352.7	352.1	387.6							
G87.0	343.0	342.7	377.7							
G88.0	333.5	333.7	367.4							
G89.0	324.0	324.3	357.6							
G90.0	315.0	315.1	348.1							
G91.0	305.9	306.4	338.8							
G92.0	297.4	297.4	329.0							
G93.0	288.5	289.0	320.0							
G94.0	280.2	280.6	311.2							
G95.0	271.7	271.9	302.1							
G96.0	263.2	264.0	293.5							
G97.0	255.4	256.3	284.9							
G98.0	247.7	248.4	276.7							
G99.0	240.0	241.0	268.6							
G100.0	232.3	233.3	260.1							
G101.0	225.1	225.9	252.3							
G102.0	217.9	218.5	244.7							
G103.0	210.6	211.8	237.3							
G104.0	204.1	205.0	229.6							
G105.0	197.2	198.5	222.5							
G106.0	190.9	191.7	215.4							
G107.0	184.4	185.4	208.6							
G108.0	178.1	179.3	202.0							
G109.0	172.1	173.1	195.0							
G110.0	166.3	165.3	188.8							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	160.3	157.4	182.6							
G112.0	154.9	148.3	176.5							
G113.0	149.4	138.1	170.3							
G114.0	143.6	127.9	164.4							
G115.0	137.9	117.3	158.5							
G116.0	132.2	106.6	152.2							
G117.0	125.6	96.3	146.0							
G118.0	118.9	84.6	139.2							
G119.0	111.5	72.0	131.4							
G120.0	104.2	60.4	122.5							
G121.0	96.6	50.5	113.4							
G122.0	89.4	41.7	103.8							
G123.0	82.6	34.6	94.4							
G124.0	76.0	29.0	85.1							
G125.0	69.3	24.4	75.3							
G126.0	62.7	21.7	65.6							
G127.0	56.1	20.9	56.6							
G128.0	48.7	20.1	47.5							
G129.0	40.4	18.2	40.2							
G130.0	32.7	16.1	33.0							
G131.0	25.5	13.6	26.0							
G132.0	18.7	11.4	20.2							
G133.0	13.2	9.3	15.6							
G134.0	8.9	7.8	12.4							
G135.0	6.9	7.1	10.4							
G136.0	7.1	7.2	8.8							
G137.0	7.3	7.4	7.9							
G138.0	7.7	7.6	7.8							
G139.0	8.3	7.8	8.0							
G140.0	9.1	8.3	8.3							
G141.0	10.3	8.9	8.7							
G142.0	11.8	9.6	9.4							
G143.0	14.1	11.0	10.4							
G144.0	17.6	13.9	11.8							
G145.0	21.6	17.7	13.5							
G146.0	24.2	20.9	15.3							
G147.0	25.2	22.9	17.2							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	24.2	22.6	18.3							
G149.0	22.6	20.9	18.8							
G150.0	21.1	19.4	18.4							
G151.0	19.6	18.0	17.5							
G152.0	18.2	16.6	16.8							
G153.0	16.6	15.5	16.0							
G154.0	15.3	14.4	15.2							
G155.0	14.2	13.4	14.5							
G156.0	13.3	12.5	13.9							
G157.0	12.5	11.7	13.6							
G158.0	11.7	10.9	13.1							
G159.0	11.0	10.1	12.7							
G160.0	10.3	9.5	12.1							
G161.0	9.2	8.4	11.6							
G162.0	8.0	8.0	11.0							
G163.0	8.0	8.0	10.3							
G164.0	8.0	8.0	8.9							
G165.0	8.0	8.0	8.4							
G166.0	8.0	8.0	8.4							
G167.0	8.1	8.1	8.4							
G168.0	8.1	8.1	8.4							
G169.0	8.2	8.1	8.6							
G170.0	8.3	8.1	8.7							
G171.0	8.3	8.2	8.7							
G172.0	8.3	8.3	8.6							
G173.0	8.4	8.4	8.6							
G174.0	8.4	8.4	8.7							
G175.0	8.5	8.4	8.7							
G176.0	8.5	8.4	8.7							
G177.0	8.4	8.5	8.7							
G178.0	8.4	8.5	8.7							
G179.0	8.5	8.5	8.8							
G180.0	8.5	8.5	8.8							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector: