

Report No.:

Test Time: 2020-08-31 09:07

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-12D24CC-BZ-5K

Luminous Length (mm): 240

Luminous Width (mm): 240

Voltage: 120.3 V

Current: 0.198 A

Power: 23.61 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2050.2 lm

Measurement Flux: 2050.2 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 160.7, 160.9, 160.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.1, 108.5, 108.5, 108.2

Luminaire Efficacy Rating (LER): 86.89

Central Intensity: 752.63 cd

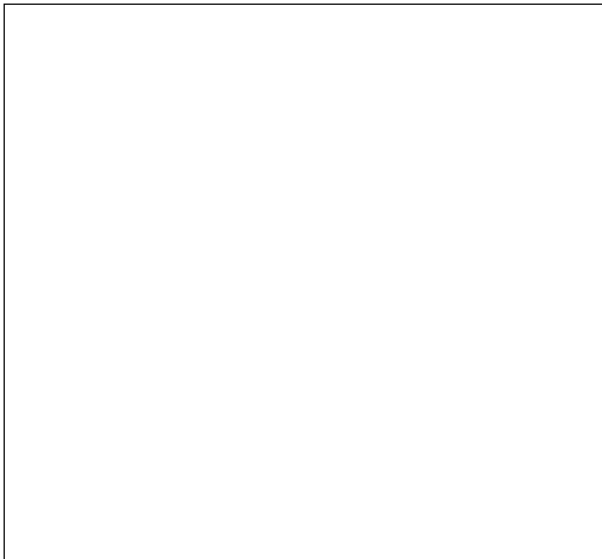
Max. Intensity: 752.64 cd

Pos of Max. Intensity: H0 V0

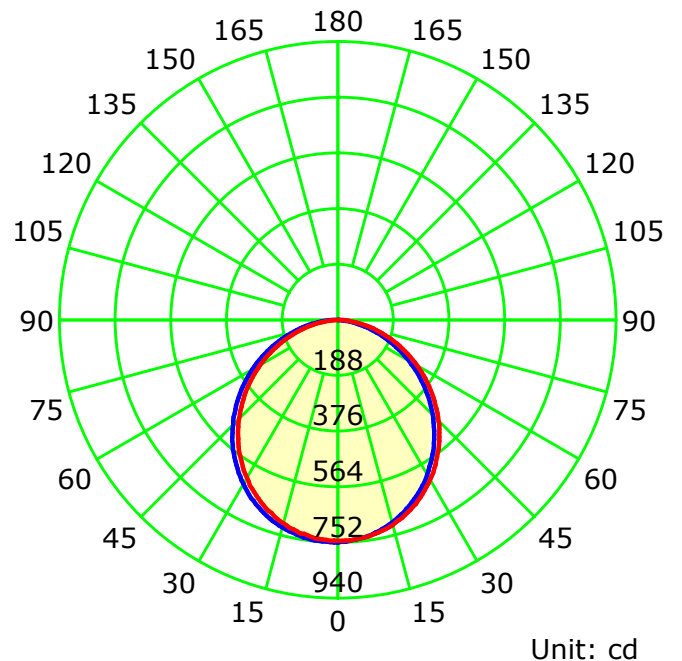
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

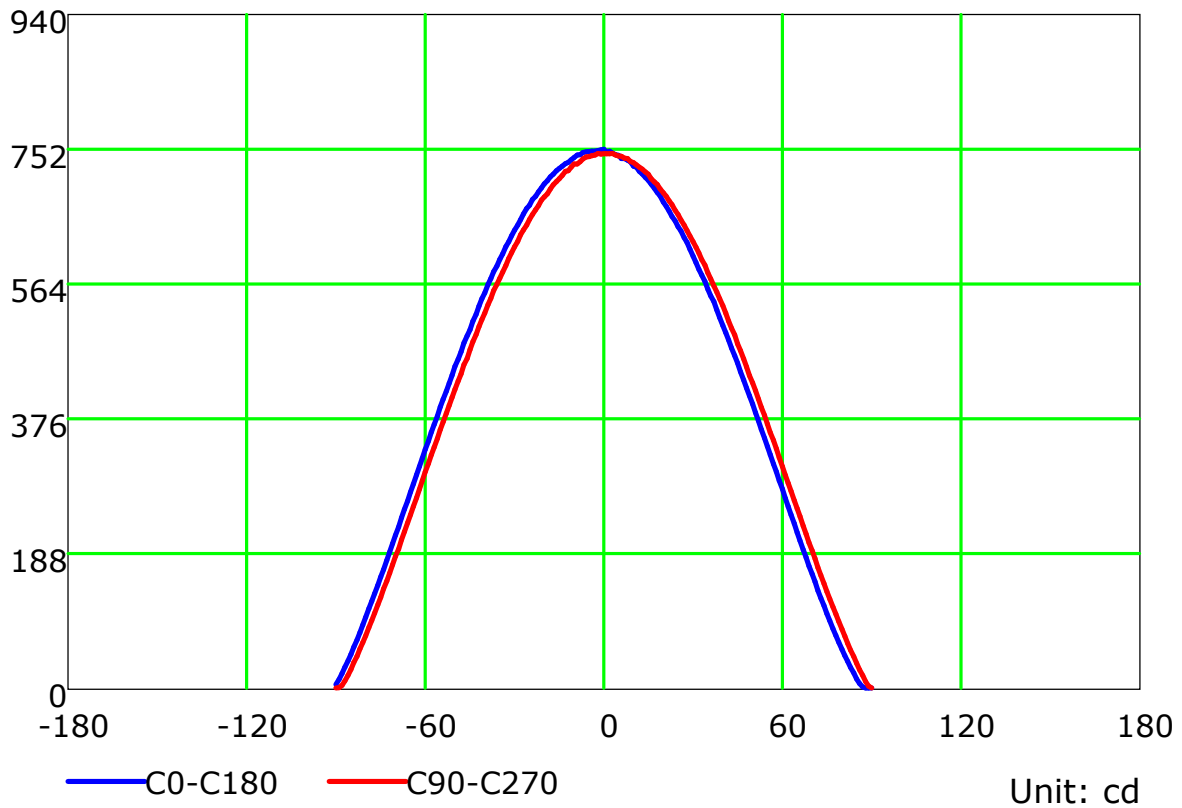
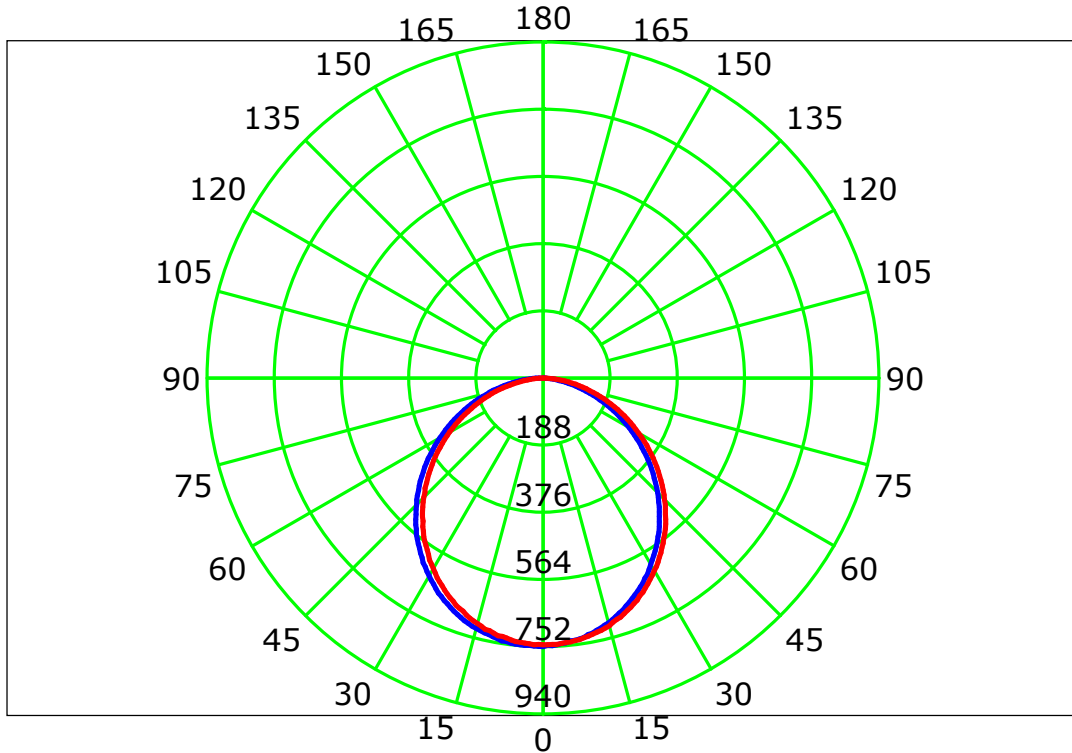
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

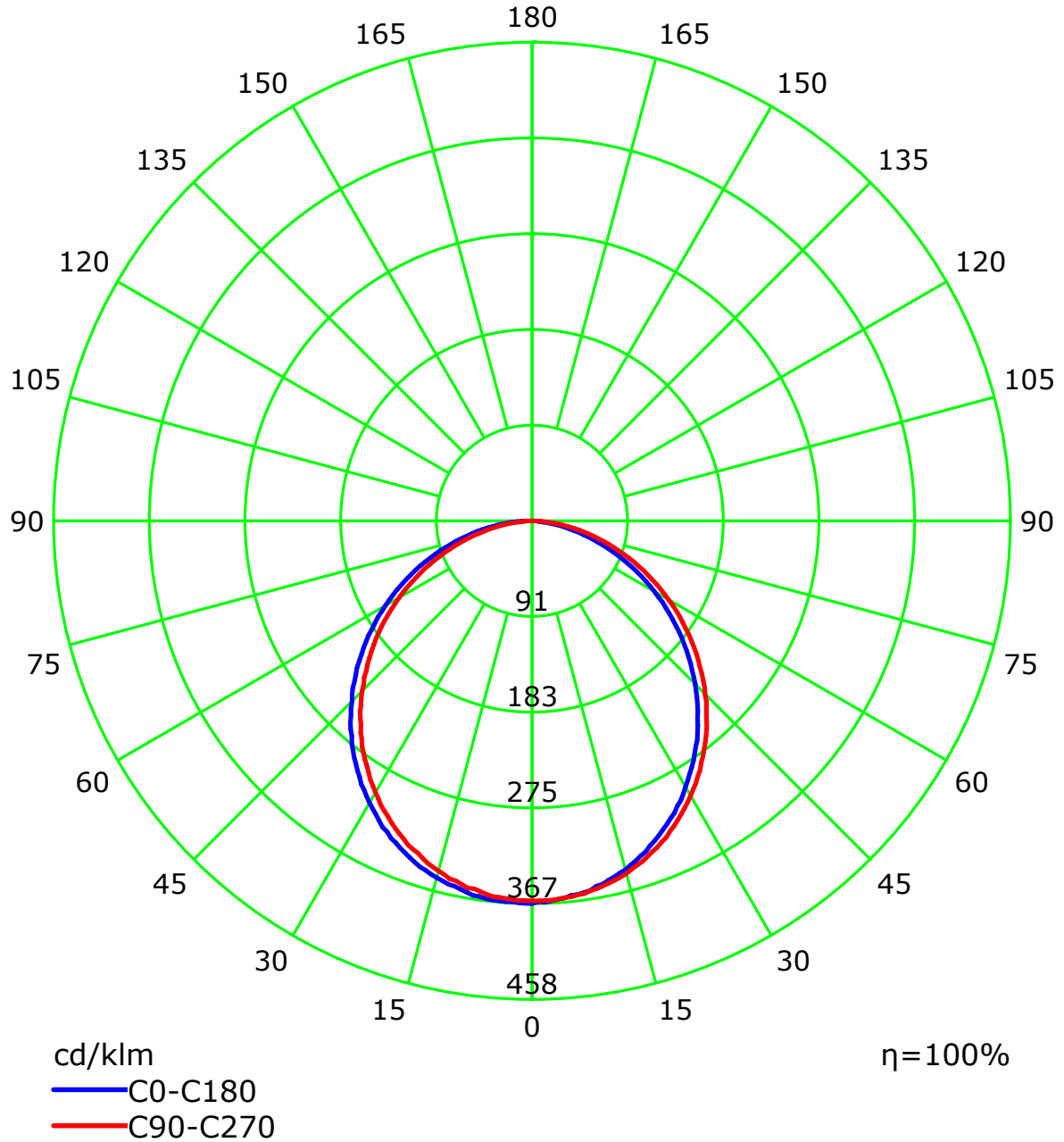


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

Unit: cd

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

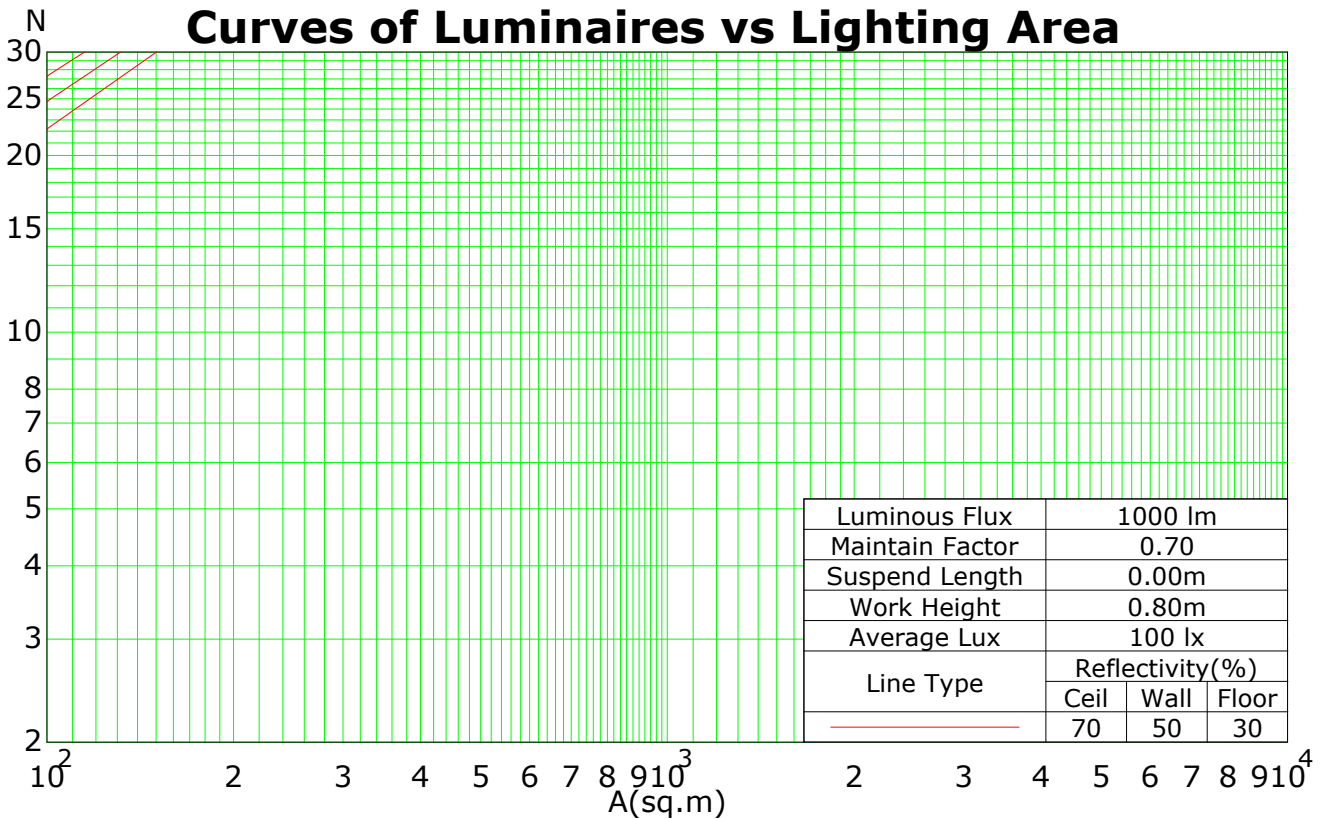
Humidity:

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

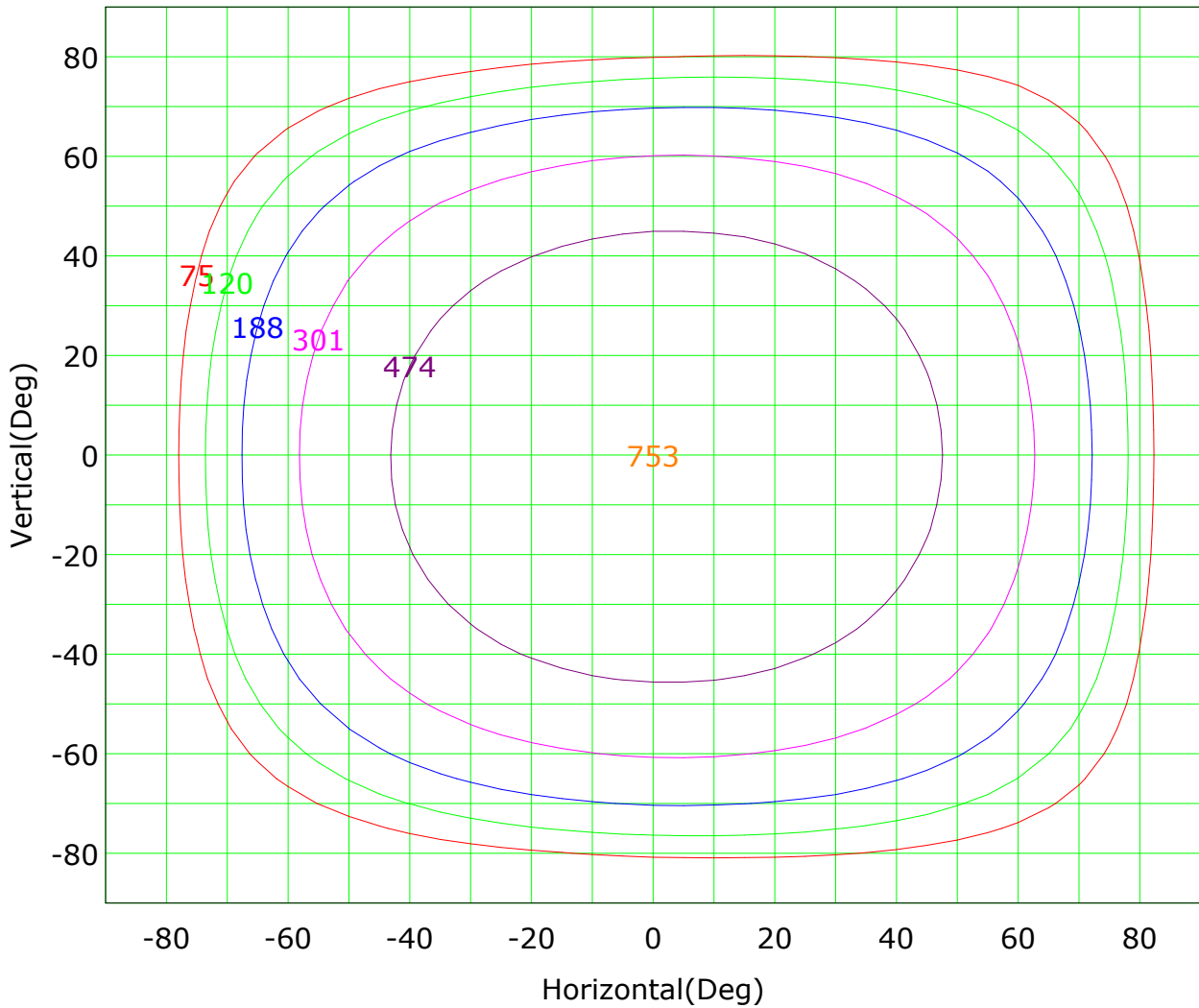
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.34



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%): 753 cd

- | | |
|------------------|------------------|
| — (10%): 75 cd | — (16%): 120 cd |
| — (25%): 188 cd | — (40%): 301 cd |
| — (63%): 474 cd | — (100%): 753 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

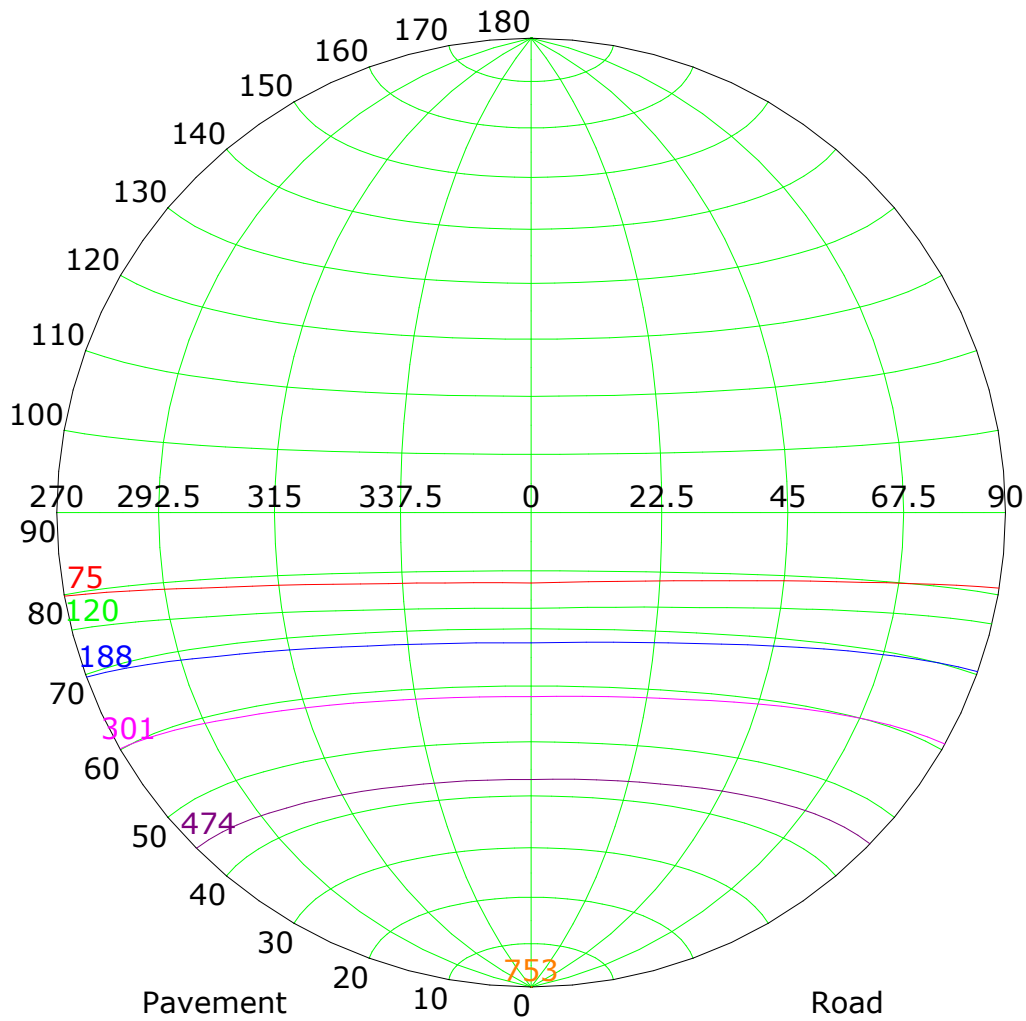
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 753 cd

— (10%):	75 cd	— (16%):	120 cd
— (25%):	188 cd	— (40%):	301 cd
— (63%):	474 cd	— (100%):	753 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

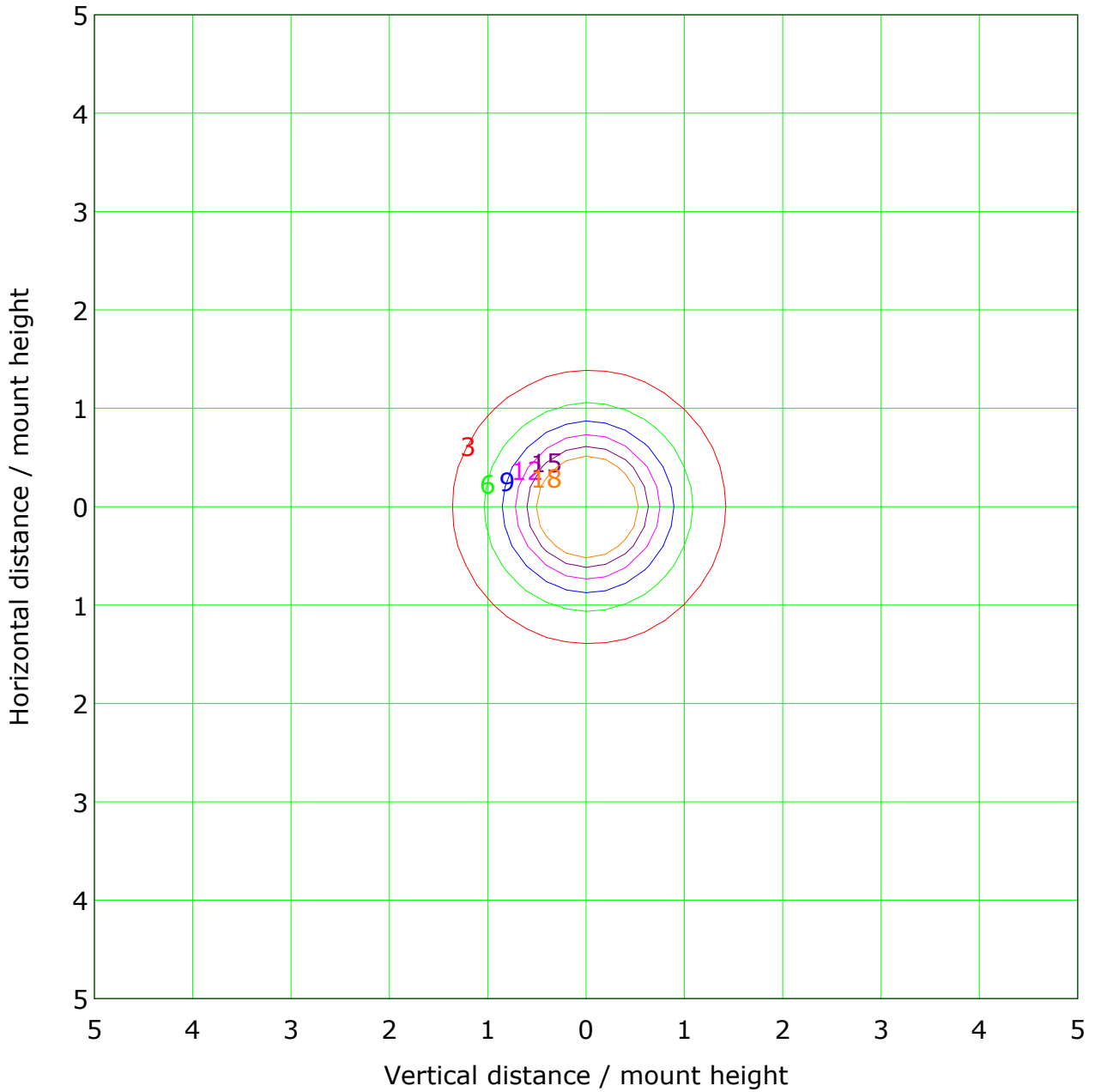
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 30.1 lx	
<ul style="list-style-type: none"> — (10%): 3.0 lx — (30%): 9.0 lx — (50%): 15.1 lx — (100%): 30.1 lx 	<ul style="list-style-type: none"> — (20%): 6.0 lx — (40%): 12.0 lx — (60%): 18.1 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

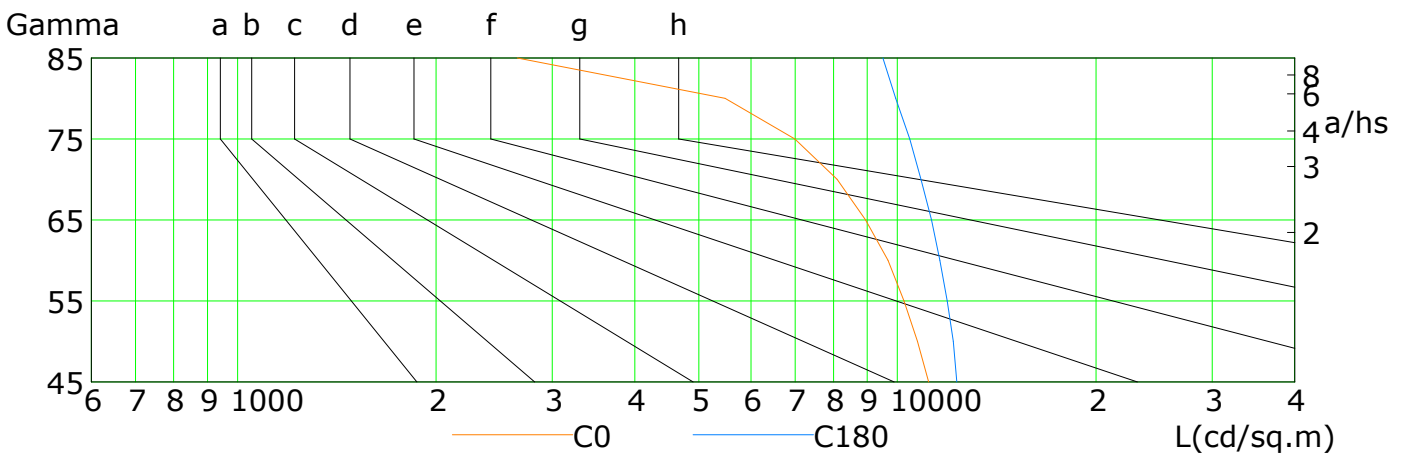
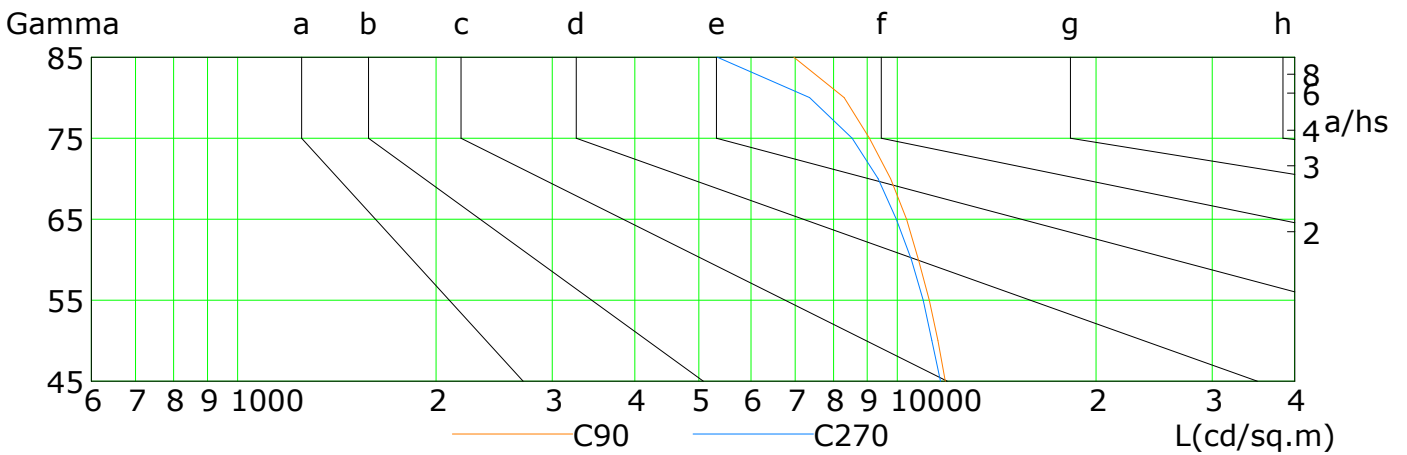
Humidity:

Inspector:

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	11153	10726	10230	9675	8949	8106	6992	5481	2655
C90	11816	11526	11181	10767	10321	9767	9066	8300	6970
C180	12300	12148	11903	11591	11261	10855	10437	9938	9508
C270	11617	11283	10942	10498	9965	9353	8540	7358	5338

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

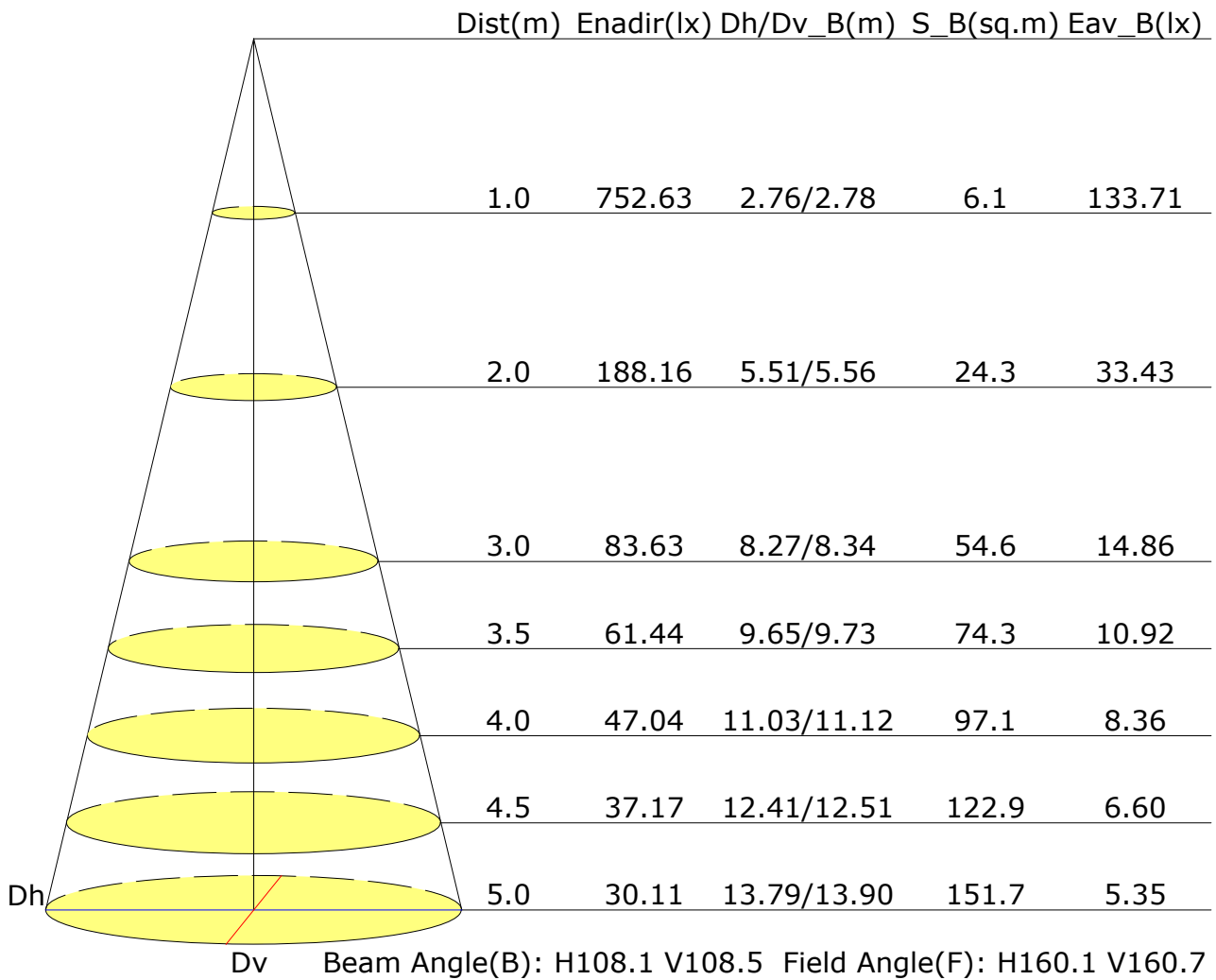
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

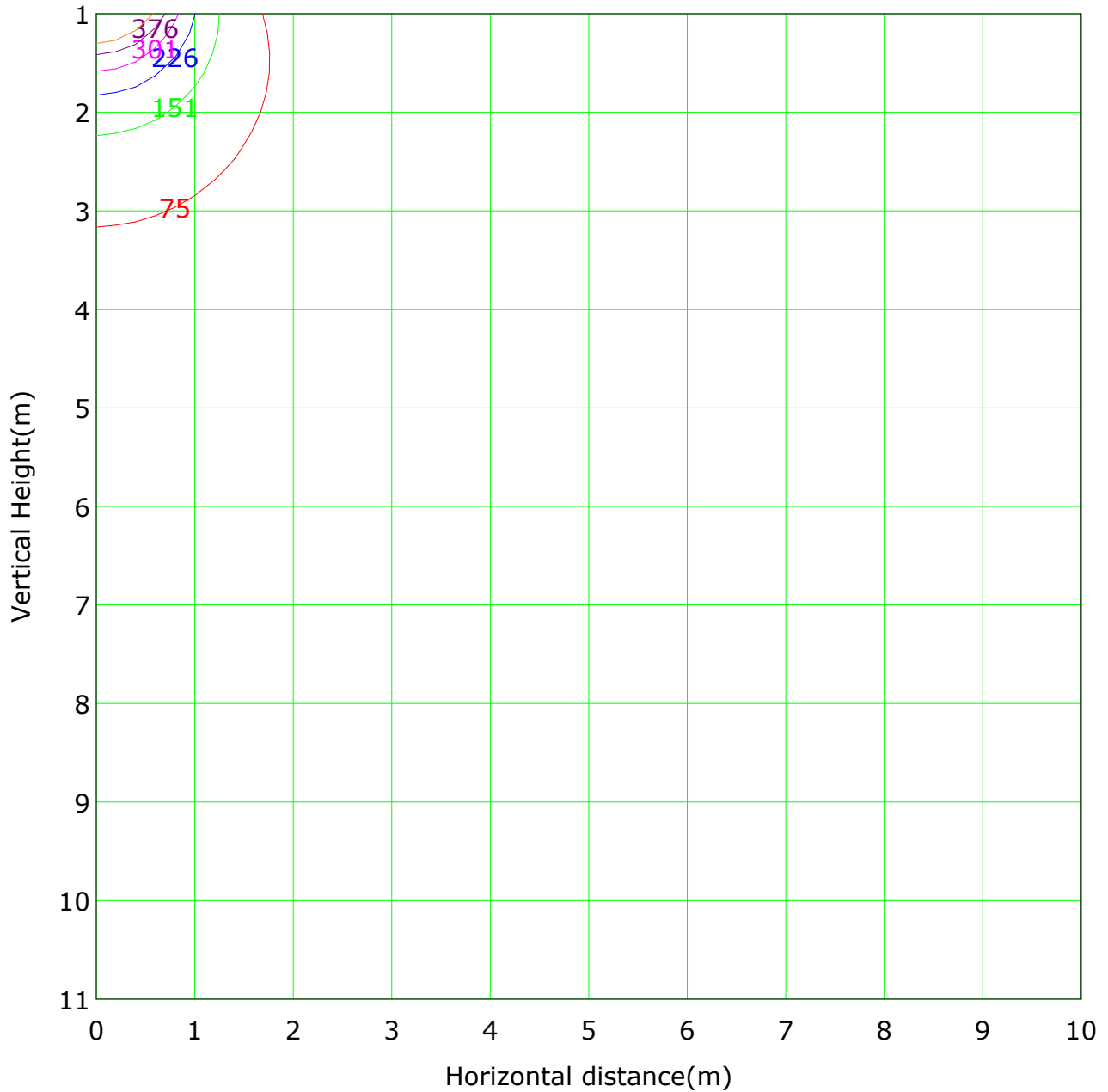
Illuminance at a Distance



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: 752.6 lx
— (10%): 75.3 lx	— (20%): 150.5 lx	
— (30%): 225.8 lx	— (40%): 301.1 lx	
— (50%): 376.3 lx	— (60%): 451.6 lx	
— (100%): 752.6 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

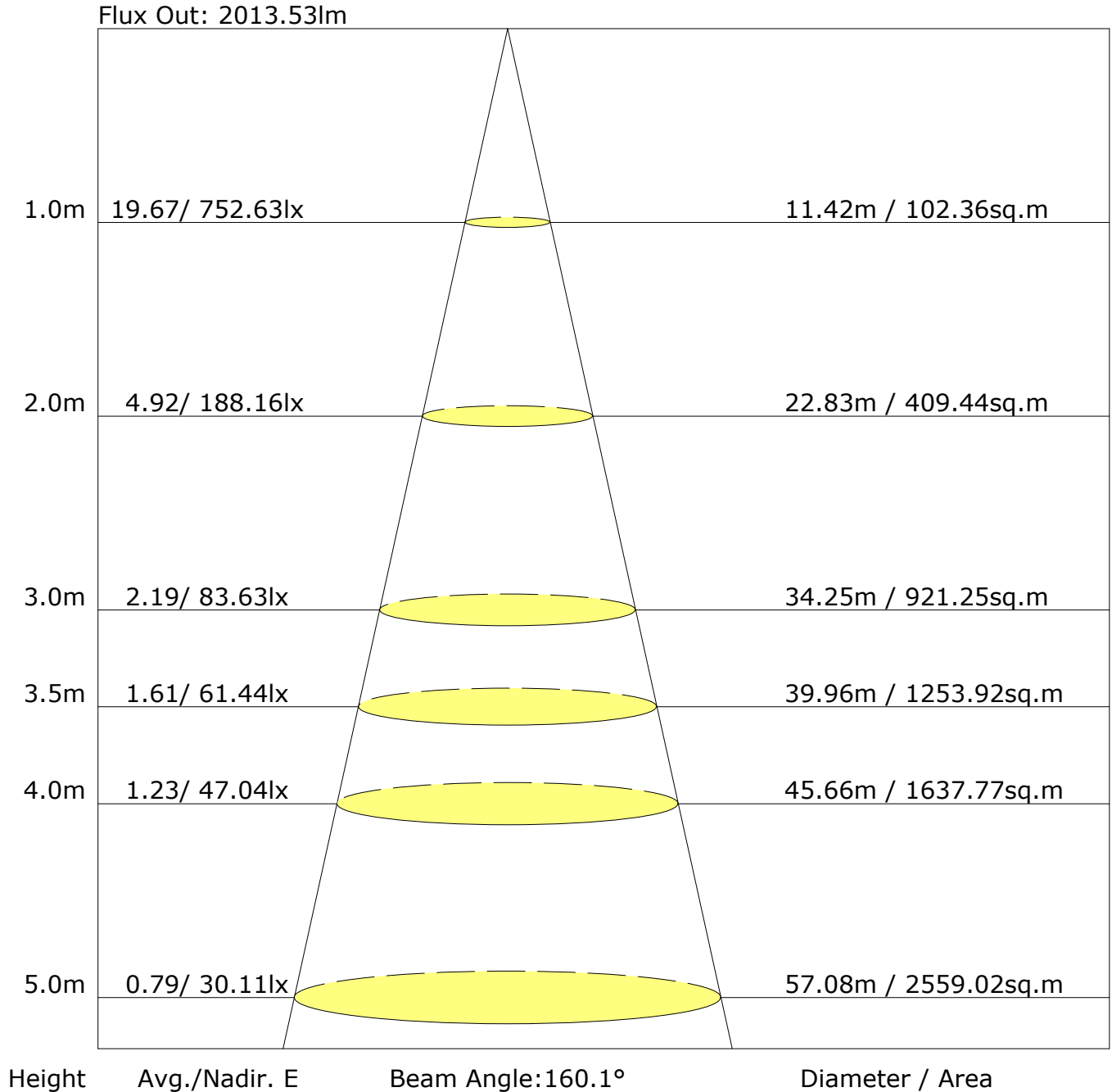
Unit: lm

-90	0.0	0.1	0.3	0.5	0.7	0.8	1.0	1.0	1.0	0.9	0.7	0.6	0.4	0.2	0.1	0.0	0.0	0.0	8.2	0.0		
-80	0.0	0.3	0.8	1.4	2.1	2.8	3.4	3.8	3.9	3.8	3.4	2.8	2.1	1.4	0.8	0.3	0.1	0.0	33.3	28.4		
-70	0.1	0.5	1.3	2.5	3.8	5.1	6.2	7.0	7.4	7.2	6.6	5.5	4.3	2.9	1.7	0.8	0.2	0.0	63.1	61.7		
-60	0.1	0.7	1.8	3.5	5.4	7.4	9.1	10.4	10.9	10.8	9.9	8.4	6.5	4.5	2.7	1.3	0.4	0.0	93.8	93.0		
-50	0.1	0.9	2.3	4.5	7.0	9.6	11.9	13.5	14.3	14.1	13.0	11.1	8.7	6.1	3.7	1.7	0.5	0.0	123.0	122.5		
-40	0.1	1.0	2.8	5.4	8.4	11.5	14.3	16.3	17.3	17.1	15.8	13.5	10.6	7.4	4.5	2.1	0.6	0.1	148.9	148.6		
-30	0.2	1.1	3.2	6.1	9.5	13.1	16.3	18.6	19.8	19.6	18.1	15.5	12.1	8.5	5.2	2.5	0.8	0.1	170.0	169.8		
-20	0.2	1.2	3.4	6.6	10.3	14.2	17.7	20.3	21.5	21.3	19.7	16.8	13.2	9.3	5.7	2.7	0.8	0.1	185.0	184.7		
-10	0.2	1.3	3.5	6.8	10.7	14.8	18.5	21.1	22.5	22.2	20.6	17.6	13.8	9.7	5.9	2.8	0.9	0.1	193.1	192.8		
0	0.2	1.3	3.5	6.8	10.7	14.8	18.4	21.1	22.5	22.3	20.7	17.7	13.8	9.7	5.9	2.8	0.9	0.1	193.3	193.1		
10	0.2	1.2	3.4	6.6	10.3	14.2	17.7	20.3	21.6	21.5	19.9	17.0	13.3	9.4	5.7	2.7	0.8	0.1	185.8	185.6		
20	0.2	1.1	3.1	6.1	9.5	13.1	16.3	18.7	20.0	19.8	18.3	15.6	12.2	8.6	5.2	2.5	0.8	0.1	171.3	171.0		
30	0.1	1.0	2.8	5.4	8.4	11.6	14.4	16.5	17.5	17.4	16.1	13.7	10.7	7.5	4.6	2.2	0.7	0.1	150.6	150.2		
40	0.1	0.9	2.3	4.5	7.0	9.6	12.0	13.7	14.6	14.4	13.3	11.3	8.9	6.2	3.7	1.8	0.5	0.0	124.9	124.4		
50	0.1	0.7	1.8	3.5	5.5	7.5	9.3	10.6	11.2	11.0	10.2	8.6	6.7	4.7	2.8	1.3	0.4	0.0	95.7	95.0		
60	0.1	0.5	1.3	2.4	3.8	5.2	6.4	7.2	7.6	7.5	6.9	5.8	4.5	3.1	1.8	0.8	0.2	0.0	65.0	63.6		
70	0.0	0.3	0.8	1.4	2.2	2.9	3.5	4.0	4.2	4.0	3.7	3.1	2.3	1.6	0.9	0.4	0.1	0.0	35.2	30.9		
80	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.1	1.1	1.1	0.9	0.7	0.5	0.3	0.2	0.0	0.0	0.0	9.6	0.8		
90	Flux(T)	2.0	14.1	38.9	74.2	116.1	159.1	197.4	225.3	238.9	236.1	217.4	185.3	144.7	101.3	61.0	28.9	8.6	0.7	2050		
	Flux(E)	0.5	12.2	37.0	72.4	114.2	157.2	195.6	223.4	237.0	234.3	215.5	183.4	142.8	99.3	58.9	26.7	5.8	0.0		2016	
		-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



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

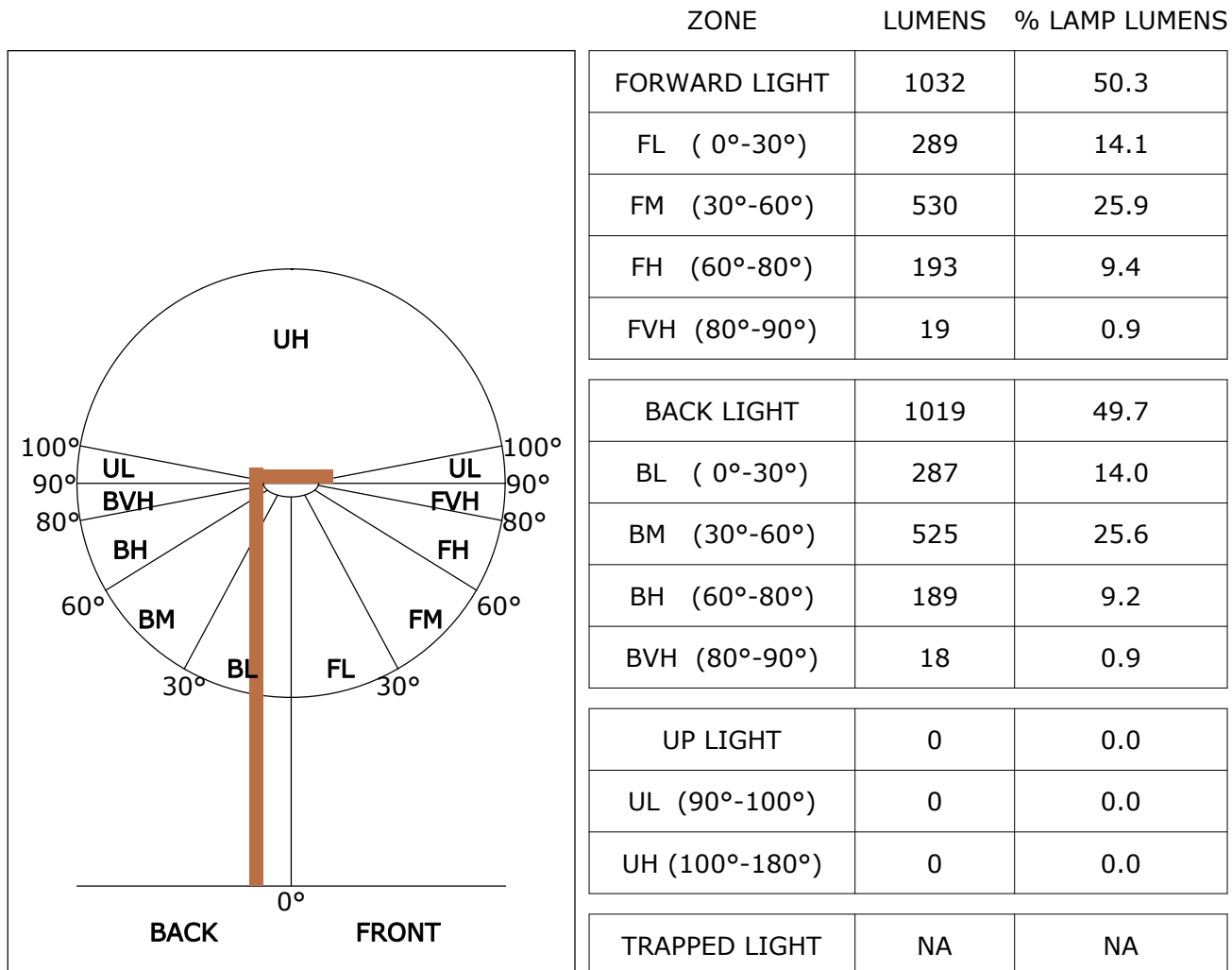
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	20.4	21.8	20.7	22.0	22.3	20.8	22.1	21.1	22.4	22.6
3H	21.8	23.0	22.1	23.3	23.6	22.3	23.5	22.6	23.8	24.1
4H	22.2	23.4	22.6	23.7	24.0	22.9	24.1	23.2	24.3	24.6
6H	22.5	23.6	22.9	23.9	24.3	23.3	24.4	23.7	24.7	25.0
8H	22.6	23.7	23.0	24.0	24.3	23.4	24.5	23.8	24.8	25.2
12H	22.6	23.6	23.0	24.0	24.3	23.5	24.5	23.9	24.9	25.2
X=4H Y=2H	21.1	22.3	21.4	22.6	22.9	21.3	22.5	21.7	22.8	23.1
3H	22.6	23.6	23.0	23.9	24.3	23.0	24.0	23.4	24.4	24.7
4H	23.2	24.1	23.6	24.5	24.8	23.7	24.7	24.2	25.0	25.4
6H	23.6	24.4	24.0	24.8	25.2	24.3	25.1	24.7	25.5	25.9
8H	23.7	24.4	24.1	24.8	25.3	24.5	25.2	24.9	25.6	26.1
12H	23.7	24.4	24.2	24.8	25.2	24.6	25.3	25.1	25.7	26.1
X=8H Y=4H	23.5	24.2	23.9	24.6	25.0	24.0	24.7	24.4	25.1	25.5
6H	24.0	24.6	24.4	25.0	25.5	24.6	25.2	25.1	25.7	26.1
8H	24.1	24.7	24.6	25.1	25.6	24.9	25.4	25.4	25.9	26.4
12H	24.2	24.7	24.7	25.1	25.6	25.1	25.5	25.6	26.0	26.5
X=12H Y=4H	23.5	24.2	23.9	24.6	25.0	24.0	24.6	24.4	25.1	25.5
6H	24.0	24.6	24.5	25.0	25.5	24.7	25.2	25.2	25.7	26.1
8H	24.2	24.7	24.7	25.1	25.6	25.0	25.4	25.4	25.9	26.4
Variations with the observer position at spacings:										
S=1.0H					+0.2/-0.2					+0.2/-0.2
S=1.5H					+0.3/-0.5					+0.3/-0.5
S=2.0H					+0.6/-1.0					+0.5/-0.9

Calculate in accordance with CIE Pub.117. The table is revised with 2050lm ($8\log(F/F_0) = 2.5$).

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

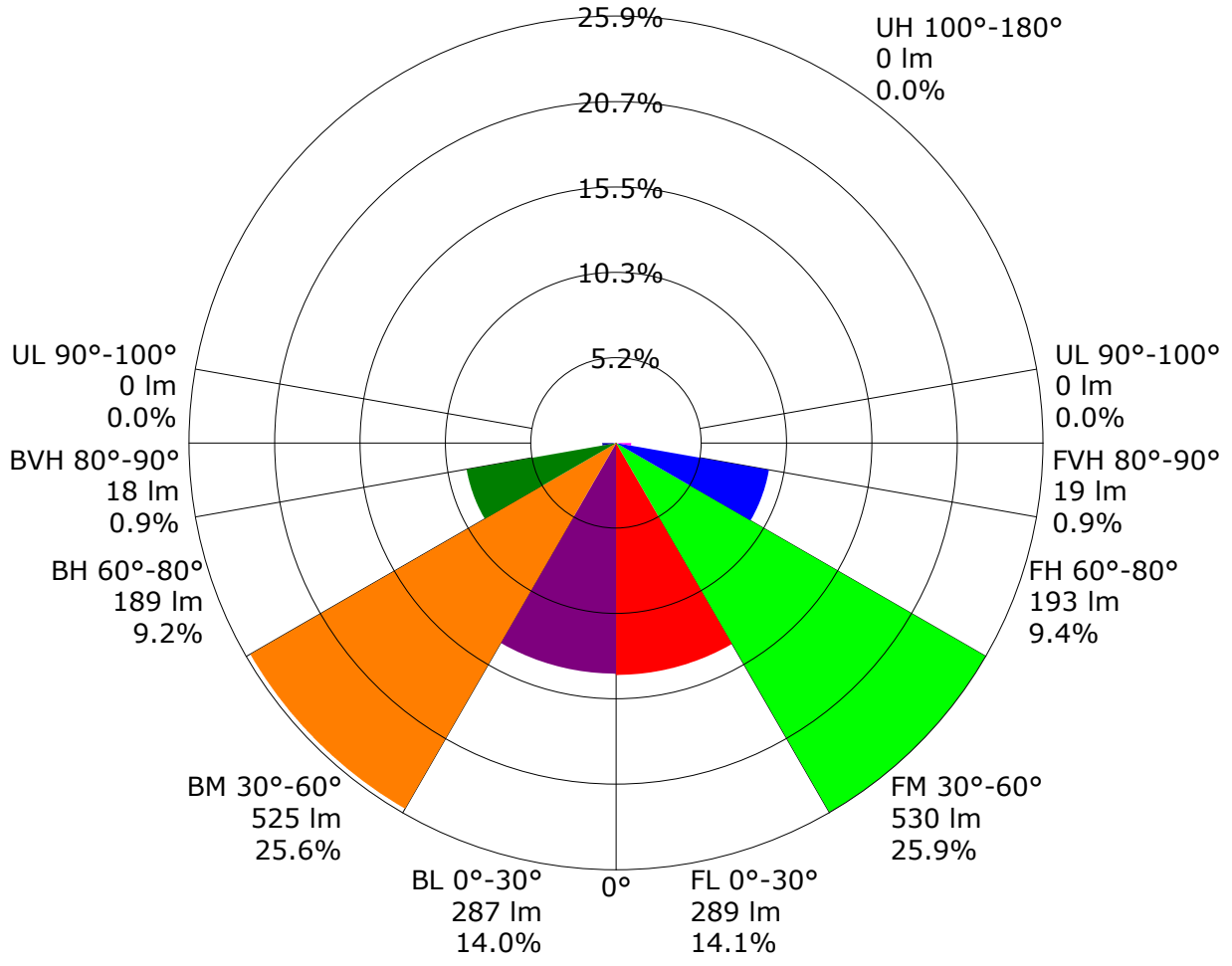


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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	0.68	0.75	0.80	0.88	0.93	0.96	1.01	1.04	
	0.30		0.49	0.60	0.68	0.73	0.81	0.87	0.91	0.96	1.00	
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.56	0.66	0.72	0.77	0.84	0.89	0.92	0.97	0.99	
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.43	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.94	
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.20		0.43	0.53	0.60	0.66	0.73	0.79	0.82	0.88	0.91	
0.00	0.00	0.00	0.41	0.51	0.57	0.63	0.70	0.75	0.78	0.83	0.86	
<p>Rating:24W 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	0.48	0.40	0.34	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	0.46	0.42	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20	
	0.30		0.79	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
<p>Rating:24W 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	0.20	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:24W 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	748.2	0.7	0.7	0.03	0.03
1.0-2.0	747.9	2.1	2.9	0.10	0.14
2.0-3.0	747.3	3.6	6.4	0.17	0.31
3.0-4.0	746.3	5.0	11.4	0.24	0.56
4.0-5.0	745.0	6.4	17.8	0.31	0.87
5.0-6.0	743.4	7.8	25.7	0.38	1.25
6.0-7.0	741.9	9.2	34.9	0.45	1.70
7.0-8.0	740.0	10.6	45.5	0.52	2.22
8.0-9.0	737.5	12.0	57.4	0.58	2.80
9.0-10.0	734.8	13.3	70.7	0.65	3.45
10.0-11.0	732.0	14.6	85.3	0.71	4.16
11.0-12.0	728.4	15.9	101.3	0.78	4.94
12.0-13.0	725.1	17.2	118.5	0.84	5.78
13.0-14.0	721.5	18.5	136.9	0.90	6.68
14.0-15.0	717.4	19.7	156.6	0.96	7.64
15.0-16.0	713.1	20.9	177.5	1.02	8.66
16.0-17.0	708.4	22.1	199.6	1.08	9.74
17.0-18.0	703.6	23.2	222.8	1.13	10.87
18.0-19.0	698.4	24.3	247.1	1.19	12.05
19.0-20.0	693.0	25.4	272.5	1.24	13.29
20.0-21.0	687.3	26.4	298.9	1.29	14.58
21.0-22.0	681.2	27.4	326.2	1.34	15.91
22.0-23.0	675.1	28.3	354.6	1.38	17.30
23.0-24.0	668.6	29.2	383.8	1.43	18.72
24.0-25.0	661.9	30.1	413.9	1.47	20.19
25.0-26.0	655.2	30.9	444.8	1.51	21.70
26.0-27.0	647.8	31.7	476.5	1.55	23.24
27.0-28.0	640.3	32.4	509.0	1.58	24.83
28.0-29.0	632.7	33.1	542.1	1.61	26.44
29.0-30.0	624.6	33.7	575.8	1.65	28.09
30.0-31.0	616.5	34.3	610.1	1.67	29.76
31.0-32.0	608.1	34.8	645.0	1.70	31.46
32.0-33.0	599.5	35.3	680.3	1.72	33.18
33.0-34.0	590.8	35.8	716.0	1.74	34.93
34.0-35.0	581.7	36.1	752.2	1.76	36.69
35.0-36.0	572.6	36.5	788.6	1.78	38.47

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	563.5	36.8	825.4	1.79	40.26
37.0-38.0	553.9	37.0	862.4	1.80	42.06
38.0-39.0	544.2	37.1	899.5	1.81	43.87
39.0-40.0	534.2	37.3	936.8	1.82	45.69
40.0-41.0	524.0	37.3	974.1	1.82	47.51
41.0-42.0	514.2	37.4	1011.5	1.82	49.34
42.0-43.0	503.7	37.3	1048.8	1.82	51.16
43.0-44.0	493.2	37.2	1086.0	1.82	52.97
44.0-45.0	482.7	37.1	1123.1	1.81	54.78
45.0-46.0	471.8	36.9	1160.0	1.80	56.58
46.0-47.0	461.2	36.7	1196.7	1.79	58.37
47.0-48.0	450.1	36.4	1233.1	1.77	60.14
48.0-49.0	438.7	36.0	1269.1	1.76	61.90
49.0-50.0	427.9	35.7	1304.8	1.74	63.64
50.0-51.0	416.7	35.3	1340.0	1.72	65.36
51.0-52.0	405.0	34.8	1374.8	1.70	67.06
52.0-53.0	393.6	34.2	1409.0	1.67	68.73
53.0-54.0	382.0	33.7	1442.7	1.64	70.37
54.0-55.0	370.6	33.1	1475.8	1.61	71.98
55.0-56.0	358.9	32.4	1508.2	1.58	73.57
56.0-57.0	346.9	31.7	1540.0	1.55	75.11
57.0-58.0	335.5	31.0	1571.0	1.51	76.63
58.0-59.0	323.7	30.3	1601.3	1.48	78.10
59.0-60.0	311.6	29.4	1630.7	1.44	79.54
60.0-61.0	299.7	28.6	1659.3	1.40	80.93
61.0-62.0	287.7	27.7	1687.0	1.35	82.29
62.0-63.0	276.0	26.8	1713.9	1.31	83.60
63.0-64.0	264.1	25.9	1739.8	1.26	84.86
64.0-65.0	252.1	24.9	1764.7	1.22	86.08
65.0-66.0	240.5	24.0	1788.7	1.17	87.25
66.0-67.0	228.6	23.0	1811.7	1.12	88.37
67.0-68.0	216.7	22.0	1833.7	1.07	89.44
68.0-69.0	204.8	20.9	1854.6	1.02	90.46
69.0-70.0	192.9	19.8	1874.4	0.97	91.43
70.0-71.0	181.6	18.8	1893.2	0.92	92.34
71.0-72.0	170.0	17.7	1910.9	0.86	93.20

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	158.6	16.6	1927.4	0.81	94.01
73.0-74.0	147.4	15.5	1942.9	0.76	94.77
74.0-75.0	136.1	14.4	1957.3	0.70	95.47
75.0-76.0	125.4	13.3	1970.6	0.65	96.12
76.0-77.0	114.5	12.2	1982.8	0.60	96.72
77.0-78.0	103.8	11.1	1994.0	0.54	97.26
78.0-79.0	93.7	10.1	2004.0	0.49	97.75
79.0-80.0	83.3	9.0	2013.0	0.44	98.19
80.0-81.0	73.2	7.9	2020.9	0.39	98.57
81.0-82.0	63.6	6.9	2027.8	0.34	98.91
82.0-83.0	54.0	5.9	2033.7	0.29	99.20
83.0-84.0	44.9	4.9	2038.6	0.24	99.43
84.0-85.0	35.8	3.9	2042.5	0.19	99.62
85.0-86.0	27.2	3.0	2045.5	0.14	99.77
86.0-87.0	19.4	2.1	2047.6	0.10	99.87
87.0-88.0	12.5	1.4	2049.0	0.07	99.94
88.0-89.0	7.3	0.8	2049.8	0.04	99.98
89.0-90.0	3.9	0.4	2050.2	0.02	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	752.6	749.5	747.1	746.8	747.3	747.2	752.6	749.5	747.1	746.8
G1.0	748.8	749.5	747.1	746.8	747.6	746.4	751.8	751.0	748.0	746.1
G2.0	750.0	747.3	748.6	746.4	747.5	746.8	751.2	750.2	746.7	746.9
G3.0	747.6	746.9	746.3	746.8	746.2	746.9	750.0	750.5	748.4	745.0
G4.0	745.2	745.6	745.7	744.9	745.9	747.2	750.3	749.0	745.5	744.0
G5.0	744.1	744.4	742.7	743.3	744.8	745.6	749.6	747.9	744.9	742.6
G6.0	740.0	741.2	741.2	743.2	743.0	744.6	749.2	747.4	743.2	742.2
G7.0	740.1	738.8	740.3	740.5	742.3	744.0	748.3	745.5	741.7	739.2
G8.0	737.5	737.1	737.7	740.1	741.3	742.2	745.4	744.3	739.0	735.5
G9.0	735.5	733.3	734.5	736.0	739.2	739.4	745.0	741.4	737.0	732.4
G10.0	729.1	729.2	732.5	734.1	738.0	738.6	741.1	739.1	735.0	732.5
G11.0	727.7	727.8	729.3	731.1	733.7	734.4	738.1	736.8	731.3	727.6
G12.0	722.0	723.6	726.0	727.8	729.4	731.4	734.4	733.1	729.1	723.1
G13.0	718.4	719.3	722.1	725.1	728.4	729.5	732.7	730.3	727.1	722.2
G14.0	713.5	715.0	717.4	721.3	724.5	724.4	729.1	726.3	722.8	716.4
G15.0	709.7	709.5	713.5	718.0	720.0	722.3	726.0	721.6	718.5	711.8
G16.0	704.0	705.0	708.2	711.9	717.5	718.6	722.7	718.6	714.1	707.9
G17.0	698.4	700.6	704.8	707.4	712.3	713.6	717.8	714.0	708.2	703.3
G18.0	692.3	693.8	697.6	703.8	707.2	710.0	714.6	712.0	703.6	697.2
G19.0	687.4	689.4	694.0	697.5	701.9	704.0	709.3	706.3	699.6	690.6
G20.0	679.3	683.2	687.6	691.9	697.6	700.2	704.4	700.8	694.1	686.5
G21.0	673.2	675.7	681.9	687.3	691.8	694.6	698.7	694.6	688.1	681.8
G22.0	666.8	670.3	675.4	680.7	686.5	688.1	693.3	689.6	680.4	674.3
G23.0	659.0	662.7	668.6	675.7	680.5	682.9	687.1	684.6	677.3	668.2
G24.0	652.5	656.3	661.8	667.4	673.4	677.3	682.6	677.7	668.4	661.5
G25.0	644.9	650.1	654.8	661.8	667.5	670.2	674.8	672.1	663.5	654.9
G26.0	638.8	641.3	647.9	654.0	660.4	662.3	670.2	664.8	656.8	646.8
G27.0	629.3	633.4	641.0	646.8	654.8	655.5	662.4	657.1	649.2	640.3
G28.0	622.8	625.8	631.4	639.3	646.7	650.6	654.4	650.6	642.4	633.5
G29.0	613.5	617.0	626.1	631.9	639.6	643.0	647.0	643.4	633.5	624.3
G30.0	603.8	608.3	614.6	623.6	631.2	635.6	639.7	635.1	626.3	616.3
G31.0	594.7	598.4	608.3	615.9	623.9	627.4	632.2	627.0	619.4	608.3
G32.0	585.2	590.4	597.8	608.3	614.7	618.8	623.6	620.1	609.8	600.6
G33.0	577.2	581.4	591.1	598.6	606.3	611.3	617.1	611.6	602.4	590.6
G34.0	568.2	572.4	581.8	590.9	598.0	601.3	606.9	600.7	593.1	581.3
G35.0	557.8	563.2	571.3	580.5	588.7	593.9	599.3	593.2	585.1	572.9
G36.0	548.3	553.8	562.6	571.9	579.5	584.9	589.7	584.1	575.3	564.2

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	539.9	542.3	553.5	562.0	571.2	576.0	582.1	577.5	565.7	555.6
G38.0	528.6	532.6	542.0	553.6	561.0	566.2	572.2	566.7	556.4	544.6
G39.0	517.7	523.5	532.3	544.0	552.6	557.8	563.9	558.2	546.5	535.8
G40.0	506.4	512.7	523.7	534.2	541.5	547.2	552.1	546.8	535.7	523.9
G41.0	496.9	502.6	512.7	523.8	531.5	538.5	544.0	537.3	527.7	515.2
G42.0	486.3	492.2	503.5	512.8	523.2	527.7	534.0	527.9	517.8	505.4
G43.0	475.3	480.1	491.3	503.1	512.1	517.7	522.3	516.0	507.7	494.0
G44.0	464.7	470.1	481.8	493.7	502.8	506.7	512.9	506.7	497.3	484.1
G45.0	454.3	459.7	470.3	481.3	491.6	495.9	501.0	497.0	485.1	473.1
G46.0	442.5	448.8	460.8	471.8	479.8	485.4	492.5	486.7	475.9	460.6
G47.0	430.8	438.5	449.0	460.3	470.1	476.0	482.3	475.3	465.2	452.1
G48.0	419.5	425.2	437.6	449.0	458.3	464.8	469.8	464.5	454.2	439.1
G49.0	408.5	414.4	425.6	437.0	448.2	453.3	459.9	454.1	442.5	429.3
G50.0	397.1	404.3	416.1	426.7	436.1	443.3	449.8	443.4	432.8	417.8
G51.0	385.2	391.6	404.2	415.8	426.2	431.3	437.5	431.1	419.1	406.5
G52.0	373.7	380.1	392.6	404.3	413.8	420.7	426.1	420.2	408.3	395.5
G53.0	361.8	367.8	381.0	392.5	403.2	408.4	415.1	408.6	397.2	384.0
G54.0	349.9	356.3	368.8	381.3	391.5	397.7	403.8	397.4	386.4	372.1
G55.0	338.0	344.1	356.6	369.4	379.9	387.0	393.2	387.9	374.5	361.5
G56.0	326.5	332.0	345.1	357.5	368.3	373.9	379.9	374.1	362.8	349.0
G57.0	313.6	320.8	334.3	346.4	356.4	362.7	368.5	362.5	350.9	337.0
G58.0	302.7	310.2	321.9	334.8	344.4	351.8	357.8	351.2	339.8	325.9
G59.0	290.1	296.6	309.8	322.6	332.6	339.1	345.2	339.3	327.9	313.8
G60.0	278.6	285.4	297.7	310.1	321.1	328.1	333.8	327.6	316.4	302.4
G61.0	265.9	272.7	286.3	298.1	308.9	314.8	321.6	315.9	304.0	290.5
G62.0	254.1	260.9	273.5	286.6	296.8	303.8	310.0	304.0	292.7	278.2
G63.0	242.3	250.4	262.3	275.5	285.1	292.0	298.5	292.0	281.3	266.3
G64.0	230.5	237.4	250.2	262.7	272.7	280.0	285.2	279.6	269.1	254.3
G65.0	217.9	226.1	238.1	251.2	261.1	268.4	274.1	269.2	257.6	242.6
G66.0	206.0	214.9	227.2	240.2	250.3	256.5	261.8	256.2	246.0	231.3
G67.0	193.9	202.0	214.8	226.9	237.8	243.9	250.0	244.6	233.4	218.7
G68.0	183.1	190.5	203.7	215.8	226.1	232.9	238.3	232.9	222.4	207.5
G69.0	170.8	178.5	190.8	203.6	213.5	220.4	225.6	221.1	209.3	194.8
G70.0	159.7	166.8	179.8	192.4	201.8	208.7	213.9	208.6	198.3	184.3
G71.0	148.8	156.2	168.4	181.2	190.0	197.1	202.4	197.9	187.0	172.9
G72.0	136.7	144.6	156.9	168.7	178.6	184.3	190.5	185.4	174.2	161.1
G73.0	126.1	133.6	145.9	158.1	167.9	173.4	178.8	174.4	163.7	150.0

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	115.5	122.0	135.3	146.4	156.2	161.0	165.9	163.4	152.2	139.1
G75.0	104.2	112.2	123.8	135.1	144.7	150.6	155.6	151.2	140.9	127.3
G76.0	94.5	101.6	113.7	124.9	133.8	140.1	144.3	140.3	130.8	117.1
G77.0	83.4	90.9	102.5	113.6	122.2	127.9	132.4	129.5	118.9	105.3
G78.0	74.0	81.2	92.8	103.8	112.2	117.5	121.8	119.4	108.8	95.1
G79.0	64.4	71.8	82.5	93.5	102.0	106.8	111.3	108.2	97.9	85.0
G80.0	54.8	62.1	71.6	83.0	91.3	96.0	99.4	97.1	86.9	73.6
G81.0	45.9	52.9	62.5	73.1	81.6	85.6	88.9	87.3	77.2	64.3
G82.0	37.8	43.8	53.7	62.7	72.1	74.9	77.9	77.2	66.6	55.0
G83.0	29.2	35.6	43.7	53.4	62.2	65.3	67.8	66.9	57.3	44.8
G84.0	21.7	27.6	34.9	44.6	52.6	55.9	57.8	56.9	48.1	36.5
G85.0	13.3	19.1	25.5	35.0	42.9	45.9	47.7	47.1	38.5	26.8
G86.0	6.8	12.0	17.2	26.3	33.9	37.2	38.7	37.6	30.0	18.5
G87.0	1.9	5.4	9.8	18.1	25.3	28.5	29.8	28.6	21.8	10.6
G88.0	0.6	1.5	4.0	9.6	16.5	19.5	20.9	19.4	13.4	4.2
G89.0	0.6	0.7	0.9	3.4	9.7	12.0	12.9	12.3	7.6	1.3
G90.0	0.7	0.8	0.7	0.6	4.6	6.0	5.5	6.9	3.2	0.7

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	747.3	747.2	752.6						
G1.0	746.7	746.8	748.8						
G2.0	745.6	744.9	750.0						
G3.0	744.9	743.4	747.6						
G4.0	743.0	742.7	745.2						
G5.0	741.2	739.2	744.1						
G6.0	737.4	739.7	740.0						
G7.0	737.2	734.9	740.1						
G8.0	733.2	733.8	737.5						
G9.0	730.5	728.8	735.5						
G10.0	727.5	726.1	729.1						
G11.0	724.7	721.7	727.7						
G12.0	720.0	717.4	722.0						
G13.0	714.8	714.5	718.4						
G14.0	712.4	708.8	713.5						
G15.0	707.0	706.7	709.7						
G16.0	700.6	699.8	704.0						
G17.0	697.5	694.8	698.4						
G18.0	691.6	689.4	692.3						
G19.0	685.8	683.0	687.4						
G20.0	679.9	677.0	679.3						
G21.0	673.9	671.7	673.2						
G22.0	666.9	664.4	666.8						
G23.0	661.8	657.9	659.0						
G24.0	653.4	648.8	652.5						
G25.0	647.4	642.9	644.9						
G26.0	639.8	636.0	638.8						
G27.0	632.0	626.7	629.3						
G28.0	622.6	619.0	622.8						
G29.0	615.5	611.8	613.5						
G30.0	607.0	602.3	603.8						
G31.0	600.9	594.8	594.7						
G32.0	589.5	584.7	585.2						
G33.0	579.9	577.5	577.2						
G34.0	572.3	568.5	568.2						
G35.0	562.5	557.2	557.8						
G36.0	553.6	548.0	548.3						

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 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	543.5	538.2	539.9						
G38.0	532.6	528.9	528.6						
G39.0	524.5	518.7	517.7						
G40.0	513.5	507.8	506.4						
G41.0	502.9	497.3	496.9						
G42.0	492.6	488.0	486.3						
G43.0	482.0	476.1	475.3						
G44.0	471.4	466.2	464.7						
G45.0	460.5	455.6	454.3						
G46.0	449.5	443.5	442.5						
G47.0	438.3	432.5	430.8						
G48.0	427.9	421.3	419.5						
G49.0	415.9	408.7	408.5						
G50.0	405.3	399.5	397.1						
G51.0	392.9	386.4	385.2						
G52.0	382.2	375.3	373.7						
G53.0	369.3	364.4	361.8						
G54.0	358.2	351.6	349.9						
G55.0	347.1	340.7	338.0						
G56.0	334.9	328.7	326.5						
G57.0	322.5	317.3	313.6						
G58.0	311.9	306.1	302.7						
G59.0	299.6	293.3	290.1						
G60.0	287.3	280.8	278.6						
G61.0	275.1	269.2	265.9						
G62.0	263.2	256.9	254.1						
G63.0	252.2	245.8	242.3						
G64.0	239.4	233.2	230.5						
G65.0	228.4	220.6	217.9						
G66.0	216.3	210.3	206.0						
G67.0	205.4	198.1	193.9						
G68.0	192.9	185.9	183.1						
G69.0	181.4	174.3	170.8						
G70.0	169.8	162.5	159.7						
G71.0	158.9	151.9	148.8						
G72.0	147.1	139.9	136.7						
G73.0	136.5	129.3	126.1						

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	124.7	118.8	115.5							
G75.0	114.1	107.0	104.2							
G76.0	103.8	96.9	94.5							
G77.0	92.8	86.3	83.4							
G78.0	82.7	76.3	74.0							
G79.0	73.3	66.9	64.4							
G80.0	62.5	56.8	54.8							
G81.0	53.0	48.3	45.9							
G82.0	43.3	39.7	37.8							
G83.0	34.3	31.0	29.2							
G84.0	25.8	23.0	21.7							
G85.0	17.5	15.2	13.3							
G86.0	10.8	8.4	6.8							
G87.0	5.8	3.0	1.9							
G88.0	2.0	0.8	0.6							
G89.0	0.6	0.6	0.6							
G90.0	0.7	0.7	0.7							

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: