Report No.: Test Time: 2025-04-09 17:54

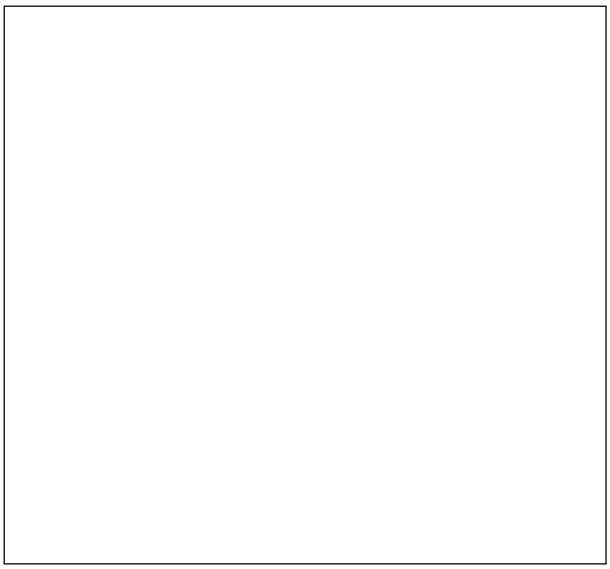
Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Luminaire Description: CFDL439-10W-4000K-24°
Lamp Catalog: Lamp Description:
Number of Lamps: Lumens per Lamp:
Luminous Length (mm): -40 Luminous Width (mm): -40
Luminous Height (mm): Voltage: 220.19 V
Current: 0.0940 A Power: 10.67 W
Power Factor: 0.5130

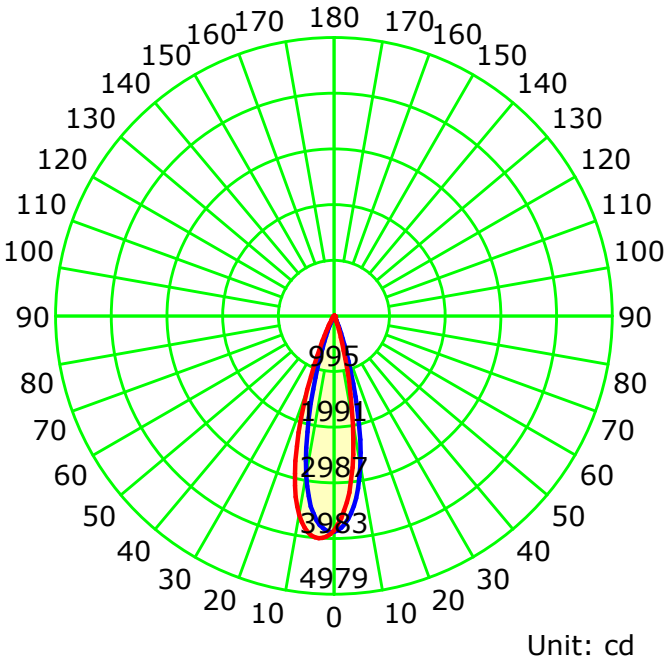
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 949.3 lm
Measurement Flux: 949.3 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Horizontal Diffuse Angle(50%): H27.1
Vertical Diffuse Angle(50%): V27.9
Luminous Efficacy (lm/w): 88.97 C0r0 Intensity: 3863.3 cd
Max. Intensity: 3983.89 cd Pos of Max. Intensity: H270 V4
S/MH(C0/C180): 0.46 S/MH(C90/C270): 0.47

Picture Of Luminaire



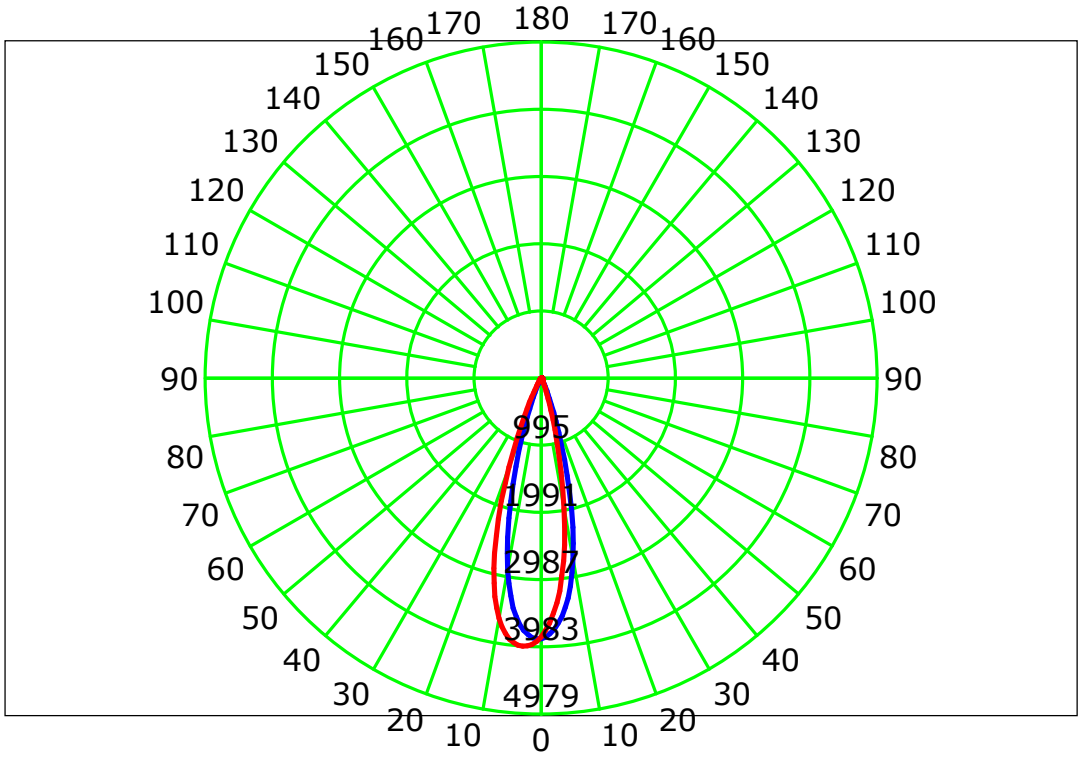
Luminous Intensity Distribution Curve

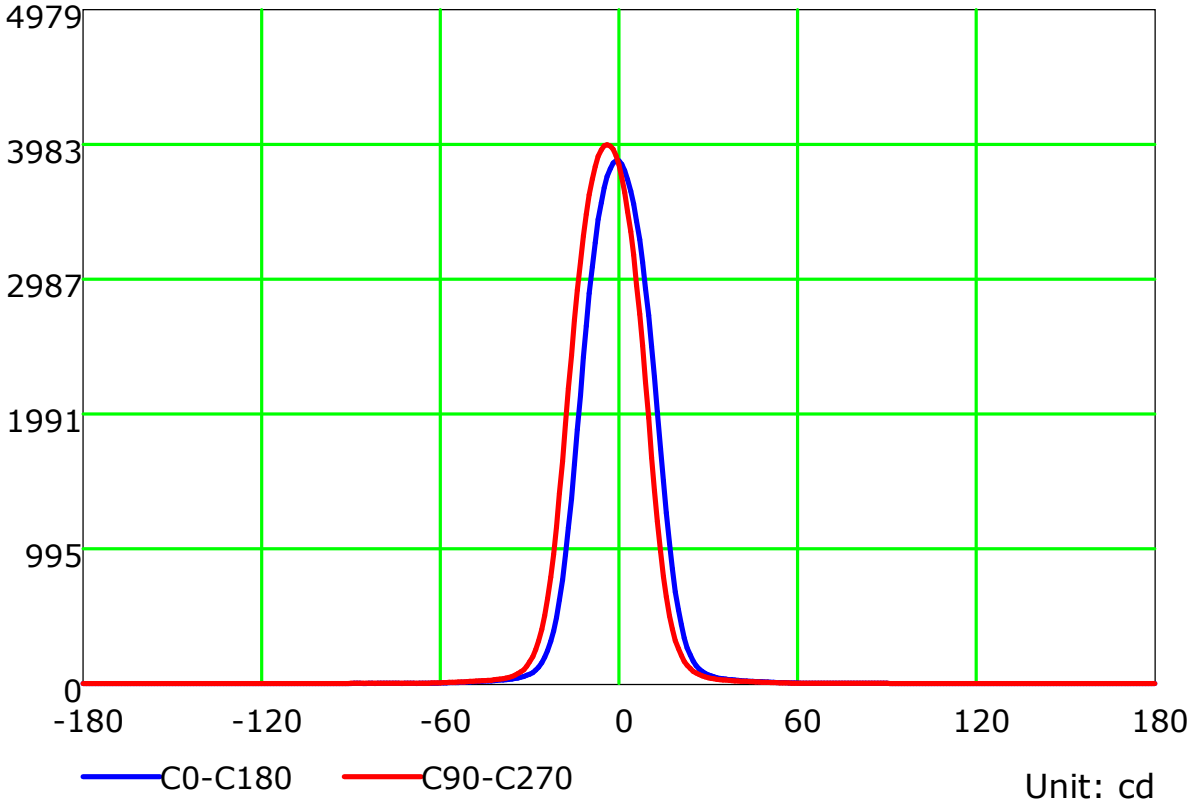


Unit: cd
Average Diffuse Angle(50%): 27.3°
C0-C180 C90-C270

C Plane (°):0.0-360.0: 90.0 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: GPM-1600L
Test Type: TYPE C Distance: 9.904 m [K=1.0000]
Temperature: Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

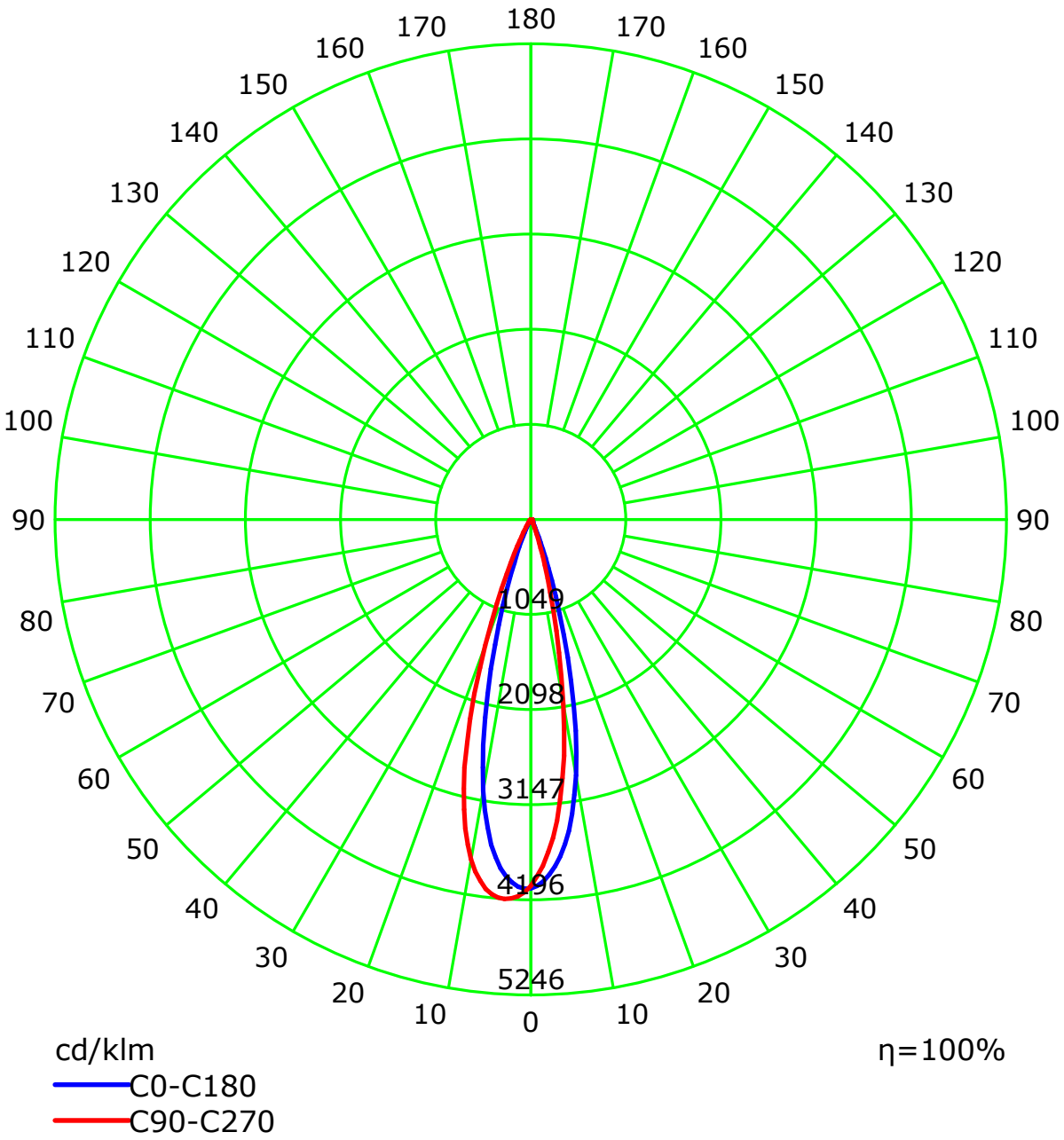




C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

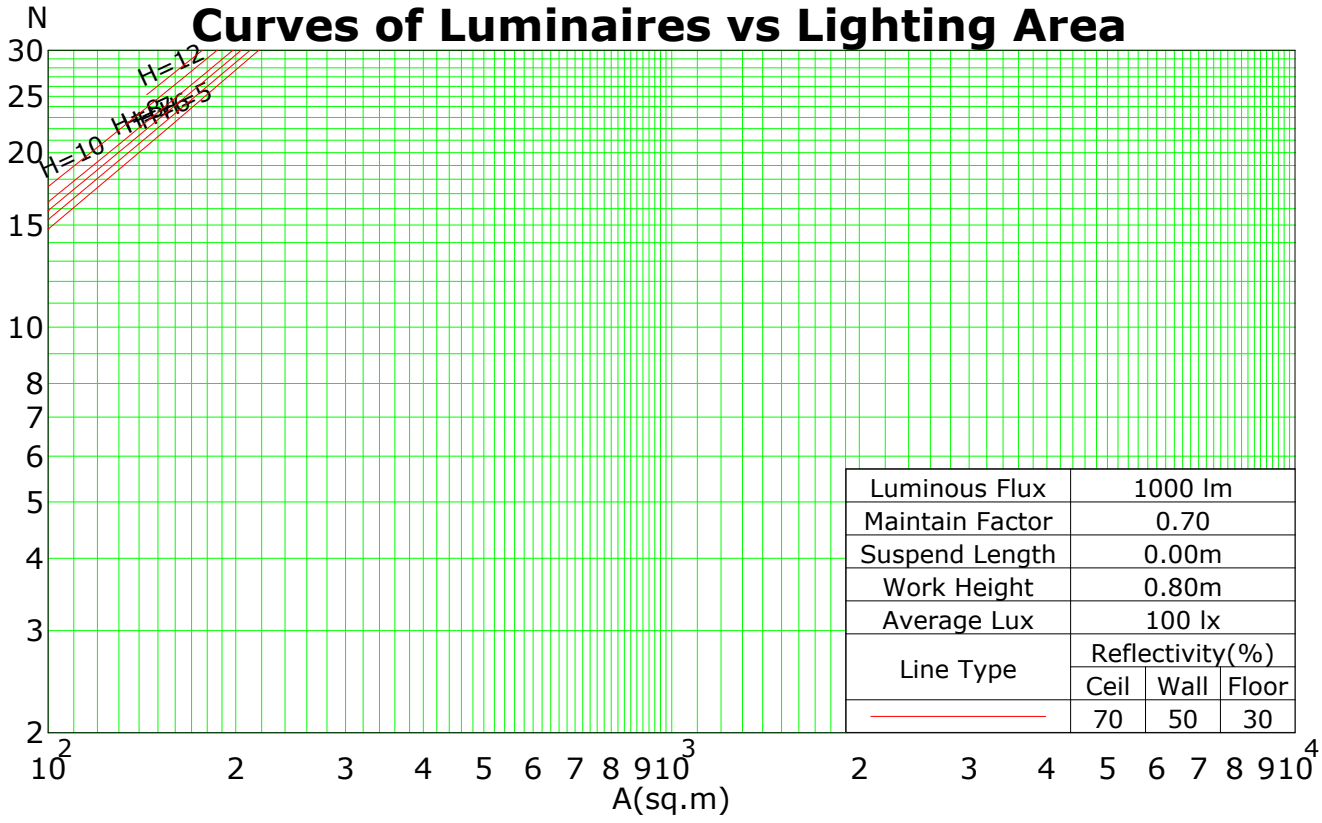
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.10	1.09	1.12	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	0.99	0.98	0.98	0.96
2	1.11	1.07	1.04	1.01	1.09	1.05	1.02	1.00	1.02	1.00	0.98	0.99	0.97	0.96	0.97	0.95	0.94	0.92
3	1.07	1.02	0.99	0.96	1.05	1.01	0.98	0.95	0.98	0.96	0.93	0.96	0.94	0.92	0.94	0.92	0.91	0.89
4	1.04	0.98	0.94	0.91	1.02	0.97	0.93	0.90	0.95	0.92	0.89	0.93	0.91	0.88	0.91	0.89	0.87	0.86
5	1.01	0.94	0.90	0.87	0.99	0.94	0.90	0.87	0.92	0.89	0.86	0.90	0.88	0.85	0.89	0.87	0.85	0.83
6	0.98	0.91	0.87	0.84	0.96	0.90	0.86	0.83	0.89	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.82	0.81
7	0.95	0.88	0.84	0.81	0.94	0.88	0.83	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.84	0.82	0.79	0.78
8	0.92	0.85	0.81	0.78	0.91	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.76
9	0.90	0.83	0.79	0.76	0.89	0.82	0.78	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
10	0.87	0.80	0.76	0.74	0.87	0.80	0.76	0.74	0.79	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.72

Spacing Criteria (0-180): 0.46
Spacing Criteria (90-270): 0.47
Spacing Criteria (Diagonal): 0.45

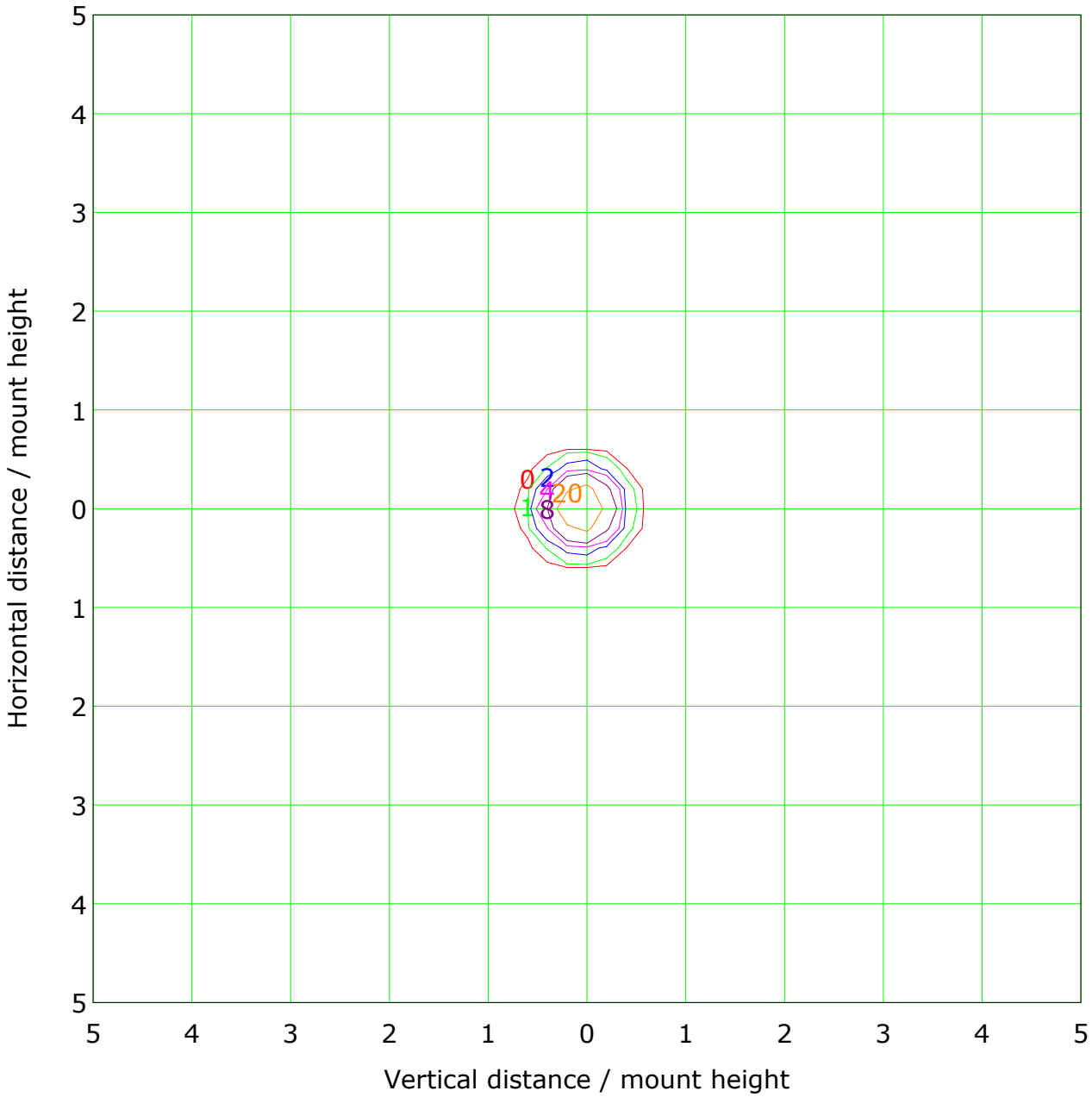
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

IsoLux Plot



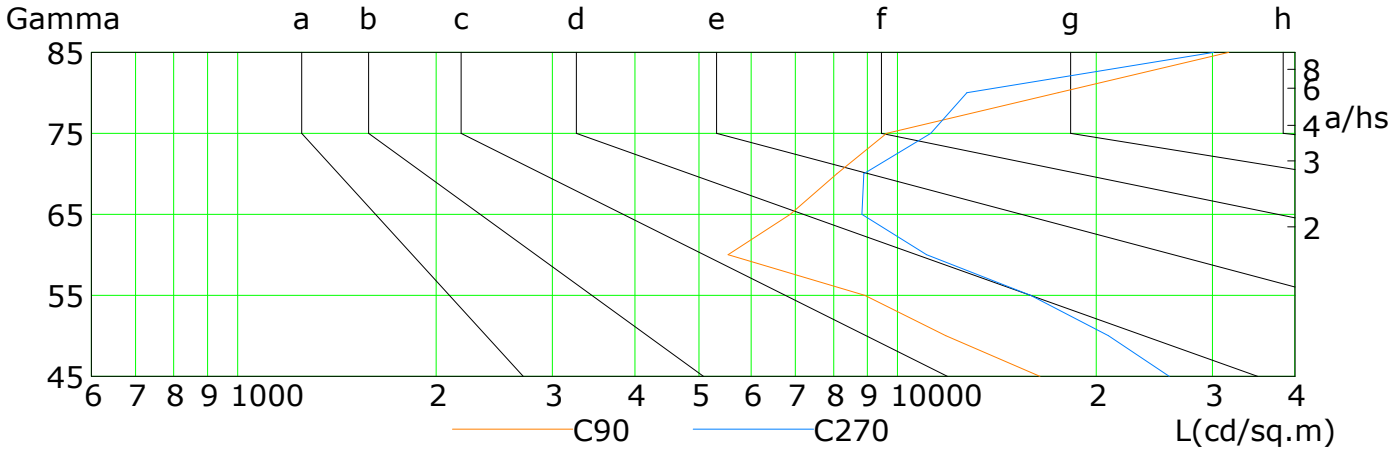
Mounting Height: 10.0m Max Lux(100%): 39.6 lx

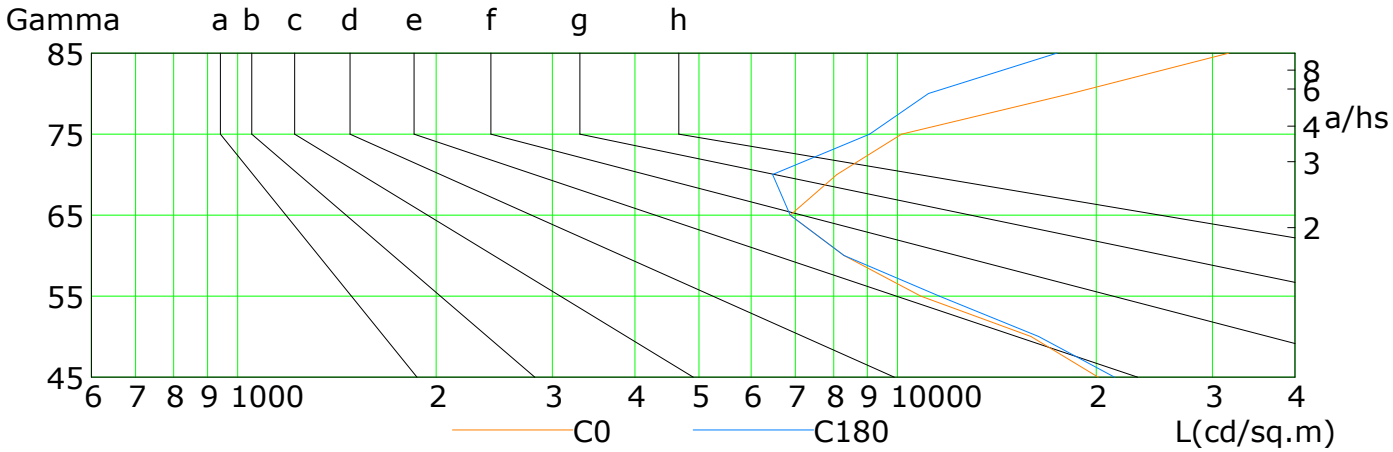
(1%): 0.4 lx
(2%): 0.8 lx
(5%): 2.0 lx
(10%): 4.0 lx
(20%): 7.9 lx
(50%): 19.8 lx
(100%): 39.6 lx

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab:
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 9.904 m [K=1.0000]
Temperature:
Humidity:
Operator:
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



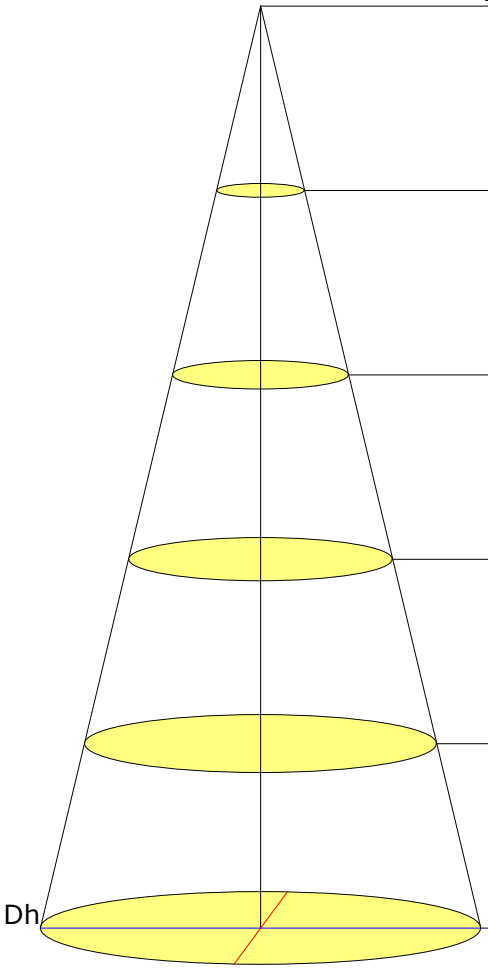


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	20145	15921	10849	8292	6873	8097	10146	18331	31774
C90	16431	11835	8921	5539	6873	8097	9624	17506	31774
C180	21315	16354	11571	8292	6873	6468	9070	11136	17439
C270	25817	20873	15913	11061	8831	8888	11222	12740	30131

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Illuminance at a Distance



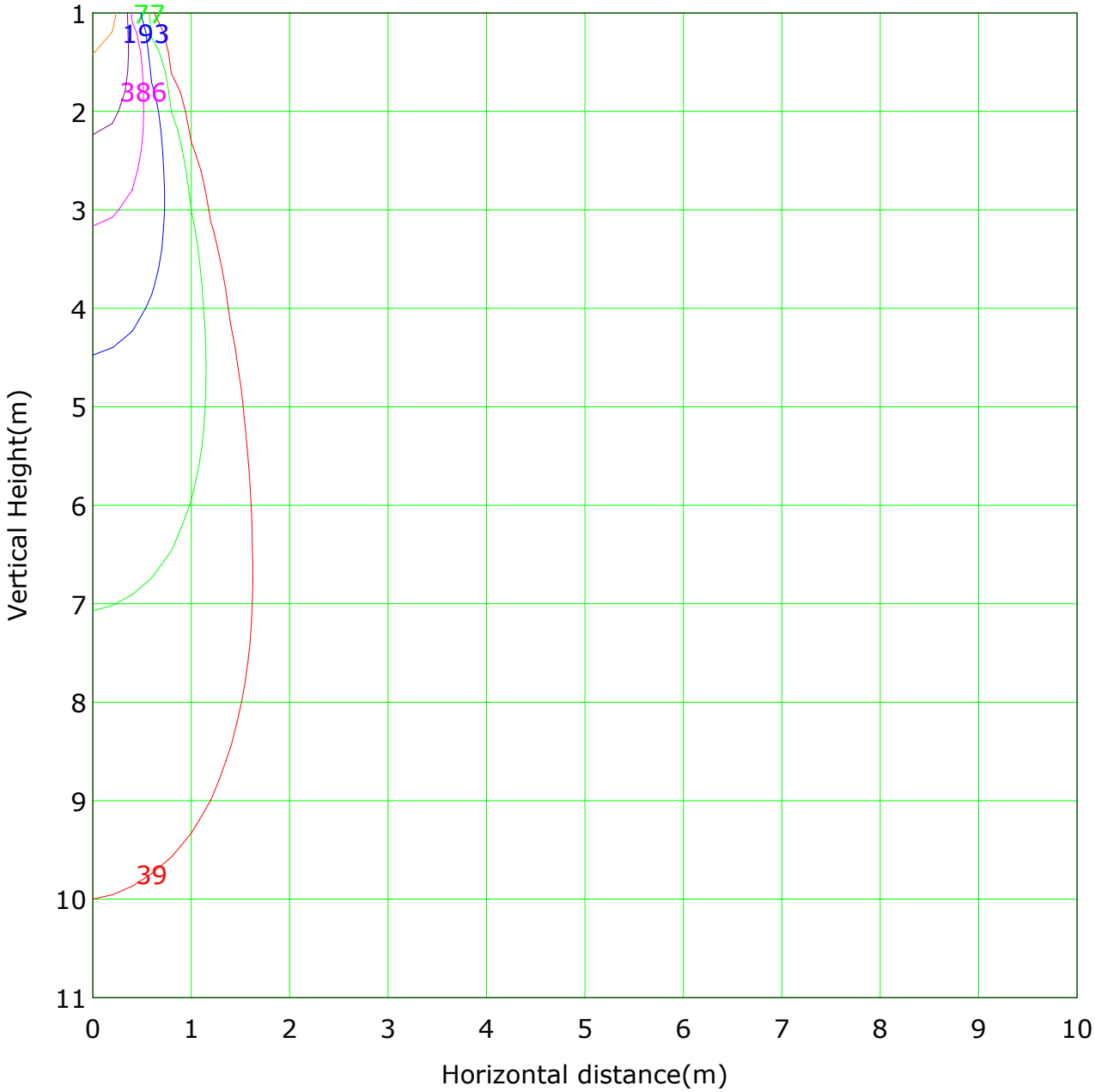
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	3863.30	0.48/0.49	0.2	1708.63
2.0	965.83	0.96/0.98	0.8	427.16
3.0	429.26	1.44/1.47	1.7	189.85
4.0	241.46	1.93/1.97	3.1	106.79
5.0	154.53	2.41/2.46	4.8	68.35

Beam Angle(B): H27.1 V27.6 Field Angle(F): H43.5 V44.1

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3863.3 lx

(1%): 38.6 lx	(2%): 77.3 lx
(5%): 193.2 lx	(10%): 386.3 lx
(20%): 772.7 lx	(50%):1931.6 lx
(100%):3863.3 lx	

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Area Flux Table

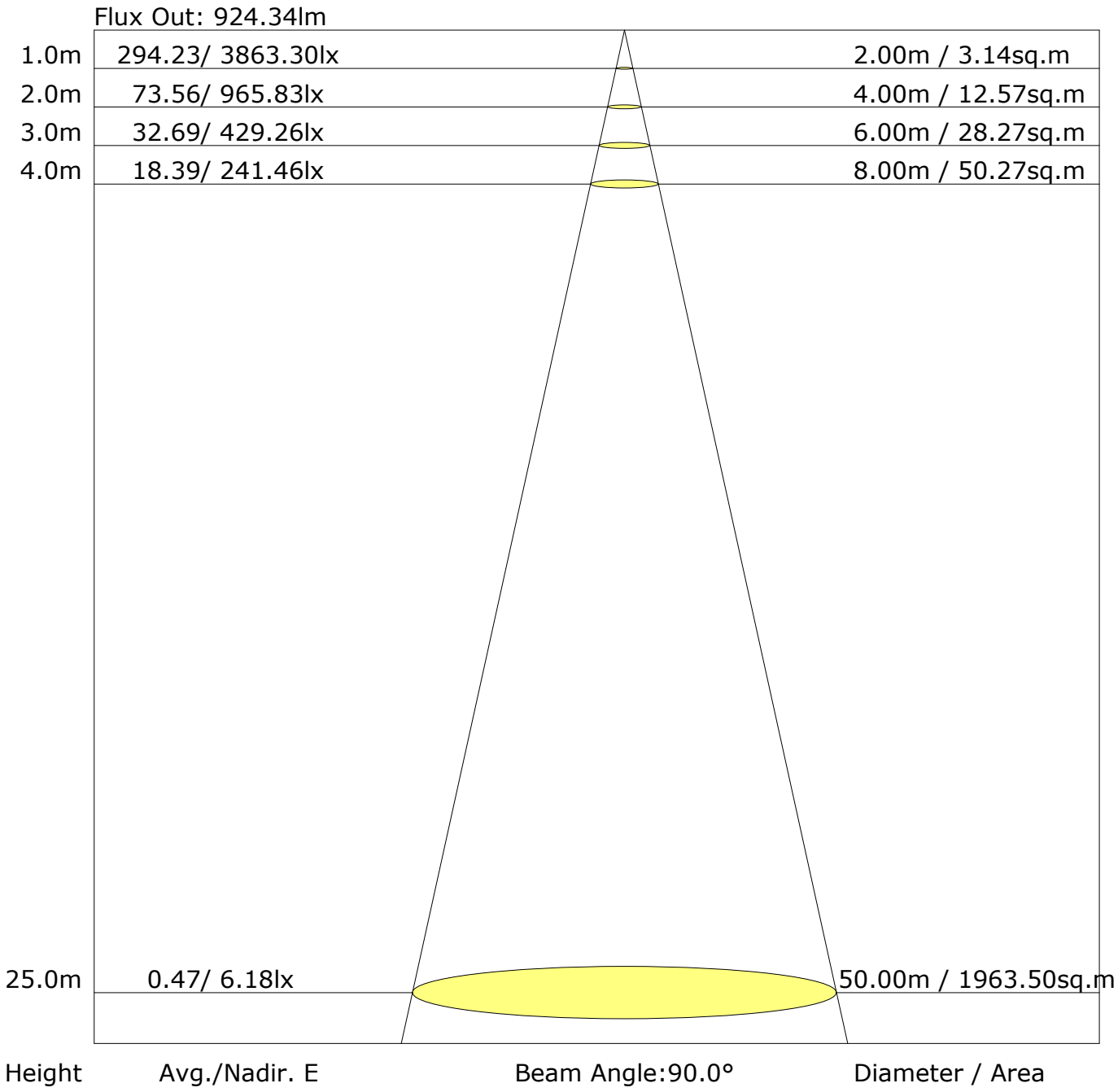
Unit: lm

Vertical plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane																					
-90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
-80	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
-70	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
-60	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.5	0.0
-50	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	3.2	0.0
-40	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.8	0.0
-30	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24.6	4.2
-20	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	135.5	119.1
-10	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	308.9	294.5
0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	303.1	288.8
10	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	128.0	111.3
20	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	22.8	3.0
30	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.6	0.0
40	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.2	0.0
50	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	948	821
Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1		0.0
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

UGR Table

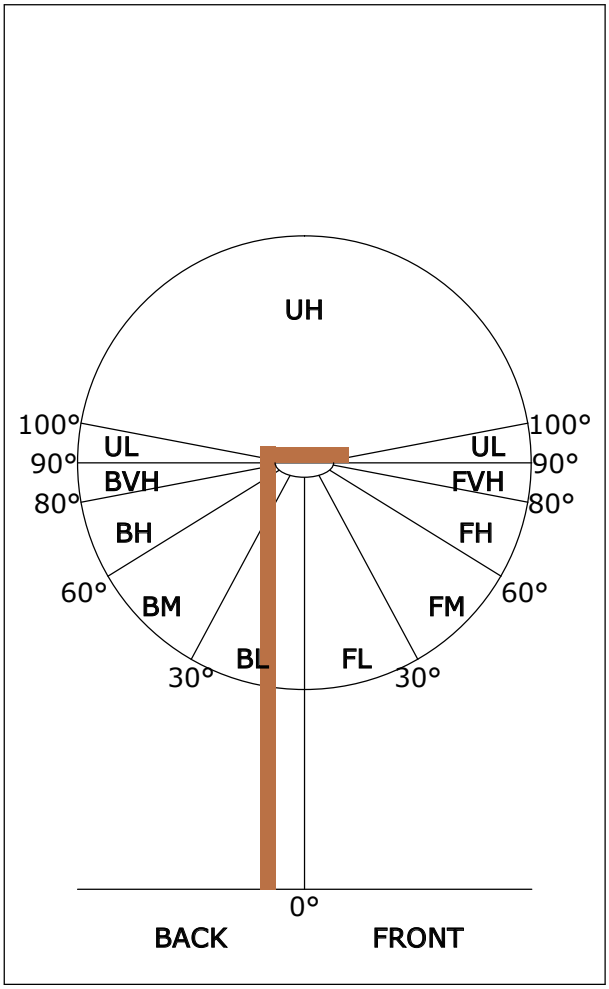
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	12.4	13.0	12.6	13.2	13.4	13.2	13.8	13.4	14.0	14.2
3H	12.9	13.5	13.2	13.7	14.0	13.7	14.3	14.0	14.5	14.7
4H	13.5	14.0	13.8	14.3	14.5	14.2	14.7	14.5	15.0	15.2
6H	14.5	15.0	14.8	15.3	15.5	15.0	15.5	15.3	15.8	16.1
8H	15.2	15.6	15.5	15.9	16.2	15.6	16.1	15.9	16.4	16.7
12H	15.9	16.4	16.3	16.7	17.0	16.4	16.9	16.8	17.2	17.5
X=4H Y=2H	12.5	13.1	12.8	13.3	13.6	13.3	13.8	13.6	14.1	14.3
3H	13.3	13.8	13.7	14.1	14.4	14.0	14.5	14.4	14.8	15.1
4H	14.1	14.5	14.5	14.9	15.2	14.7	15.2	15.1	15.5	15.8
6H	15.5	15.9	15.9	16.2	16.6	15.9	16.2	16.3	16.6	17.0
8H	16.4	16.7	16.8	17.1	17.5	16.7	17.0	17.1	17.4	17.8
12H	17.4	17.7	17.8	18.1	18.5	17.7	18.0	18.2	18.4	18.9
X=8H Y=4H	14.5	14.9	15.0	15.3	15.7	15.1	15.4	15.5	15.8	16.2
6H	16.2	16.5	16.7	17.0	17.4	16.5	16.8	17.0	17.2	17.7
8H	17.4	17.6	17.8	18.0	18.5	17.6	17.8	18.1	18.3	18.8
12H	18.6	18.8	19.1	19.3	19.8	18.9	19.1	19.4	19.6	20.1
X=12H Y=4H	14.7	15.0	15.1	15.4	15.8	15.2	15.5	15.6	15.9	16.3
6H	16.5	16.8	17.0	17.2	17.7	16.8	17.0	17.2	17.5	17.9
8H	17.7	17.9	18.2	18.4	18.9	17.9	18.2	18.4	18.6	19.1
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.5					+1.9/-0.9				
S=1.5H	+1.2/-1.4					+3.4/-1.9				
S=2.0H	+2.1/-2.0					+4.9/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 949lm (8log(F/F0) = -0.2).

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	467	49.2
FL (0°-30°)	437	46.0
FM (30°-60°)	25	2.6
FH (60°-80°)	4	0.4
FVH (80°-90°)	2	0.2
BACK LIGHT	482	50.8
BL (0°-30°)	452	47.6
BM (30°-60°)	26	2.7
BH (60°-80°)	3	0.4
BVH (80°-90°)	2	0.2
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	NA	NA

BUG(**B**acklight,**U**plight,**G**lare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50								
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	0.95	0.99	1.02	1.05	1.08	1.10	1.11	1.13	1.14
	0.30		0.91	0.96	0.99	1.01	1.05	1.07	1.09	1.11	1.13
	0.20		0.88	0.93	0.96	0.99	1.03	1.05	1.07	1.09	1.11
0.50	0.50	0.20	0.93	0.98	1.00	1.02	1.05	1.07	1.08	1.09	1.10
	0.30		0.90	0.95	0.98	1.00	1.03	1.05	1.06	1.08	1.09
	0.20		0.88	0.92	0.95	0.97	1.01	1.03	1.04	1.06	1.08
0.30	0.50	0.20	0.92	0.96	0.99	1.00	1.02	1.04	1.05	1.06	1.06
	0.30		0.89	0.93	0.96	0.98	1.00	1.02	1.03	1.05	1.05
	0.20		0.87	0.91	0.94	0.96	0.99	1.01	1.02	1.03	1.05
0.00	0.00	0.00	0.86	0.90	0.92	0.94	0.96	0.97	0.98	0.99	1.00

Rating:11W 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: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.50								
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	0.47	0.39	0.33	0.29	0.23	0.19	0.16	0.13	0.10
	0.30		0.40	0.33	0.29	0.25	0.21	0.17	0.15	0.12	0.10
	0.20		0.34	0.29	0.25	0.23	0.19	0.16	0.14	0.11	0.09
0.50	0.50	0.20	0.45	0.36	0.30	0.26	0.21	0.22	0.15	0.11	0.09
	0.30		0.38	0.31	0.27	0.24	0.19	0.16	0.14	0.11	0.09
	0.20		0.33	0.28	0.24	0.21	0.18	0.15	0.13	0.10	0.09
0.30	0.50	0.20	0.43	0.34	0.28	0.24	0.19	0.16	0.13	0.10	0.08
	0.30		0.36	0.30	0.25	0.22	0.18	0.15	0.13	0.10	0.08
	0.20		0.32	0.27	0.23	0.20	0.16	0.14	0.12	0.09	0.08
0.00	0.00	0.00	0.17	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.03

Rating:11W 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: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.50								
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	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.30	0.50	0.20	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.19
	0.30		0.08	0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.06	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA

Rating:11W 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: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	3863.3	3836.7	3863.3	3836.7	3863.3					
G1.0	3837.6	3738.2	3865.6	3903.4	3837.6					
G2.0	3790.3	3631.0	3848.7	3948.6	3790.3					
G3.0	3724.1	3487.9	3805.3	3974.2	3724.1					
G4.0	3639.6	3342.0	3748.3	3983.9	3639.6					
G5.0	3544.9	3168.9	3666.2	3975.2	3544.9					
G6.0	3417.2	2944.9	3554.7	3943.8	3417.2					
G7.0	3283.1	2730.5	3431.5	3898.1	3283.1					
G8.0	3114.9	2499.7	3258.7	3821.2	3114.9					
G9.0	2917.5	2226.9	3082.5	3730.0	2917.5					
G10.0	2722.7	1964.7	2886.2	3613.4	2722.7					
G11.0	2493.1	1670.8	2644.5	3470.1	2493.1					
G12.0	2264.3	1426.2	2413.5	3309.3	2264.3					
G13.0	2006.7	1197.6	2130.1	3116.8	2006.7					
G14.0	1738.1	978.9	1878.8	2907.6	1738.1					
G15.0	1497.9	791.7	1621.6	2688.6	1497.9					
G16.0	1261.2	643.1	1366.2	2425.3	1261.2					
G17.0	1036.9	500.6	1154.0	2182.8	1036.9					
G18.0	849.2	404.2	953.1	1918.6	849.2					
G19.0	677.0	318.7	768.4	1642.7	677.0					
G20.0	545.0	259.4	618.8	1406.0	545.0					
G21.0	435.5	210.4	488.8	1159.1	435.5					
G22.0	336.8	165.6	389.6	955.4	336.8					
G23.0	264.5	135.5	312.8	785.5	264.5					
G24.0	212.7	111.7	243.8	627.5	212.7					
G25.0	166.6	91.9	196.2	502.2	166.6					
G26.0	134.1	79.1	155.4	400.9	134.1					
G27.0	107.0	67.3	122.3	315.4	107.0					
G28.0	90.0	58.6	100.8	252.3	90.0					
G29.0	76.3	51.3	82.2	200.9	76.3					
G30.0	65.7	44.5	70.7	161.1	65.7					
G31.0	57.0	40.0	61.7	129.8	57.0					
G32.0	50.2	35.8	54.4	103.6	50.2					
G33.0	44.1	33.0	47.6	87.6	44.1					
G34.0	39.3	29.9	42.6	74.0	39.3					
G35.0	36.0	27.5	38.6	62.4	36.0					
G36.0	33.2	26.1	35.5	54.4	33.2					

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	30.2	24.3	32.8	46.9	30.2					
G38.0	28.7	22.1	30.1	41.7	28.7					
G39.0	26.6	20.7	28.1	36.8	26.6					
G40.0	24.1	20.3	26.1	33.7	24.1					
G41.0	22.8	18.8	24.3	31.1	22.8					
G42.0	21.2	18.3	22.8	28.9	21.2					
G43.0	19.6	16.9	20.7	25.9	19.6					
G44.0	18.6	15.1	19.3	24.1	18.6					
G45.0	17.9	14.6	18.9	22.9	17.9					
G46.0	16.2	13.9	17.4	21.7	16.2					
G47.0	16.0	12.7	16.7	19.6	16.0					
G48.0	14.6	11.6	15.5	19.5	14.6					
G49.0	13.6	10.6	14.6	17.7	13.6					
G50.0	12.9	9.6	13.2	16.9	12.9					
G51.0	11.6	9.2	12.2	15.3	11.6					
G52.0	10.4	8.3	10.9	14.1	10.4					
G53.0	9.2	7.7	10.1	13.4	9.2					
G54.0	8.9	6.4	8.5	12.3	8.9					
G55.0	7.8	6.4	8.3	11.5	7.8					
G56.0	7.7	5.0	7.8	10.8	7.7					
G57.0	6.9	4.9	7.3	9.7	6.9					
G58.0	5.7	4.7	6.1	8.7	5.7					
G59.0	6.1	4.3	5.0	8.3	6.1					
G60.0	5.2	3.5	5.2	6.9	5.2					
G61.0	4.0	3.1	4.0	6.9	4.0					
G62.0	4.7	3.8	4.0	5.9	4.7					
G63.0	3.5	3.5	4.2	6.1	3.5					
G64.0	3.1	3.3	3.5	4.7	3.1					
G65.0	3.7	3.7	3.7	4.7	3.7					
G66.0	3.7	3.5	3.3	4.5	3.7					
G67.0	2.8	3.5	3.0	4.0	2.8					
G68.0	3.7	3.3	2.1	4.0	3.7					
G69.0	3.5	2.8	2.4	4.5	3.5					
G70.0	3.5	3.5	2.8	3.8	3.5					
G71.0	3.5	3.3	2.6	3.8	3.5					
G72.0	3.1	3.7	2.8	3.7	3.1					
G73.0	3.1	2.6	1.7	3.7	3.1					

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G74.0	3.5	4.0	2.4	3.7	3.5					
G75.0	3.3	3.1	3.0	3.7	3.3					
G76.0	3.0	3.5	2.6	3.7	3.0					
G77.0	3.5	3.7	2.6	3.7	3.5					
G78.0	3.0	3.1	2.6	3.3	3.0					
G79.0	3.5	3.1	2.8	3.3	3.5					
G80.0	4.0	3.8	2.4	2.8	4.0					
G81.0	3.0	3.8	2.6	3.7	3.0					
G82.0	3.5	3.0	2.3	3.0	3.5					
G83.0	3.5	3.7	2.6	4.2	3.5					
G84.0	2.6	3.1	2.6	3.3	2.6					
G85.0	3.5	3.5	1.9	3.3	3.5					
G86.0	3.3	3.1	2.1	2.8	3.3					
G87.0	3.5	3.7	2.8	3.3	3.5					
G88.0	3.7	4.0	2.6	3.3	3.7					
G89.0	3.3	3.1	2.4	3.0	3.3					
G90.0	3.8	3.5	2.1	3.3	3.8					
G91.0	0.0	0.0	0.0	0.0	0.0					
G92.0	0.0	0.0	0.0	0.0	0.0					
G93.0	0.0	0.0	0.0	0.0	0.0					
G94.0	0.0	0.0	0.0	0.0	0.0					
G95.0	0.0	0.0	0.0	0.0	0.0					
G96.0	0.0	0.0	0.0	0.0	0.0					
G97.0	0.0	0.0	0.0	0.0	0.0					
G98.0	0.0	0.0	0.0	0.0	0.0					
G99.0	0.0	0.0	0.0	0.0	0.0					
G100.0	0.0	0.0	0.0	0.0	0.0					
G101.0	0.0	0.0	0.0	0.0	0.0					
G102.0	0.0	0.0	0.0	0.0	0.0					
G103.0	0.0	0.0	0.0	0.0	0.0					
G104.0	0.0	0.0	0.0	0.0	0.0					
G105.0	0.0	0.0	0.0	0.0	0.0					
G106.0	0.0	0.0	0.0	0.0	0.0					
G107.0	0.0	0.0	0.0	0.0	0.0					
G108.0	0.0	0.0	0.0	0.0	0.0					
G109.0	0.0	0.0	0.0	0.0	0.0					
G110.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G111.0	0.0	0.0	0.0	0.0	0.0					
G112.0	0.0	0.0	0.0	0.0	0.0					
G113.0	0.0	0.0	0.0	0.0	0.0					
G114.0	0.0	0.0	0.0	0.0	0.0					
G115.0	0.0	0.0	0.0	0.0	0.0					
G116.0	0.0	0.0	0.0	0.0	0.0					
G117.0	0.0	0.0	0.0	0.0	0.0					
G118.0	0.0	0.0	0.0	0.0	0.0					
G119.0	0.0	0.0	0.0	0.0	0.0					
G120.0	0.0	0.0	0.0	0.0	0.0					
G121.0	0.0	0.0	0.0	0.0	0.0					
G122.0	0.0	0.0	0.0	0.0	0.0					
G123.0	0.0	0.0	0.0	0.0	0.0					
G124.0	0.0	0.0	0.0	0.0	0.0					
G125.0	0.0	0.0	0.0	0.0	0.0					
G126.0	0.0	0.0	0.0	0.0	0.0					
G127.0	0.0	0.0	0.0	0.0	0.0					
G128.0	0.0	0.0	0.0	0.0	0.0					
G129.0	0.0	0.0	0.0	0.0	0.0					
G130.0	0.0	0.0	0.0	0.0	0.0					
G131.0	0.0	0.0	0.0	0.0	0.0					
G132.0	0.0	0.0	0.0	0.0	0.0					
G133.0	0.0	0.0	0.0	0.0	0.0					
G134.0	0.0	0.0	0.0	0.0	0.0					
G135.0	0.0	0.0	0.0	0.0	0.0					
G136.0	0.0	0.0	0.0	0.0	0.0					
G137.0	0.0	0.0	0.0	0.0	0.0					
G138.0	0.0	0.0	0.0	0.0	0.0					
G139.0	0.0	0.0	0.0	0.0	0.0					
G140.0	0.0	0.0	0.0	0.0	0.0					
G141.0	0.0	0.0	0.0	0.0	0.0					
G142.0	0.0	0.0	0.0	0.0	0.0					
G143.0	0.0	0.0	0.0	0.0	0.0					
G144.0	0.0	0.0	0.0	0.0	0.0					
G145.0	0.0	0.0	0.0	0.0	0.0					
G146.0	0.0	0.0	0.0	0.0	0.0					
G147.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G148.0	0.0	0.0	0.0	0.0	0.0					
G149.0	0.0	0.0	0.0	0.0	0.0					
G150.0	0.0	0.0	0.0	0.0	0.0					
G151.0	0.0	0.0	0.0	0.0	0.0					
G152.0	0.0	0.0	0.0	0.0	0.0					
G153.0	0.0	0.0	0.0	0.0	0.0					
G154.0	0.0	0.0	0.0	0.0	0.0					
G155.0	0.0	0.0	0.0	0.0	0.0					
G156.0	0.0	0.0	0.0	0.0	0.0					
G157.0	0.0	0.0	0.0	0.0	0.0					
G158.0	0.0	0.0	0.0	0.0	0.0					
G159.0	0.0	0.0	0.0	0.0	0.0					
G160.0	0.0	0.0	0.0	0.0	0.0					
G161.0	0.0	0.0	0.0	0.0	0.0					
G162.0	0.0	0.0	0.0	0.0	0.0					
G163.0	0.0	0.0	0.0	0.0	0.0					
G164.0	0.0	0.0	0.0	0.0	0.0					
G165.0	0.0	0.0	0.0	0.0	0.0					
G166.0	0.0	0.0	0.0	0.0	0.0					
G167.0	0.0	0.0	0.0	0.0	0.0					
G168.0	0.0	0.0	0.0	0.0	0.0					
G169.0	0.0	0.0	0.0	0.0	0.0					
G170.0	0.0	0.0	0.0	0.0	0.0					
G171.0	0.0	0.0	0.0	0.0	0.0					
G172.0	0.0	0.0	0.0	0.0	0.0					
G173.0	0.0	0.0	0.0	0.0	0.0					
G174.0	0.0	0.0	0.0	0.0	0.0					
G175.0	0.0	0.0	0.0	0.0	0.0					
G176.0	0.0	0.0	0.0	0.0	0.0					
G177.0	0.0	0.0	0.0	0.0	0.0					
G178.0	0.0	0.0	0.0	0.0	0.0					
G179.0	0.0	0.0	0.0	0.0	0.0					
G180.0	0.0	0.0	0.0	0.0	0.0					

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 9.904 m [K=1.0000]
Humidity:
Inspector: