

Report No.:

Test Time: 2020-09-28 11:01

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-GB-4D9CC-WH 5000K

Voltage: 120.3 V

Current: 0.083 A

Power: 9.76 W

Power Factor: 0.972

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 643.8 lm

Measurement Flux: 643.8 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.7, 161.3, 161.1, 160.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.9, 108.4, 108.0, 108.1

Luminaire Efficacy Rating (LER): 66.01

Central Intensity: 235.08 cd

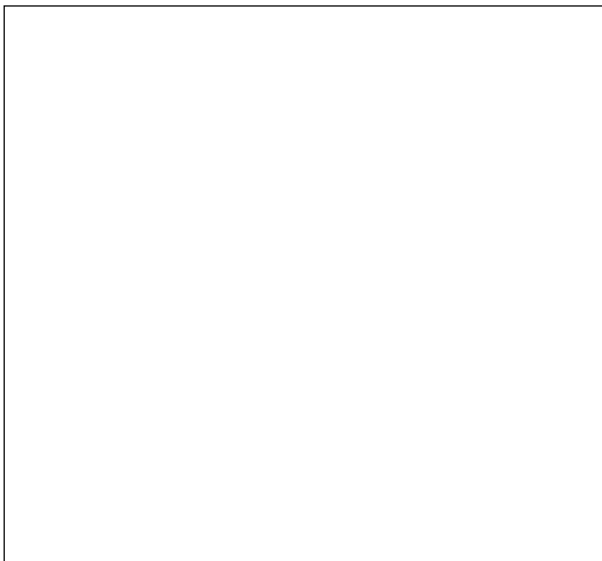
Max. Intensity: 237 cd

Pos of Max. Intensity: H150 V5

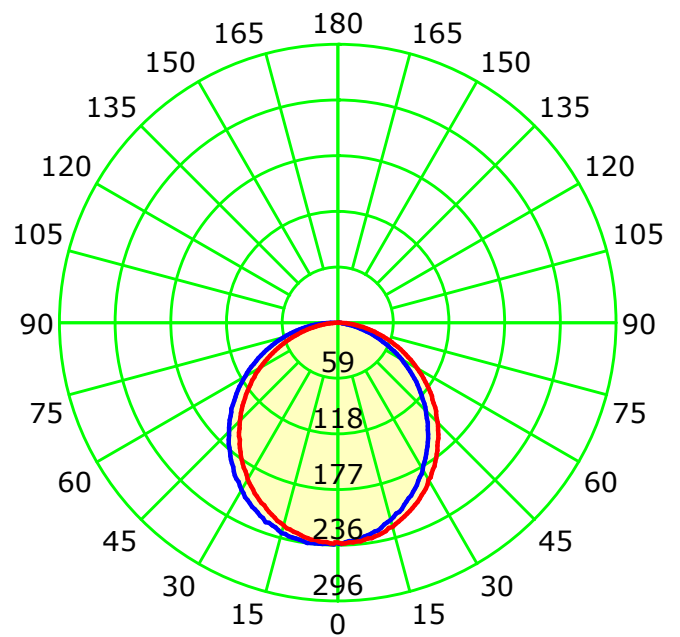
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab:

Test Device: GPM-1600L

Test Type: TYPE C

Distance: 6.935 m

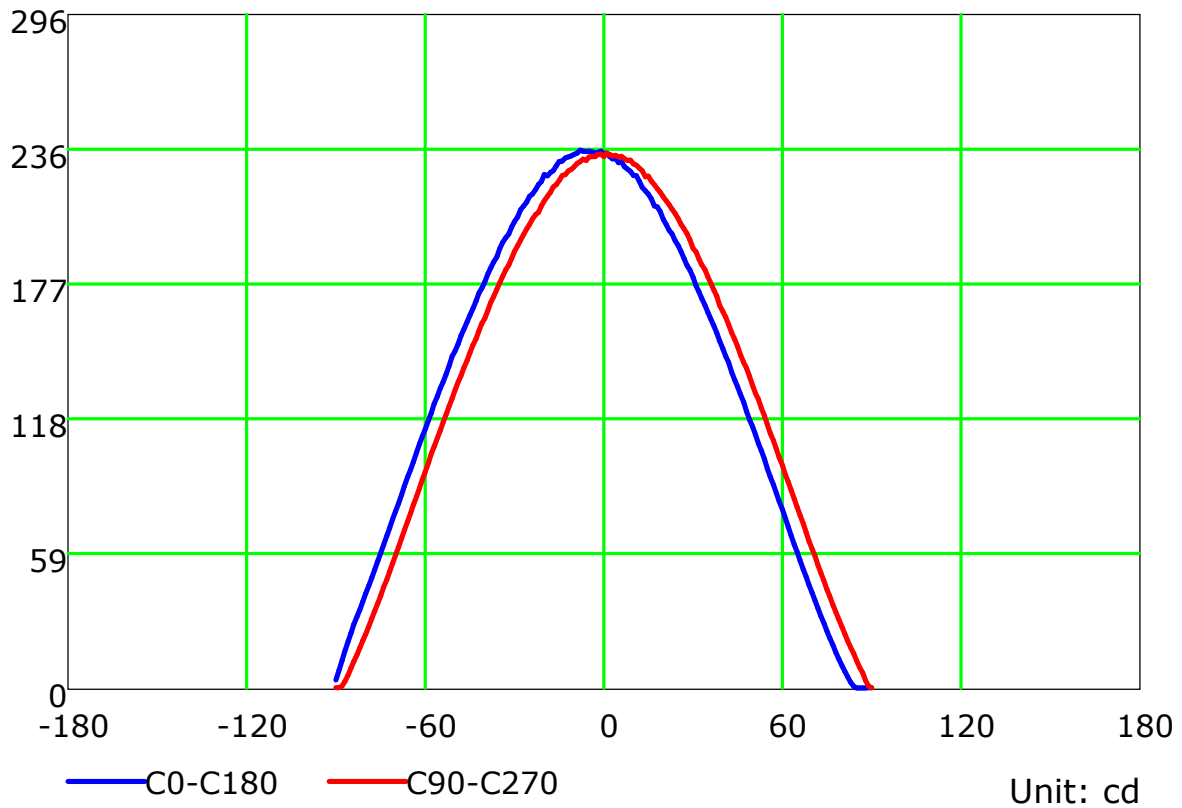
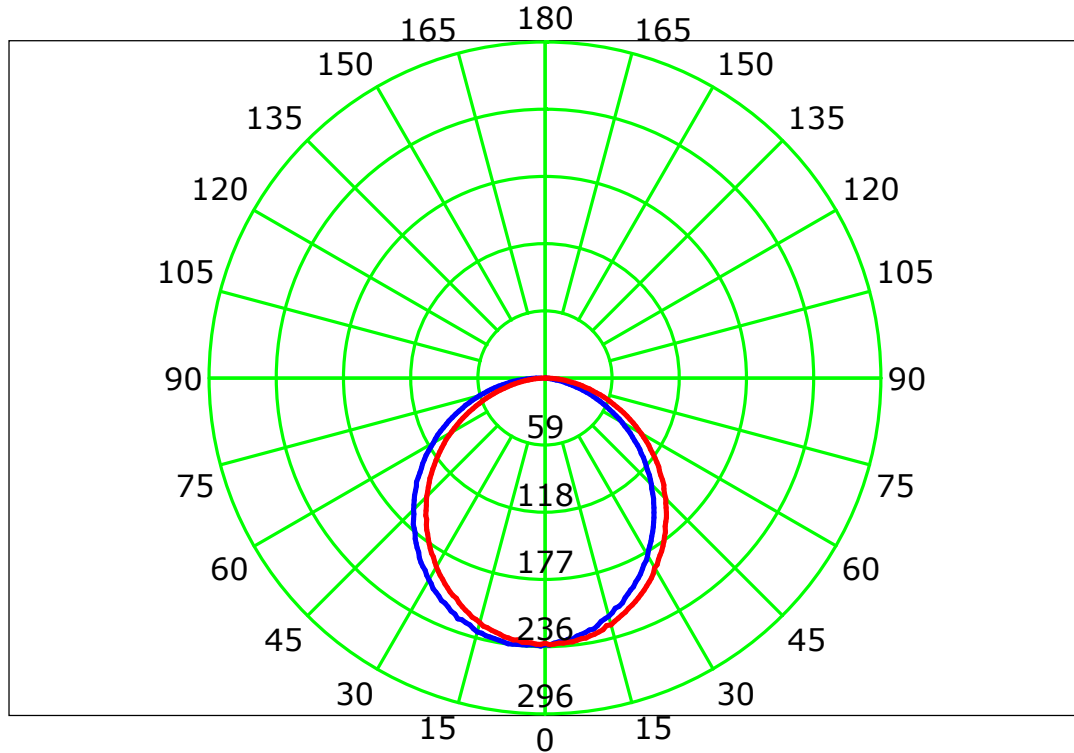
Temperature:

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 (°):0.0-90.0:1.0

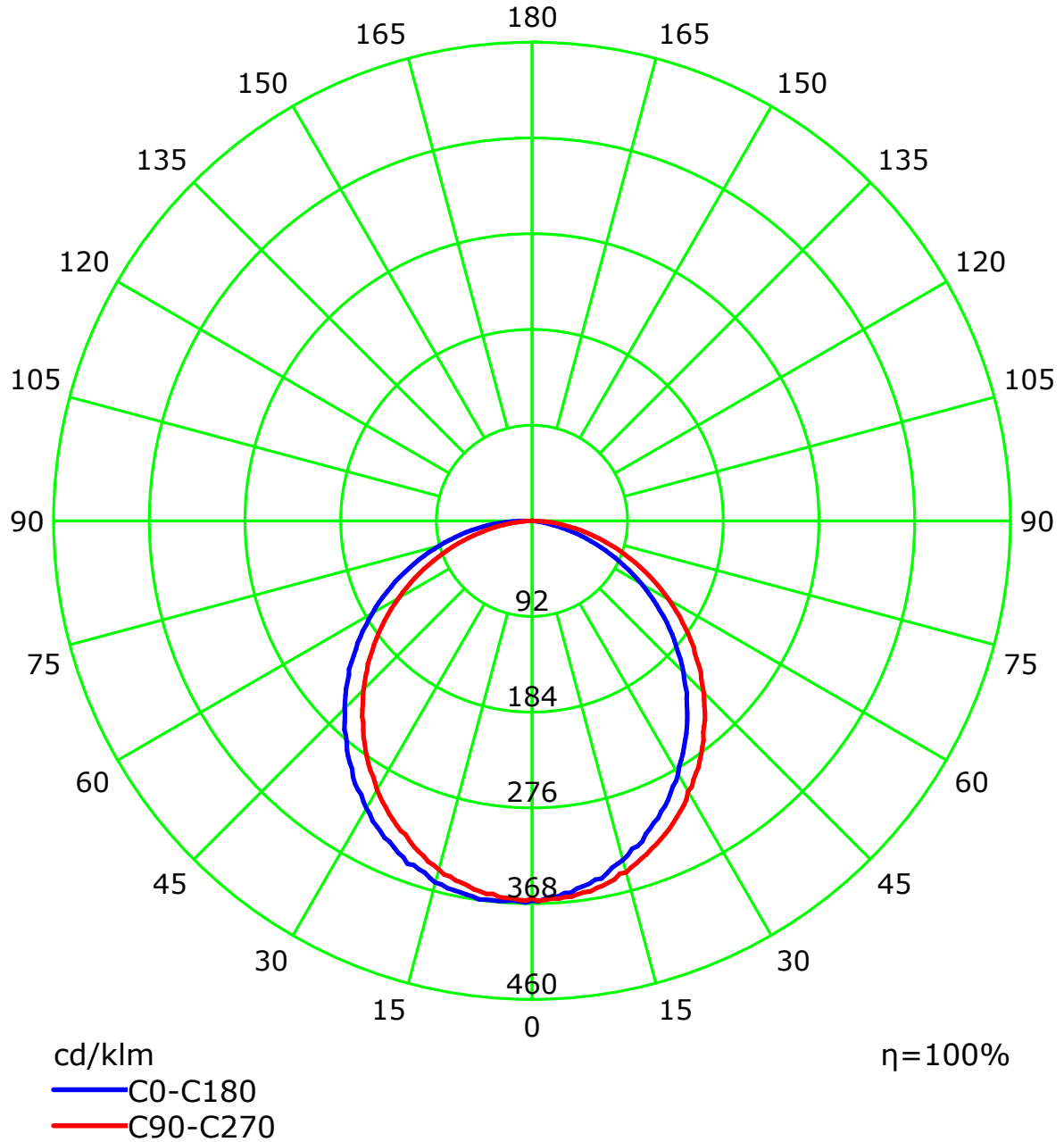
Test Device: GPM-1600L

Distance: 6.935 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 (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

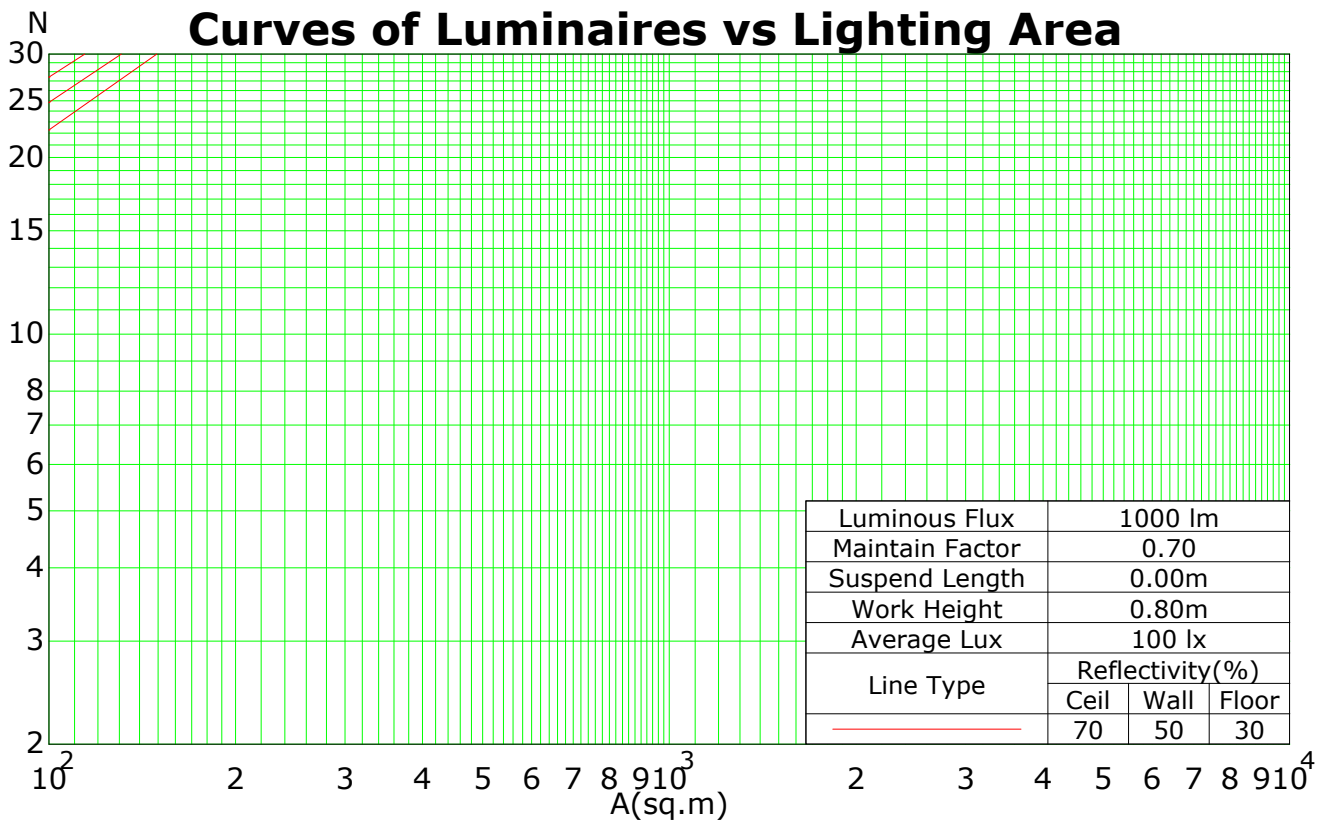
Humidity:

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

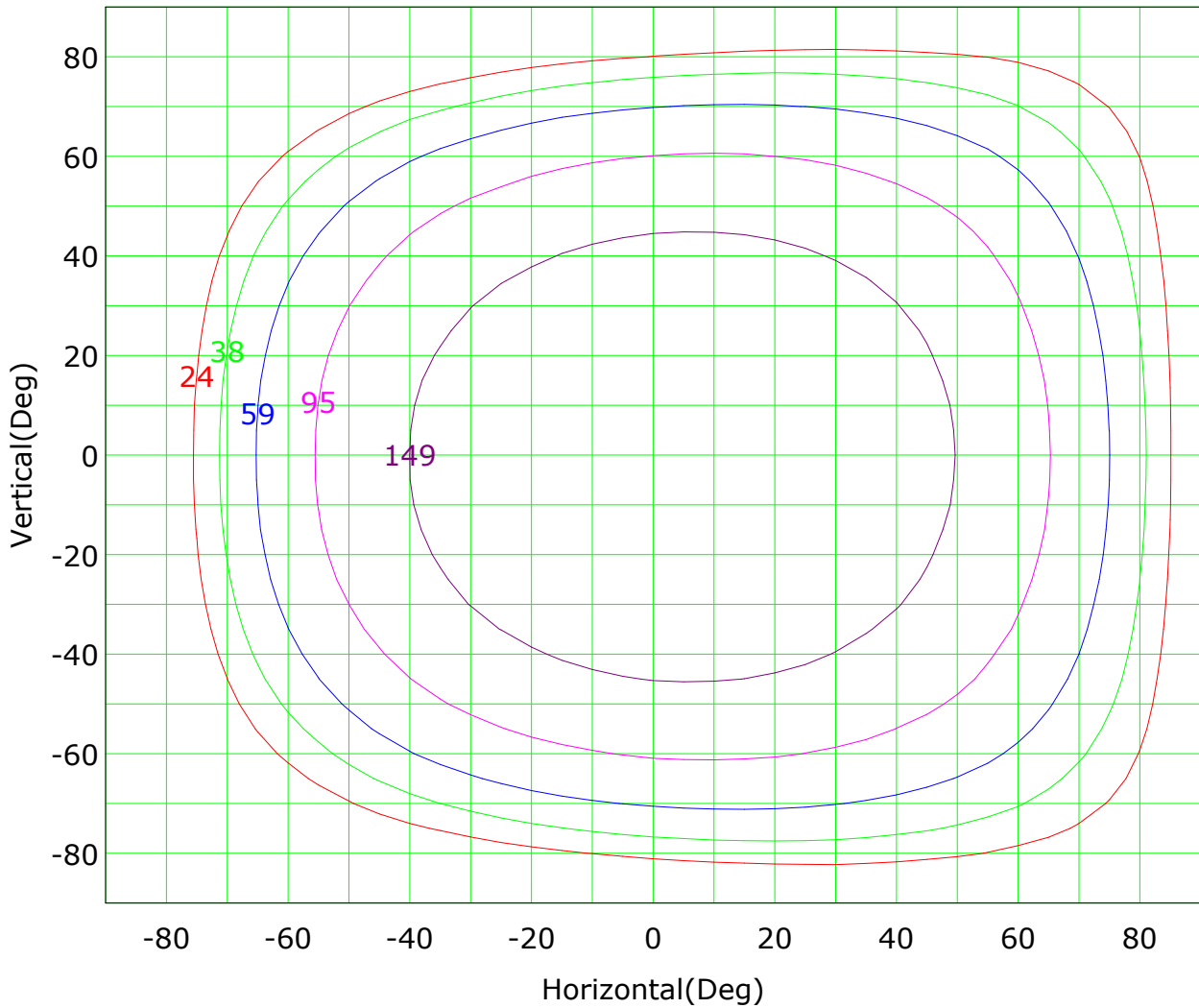
Spacing Criteria (0-180): 1.22
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.34



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 237 cd

- | | | | |
|-----------|--------|-----------|--------|
| — (10%): | 24 cd | — (16%): | 38 cd |
| — (25%): | 59 cd | — (40%): | 95 cd |
| — (63%): | 149 cd | — (100%): | 237 cd |

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

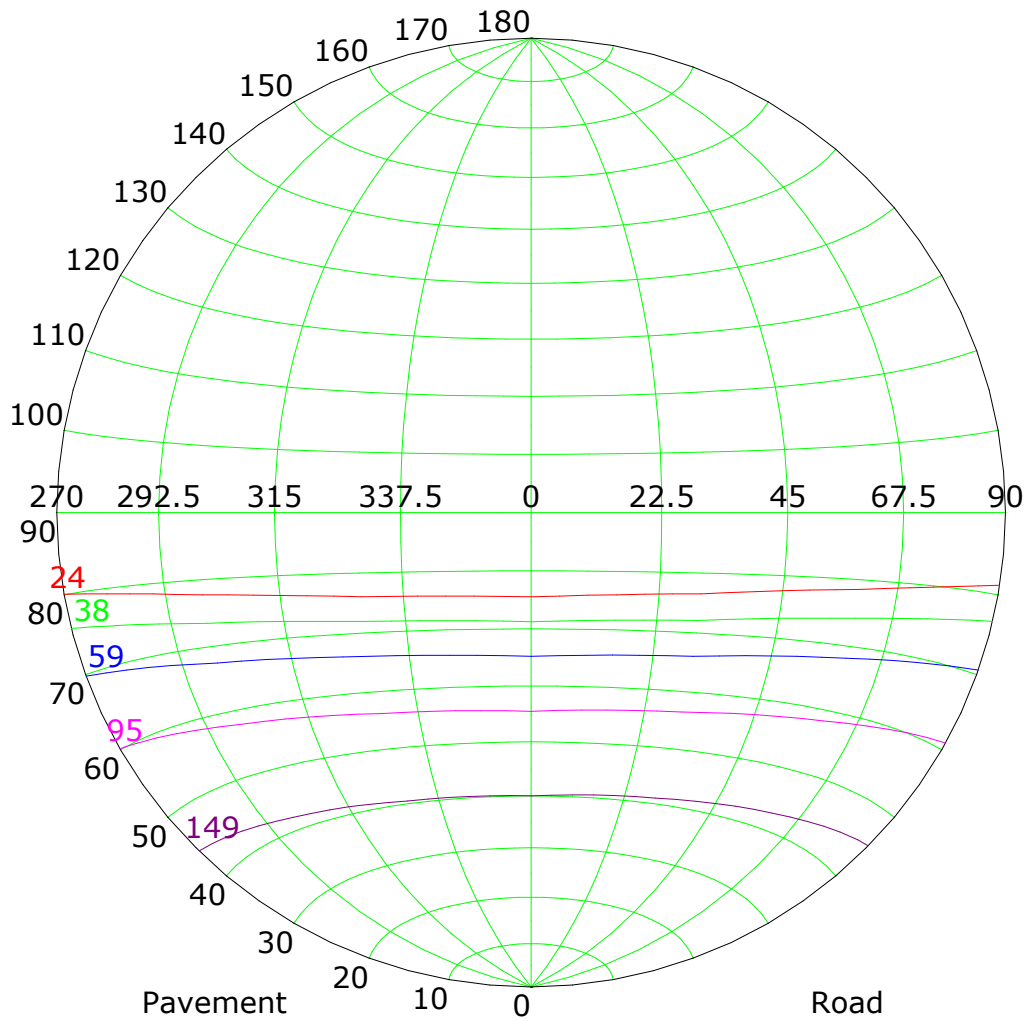
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 237 cd

— (10%):	24 cd	— (16%):	38 cd
— (25%):	59 cd	— (40%):	95 cd
— (63%):	149 cd	— (100%):	237 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

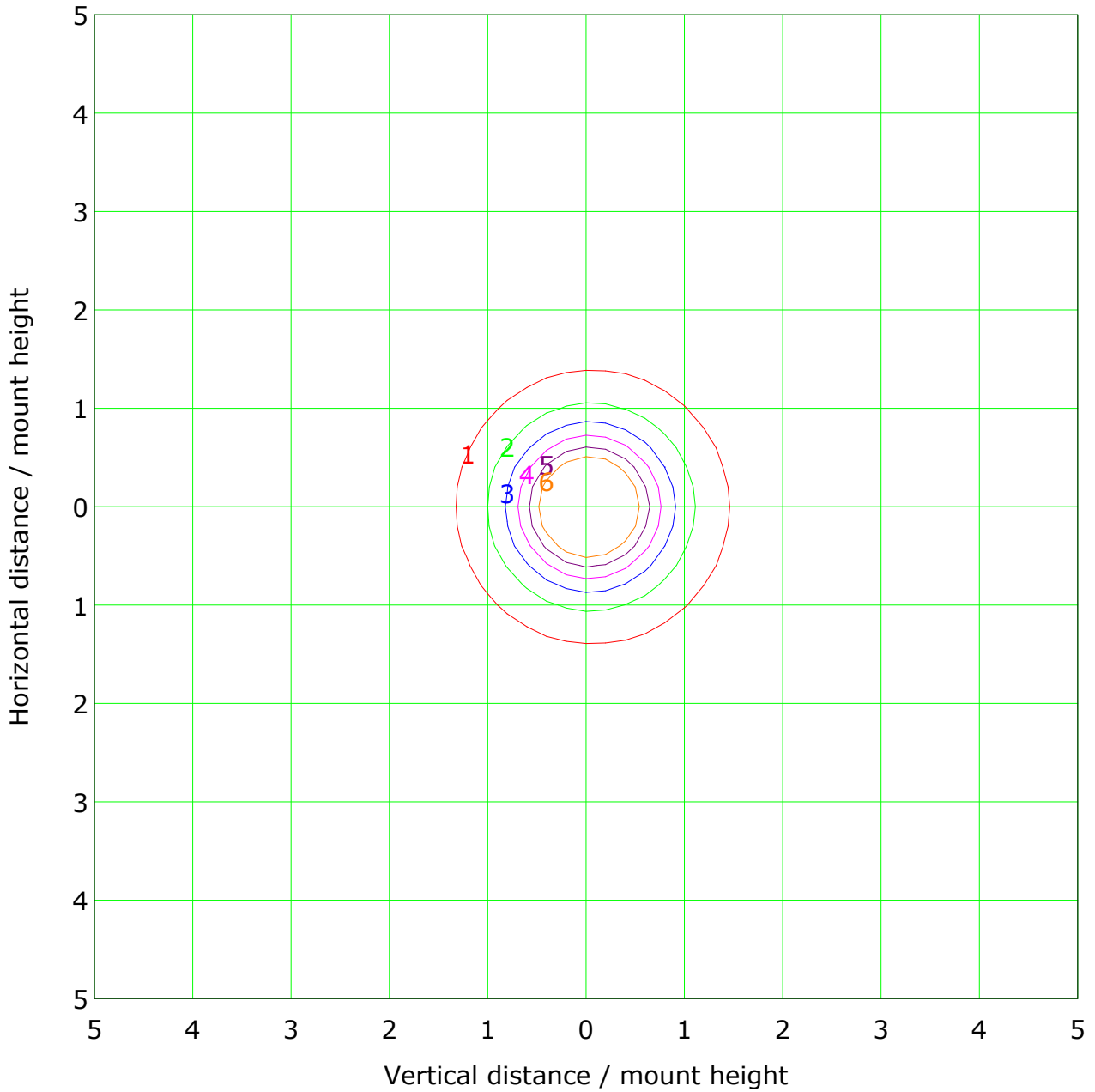
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 9.4 lx	
<ul style="list-style-type: none"> — (10%): 0.9 lx — (30%): 2.8 lx — (50%): 4.7 lx — (100%): 9.4 lx 	<ul style="list-style-type: none"> — (20%): 1.9 lx — (40%): 3.8 lx — (60%): 5.7 lx 		

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

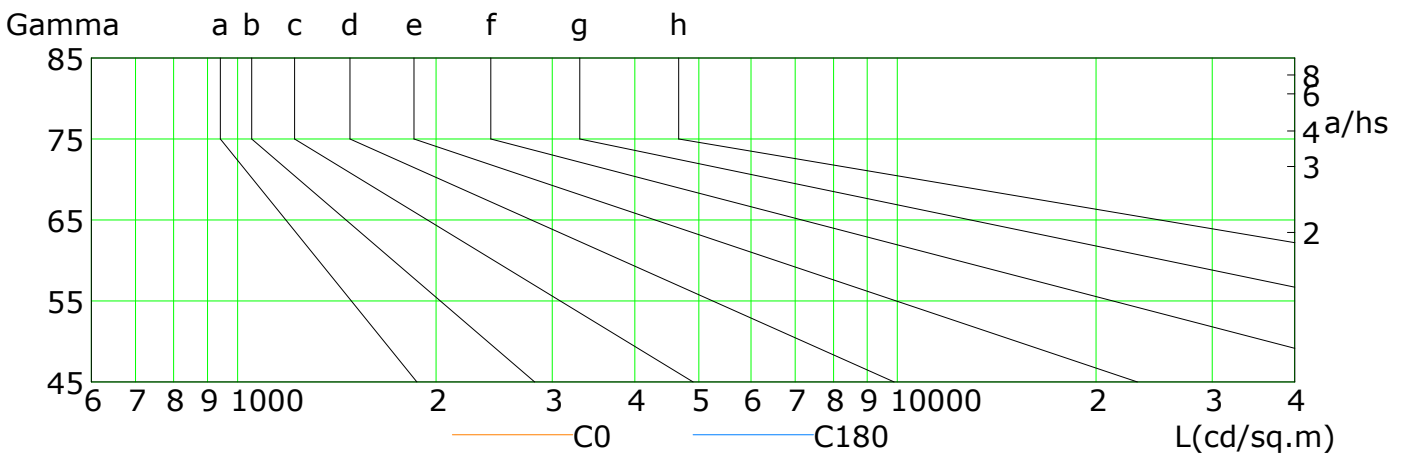
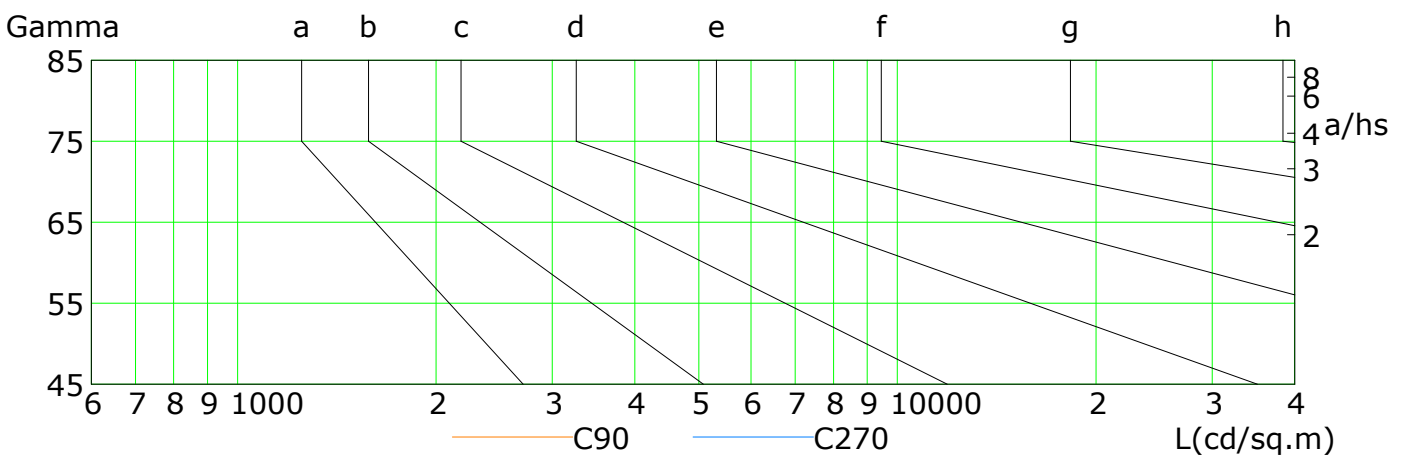
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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	133	115	97	79	60	42	25	10	0
C90	150	133	116	98	80	61	44	27	12
C180	164	148	132	114	96	78	60	42	24
C270	148	131	113	95	77	59	41	24	9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

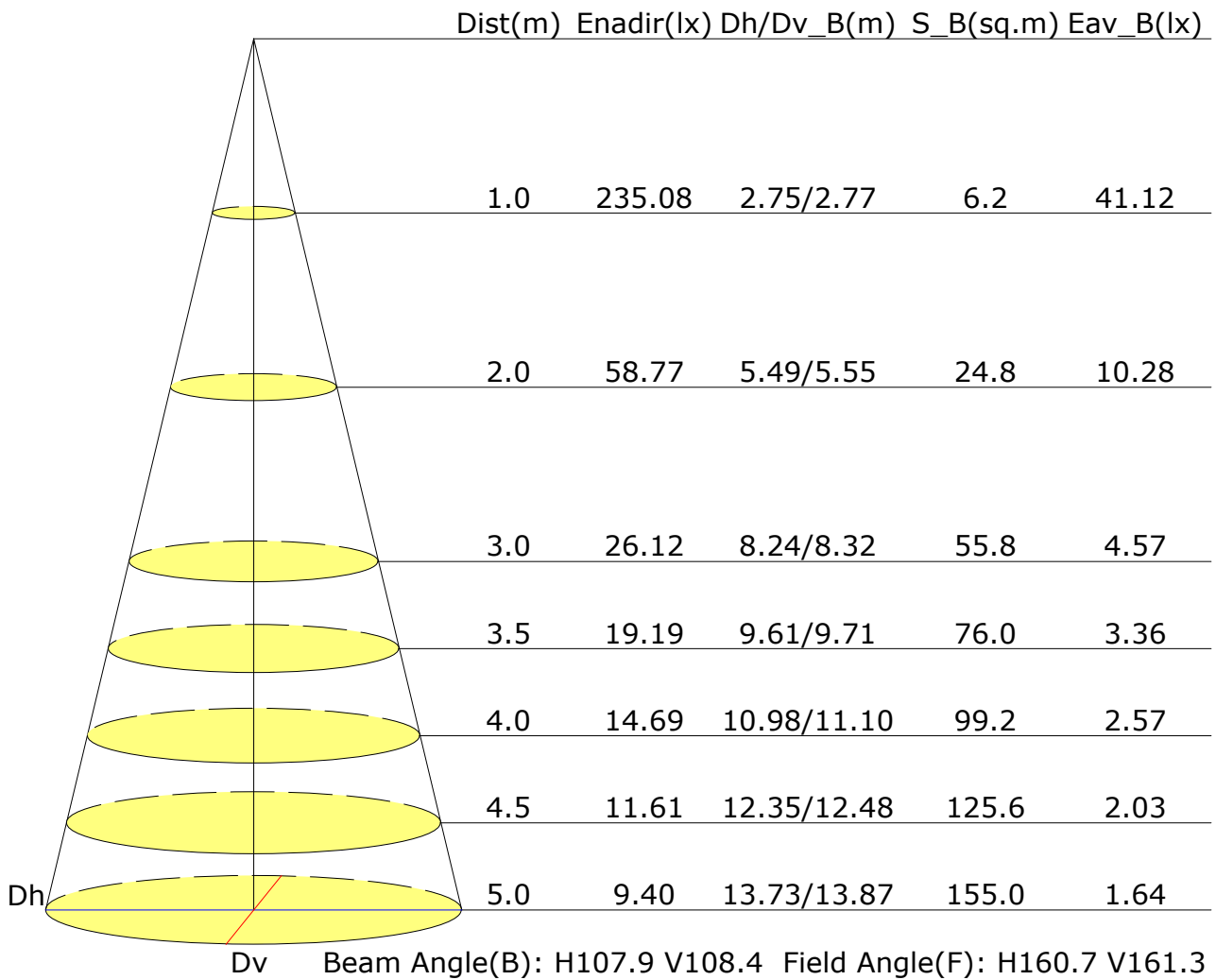
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

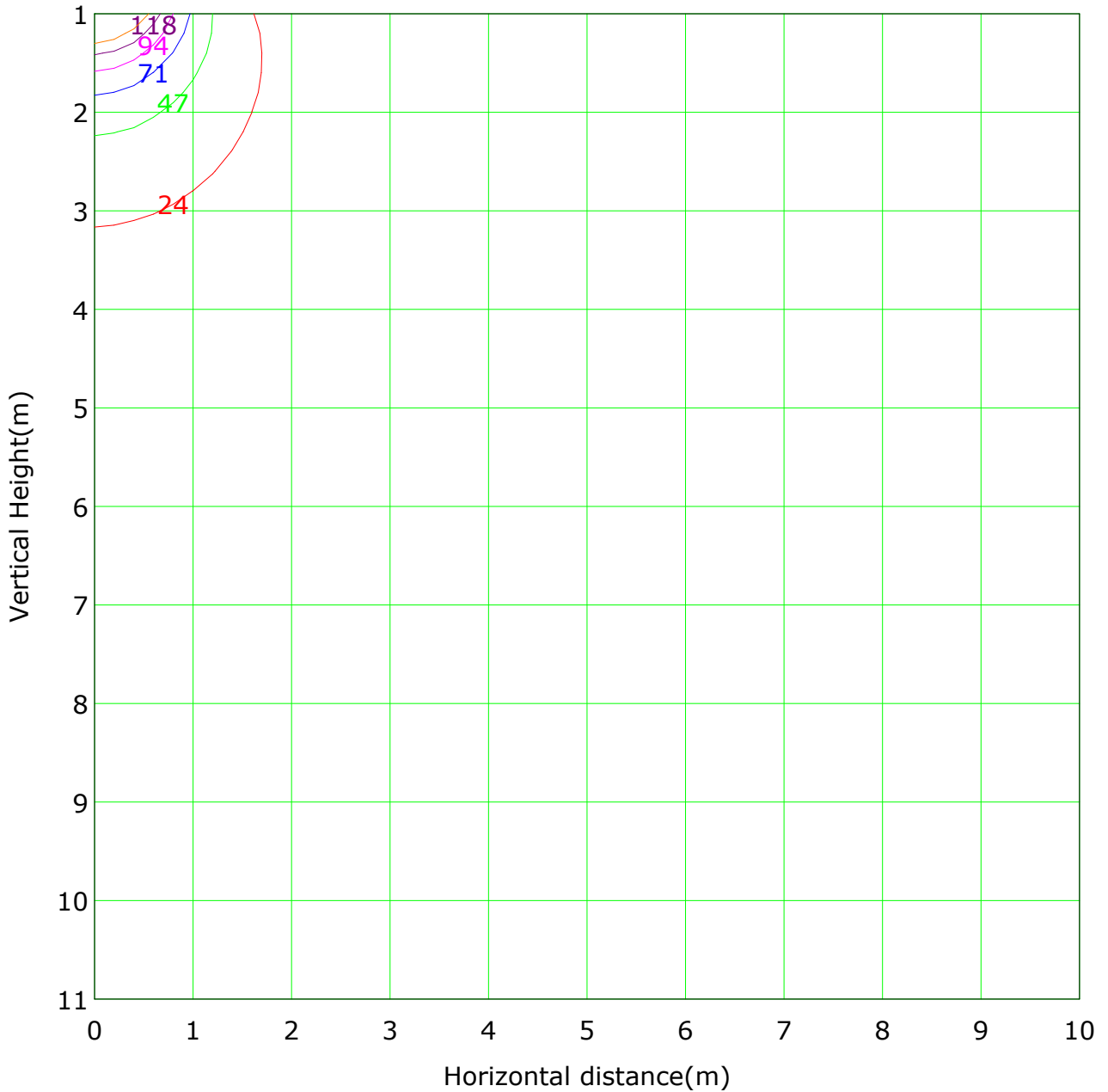
Illuminance at a Distance



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 235.1 lx
(10%): 23.5 lx	(20%): 47.0 lx	
(30%): 70.5 lx	(40%): 94.0 lx	
(50%): 117.5 lx	(60%): 141.0 lx	
(100%): 235.1 lx		

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Area Flux Table

Unit: lm

-90	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	2.9	0.3		
-80	0.0	0.2	0.3	0.6	0.8	1.0	1.2	1.3	1.3	1.2	1.0	0.8	0.6	0.3	0.1	0.0	0.0	0.0	10.7	9.6		
-70	0.0	0.2	0.5	0.9	1.3	1.7	2.1	2.3	2.4	2.3	2.0	1.7	1.2	0.8	0.4	0.1	0.0	0.0	20.1	19.7		
-60	0.1	0.3	0.7	1.3	1.9	2.5	3.0	3.3	3.5	3.4	3.0	2.5	1.9	1.3	0.7	0.3	0.1	0.0	29.7	29.5		
-50	0.1	0.3	0.9	1.6	2.4	3.2	3.8	4.3	4.5	4.4	4.0	3.3	2.6	1.8	1.0	0.5	0.1	0.0	38.6	38.5		
-40	0.1	0.4	1.0	1.8	2.8	3.8	4.6	5.2	5.4	5.3	4.8	4.1	3.1	2.2	1.3	0.6	0.1	0.0	46.5	46.4		
-30	0.1	0.4	1.1	2.1	3.1	4.2	5.2	5.9	6.2	6.1	5.5	4.7	3.6	2.5	1.5	0.7	0.2	0.0	53.0	52.9		
-20	0.1	0.5	1.2	2.2	3.4	4.6	5.6	6.4	6.8	6.6	6.0	5.1	3.9	2.7	1.6	0.7	0.2	0.0	57.8	57.7		
-10	0.1	0.5	1.2	2.3	3.5	4.8	5.9	6.7	7.1	6.9	6.3	5.3	4.1	2.8	1.7	0.8	0.2	0.0	60.3	60.2		
0	0.1	0.5	1.2	2.3	3.5	4.8	5.9	6.7	7.1	7.0	6.3	5.3	4.1	2.8	1.7	0.8	0.2	0.0	60.4	60.3		
10	0.1	0.5	1.2	2.2	3.4	4.6	5.7	6.5	6.8	6.7	6.1	5.1	4.0	2.7	1.6	0.8	0.2	0.0	58.0	57.9		
20	0.1	0.4	1.1	2.1	3.1	4.2	5.2	5.9	6.3	6.1	5.6	4.7	3.6	2.5	1.5	0.7	0.2	0.0	53.5	53.4		
30	0.1	0.4	1.0	1.8	2.8	3.8	4.6	5.2	5.5	5.4	4.9	4.1	3.2	2.2	1.3	0.6	0.2	0.0	47.0	46.9		
40	0.1	0.3	0.9	1.6	2.4	3.2	3.9	4.4	4.6	4.5	4.0	3.4	2.6	1.8	1.0	0.5	0.1	0.0	39.2	39.0		
50	0.1	0.3	0.7	1.3	1.9	2.5	3.0	3.4	3.5	3.4	3.1	2.6	2.0	1.3	0.7	0.3	0.1	0.0	30.3	30.1		
60	0.0	0.2	0.5	0.9	1.4	1.8	2.2	2.4	2.4	2.4	2.1	1.7	1.3	0.8	0.5	0.2	0.0	0.0	20.8	20.4		
70	0.0	0.1	0.3	0.6	0.8	1.1	1.3	1.4	1.4	1.3	1.1	0.9	0.6	0.4	0.2	0.0	0.0	0.0	11.5	10.4		
80	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	3.4	0.7		
90	Flux(T)	1.0	5.7	14.3	25.9	39.2	52.4	64.0	72.1	75.4	73.5	66.5	55.7	42.6	29.2	17.0	7.5	1.9	0.1	644		
	Flux(E)	0.6	5.3	13.8	25.4	38.7	51.9	63.4	71.5	74.8	72.9	65.9	55.1	42.0	28.5	16.3	6.9	1.0	0.0		634	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

C Plane (°):0.0-360.0: 30.0

Test Lab:

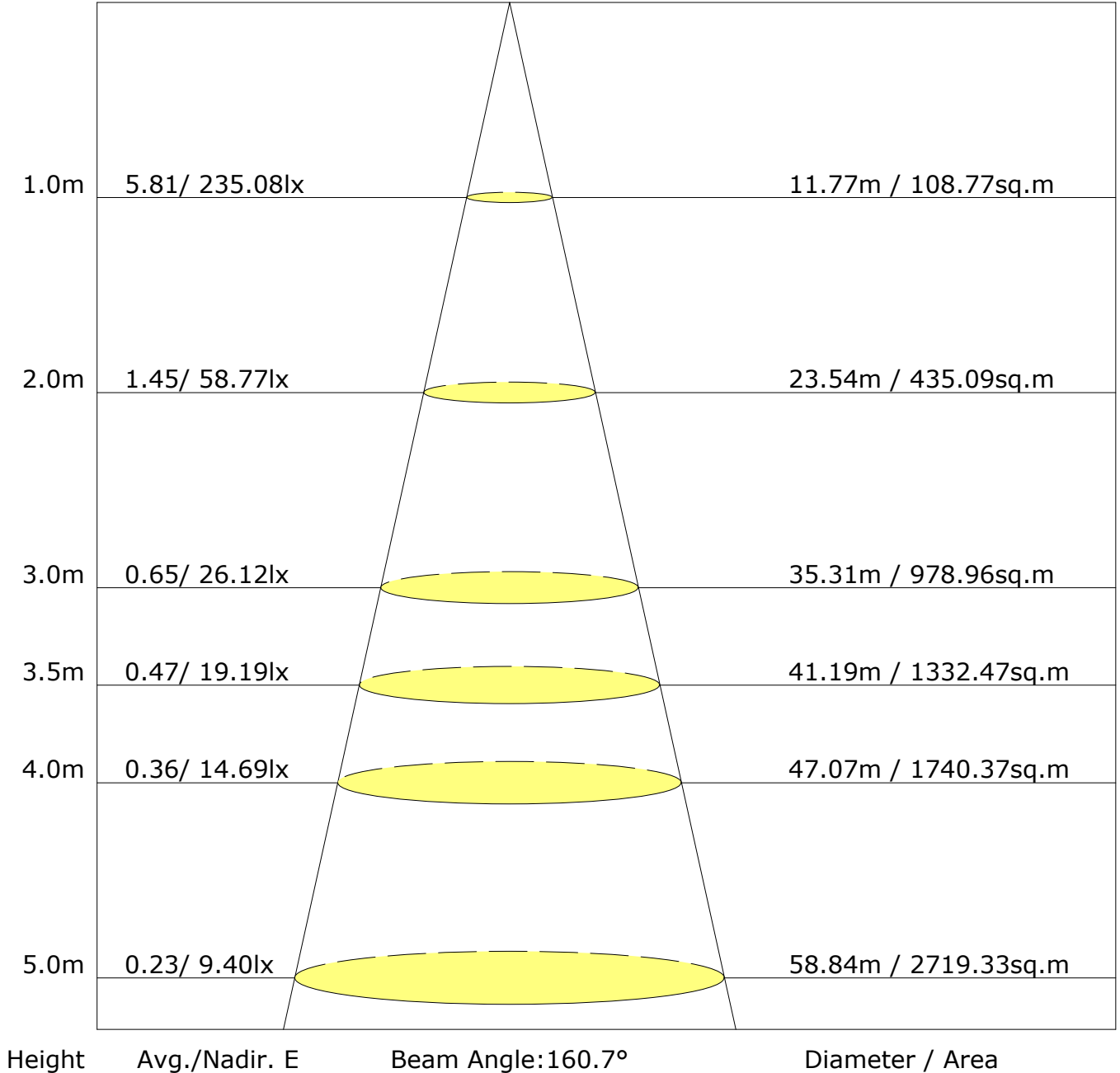
Test Type: TYPE C

Temperature:

Operator:

The Average Illuminance Effective Figure

Flux Out: 631.79lm



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

UGR Table

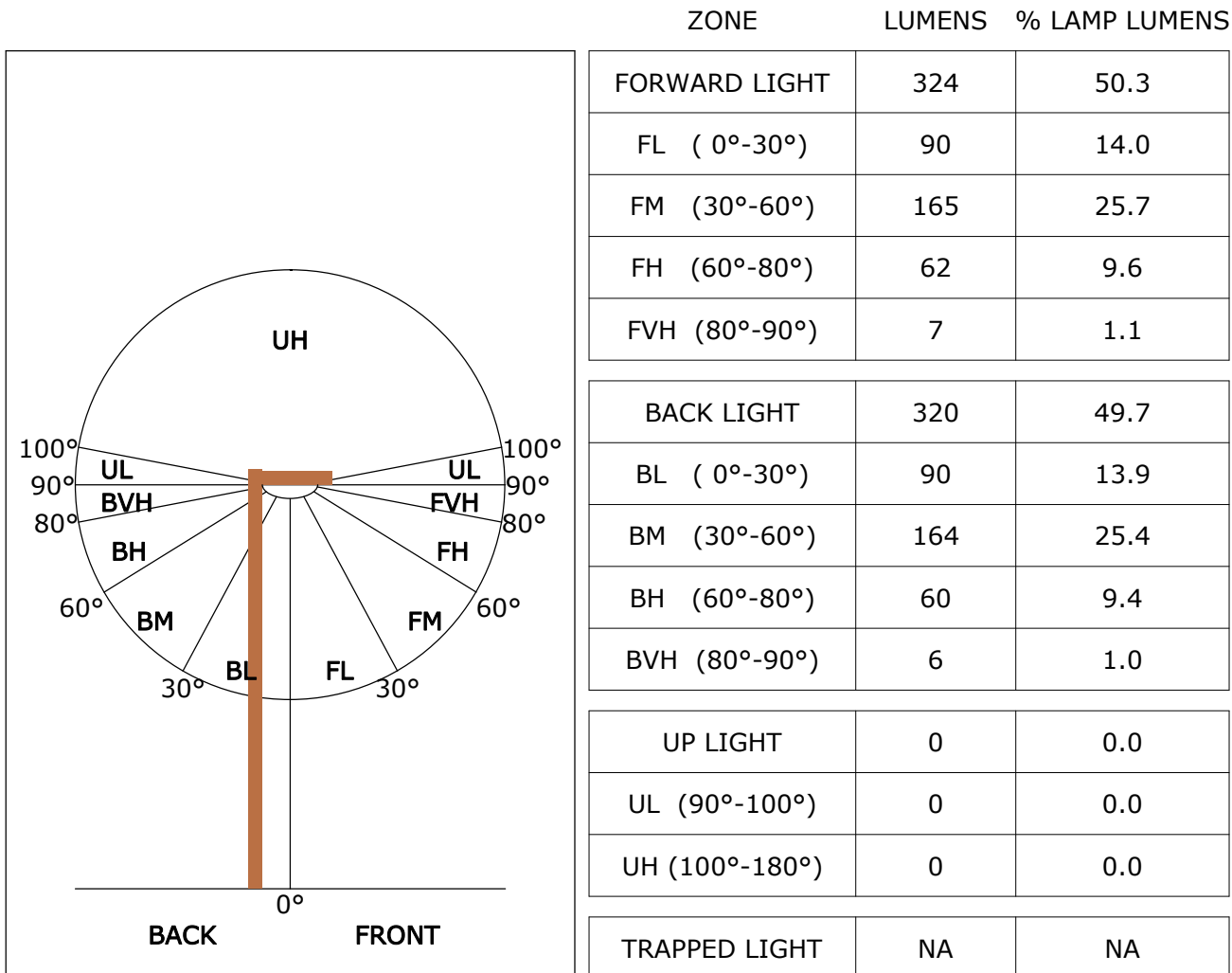
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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.\$
Variations with the observer position at spacings:										
S=1.0H										-1.\$/-1.\$
S=1.5H										-1.\$/-1.\$
S=2.0H										-1.\$/-1.\$

Calculate in accordance with CIE Pub.117. The table is revised with 644lm ($8\log(F/F_0) = -1.5$).

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

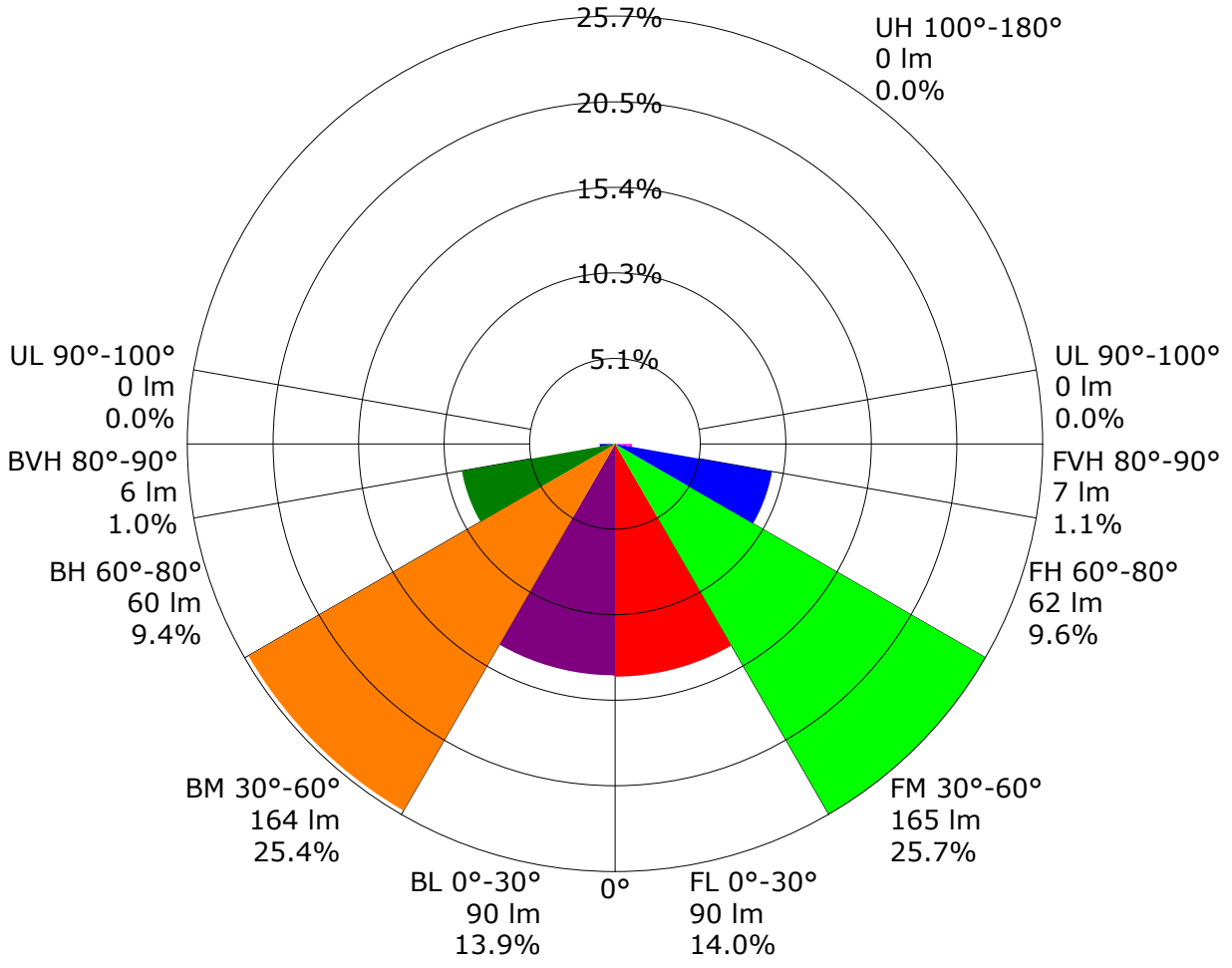


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

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 (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.57	0.67	0.75	0.80	0.87	0.92	0.96	1.00	1.03
		0.30	0.49	0.60	0.67	0.73	0.81	0.87	0.91	0.96	1.00
		0.20	0.43	0.54	0.61	0.67	0.76	0.82	0.86	0.93	0.97
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
		0.30	0.48	0.58	0.66	0.71	0.79	0.84	0.88	0.93	0.96
		0.20	0.43	0.53	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.75	0.81	0.86	0.89	0.93	0.95
		0.30	0.48	0.57	0.64	0.70	0.77	0.82	0.85	0.90	0.93
		0.20	0.43	0.53	0.60	0.65	0.73	0.78	0.82	0.87	0.91
0.00	0.00	0.00	0.41	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.86
<p>Rating:10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.99	0.82	0.70	0.61	0.49	0.40	0.35	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.47	0.42	0.33	0.26	0.21	
	0.30		0.81	0.69	0.59	0.52	0.43	0.36	0.31	0.24	0.20	
	0.20		0.70	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.65	0.56	0.45	0.37	0.32	0.24	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14	
<p>Rating:10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:10W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	234.9	0.2	0.2	0.03	0.03
1.0-2.0	234.9	0.7	0.9	0.10	0.14
2.0-3.0	234.6	1.1	2.0	0.17	0.31
3.0-4.0	234.3	1.6	3.6	0.24	0.56
4.0-5.0	234.0	2.0	5.6	0.31	0.87
5.0-6.0	233.6	2.5	8.1	0.38	1.25
6.0-7.0	233.0	2.9	11.0	0.45	1.70
7.0-8.0	232.3	3.3	14.3	0.52	2.22
8.0-9.0	231.5	3.8	18.0	0.58	2.80
9.0-10.0	230.5	4.2	22.2	0.65	3.45
10.0-11.0	229.4	4.6	26.8	0.71	4.16
11.0-12.0	228.4	5.0	31.8	0.78	4.94
12.0-13.0	227.2	5.4	37.2	0.84	5.77
13.0-14.0	225.9	5.8	43.0	0.90	6.67
14.0-15.0	224.6	6.2	49.1	0.96	7.63
15.0-16.0	223.1	6.5	55.7	1.02	8.65
16.0-17.0	221.4	6.9	62.6	1.07	9.72
17.0-18.0	219.7	7.2	69.8	1.13	10.84
18.0-19.0	218.0	7.6	77.4	1.18	12.02
19.0-20.0	216.3	7.9	85.3	1.23	13.25
20.0-21.0	214.5	8.2	93.5	1.28	14.53
21.0-22.0	212.4	8.5	102.1	1.33	15.86
22.0-23.0	210.5	8.8	110.9	1.37	17.23
23.0-24.0	208.5	9.1	120.0	1.42	18.64
24.0-25.0	206.2	9.4	129.4	1.46	20.10
25.0-26.0	203.8	9.6	139.0	1.49	21.59
26.0-27.0	201.7	9.9	148.9	1.53	23.13
27.0-28.0	199.5	10.1	159.0	1.57	24.70
28.0-29.0	196.8	10.3	169.3	1.60	26.30
29.0-30.0	194.2	10.5	179.8	1.63	27.92
30.0-31.0	191.6	10.7	190.4	1.66	29.58
31.0-32.0	188.9	10.8	201.3	1.68	31.26
32.0-33.0	186.1	11.0	212.2	1.70	32.97
33.0-34.0	183.5	11.1	223.3	1.73	34.69
34.0-35.0	180.8	11.2	234.6	1.74	36.43
35.0-36.0	177.9	11.3	245.9	1.76	38.19

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	175.0	11.4	257.3	1.77	39.97
37.0-38.0	172.0	11.5	268.8	1.78	41.75
38.0-39.0	169.0	11.5	280.3	1.79	43.54
39.0-40.0	165.8	11.6	291.9	1.80	45.34
40.0-41.0	162.8	11.6	303.5	1.80	47.14
41.0-42.0	159.8	11.6	315.1	1.80	48.94
42.0-43.0	156.6	11.6	326.7	1.80	50.75
43.0-44.0	153.4	11.6	338.3	1.80	52.54
44.0-45.0	150.2	11.5	349.8	1.79	54.34
45.0-46.0	146.9	11.5	361.3	1.78	56.12
46.0-47.0	143.6	11.4	372.7	1.77	57.89
47.0-48.0	140.3	11.3	384.1	1.76	59.66
48.0-49.0	137.0	11.2	395.3	1.75	61.40
49.0-50.0	133.7	11.1	406.5	1.73	63.14
50.0-51.0	130.2	11.0	417.5	1.71	64.85
51.0-52.0	126.8	10.9	428.4	1.69	66.54
52.0-53.0	123.3	10.7	439.1	1.67	68.20
53.0-54.0	119.8	10.6	449.7	1.64	69.84
54.0-55.0	116.2	10.4	460.0	1.61	71.45
55.0-56.0	112.7	10.2	470.2	1.58	73.04
56.0-57.0	109.1	10.0	480.2	1.55	74.59
57.0-58.0	105.6	9.8	490.0	1.52	76.10
58.0-59.0	101.9	9.5	499.5	1.48	77.58
59.0-60.0	98.2	9.3	508.8	1.44	79.02
60.0-61.0	94.6	9.0	517.8	1.40	80.43
61.0-62.0	90.9	8.8	526.6	1.36	81.79
62.0-63.0	87.3	8.5	535.1	1.32	83.11
63.0-64.0	83.6	8.2	543.3	1.27	84.38
64.0-65.0	79.9	7.9	551.2	1.23	85.61
65.0-66.0	76.4	7.6	558.8	1.18	86.80
66.0-67.0	72.7	7.3	566.1	1.14	87.93
67.0-68.0	69.0	7.0	573.1	1.09	89.02
68.0-69.0	65.3	6.7	579.8	1.04	90.05
69.0-70.0	61.6	6.3	586.1	0.98	91.04
70.0-71.0	58.1	6.0	592.1	0.93	91.97
71.0-72.0	54.6	5.7	597.8	0.88	92.85

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	51.0	5.3	603.1	0.83	93.68
73.0-74.0	47.5	5.0	608.1	0.78	94.46
74.0-75.0	44.0	4.7	612.8	0.72	95.18
75.0-76.0	40.6	4.3	617.1	0.67	95.85
76.0-77.0	37.1	4.0	621.0	0.62	96.46
77.0-78.0	33.7	3.6	624.6	0.56	97.02
78.0-79.0	30.5	3.3	627.9	0.51	97.53
79.0-80.0	27.2	2.9	630.9	0.46	97.99
80.0-81.0	24.0	2.6	633.4	0.40	98.39
81.0-82.0	20.9	2.3	635.7	0.35	98.74
82.0-83.0	17.9	1.9	637.7	0.30	99.04
83.0-84.0	15.1	1.6	639.3	0.26	99.30
84.0-85.0	12.3	1.3	640.6	0.21	99.51
85.0-86.0	9.8	1.1	641.7	0.17	99.67
86.0-87.0	7.6	0.8	642.6	0.13	99.80
87.0-88.0	5.5	0.6	643.2	0.09	99.90
88.0-89.0	3.7	0.4	643.6	0.06	99.96
89.0-90.0	2.2	0.2	643.8	0.04	100.00

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	235.1	235.3	235.3	233.9	234.1	235.6	235.1	235.3	235.3	233.9
G1.0	235.4	235.0	234.2	235.2	234.6	234.8	236.2	235.2	235.2	235.0
G2.0	234.0	234.1	234.3	234.8	234.9	236.4	235.6	235.9	235.2	234.8
G3.0	232.8	234.2	233.2	234.1	235.0	236.6	235.4	236.5	235.4	233.8
G4.0	233.0	233.2	234.6	234.4	235.1	235.1	235.9	235.3	235.6	233.9
G5.0	231.2	231.8	233.8	233.7	235.1	237.0	236.1	236.1	234.8	233.7
G6.0	231.5	231.2	232.8	233.9	235.3	234.9	236.1	236.7	235.0	232.2
G7.0	229.3	230.9	231.4	232.8	234.3	234.6	236.2	235.1	234.8	232.6
G8.0	228.4	229.3	230.1	232.1	233.6	235.3	236.6	235.0	233.8	231.6
G9.0	227.4	227.0	230.0	232.2	233.1	235.0	235.4	233.9	232.8	230.9
G10.0	225.6	226.6	228.7	230.6	232.1	233.2	234.7	233.7	231.6	229.3
G11.0	225.4	225.0	226.8	230.1	231.6	232.8	234.1	233.4	232.0	228.2
G12.0	223.0	223.7	224.9	228.7	230.6	233.7	233.6	232.3	230.3	227.5
G13.0	220.3	222.0	223.7	227.6	229.7	232.8	233.3	232.1	228.4	226.0
G14.0	218.8	219.8	222.6	225.0	228.0	230.8	231.9	231.0	228.0	225.6
G15.0	217.3	217.9	222.2	225.2	227.6	229.4	231.8	229.4	226.1	223.4
G16.0	215.3	216.2	219.2	223.1	226.2	229.3	229.9	229.2	225.6	221.5
G17.0	212.2	215.8	217.3	221.4	225.0	227.2	227.6	227.2	223.4	220.5
G18.0	211.8	211.7	215.4	219.8	223.4	225.8	226.8	226.2	222.0	218.0
G19.0	209.8	209.9	214.2	218.2	222.2	224.3	225.4	223.6	220.3	216.4
G20.0	206.2	207.6	212.3	216.1	222.0	223.6	225.9	221.5	219.0	214.4
G21.0	204.0	206.1	210.5	214.5	218.8	221.1	222.8	220.5	217.4	212.2
G22.0	201.5	203.5	208.0	212.6	216.9	220.7	221.6	219.8	215.5	209.4
G23.0	199.9	201.2	205.6	210.7	214.8	219.1	219.3	217.8	213.0	208.4
G24.0	196.8	199.3	203.5	208.8	213.4	217.4	217.4	215.6	212.2	206.3
G25.0	194.8	196.1	200.6	206.6	210.8	213.9	216.4	213.2	209.2	204.0
G26.0	192.2	193.8	198.0	204.2	209.0	211.6	213.9	211.6	206.7	202.0
G27.0	189.0	190.7	196.0	202.0	206.8	211.1	212.0	210.2	205.3	199.4
G28.0	186.0	189.1	193.4	199.9	205.6	207.9	210.4	207.5	203.0	197.1
G29.0	184.0	185.5	191.0	197.2	202.6	205.0	207.3	205.0	199.9	194.8
G30.0	180.8	183.1	187.8	193.4	199.9	204.0	205.3	202.9	198.0	192.1
G31.0	177.1	179.5	186.0	192.1	197.2	202.2	202.9	200.7	195.4	189.0
G32.0	174.5	177.3	183.5	188.9	194.7	198.0	199.7	197.8	192.5	186.1
G33.0	171.5	174.1	179.6	186.2	191.9	195.9	198.3	195.7	189.8	184.1
G34.0	168.5	171.6	176.5	184.1	190.1	193.4	196.1	192.6	187.9	181.2
G35.0	165.4	168.4	173.4	181.1	186.6	190.8	193.4	190.4	184.7	178.4
G36.0	162.5	164.9	171.0	178.3	184.1	189.7	189.8	187.8	183.0	175.6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 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	159.4	161.8	167.9	175.1	181.6	185.6	187.6	184.5	179.1	172.3
G38.0	156.2	158.4	164.3	172.5	178.9	182.6	185.0	182.8	176.1	169.8
G39.0	152.7	155.1	161.5	168.4	175.7	179.4	182.3	179.6	173.6	166.3
G40.0	149.3	152.9	158.5	165.7	171.8	176.4	178.6	176.4	170.5	162.6
G41.0	145.9	149.1	155.9	163.1	169.9	173.9	176.0	173.8	167.9	160.5
G42.0	143.4	145.8	151.8	160.0	166.5	171.1	173.9	170.3	164.8	157.3
G43.0	139.2	142.2	148.3	156.6	163.9	167.8	170.4	167.8	161.7	153.7
G44.0	135.6	139.0	145.3	153.5	160.6	165.6	166.9	164.7	158.6	150.9
G45.0	132.6	135.7	142.0	150.4	157.0	161.7	164.1	161.5	155.1	147.7
G46.0	129.3	131.5	138.5	146.7	154.5	159.1	161.2	158.2	152.4	144.2
G47.0	125.9	128.0	136.0	143.3	151.4	155.8	158.0	155.0	149.1	141.1
G48.0	121.8	124.8	131.4	140.9	147.4	152.3	155.1	152.3	146.3	137.5
G49.0	118.3	121.5	128.3	137.3	144.4	150.1	151.5	148.6	142.3	134.8
G50.0	115.1	117.8	124.9	133.2	141.1	146.5	148.2	146.3	139.4	131.0
G51.0	111.6	114.4	121.0	129.6	137.7	142.8	146.0	142.7	136.1	127.4
G52.0	107.7	110.7	118.1	127.2	134.3	139.4	142.0	139.2	132.4	124.2
G53.0	104.6	106.7	114.6	123.3	130.9	135.5	138.4	135.8	128.8	120.7
G54.0	100.9	103.5	110.3	119.9	127.5	133.0	134.8	132.0	125.7	117.0
G55.0	96.7	100.2	107.2	116.0	124.2	129.1	131.9	128.6	122.4	113.4
G56.0	93.2	96.1	103.6	112.3	120.3	125.4	128.4	125.1	118.7	110.1
G57.0	89.6	92.6	99.9	109.0	117.0	122.6	125.2	121.8	114.9	106.4
G58.0	85.9	89.0	96.3	105.3	113.7	118.9	121.2	118.1	111.5	103.2
G59.0	82.2	85.2	92.6	101.6	109.8	115.1	117.8	114.6	107.5	99.1
G60.0	78.7	82.0	88.6	98.2	106.1	111.7	114.0	111.2	104.4	95.2
G61.0	74.9	77.8	85.3	94.0	102.6	107.7	110.8	107.6	100.5	91.9
G62.0	71.1	74.0	81.4	90.9	98.9	104.4	107.4	103.9	96.7	88.0
G63.0	67.3	70.5	78.1	87.3	95.2	101.1	103.7	100.5	93.1	84.4
G64.0	63.2	66.7	74.3	83.3	91.6	96.8	99.6	96.8	89.3	80.7
G65.0	60.0	63.1	70.9	79.8	87.8	93.7	96.1	93.0	85.8	76.9
G66.0	56.4	59.5	67.0	76.2	84.8	90.2	93.0	89.4	82.3	73.4
G67.0	52.4	56.0	63.3	72.6	81.4	86.0	89.0	85.5	78.4	69.5
G68.0	49.3	52.2	60.0	68.7	77.0	82.7	85.1	82.2	75.0	66.0
G69.0	45.5	48.8	55.9	64.9	73.2	78.6	81.5	78.1	70.8	62.3
G70.0	42.0	45.0	52.5	61.3	69.7	75.1	77.8	74.8	67.2	58.5
G71.0	38.6	41.8	48.9	58.2	66.2	71.7	74.4	71.1	63.7	55.0
G72.0	35.2	38.2	45.4	54.3	62.5	67.9	70.6	67.0	59.9	51.4
G73.0	31.8	35.0	42.0	50.8	58.9	64.3	67.0	63.6	56.3	47.8

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	28.7	31.4	38.7	47.2	55.5	60.7	63.1	59.9	52.7	44.5
G75.0	25.3	28.3	35.3	43.6	51.9	57.3	59.6	56.3	49.2	40.7
G76.0	22.2	25.2	31.9	40.4	48.3	53.8	56.0	52.8	45.9	37.5
G77.0	19.0	22.0	28.5	36.7	44.7	49.8	52.2	49.1	42.2	33.9
G78.0	15.9	19.1	25.4	33.6	41.3	46.4	48.7	45.6	38.8	30.7
G79.0	13.0	16.2	22.4	30.5	38.0	43.2	45.2	42.2	35.5	27.4
G80.0	10.0	13.3	19.2	27.2	34.8	39.5	41.7	38.5	31.7	23.9
G81.0	7.5	10.5	16.4	24.0	31.4	35.7	38.2	35.1	28.7	21.0
G82.0	5.1	7.7	13.7	20.8	28.1	31.8	34.7	31.9	25.2	17.9
G83.0	2.8	5.3	10.6	18.0	24.6	28.5	31.5	28.3	22.1	14.8
G84.0	0.9	3.0	8.0	15.2	21.3	25.2	28.2	25.5	19.2	11.9
G85.0	0.3	0.9	5.2	12.2	18.1	21.0	24.3	21.9	16.0	8.9
G86.0	0.3	0.3	2.8	9.4	15.0	17.2	20.6	18.5	13.2	5.8
G87.0	0.3	0.3	0.6	6.8	12.2	13.5	16.4	15.0	10.1	3.0
G88.0	0.3	0.3	0.2	3.4	9.2	9.5	12.1	11.0	6.7	1.0
G89.0	0.3	0.3	0.2	1.0	6.6	6.4	8.1	7.4	3.7	0.3
G90.0	0.3	0.3	0.2	0.2	3.6	3.5	3.7	4.3	1.3	0.3

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	234.1	235.6	235.1						
G1.0	234.5	235.0	235.4						
G2.0	233.4	233.6	234.0						
G3.0	233.2	232.4	232.8						
G4.0	232.6	231.6	233.0						
G5.0	232.4	231.3	231.2						
G6.0	230.0	230.5	231.5						
G7.0	230.8	228.7	229.3						
G8.0	229.4	227.8	228.4						
G9.0	229.2	227.0	227.4						
G10.0	226.1	226.4	225.6						
G11.0	224.8	223.4	225.4						
G12.0	224.4	221.8	223.0						
G13.0	222.4	220.8	220.3						
G14.0	220.8	219.4	218.8						
G15.0	219.9	217.4	217.3						
G16.0	217.4	214.8	215.3						
G17.0	215.8	213.4	212.2						
G18.0	213.5	211.1	211.8						
G19.0	212.3	209.2	209.8						
G20.0	210.4	207.4	206.2						
G21.0	208.1	204.8	204.0						
G22.0	205.6	202.6	201.5						
G23.0	203.5	200.6	199.9						
G24.0	200.6	198.6	196.8						
G25.0	198.3	195.0	194.8						
G26.0	196.3	193.9	192.2						
G27.0	193.3	191.8	189.0						
G28.0	191.6	188.0	186.0						
G29.0	188.2	184.4	184.0						
G30.0	186.2	181.6	180.8						
G31.0	182.6	178.6	177.1						
G32.0	180.2	175.9	174.5						
G33.0	177.1	172.9	171.5						
G34.0	174.6	170.8	168.5						
G35.0	171.1	166.9	165.4						
G36.0	168.6	164.6	162.5						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	165.2	161.1	159.4						
G38.0	162.3	157.8	156.2						
G39.0	159.2	154.7	152.7						
G40.0	155.8	151.0	149.3						
G41.0	153.1	147.9	145.9						
G42.0	149.8	144.4	143.4						
G43.0	146.2	141.4	139.2						
G44.0	143.0	137.6	135.6						
G45.0	139.9	134.5	132.6						
G46.0	136.2	130.8	129.3						
G47.0	132.9	127.4	125.9						
G48.0	129.5	124.0	121.8						
G49.0	126.3	120.7	118.3						
G50.0	122.9	117.3	115.1						
G51.0	118.8	113.7	111.6						
G52.0	115.8	109.7	107.7						
G53.0	112.7	106.7	104.6						
G54.0	108.4	102.6	100.9						
G55.0	105.0	99.3	96.7						
G56.0	101.4	95.6	93.2						
G57.0	97.6	92.1	89.6						
G58.0	94.1	88.4	85.9						
G59.0	89.6	84.7	82.2						
G60.0	86.7	80.9	78.7						
G61.0	82.8	77.2	74.9						
G62.0	79.0	73.4	71.1						
G63.0	75.4	70.2	67.3						
G64.0	71.6	66.1	63.2						
G65.0	68.1	63.1	60.0						
G66.0	64.7	58.8	56.4						
G67.0	60.9	55.2	52.4						
G68.0	57.3	51.5	49.3						
G69.0	53.5	47.9	45.5						
G70.0	49.9	44.4	42.0						
G71.0	46.6	41.2	38.6						
G72.0	42.8	37.4	35.2						
G73.0	39.5	34.2	31.8						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	35.8	31.1	28.7							
G75.0	32.7	27.4	25.3							
G76.0	29.4	23.7	22.2							
G77.0	26.1	20.0	19.0							
G78.0	22.9	16.5	15.9							
G79.0	19.6	13.4	13.0							
G80.0	16.3	9.8	10.0							
G81.0	13.3	7.2	7.5							
G82.0	10.1	4.7	5.1							
G83.0	7.5	2.9	2.8							
G84.0	5.0	1.4	0.9							
G85.0	2.6	0.3	0.3							
G86.0	0.9	0.2	0.3							
G87.0	0.3	0.3	0.3							
G88.0	0.3	0.3	0.3							
G89.0	0.3	0.3	0.3							
G90.0	0.3	0.3	0.3							

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector: