

# FACTORY DIRECT LIGHTING

Tel:  
Fax:

Report No.: 20170703006

Test Time: 2017-07-05 16:12

## Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-54LED5K-120MD

Lamp Catalog: 2835/AC1500S54D

Lamp Description: 2835/5000K

Luminous Length (mm): 1290

Luminous Width (mm): 140

Luminous Height (mm): 100

Voltage: 119.5 V

Current: 0.449 A

Power: 53.63 W

Power Factor: 0.999

## Photometric Results

CIE Class: Direct

Measurement Flux: 6365.8 lm

Downward Ratio: 92%

Field Angle: H159.8 V218.7

Luminaire Efficacy Rating (LER): 119

Max. Intensity: 1905.21 cd

Total Rated Lamp Lumens: 6365.8 lm

Efficiency: 100%

Upward Ratio: 8%

Beam Angle: H106.1 V125.6

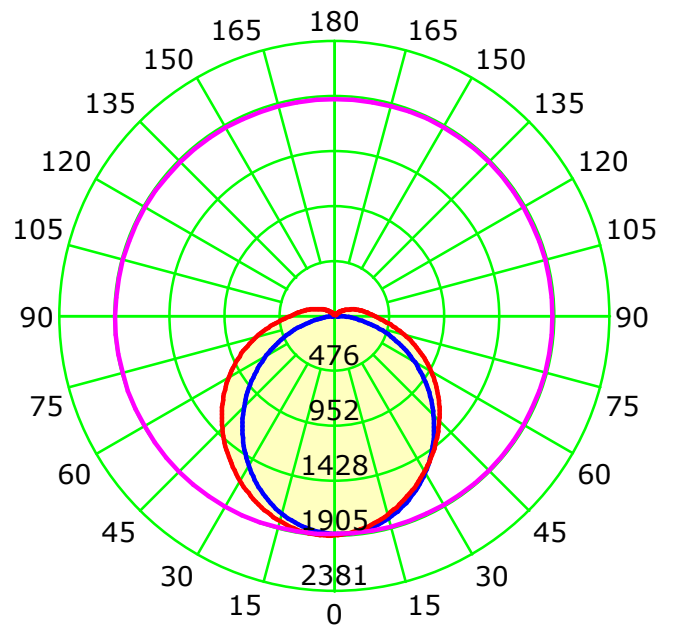
Central Intensity: 1887.81 cd

Pos of Max. Intensity: H330 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.690 m

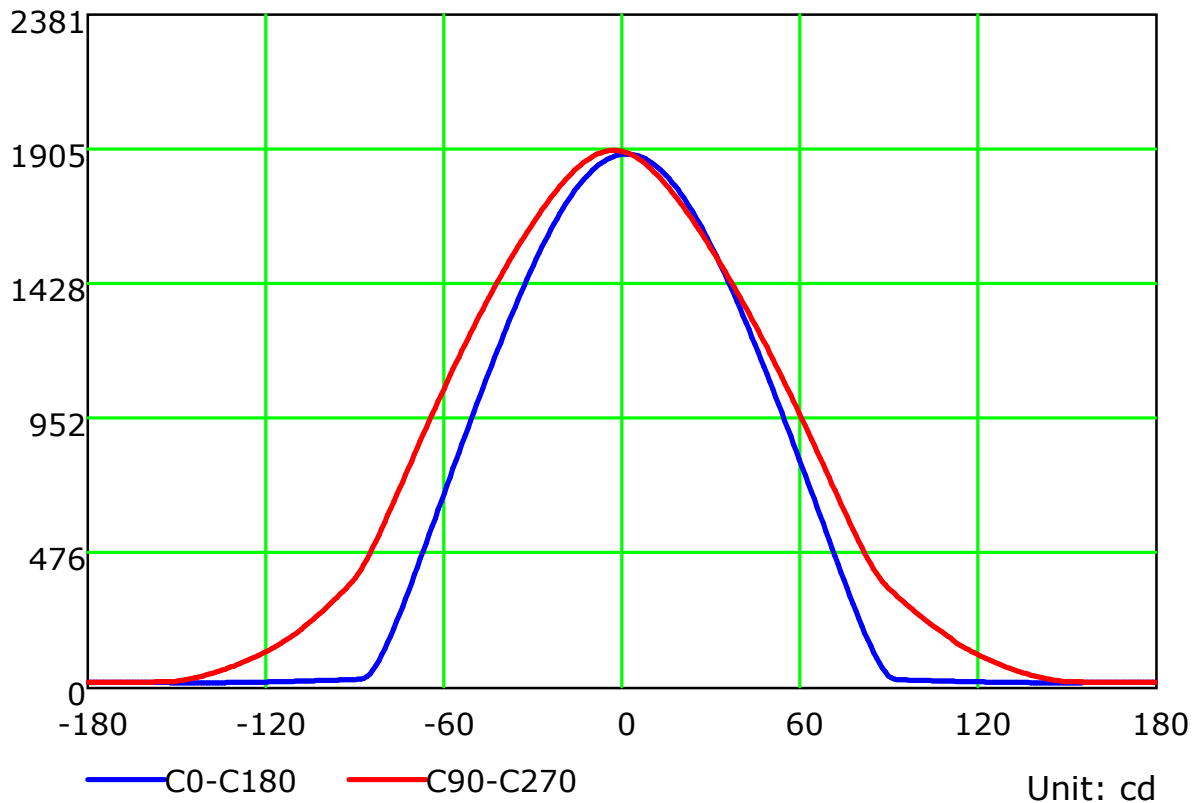
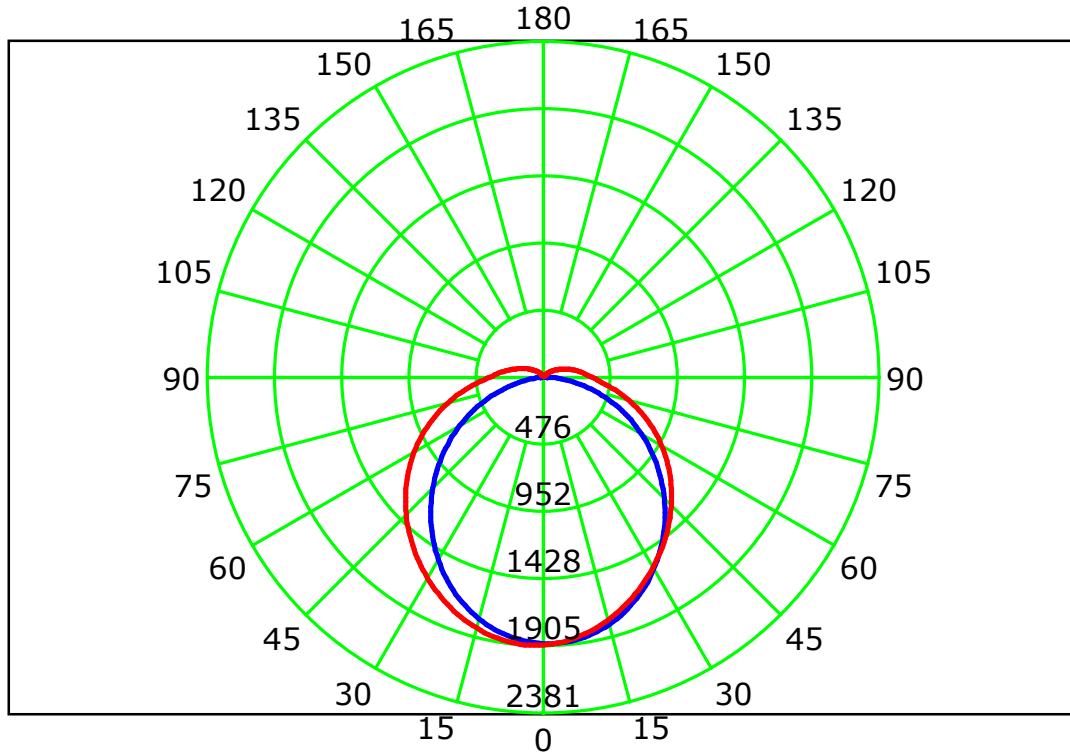
Humidity: 45-75

Inspector:

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**Luminous Intensity Distribution Curve**



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

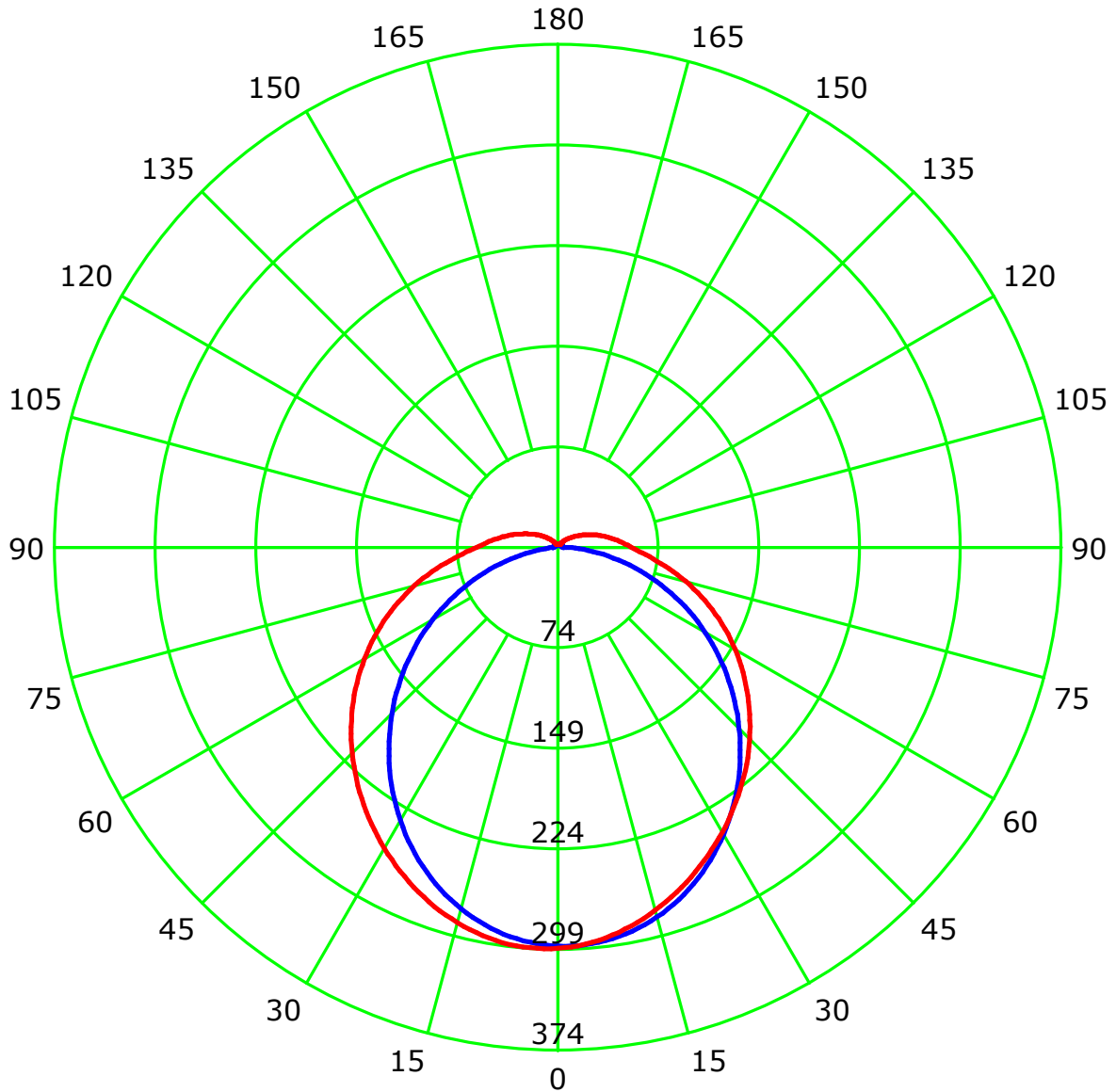
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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## Luminous Intensity Distribution Curve(cd/klm)



cd/klm

— C0-C180

— C90-C270

$\eta=100\%$

2835/AC1500S54D/2835/5000K

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 8.690 m  
Humidity: 45-75  
Inspector:

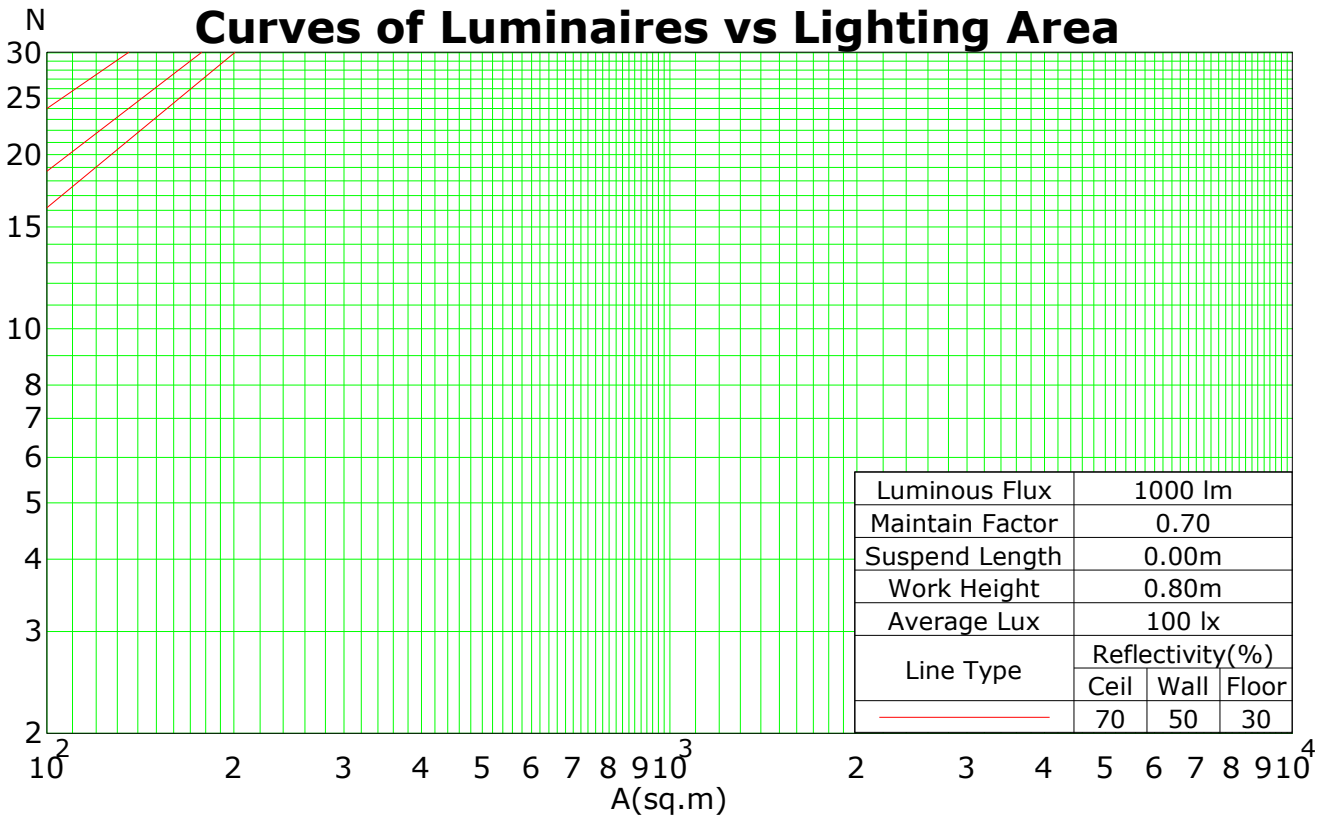
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## Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	78	76	73
2	95	86	79	72	92	83	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	66	60	83	73	65	59	69	62	56	65	59	54	61	57	52	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	54	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	32
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	28
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	22	32	26	22	20

Spacing Criteria (0-180): 1.21  
 Spacing Criteria (90-270): 1.26  
 Spacing Criteria (Diagonal): 1.37



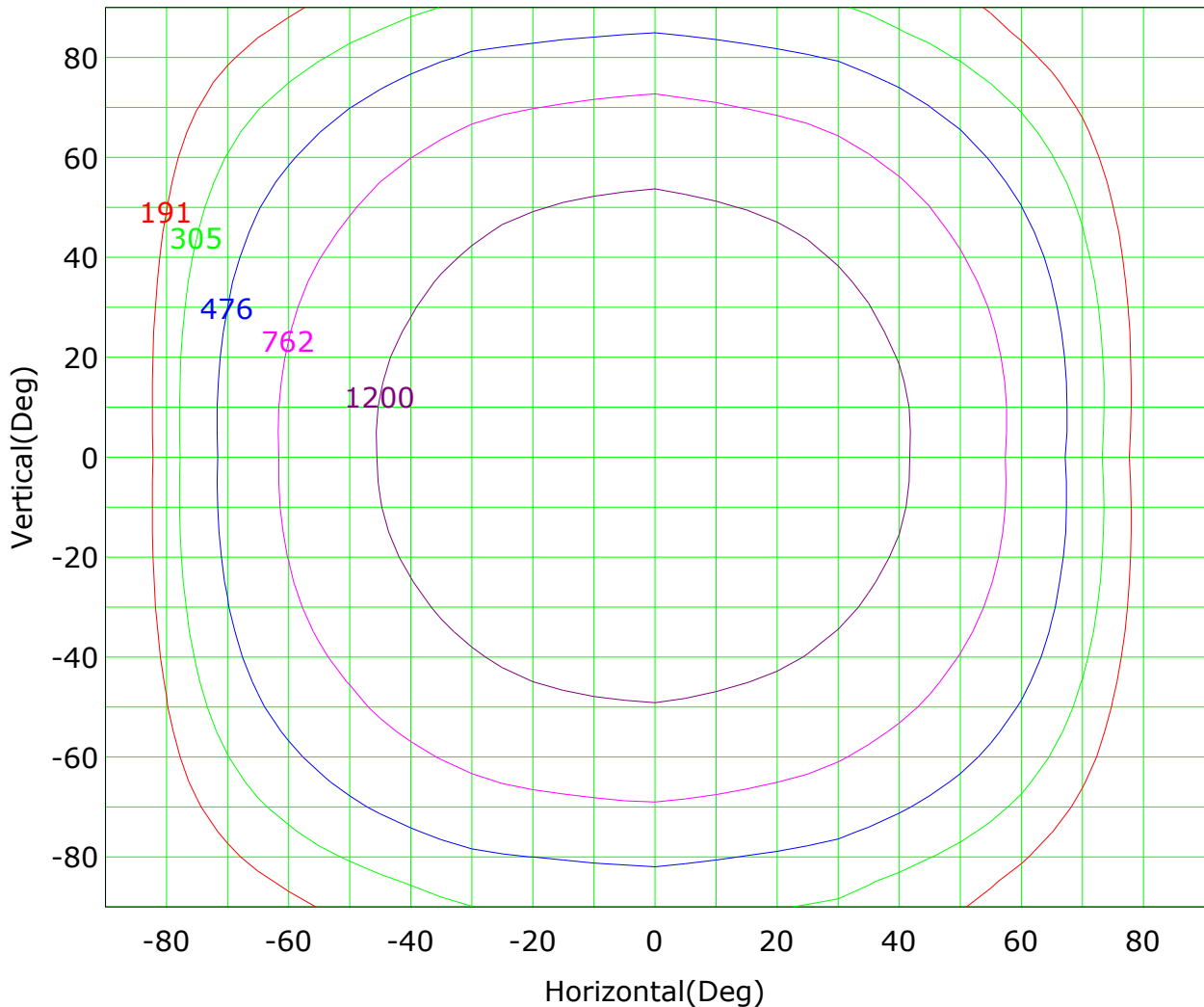
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
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## Isocandela (rectangle)



Imax (100%): 1905 cd

( 10%): 191 cd	( 16%): 305 cd
( 25%): 476 cd	( 40%): 762 cd
( 63%): 1200 cd	(100%): 1905 cd

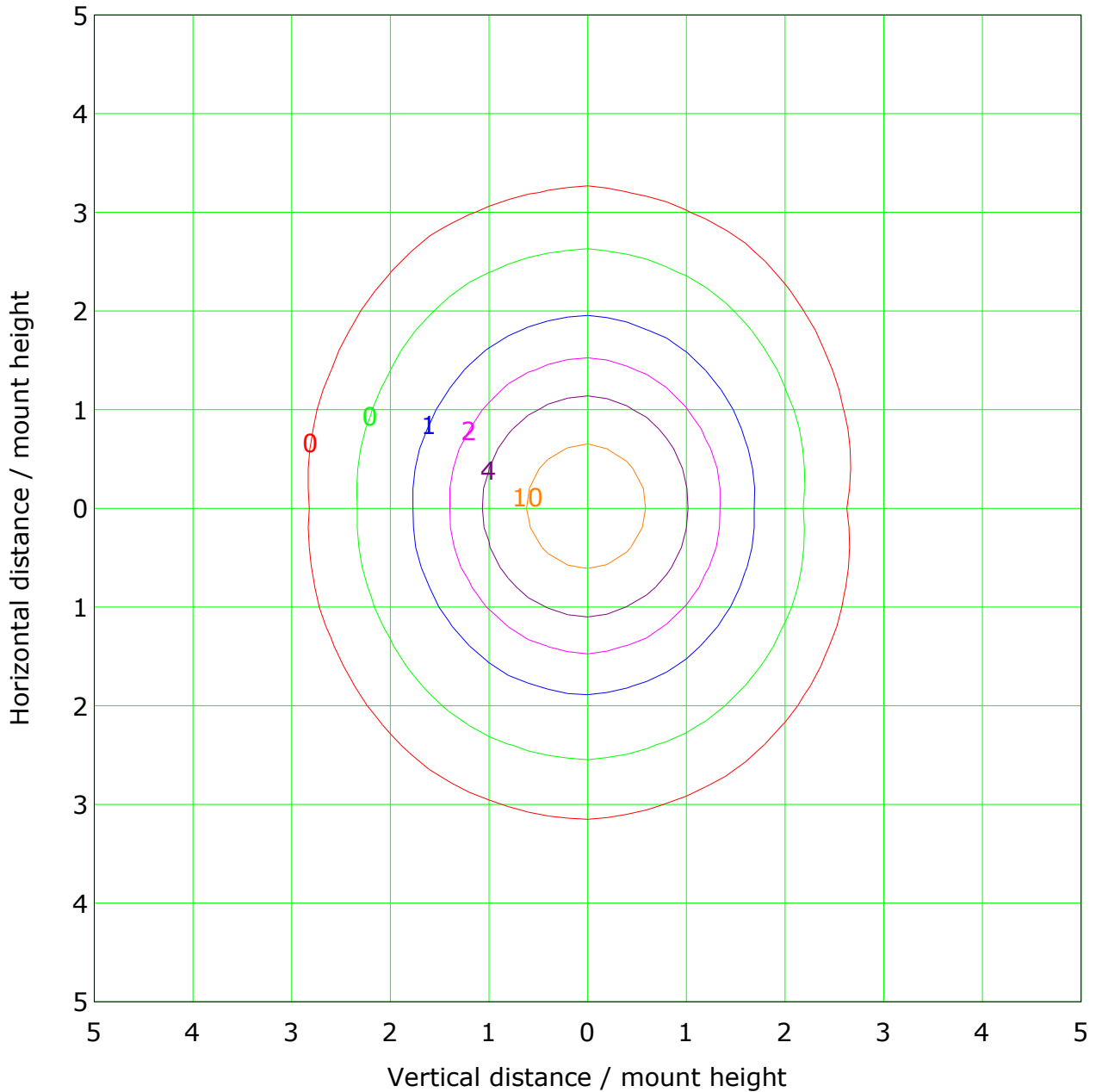
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## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 19.0 lx	
— ( 1%):	0.2 lx	— ( 2%):	0.4 lx
— ( 5%):	1.0 lx	— ( 10%):	1.9 lx
— ( 20%):	3.8 lx	— ( 50%):	9.5 lx
— (100%):	19.0 lx		

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

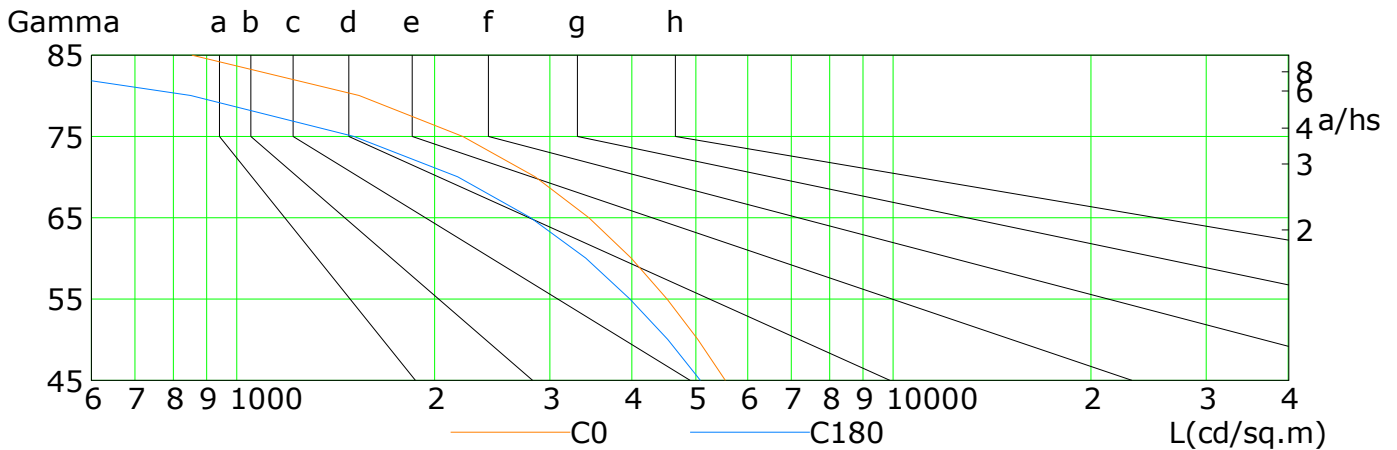
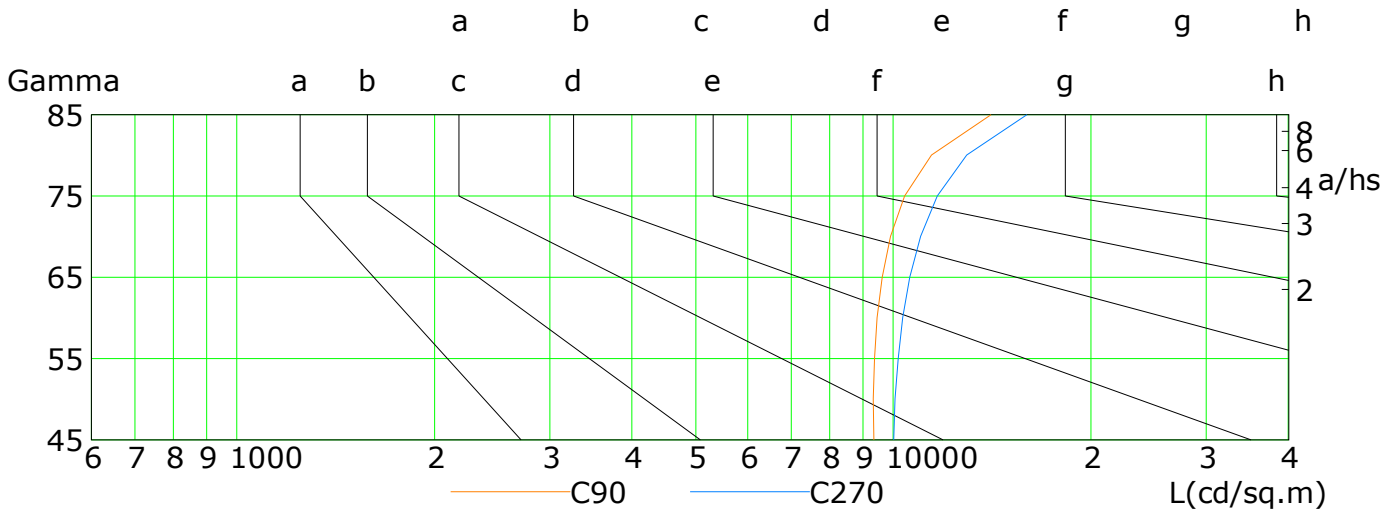
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
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## Lum Limit Curve

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5545	5035	4519	3991	3440	2847	2211	1535	854
C90	9334	9331	9372	9459	9631	9902	10415	11438	14085
C180	5078	4529	3969	3399	2801	2169	1507	850	329
C270	10011	10068	10170	10339	10598	11008	11682	12952	15989

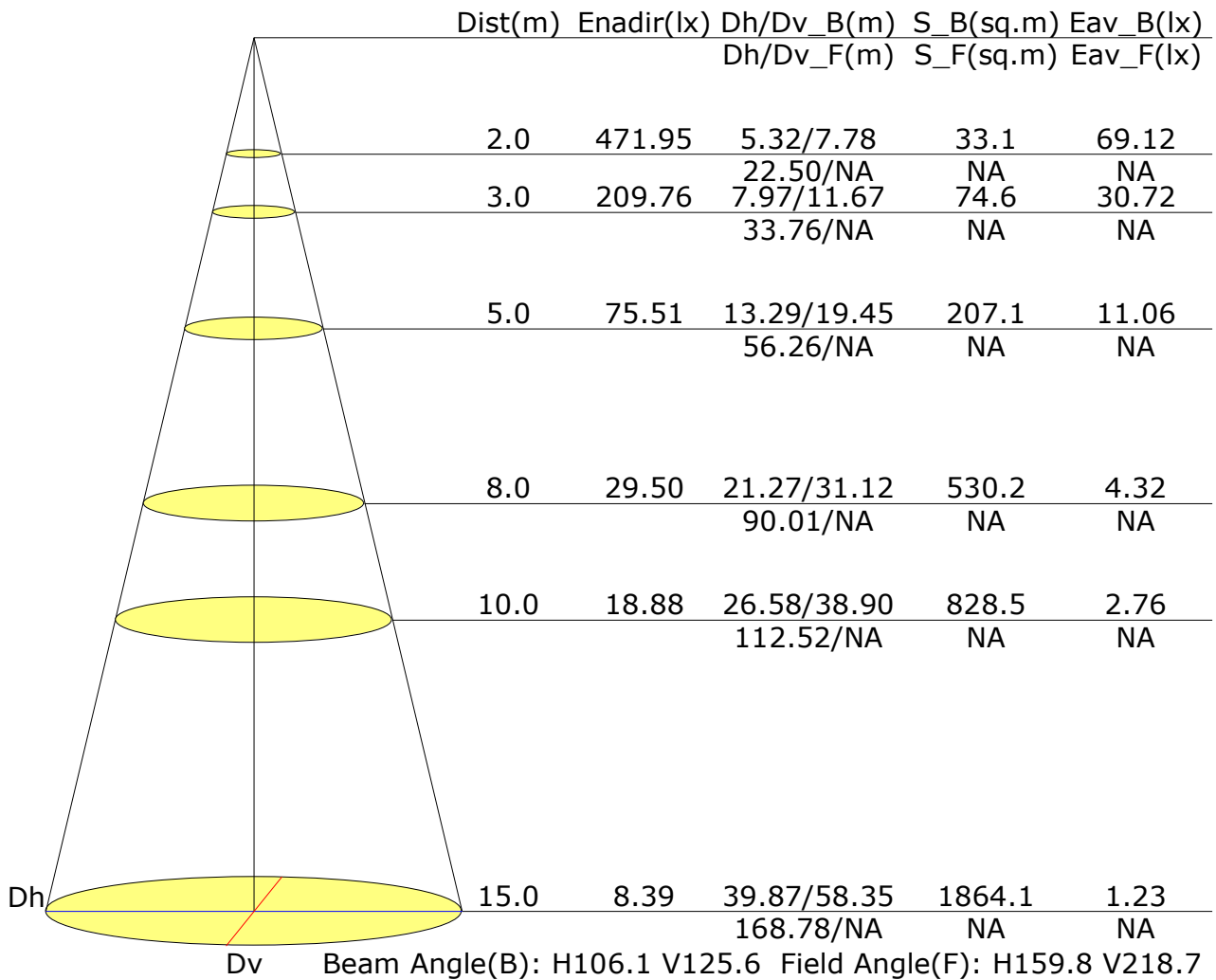
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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## Illuminance at a Distance



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

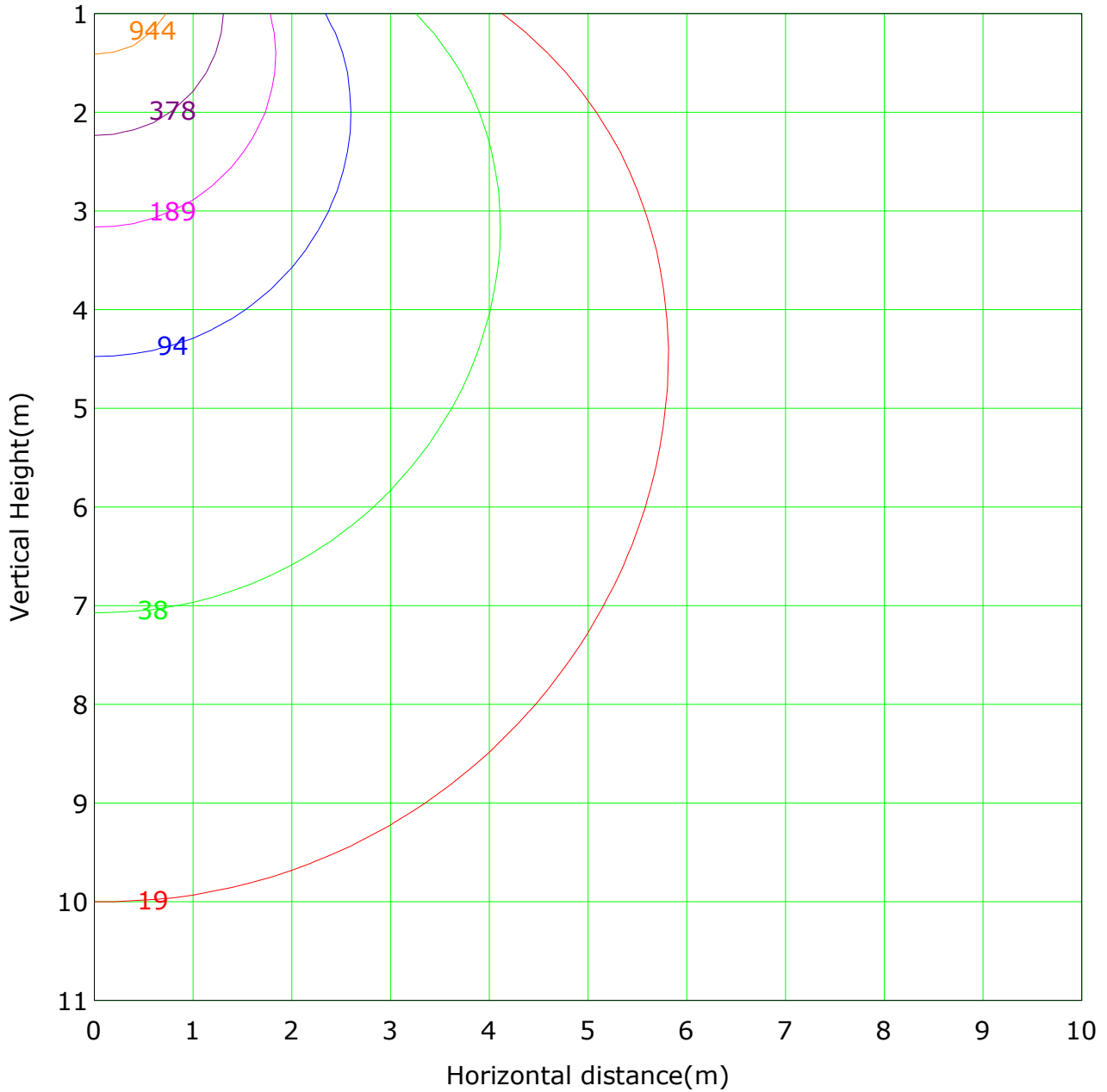
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:



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## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1887.8 lx  
— ( 1%): 18.9 lx                      — ( 2%): 37.8 lx  
— ( 5%): 94.4 lx                        — ( 10%): 188.8 lx  
— ( 20%): 377.6 lx                      — ( 50%): 943.9 lx  
— (100%):1887.8 lx

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

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600L  
Distance: 8.690 m  
Humidity: 45-75  
Inspector:

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**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(E)	Flux(T)	0.2	0.8	2.0	3.8	6.1	8.7	11.0	12.7	14.0	14.2	13.1	11.7	9.4	6.7	4.3	2.4	1.0	0.2	122.3	116.2	
0.0	3.4	19.8	29.0	89.8	181.4	294.5	417.5	533.2	622.9	677.7	7683.2	638.4	556.0	443.7	320.8	205.2	109.2	40.9	6.3	5853		
		84.2	179.7	294.5	417.5	533.2	622.9	677.7	7683.2	638.4	556.0	443.7	320.8	205.2	109.2	40.9	6.3	5853		5820		

Horizontal plane

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

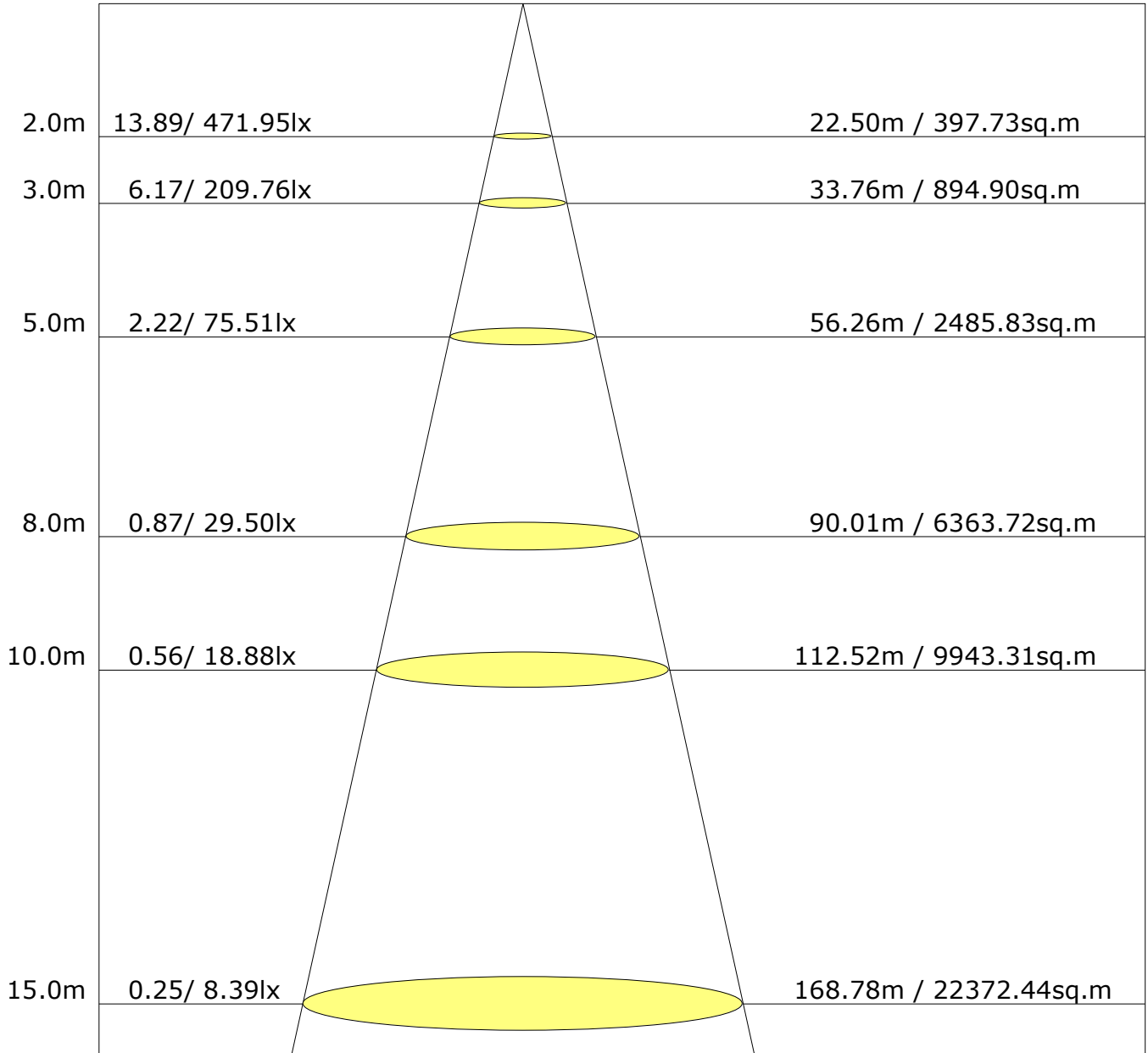
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**The Average Illuminance Effective Figure**

Flux Out: 5523.48lm



Height

Avg./Nadir. E

Beam Angle: 159.8°

Diameter / Area

C Plane (°):0.0-360.0: 30.0  
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Gamma Plane (°):0.0-180.0:1.0  
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### 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	11.3	12.8	11.8	13.3	13.8	10.7	12.2	11.2	12.7	13.2
3H	13.2	14.5	13.7	15.0	15.6	12.7	14.0	13.2	14.5	15.1
4H	13.9	15.2	14.4	15.7	16.3	13.5	14.8	14.0	15.3	15.9
6H	14.4	15.6	15.0	16.2	16.7	14.2	15.4	14.8	16.0	16.5
8H	14.6	15.8	15.2	16.3	16.9	14.5	15.7	15.1	16.3	16.8
12H	14.7	15.9	15.3	16.4	17.0	14.8	16.0	15.4	16.5	17.1
X=4H Y=2H	11.8	13.2	12.4	13.7	14.2	11.3	12.6	11.8	13.1	13.7
3H	13.9	15.0	14.4	15.6	16.1	13.5	14.6	14.0	15.1	15.7
4H	14.8	15.8	15.3	16.3	16.9	14.5	15.5	15.0	16.0	16.7
6H	15.4	16.3	16.0	16.9	17.5	15.4	16.3	15.9	16.8	17.5
8H	15.7	16.5	16.3	17.1	17.7	15.8	16.6	16.3	17.2	17.8
12H	15.9	16.6	16.5	17.2	17.9	16.1	16.9	16.7	17.5	18.1
X=8H Y=4H	15.1	15.9	15.7	16.5	17.2	14.8	15.6	15.4	16.2	16.8
6H	15.9	16.6	16.5	17.3	17.9	15.8	16.6	16.4	17.2	17.8
8H	16.3	16.9	16.9	17.5	18.2	16.4	17.0	17.0	17.6	18.3
12H	16.5	17.1	17.2	17.7	18.5	16.9	17.4	17.5	18.1	18.8
X=12H Y=4H	15.2	15.9	15.8	16.5	17.2	14.8	15.6	15.4	16.2	16.8
6H	16.0	16.7	16.7	17.3	18.0	15.9	16.6	16.6	17.2	17.9
8H	16.4	17.0	17.1	17.6	18.4	16.5	17.1	17.1	17.7	18.4

Calculate in accordance with CIE 190:2010

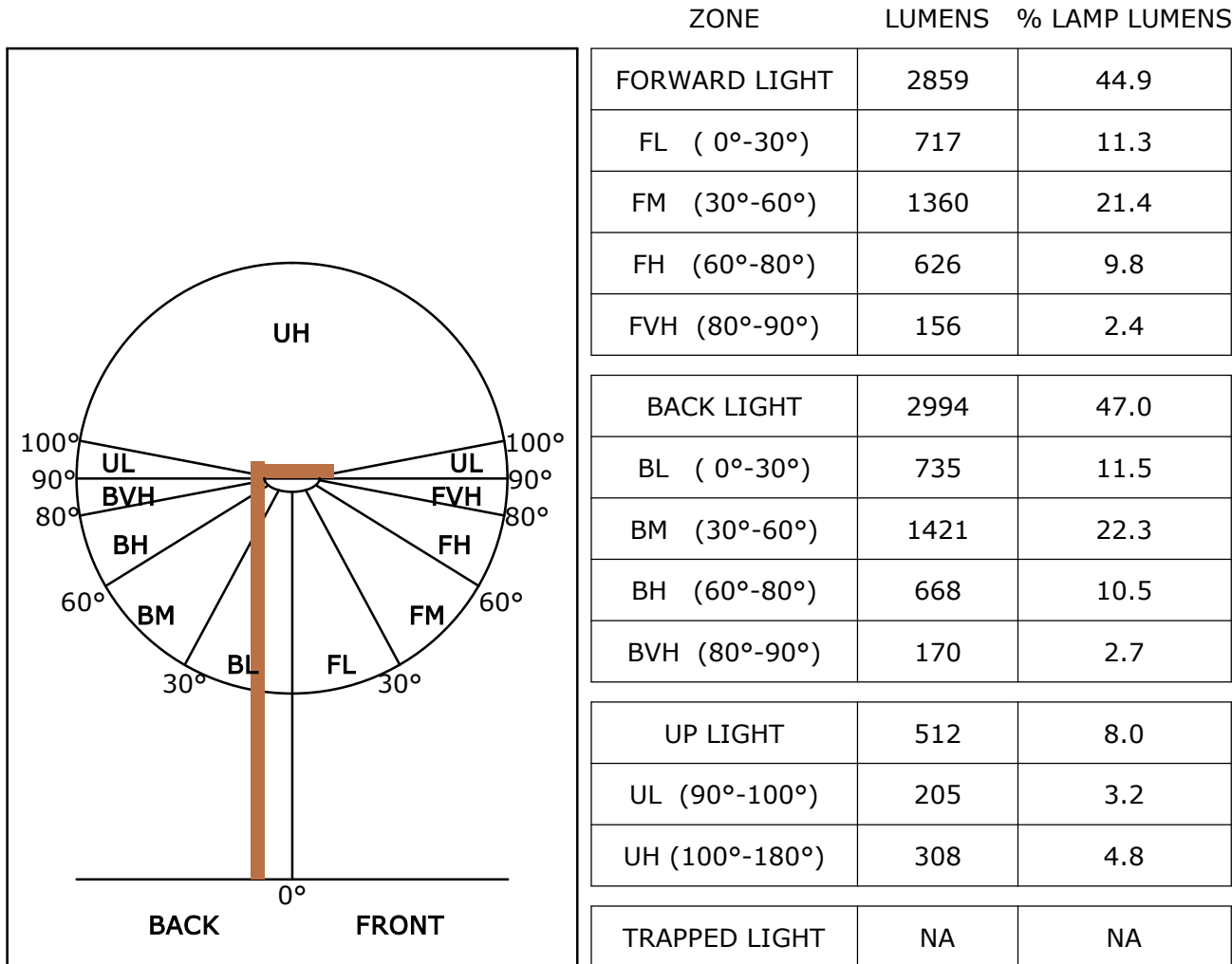
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## FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U5 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 G1

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### 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	0.55	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
		0.30	0.47	0.55	0.63	0.68	0.76	0.81	0.85	0.91	0.94	
		0.20	0.42	0.49	0.57	0.62	0.70	0.76	0.80	0.87	0.91	
0.50	0.50	0.20	0.53	0.60	0.67	0.71	0.78	0.82	0.86	0.90	0.93	
		0.30	0.46	0.53	0.60	0.65	0.72	0.77	0.81	0.86	0.89	
		0.20	0.41	0.48	0.55	0.60	0.68	0.73	0.77	0.83	0.86	
0.30	0.50	0.20	0.51	0.57	0.63	0.68	0.74	0.78	0.81	0.85	0.87	
		0.30	0.44	0.51	0.58	0.63	0.69	0.74	0.77	0.82	0.85	
		0.20	0.40	0.47	0.53	0.58	0.65	0.70	0.74	0.79	0.82	
0.00	0.00	0.00	0.37	0.43	0.50	0.54	0.60	0.65	0.68	0.73	0.76	

Rating:54W 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: 25  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**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	0.98	0.84	0.72	0.64	0.52	0.44	0.38	0.30	0.25
	0.30		0.82	0.72	0.63	0.56	0.47	0.40	0.35	0.28	0.24
	0.20		0.70	0.63	0.56	0.50	0.43	0.37	0.33	0.27	0.23
0.50	0.50	0.20	0.93	0.80	0.68	0.60	0.49	0.44	0.36	0.28	0.23
	0.30		0.78	0.69	0.60	0.54	0.45	0.38	0.33	0.27	0.22
	0.20		0.68	0.61	0.54	0.49	0.41	0.35	0.31	0.26	0.21
0.30	0.50	0.20	0.88	0.75	0.64	0.57	0.46	0.39	0.34	0.27	0.22
	0.30		0.76	0.66	0.58	0.51	0.42	0.36	0.32	0.26	0.21
	0.20		0.66	0.59	0.52	0.47	0.39	0.34	0.30	0.24	0.20
0.00	0.00	0.00	0.55	0.49	0.42	0.38	0.32	0.27	0.24	0.19	0.16
<p>Rating:54W Photometrically tested without ceiling board.                      Multiply UF values by service correction factors                      Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

C Plane (°):0.0-360.0: 30.0  
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Gamma Plane (°):0.0-180.0:1.0  
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**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	0.24	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30
	0.30		0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.27
	0.20		0.12	0.14	0.15	0.17	0.18	0.20	0.21	0.23	0.24
0.50	0.50	0.20	0.23	0.25	0.25	0.26	0.27	0.27	0.28	0.28	0.28
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.23
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.27
	0.30		0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.23
0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Rating:54W 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  
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Gamma Plane (°):0.0-180.0:1.0  
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### Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1895.8	1.8	1.8	0.03	0.03
1.0-2.0	1894.9	5.4	7.3	0.09	0.11
2.0-3.0	1893.2	9.1	16.3	0.14	0.26
3.0-4.0	1890.6	12.7	29.0	0.20	0.46
4.0-5.0	1887.2	16.2	45.2	0.26	0.71
5.0-6.0	1882.9	19.8	65.0	0.31	1.02
6.0-7.0	1877.9	23.3	88.3	0.37	1.39
7.0-8.0	1872.0	26.8	115.1	0.42	1.81
8.0-9.0	1865.3	30.2	145.3	0.47	2.28
9.0-10.0	1857.8	33.6	179.0	0.53	2.81
10.0-11.0	1849.6	37.0	215.9	0.58	3.39
11.0-12.0	1840.6	40.2	256.2	0.63	4.02
12.0-13.0	1830.9	43.5	299.6	0.68	4.71
13.0-14.0	1820.5	46.6	346.2	0.73	5.44
14.0-15.0	1809.4	49.7	395.9	0.78	6.22
15.0-16.0	1797.7	52.7	448.6	0.83	7.05
16.0-17.0	1785.3	55.6	504.2	0.87	7.92
17.0-18.0	1772.3	58.4	562.6	0.92	8.84
18.0-19.0	1758.7	61.2	623.8	0.96	9.80
19.0-20.0	1744.6	63.9	687.7	1.00	10.80
20.0-21.0	1729.9	66.4	754.1	1.04	11.85
21.0-22.0	1714.6	68.9	823.0	1.08	12.93
22.0-23.0	1698.8	71.3	894.3	1.12	14.05
23.0-24.0	1682.5	73.6	967.9	1.16	15.20
24.0-25.0	1665.7	75.8	1043.6	1.19	16.39
25.0-26.0	1648.5	77.8	1121.5	1.22	17.62
26.0-27.0	1630.9	79.8	1201.3	1.25	18.87
27.0-28.0	1612.9	81.7	1282.9	1.28	20.15
28.0-29.0	1594.4	83.4	1366.4	1.31	21.46
29.0-30.0	1575.5	85.1	1451.4	1.34	22.80
30.0-31.0	1556.4	86.6	1538.1	1.36	24.16
31.0-32.0	1536.8	88.1	1626.1	1.38	25.54
32.0-33.0	1516.9	89.4	1715.5	1.40	26.95
33.0-34.0	1496.8	90.6	1806.1	1.42	28.37
34.0-35.0	1476.4	91.7	1897.8	1.44	29.81
35.0-36.0	1455.6	92.7	1990.5	1.46	31.27

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**Zonal Lumen (Continue 1)**

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1434.6	93.6	2084.1	1.47	32.74
37.0-38.0	1413.3	94.3	2178.4	1.48	34.22
38.0-39.0	1391.7	95.0	2273.4	1.49	35.71
39.0-40.0	1370.0	95.6	2369.0	1.50	37.21
40.0-41.0	1347.9	96.0	2465.0	1.51	38.72
41.0-42.0	1325.6	96.3	2561.3	1.51	40.24
42.0-43.0	1303.2	96.5	2657.8	1.52	41.75
43.0-44.0	1280.5	96.7	2754.5	1.52	43.27
44.0-45.0	1257.5	96.7	2851.2	1.52	44.79
45.0-46.0	1234.5	96.6	2947.7	1.52	46.31
46.0-47.0	1211.4	96.4	3044.1	1.51	47.82
47.0-48.0	1188.1	96.1	3140.1	1.51	49.33
48.0-49.0	1164.6	95.6	3235.8	1.50	50.83
49.0-50.0	1140.8	95.1	3330.9	1.49	52.32
50.0-51.0	1116.9	94.5	3425.4	1.48	53.81
51.0-52.0	1093.0	93.8	3519.2	1.47	55.28
52.0-53.0	1069.0	93.0	3612.2	1.46	56.74
53.0-54.0	1044.8	92.1	3704.3	1.45	58.19
54.0-55.0	1020.5	91.1	3795.4	1.43	59.62
55.0-56.0	996.0	90.0	3885.4	1.41	61.04
56.0-57.0	971.6	88.8	3974.3	1.40	62.43
57.0-58.0	947.0	87.6	4061.9	1.38	63.81
58.0-59.0	922.3	86.2	4148.1	1.35	65.16
59.0-60.0	897.5	84.8	4232.9	1.33	66.49
60.0-61.0	872.7	83.3	4316.2	1.31	67.80
61.0-62.0	847.9	81.7	4397.9	1.28	69.09
62.0-63.0	822.9	80.0	4478.0	1.26	70.34
63.0-64.0	797.9	78.3	4556.3	1.23	71.57
64.0-65.0	772.9	76.5	4632.8	1.20	72.78
65.0-66.0	747.9	74.6	4707.4	1.17	73.95
66.0-67.0	722.8	72.7	4780.1	1.14	75.09
67.0-68.0	697.7	70.7	4850.8	1.11	76.20
68.0-69.0	672.5	68.6	4919.4	1.08	77.28
69.0-70.0	647.5	66.5	4985.9	1.04	78.32
70.0-71.0	622.5	64.4	5050.2	1.01	79.33
71.0-72.0	597.6	62.1	5112.4	0.98	80.31

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**Zonal Lumen (Continue 2)**

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	572.9	59.9	5172.3	0.94	81.25
73.0-74.0	548.5	57.7	5230.0	0.91	82.16
74.0-75.0	524.0	55.4	5285.4	0.87	83.03
75.0-76.0	499.8	53.1	5338.4	0.83	83.86
76.0-77.0	475.8	50.7	5389.2	0.80	84.66
77.0-78.0	452.2	48.4	5437.6	0.76	85.42
78.0-79.0	428.8	46.1	5483.7	0.72	86.14
79.0-80.0	406.0	43.8	5527.4	0.69	86.83
80.0-81.0	383.8	41.5	5568.9	0.65	87.48
81.0-82.0	362.2	39.3	5608.2	0.62	88.10
82.0-83.0	341.3	37.1	5645.3	0.58	88.68
83.0-84.0	321.4	35.0	5680.3	0.55	89.23
84.0-85.0	302.5	33.0	5713.4	0.52	89.75
85.0-86.0	284.9	31.1	5744.5	0.49	90.24
86.0-87.0	268.6	29.4	5773.9	0.46	90.70
87.0-88.0	254.1	27.8	5801.8	0.44	91.14
88.0-89.0	241.3	26.4	5828.2	0.42	91.55
89.0-90.0	230.2	25.2	5853.4	0.40	91.95
90.0-91.0	220.5	24.2	5877.6	0.38	92.33
91.0-92.0	212.0	23.2	5900.9	0.37	92.70
92.0-93.0	204.3	22.4	5923.3	0.35	93.05
93.0-94.0	197.1	21.6	5944.8	0.34	93.39
94.0-95.0	190.0	20.8	5965.6	0.33	93.71
95.0-96.0	183.2	20.0	5985.6	0.31	94.03
96.0-97.0	176.5	19.2	6004.8	0.30	94.33
97.0-98.0	169.9	18.5	6023.3	0.29	94.62
98.0-99.0	163.5	17.7	6041.0	0.28	94.90
99.0-100.0	157.3	17.0	6058.1	0.27	95.17
100.0-101.0	151.3	16.3	6074.4	0.26	95.42
101.0-102.0	145.4	15.6	6090.0	0.25	95.67
102.0-103.0	139.7	15.0	6104.9	0.23	95.90
103.0-104.0	133.9	14.3	6119.2	0.22	96.13
104.0-105.0	128.1	13.6	6132.8	0.21	96.34
105.0-106.0	122.2	12.9	6145.7	0.20	96.54
106.0-107.0	116.6	12.3	6158.0	0.19	96.74
107.0-108.0	111.2	11.6	6169.6	0.18	96.92

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**Zonal Lumen (Continue 3)**

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	106.0	11.0	6180.7	0.17	97.09
109.0-110.0	101.0	10.4	6191.1	0.16	97.26
110.0-111.0	96.2	9.9	6201.0	0.16	97.41
111.0-112.0	91.6	9.4	6210.3	0.15	97.56
112.0-113.0	87.4	8.9	6219.2	0.14	97.70
113.0-114.0	83.6	8.4	6227.6	0.13	97.83
114.0-115.0	80.0	8.0	6235.6	0.13	97.95
115.0-116.0	76.6	7.6	6243.2	0.12	98.07
116.0-117.0	73.3	7.2	6250.4	0.11	98.19
117.0-118.0	70.2	6.8	6257.2	0.11	98.29
118.0-119.0	67.2	6.5	6263.7	0.10	98.40
119.0-120.0	64.2	6.1	6269.8	0.10	98.49
120.0-121.0	61.3	5.8	6275.6	0.09	98.58
121.0-122.0	58.6	5.5	6281.1	0.09	98.67
122.0-123.0	55.9	5.2	6286.2	0.08	98.75
123.0-124.0	53.4	4.9	6291.1	0.08	98.83
124.0-125.0	50.9	4.6	6295.7	0.07	98.90
125.0-126.0	48.5	4.3	6300.0	0.07	98.97
126.0-127.0	46.2	4.1	6304.1	0.06	99.03
127.0-128.0	43.9	3.8	6307.9	0.06	99.09
128.0-129.0	41.8	3.6	6311.5	0.06	99.15
129.0-130.0	39.7	3.4	6314.9	0.05	99.20
130.0-131.0	37.8	3.1	6318.0	0.05	99.25
131.0-132.0	35.9	2.9	6321.0	0.05	99.30
132.0-133.0	34.1	2.8	6323.7	0.04	99.34
133.0-134.0	32.5	2.6	6326.3	0.04	99.38
134.0-135.0	30.9	2.4	6328.7	0.04	99.42
135.0-136.0	29.5	2.3	6331.0	0.04	99.45
136.0-137.0	28.1	2.1	6333.1	0.03	99.49
137.0-138.0	26.8	2.0	6335.1	0.03	99.52
138.0-139.0	25.6	1.9	6337.0	0.03	99.55
139.0-140.0	24.5	1.7	6338.7	0.03	99.57
140.0-141.0	23.4	1.6	6340.3	0.03	99.60
141.0-142.0	22.4	1.5	6341.9	0.02	99.62
142.0-143.0	21.5	1.4	6343.3	0.02	99.65
143.0-144.0	20.6	1.3	6344.7	0.02	99.67

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**Zonal Lumen (Continue 4)**

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	19.8	1.3	6345.9	0.02	99.69
145.0-146.0	19.1	1.2	6347.1	0.02	99.71
146.0-147.0	18.6	1.1	6348.2	0.02	99.72
147.0-148.0	18.1	1.1	6349.3	0.02	99.74
148.0-149.0	17.7	1.0	6350.3	0.02	99.76
149.0-150.0	17.4	1.0	6351.3	0.02	99.77
150.0-151.0	17.3	0.9	6352.2	0.01	99.79
151.0-152.0	17.2	0.9	6353.1	0.01	99.80
152.0-153.0	17.1	0.9	6354.0	0.01	99.81
153.0-154.0	17.1	0.8	6354.8	0.01	99.83
154.0-155.0	17.1	0.8	6355.6	0.01	99.84
155.0-156.0	17.1	0.8	6356.4	0.01	99.85
156.0-157.0	17.1	0.7	6357.1	0.01	99.86
157.0-158.0	17.1	0.7	6357.9	0.01	99.88
158.0-159.0	17.2	0.7	6358.6	0.01	99.89
159.0-160.0	17.2	0.7	6359.2	0.01	99.90
160.0-161.0	17.2	0.6	6359.8	0.01	99.91
161.0-162.0	17.2	0.6	6360.4	0.01	99.92
162.0-163.0	17.3	0.6	6361.0	0.01	99.92
163.0-164.0	17.3	0.5	6361.6	0.01	99.93
164.0-165.0	17.3	0.5	6362.1	0.01	99.94
165.0-166.0	17.4	0.5	6362.5	0.01	99.95
166.0-167.0	17.4	0.4	6363.0	0.01	99.96
167.0-168.0	17.4	0.4	6363.4	0.01	99.96
168.0-169.0	17.5	0.4	6363.8	0.01	99.97
169.0-170.0	17.5	0.3	6364.1	0.01	99.97
170.0-171.0	17.5	0.3	6364.4	0.00	99.98
171.0-172.0	17.5	0.3	6364.7	0.00	99.98
172.0-173.0	17.5	0.3	6365.0	0.00	99.99
173.0-174.0	17.6	0.2	6365.2	0.00	99.99
174.0-175.0	17.6	0.2	6365.4	0.00	99.99
175.0-176.0	17.6	0.2	6365.5	0.00	100.00
176.0-177.0	17.6	0.1	6365.7	0.00	100.00
177.0-178.0	17.6	0.1	6365.7	0.00	100.00
178.0-179.0	17.6	0.1	6365.8	0.00	100.00
179.0-180.0	17.6	0.0	6365.8	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

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**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	1887.8	1891.8	1895.5	1898.7	1900.5	1901.9	1887.8	1891.8	1895.5	1898.7
G1.0	1888.7	1891.4	1893.9	1896.1	1897.3	1899.0	1886.0	1891.1	1896.2	1900.6
G2.0	1888.8	1890.3	1891.4	1892.4	1893.3	1895.4	1883.3	1889.7	1896.0	1901.7
G3.0	1888.0	1888.3	1888.2	1887.9	1888.3	1890.6	1879.8	1887.4	1895.0	1901.8
G4.0	1886.5	1885.6	1884.2	1882.7	1882.8	1885.4	1875.4	1884.1	1893.1	1901.0
G5.0	1883.8	1881.8	1879.0	1876.6	1876.1	1879.1	1870.2	1880.1	1890.3	1899.5
G6.0	1880.5	1877.2	1873.5	1869.8	1869.2	1872.1	1864.0	1875.3	1886.7	1897.0
G7.0	1876.3	1871.9	1866.8	1862.4	1861.2	1864.4	1856.9	1869.7	1882.3	1893.8
G8.0	1871.3	1865.8	1859.6	1854.2	1852.2	1855.9	1849.3	1862.9	1877.0	1889.6
G9.0	1865.2	1858.5	1851.5	1845.5	1842.9	1846.2	1840.8	1855.5	1871.1	1884.8
G10.0	1858.6	1850.8	1843.0	1835.9	1832.9	1835.9	1831.3	1847.2	1864.2	1879.0
G11.0	1851.0	1842.2	1833.4	1825.8	1821.9	1825.2	1820.9	1838.2	1856.7	1872.9
G12.0	1842.6	1833.2	1823.6	1815.1	1810.8	1813.5	1809.9	1828.1	1848.2	1865.6
G13.0	1833.6	1822.6	1813.3	1804.2	1798.6	1801.1	1798.5	1817.8	1839.3	1857.9
G14.0	1823.9	1812.0	1801.9	1792.4	1786.3	1788.3	1785.7	1805.7	1829.5	1849.1
G15.0	1812.9	1800.3	1790.1	1780.2	1773.5	1773.9	1772.1	1794.4	1819.1	1840.1
G16.0	1801.5	1788.6	1778.0	1767.7	1760.1	1760.0	1758.2	1781.1	1808.2	1830.4
G17.0	1788.9	1775.1	1764.6	1754.6	1745.9	1744.8	1743.7	1768.1	1796.3	1820.5
G18.0	1776.6	1761.6	1751.4	1741.4	1731.2	1729.3	1727.9	1752.8	1784.3	1809.4
G19.0	1762.7	1747.2	1737.7	1727.5	1716.5	1713.3	1712.0	1738.5	1771.1	1798.0
G20.0	1748.5	1732.6	1723.6	1713.6	1701.4	1696.7	1694.7	1722.1	1758.1	1786.4
G21.0	1733.3	1717.0	1708.8	1699.0	1685.5	1679.2	1677.6	1706.6	1743.9	1773.9
G22.0	1717.0	1701.1	1693.9	1684.1	1669.3	1661.2	1659.5	1689.8	1729.5	1761.2
G23.0	1700.8	1684.7	1678.2	1669.5	1653.0	1642.6	1640.3	1672.0	1714.6	1748.0
G24.0	1683.4	1667.0	1662.8	1653.6	1635.9	1624.4	1621.0	1653.7	1699.4	1734.4
G25.0	1666.3	1649.8	1646.3	1638.8	1619.3	1604.8	1600.7	1635.2	1683.7	1720.0
G26.0	1648.1	1631.7	1629.4	1622.4	1601.5	1585.6	1580.5	1616.0	1667.4	1705.5
G27.0	1629.2	1613.5	1612.5	1606.6	1584.1	1565.4	1559.3	1596.2	1650.7	1691.0
G28.0	1609.5	1593.6	1596.1	1590.4	1566.3	1544.5	1538.1	1576.9	1633.9	1676.1
G29.0	1589.6	1574.9	1577.9	1574.1	1548.1	1524.1	1515.3	1555.8	1616.3	1660.2
G30.0	1569.3	1554.2	1559.9	1557.3	1529.2	1502.4	1493.3	1535.3	1599.0	1644.7
G31.0	1548.9	1534.8	1542.4	1541.0	1511.1	1480.9	1469.7	1513.4	1580.6	1628.4
G32.0	1527.1	1512.8	1523.5	1523.3	1491.5	1458.4	1446.8	1492.1	1562.6	1612.6
G33.0	1505.3	1492.7	1506.0	1506.5	1472.8	1436.2	1422.5	1469.5	1543.6	1596.1
G34.0	1483.0	1470.8	1486.9	1489.1	1453.6	1414.2	1398.7	1447.5	1525.2	1579.6
G35.0	1460.2	1449.4	1468.9	1471.8	1434.1	1391.2	1373.4	1424.6	1505.6	1561.8
G36.0	1436.9	1427.2	1449.8	1453.5	1414.3	1368.5	1349.3	1401.3	1486.2	1545.1

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

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**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	1413.8	1405.2	1430.9	1435.7	1394.8	1344.5	1323.2	1378.2	1467.0	1527.0
G38.0	1389.8	1381.4	1410.4	1417.4	1374.8	1320.2	1298.1	1354.4	1447.6	1509.5
G39.0	1366.2	1359.0	1391.2	1399.0	1354.5	1297.5	1272.8	1330.4	1427.2	1491.8
G40.0	1341.1	1336.3	1371.3	1380.2	1334.2	1272.9	1246.6	1306.8	1407.1	1473.6
G41.0	1316.8	1312.8	1351.2	1361.9	1313.1	1249.3	1219.8	1281.4	1386.7	1454.2
G42.0	1291.0	1289.2	1330.9	1342.8	1292.3	1224.2	1193.1	1257.4	1366.2	1435.9
G43.0	1266.1	1265.3	1310.3	1323.4	1272.3	1199.6	1166.2	1232.5	1345.3	1416.8
G44.0	1240.2	1240.9	1289.4	1303.7	1251.1	1174.8	1139.1	1207.6	1324.7	1397.9
G45.0	1214.0	1216.5	1268.9	1284.4	1229.7	1150.9	1111.7	1182.5	1303.0	1377.5
G46.0	1187.7	1192.6	1247.8	1263.9	1208.6	1126.5	1084.2	1157.1	1282.0	1358.1
G47.0	1162.3	1168.5	1226.9	1244.2	1186.4	1101.3	1057.1	1132.3	1260.3	1338.0
G48.0	1135.2	1143.8	1206.0	1224.0	1165.2	1076.3	1029.4	1106.3	1238.7	1318.3
G49.0	1108.9	1119.7	1184.4	1204.4	1143.4	1051.1	1001.4	1080.8	1216.7	1297.3
G50.0	1082.0	1094.3	1161.7	1183.3	1121.3	1025.9	973.3	1055.3	1194.6	1276.7
G51.0	1055.4	1069.3	1140.8	1162.5	1098.7	1000.6	945.1	1029.1	1172.4	1256.3
G52.0	1027.5	1044.9	1118.7	1141.5	1077.5	975.3	916.7	1003.8	1150.4	1235.6
G53.0	1001.1	1019.7	1097.0	1121.3	1055.1	950.3	887.5	977.4	1127.3	1213.2
G54.0	973.4	994.9	1074.1	1099.8	1033.0	924.7	860.0	952.5	1105.0	1192.0
G55.0	945.6	969.5	1052.0	1078.3	1010.3	900.3	830.5	926.5	1082.0	1170.1
G56.0	917.6	944.1	1029.5	1056.6	987.6	874.1	802.3	901.1	1059.5	1148.6
G57.0	889.7	919.3	1007.4	1035.9	965.9	849.7	773.5	874.6	1035.9	1126.0
G58.0	861.7	893.8	985.1	1012.9	943.0	824.2	743.3	848.7	1013.2	1104.6
G59.0	834.7	868.2	962.2	991.8	920.1	798.5	715.1	822.8	989.4	1081.2
G60.0	806.2	842.5	939.5	968.8	896.8	772.7	686.6	797.4	966.0	1059.0
G61.0	778.0	817.8	916.6	947.2	874.0	748.0	657.5	772.0	942.3	1035.7
G62.0	749.7	792.3	893.6	924.8	850.3	721.9	629.0	746.1	918.7	1013.0
G63.0	721.3	766.9	869.9	902.9	828.4	697.2	598.4	719.5	894.9	989.8
G64.0	693.0	741.5	846.8	879.9	804.8	671.3	570.5	693.5	871.0	966.9
G65.0	664.7	716.3	824.3	857.3	781.8	645.7	541.3	668.3	847.5	943.3
G66.0	635.9	690.8	800.8	833.7	758.4	621.6	512.2	643.3	823.7	920.3
G67.0	607.2	665.2	777.3	811.4	735.1	596.4	482.6	617.7	800.3	896.0
G68.0	579.0	639.9	753.9	788.3	712.3	570.7	454.4	591.8	775.9	872.3
G69.0	549.7	614.6	730.3	765.1	688.5	546.9	425.0	566.5	751.9	848.4
G70.0	520.9	589.9	706.8	741.9	665.7	521.7	396.9	541.4	727.9	824.8
G71.0	492.8	564.2	684.4	718.7	642.4	497.6	369.0	515.9	703.9	800.6
G72.0	464.0	539.8	660.3	696.4	619.7	473.2	339.4	491.0	679.8	775.8
G73.0	435.3	515.5	637.3	673.2	597.7	449.5	312.1	467.1	657.4	752.5

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

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**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	408.2	490.8	614.0	650.1	574.8	425.1	284.6	443.3	632.4	727.7
G75.0	378.8	467.1	590.9	627.7	552.1	401.8	258.3	419.5	608.7	704.0
G76.0	351.5	443.1	567.5	605.0	528.8	378.9	231.9	396.0	585.1	679.4
G77.0	324.0	419.0	544.9	581.6	507.3	356.9	206.8	373.5	561.8	656.0
G78.0	296.8	395.8	523.5	559.8	485.1	334.5	180.9	350.5	538.6	631.6
G79.0	269.4	372.4	500.3	537.0	463.4	313.1	157.5	328.9	516.3	608.3
G80.0	243.1	349.9	479.0	516.4	443.5	292.3	134.6	307.0	493.8	584.8
G81.0	217.4	327.9	457.2	494.9	422.8	272.3	113.6	286.2	472.1	561.4
G82.0	192.4	307.0	436.8	474.5	402.8	253.1	93.3	266.3	450.6	538.1
G83.0	168.4	285.5	415.8	454.9	384.1	234.6	75.8	247.9	429.7	515.8
G84.0	145.4	265.7	396.5	436.2	366.5	217.6	60.2	230.1	409.6	494.7
G85.0	123.2	246.8	378.0	418.1	349.8	201.5	47.4	214.1	390.1	474.7
G86.0	102.9	228.8	360.2	401.6	334.7	187.4	37.5	199.2	372.1	453.3
G87.0	83.8	211.8	344.0	386.0	321.2	174.8	30.8	186.1	355.8	435.1
G88.0	66.8	196.4	329.1	372.7	309.4	164.2	27.9	174.6	340.5	417.0
G89.0	52.5	182.4	315.9	361.0	298.9	155.9	27.3	165.6	327.2	401.0
G90.0	40.7	170.3	304.8	350.8	289.9	148.5	26.9	157.8	315.4	386.2
G91.0	32.2	160.5	295.0	341.1	280.8	141.4	26.5	150.1	305.0	373.9
G92.0	27.6	152.6	285.8	331.3	272.0	134.8	26.2	143.0	295.4	362.0
G93.0	26.2	145.3	276.9	321.6	263.0	128.5	25.9	135.9	285.5	351.2
G94.0	25.7	138.6	267.9	312.2	254.7	122.4	25.5	129.0	275.6	340.1
G95.0	25.4	131.9	259.3	303.0	246.4	116.3	25.2	122.4	266.4	329.6
G96.0	25.0	125.6	250.7	293.9	238.1	110.6	24.9	116.0	256.8	319.3
G97.0	24.8	119.3	242.1	284.6	230.1	105.2	24.6	109.8	247.9	309.1
G98.0	24.5	113.4	233.8	276.0	222.1	100.1	24.3	103.9	238.9	298.9
G99.0	24.2	107.7	225.7	266.9	214.2	95.1	24.0	98.3	230.2	288.7
G100.0	23.9	102.3	217.8	258.5	206.8	90.3	23.7	92.7	221.6	278.8
G101.0	23.6	97.2	209.9	249.9	199.1	85.7	23.3	87.8	213.1	269.8
G102.0	23.3	92.3	202.4	242.1	192.0	81.5	23.0	83.1	204.8	260.0
G103.0	23.1	87.5	194.8	233.5	184.6	77.1	22.7	79.0	196.2	250.9
G104.0	22.8	83.1	187.6	225.6	177.9	73.3	22.4	74.9	183.7	241.8
G105.0	22.5	78.6	180.6	217.7	170.9	69.3	22.1	71.0	170.9	233.1
G106.0	22.3	74.5	173.7	210.1	164.4	65.7	21.8	66.7	160.6	224.4
G107.0	22.0	70.4	166.7	202.6	157.9	62.2	21.5	62.1	152.3	215.6
G108.0	21.7	66.7	160.3	195.3	149.5	58.8	21.2	58.1	146.3	205.2
G109.0	21.4	63.1	153.2	188.1	139.2	55.3	20.9	54.4	140.1	197.2
G110.0	21.1	59.6	143.8	181.1	131.3	51.6	20.6	51.1	134.2	189.6

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:



**FACTORY DIRECT LIGHTING**

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**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	20.9	56.3	134.4	173.6	124.2	48.3	20.3	48.6	128.6	182.3
G112.0	20.6	52.8	126.4	163.8	119.1	45.1	20.1	46.3	123.9	175.1
G113.0	20.3	49.4	120.2	155.9	114.3	42.1	19.8	44.2	119.2	168.0
G114.0	20.1	46.0	115.4	149.6	109.5	39.6	19.5	42.1	114.6	161.3
G115.0	19.9	42.9	110.3	143.6	104.8	37.4	19.3	40.0	110.0	154.5
G116.0	19.6	39.9	105.7	137.7	100.2	35.3	19.1	38.0	105.5	148.6
G117.0	19.4	37.4	100.8	132.2	96.1	33.3	18.8	36.1	101.0	142.6
G118.0	19.1	35.3	96.4	126.6	91.9	31.6	18.6	34.2	97.0	136.9
G119.0	18.9	33.3	91.8	121.1	87.7	30.0	18.3	32.4	92.7	131.1
G120.0	18.7	31.4	87.4	115.8	83.4	28.5	18.1	30.8	88.4	125.7
G121.0	18.5	29.7	83.3	110.7	79.6	27.0	17.8	29.2	84.2	120.2
G122.0	18.3	28.2	79.4	105.7	75.4	25.8	17.7	27.8	80.1	115.1
G123.0	18.0	26.8	75.7	101.0	71.6	24.5	17.5	26.4	76.1	110.0
G124.0	17.8	25.4	71.8	96.1	67.7	23.3	17.2	25.2	72.5	105.2
G125.0	17.7	24.1	68.1	91.4	64.0	22.2	17.1	24.0	69.0	100.3
G126.0	17.5	22.9	64.4	86.8	60.3	21.2	16.9	23.0	65.7	95.8
G127.0	17.3	21.8	60.9	82.7	56.7	20.3	16.7	22.0	62.3	91.2
G128.0	17.1	20.7	57.5	78.3	53.3	19.5	16.5	21.0	59.2	86.9
G129.0	17.0	19.8	54.1	74.1	50.2	19.0	16.4	20.1	56.2	82.4
G130.0	16.8	19.0	50.8	70.2	47.0	18.5	16.2	19.2	53.2	78.4
G131.0	16.6	18.3	47.8	66.4	44.2	18.1	16.1	18.5	50.2	74.3
G132.0	16.5	17.8	44.5	62.6	41.4	17.9	16.0	17.9	47.4	70.4
G133.0	16.4	17.5	41.7	58.9	38.9	17.6	15.9	17.4	44.7	66.5
G134.0	16.2	17.2	38.8	55.2	36.5	17.5	15.7	17.1	42.1	62.9
G135.0	16.1	17.0	36.2	51.9	34.4	17.3	15.6	16.9	39.6	59.3
G136.0	16.0	16.8	34.0	48.5	32.3	17.1	15.6	16.6	37.3	55.9
G137.0	15.9	16.7	32.0	45.4	30.4	17.0	15.5	16.5	35.1	52.3
G138.0	15.8	16.6	30.0	42.3	28.6	16.9	15.4	16.4	33.1	49.2
G139.0	15.7	16.4	28.2	39.7	26.9	16.7	15.3	16.3	31.2	46.0
G140.0	15.6	16.3	26.3	37.1	25.2	16.6	15.3	16.2	29.4	43.2
G141.0	15.5	16.2	24.7	34.7	23.7	16.5	15.2	16.2	27.7	40.3
G142.0	15.4	16.1	23.1	32.4	22.3	16.4	15.1	16.2	26.0	37.7
G143.0	15.4	16.0	21.8	30.2	21.0	16.3	15.1	16.2	24.5	35.2
G144.0	15.3	15.9	20.6	28.2	20.0	16.3	15.1	16.2	23.0	32.9
G145.0	15.3	15.9	19.5	26.2	19.2	16.3	15.1	16.2	21.6	30.5
G146.0	15.2	15.9	18.7	24.4	18.6	16.4	15.1	16.3	20.5	28.4
G147.0	15.2	15.9	18.3	22.8	18.3	16.4	15.3	16.3	19.5	26.4

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

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**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	15.1	15.9	18.0	21.4	18.0	16.4	15.4	16.4	18.8	24.5
G149.0	15.2	15.9	17.8	20.2	17.9	16.4	15.5	16.5	18.4	22.9
G150.0	15.3	15.9	17.7	19.5	17.9	16.5	15.6	16.5	18.1	21.4
G151.0	15.4	16.0	17.7	19.0	17.8	16.6	15.7	16.6	18.0	20.1
G152.0	15.5	16.1	17.7	18.6	17.8	16.6	15.8	16.7	17.9	19.3
G153.0	15.6	16.1	17.7	18.4	17.7	16.7	15.9	16.8	17.9	18.8
G154.0	15.7	16.2	17.6	18.3	17.7	16.8	16.0	16.8	17.9	18.5
G155.0	15.8	16.2	17.6	18.1	17.7	16.8	16.1	16.9	17.9	18.3
G156.0	15.9	16.3	17.6	18.1	17.7	16.9	16.2	16.9	17.8	18.2
G157.0	16.0	16.4	17.6	18.0	17.7	16.9	16.3	16.9	17.8	18.2
G158.0	16.1	16.5	17.7	17.9	17.6	17.0	16.3	17.0	17.8	18.1
G159.0	16.2	16.5	17.7	17.9	17.6	17.0	16.4	17.0	17.8	18.1
G160.0	16.3	16.6	17.6	17.8	17.6	17.1	16.5	17.1	17.8	18.0
G161.0	16.4	16.6	17.6	17.8	17.6	17.1	16.6	17.1	17.8	18.0
G162.0	16.5	16.7	17.7	17.8	17.6	17.2	16.6	17.2	17.8	18.0
G163.0	16.6	16.9	17.7	17.7	17.6	17.2	16.8	17.2	17.7	18.0
G164.0	16.6	16.9	17.7	17.7	17.6	17.3	16.8	17.2	17.7	17.9
G165.0	16.8	17.0	17.7	17.7	17.6	17.3	16.9	17.3	17.7	17.9
G166.0	16.8	17.0	17.7	17.7	17.6	17.3	17.0	17.3	17.7	17.9
G167.0	16.9	17.1	17.7	17.7	17.6	17.4	17.1	17.3	17.7	17.9
G168.0	17.0	17.2	17.7	17.7	17.6	17.4	17.1	17.3	17.6	18.0
G169.0	17.1	17.2	17.7	17.7	17.6	17.5	17.2	17.4	17.6	18.0
G170.0	17.2	17.3	17.7	17.6	17.6	17.5	17.2	17.4	17.6	18.0
G171.0	17.3	17.3	17.7	17.6	17.6	17.5	17.3	17.4	17.6	18.0
G172.0	17.3	17.3	17.7	17.7	17.6	17.5	17.4	17.4	17.6	18.0
G173.0	17.4	17.3	17.7	17.7	17.6	17.5	17.5	17.5	17.6	18.0
G174.0	17.5	17.4	17.7	17.7	17.6	17.6	17.5	17.5	17.6	17.9
G175.0	17.6	17.5	17.7	17.7	17.6	17.5	17.5	17.5	17.6	17.9
G176.0	17.6	17.5	17.7	17.7	17.6	17.5	17.6	17.5	17.6	17.9
G177.0	17.6	17.5	17.7	17.7	17.6	17.6	17.6	17.5	17.6	17.9
G178.0	17.7	17.5	17.7	17.8	17.6	17.6	17.7	17.5	17.6	17.8
G179.0	17.7	17.5	17.7	17.8	17.6	17.6	17.7	17.5	17.6	17.8
G180.0	17.7	17.6	17.6	17.8	17.6	17.6	17.7	17.5	17.6	17.8

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

Tel:  
Fax:

**Candlepower Table (Continue 5)**

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1900.5	1901.9	1887.8							
G1.0	1902.9	1903.9	1888.7							
G2.0	1904.3	1904.9	1888.8							
G3.0	1904.9	1905.2	1888.0							
G4.0	1904.6	1904.6	1886.5							
G5.0	1903.5	1903.1	1883.8							
G6.0	1901.4	1900.7	1880.5							
G7.0	1898.5	1897.5	1876.3							
G8.0	1894.8	1893.3	1871.3							
G9.0	1890.4	1888.3	1865.2							
G10.0	1884.9	1882.5	1858.6							
G11.0	1878.9	1875.8	1851.0							
G12.0	1871.7	1868.3	1842.6							
G13.0	1864.2	1859.8	1833.6							
G14.0	1855.6	1850.9	1823.9							
G15.0	1846.5	1840.5	1812.9							
G16.0	1836.8	1830.1	1801.5							
G17.0	1826.3	1818.6	1788.9							
G18.0	1815.2	1806.3	1776.6							
G19.0	1803.5	1793.0	1762.7							
G20.0	1791.2	1779.8	1748.5							
G21.0	1778.7	1765.2	1733.3							
G22.0	1764.6	1750.1	1717.0							
G23.0	1751.1	1734.0	1700.8							
G24.0	1736.4	1718.1	1683.4							
G25.0	1721.5	1701.1	1666.3							
G26.0	1706.1	1683.4	1648.1							
G27.0	1690.2	1664.7	1629.2							
G28.0	1674.1	1646.2	1609.5							
G29.0	1657.3	1626.7	1589.6							
G30.0	1640.2	1607.4	1569.3							
G31.0	1622.7	1587.1	1548.9							
G32.0	1605.4	1566.3	1527.1							
G33.0	1586.4	1544.7	1505.3							
G34.0	1568.4	1523.5	1483.0							
G35.0	1549.7	1501.4	1460.2							
G36.0	1531.0	1478.8	1436.9							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**Candlepower Table (Continue 6)**

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1511.7	1456.4	1413.8							
G38.0	1493.0	1433.2	1389.8							
G39.0	1472.4	1409.3	1366.2							
G40.0	1452.9	1386.0	1341.1							
G41.0	1432.3	1362.1	1316.8							
G42.0	1411.9	1337.9	1291.0							
G43.0	1391.8	1313.4	1266.1							
G44.0	1370.9	1288.6	1240.2							
G45.0	1349.7	1263.0	1214.0							
G46.0	1328.3	1238.3	1187.7							
G47.0	1307.2	1212.9	1162.3							
G48.0	1285.0	1188.1	1135.2							
G49.0	1263.1	1162.4	1108.9							
G50.0	1240.9	1136.1	1082.0							
G51.0	1218.7	1110.2	1055.4							
G52.0	1196.7	1084.8	1027.5							
G53.0	1173.4	1058.7	1001.1							
G54.0	1151.5	1032.4	973.4							
G55.0	1128.0	1005.5	945.6							
G56.0	1105.3	979.2	917.6							
G57.0	1081.6	953.5	889.7							
G58.0	1058.7	927.2	861.7							
G59.0	1034.7	901.3	834.7							
G60.0	1011.1	873.8	806.2							
G61.0	987.3	848.5	778.0							
G62.0	963.9	821.3	749.7							
G63.0	940.3	796.0	721.3							
G64.0	915.8	768.8	693.0							
G65.0	892.0	742.8	664.7							
G66.0	867.9	715.9	635.9							
G67.0	843.7	690.2	607.2							
G68.0	818.9	663.5	579.0							
G69.0	794.7	638.6	549.7							
G70.0	769.7	611.3	520.9							
G71.0	746.3	586.0	492.8							
G72.0	721.3	560.0	464.0							
G73.0	697.3	534.3	435.3							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

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**Candlepower Table (Continue 7)**

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	673.5	509.5	408.2							
G75.0	649.9	484.4	378.8							
G76.0	625.2	459.5	351.5							
G77.0	600.7	435.5	324.0							
G78.0	577.4	410.9	296.8							
G79.0	553.7	386.5	269.4							
G80.0	529.8	363.5	243.1							
G81.0	507.1	340.6	217.4							
G82.0	484.9	318.2	192.4							
G83.0	462.8	297.6	168.4							
G84.0	441.3	276.3	145.4							
G85.0	420.9	256.5	123.2							
G86.0	400.5	237.6	102.9							
G87.0	381.5	220.4	83.8							
G88.0	363.6	203.8	66.8							
G89.0	347.5	189.4	52.5							
G90.0	332.6	176.6	40.7							
G91.0	319.7	166.2	32.2							
G92.0	308.3	157.3	27.6							
G93.0	298.2	149.6	26.2							
G94.0	288.2	142.1	25.7							
G95.0	278.3	134.8	25.4							
G96.0	268.6	127.9	25.0							
G97.0	259.0	121.3	24.8							
G98.0	249.8	114.7	24.5							
G99.0	241.0	108.4	24.2							
G100.0	231.7	102.6	23.9							
G101.0	223.1	96.8	23.6							
G102.0	214.6	91.4	23.3							
G103.0	206.4	86.1	23.1							
G104.0	198.0	81.6	22.8							
G105.0	187.9	77.3	22.5							
G106.0	174.4	73.3	22.3							
G107.0	163.9	69.4	22.0							
G108.0	153.7	65.7	21.7							
G109.0	147.2	62.2	21.4							
G110.0	140.8	58.2	21.1							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

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**Candlepower Table (Continue 8)**

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	134.7	54.3	20.9							
G112.0	129.0	50.8	20.6							
G113.0	123.6	47.6	20.3							
G114.0	118.5	44.8	20.1							
G115.0	113.5	42.5	19.9							
G116.0	108.9	40.6	19.6							
G117.0	104.2	38.6	19.4							
G118.0	100.0	36.7	19.1							
G119.0	95.7	34.7	18.9							
G120.0	91.8	32.9	18.7							
G121.0	87.7	31.1	18.5							
G122.0	83.9	29.5	18.3							
G123.0	80.1	28.0	18.0							
G124.0	76.3	26.6	17.8							
G125.0	72.6	25.2	17.7							
G126.0	69.1	24.0	17.5							
G127.0	65.5	22.8	17.3							
G128.0	62.3	21.7	17.1							
G129.0	58.9	20.6	17.0							
G130.0	55.6	19.6	16.8							
G131.0	52.5	18.8	16.6							
G132.0	49.4	18.1	16.5							
G133.0	46.5	17.5	16.4							
G134.0	43.7	17.1	16.2							
G135.0	41.0	16.8	16.1							
G136.0	38.5	16.6	16.0							
G137.0	36.2	16.4	15.9							
G138.0	33.9	16.2	15.8							
G139.0	31.9	16.1	15.7							
G140.0	30.0	15.9	15.6							
G141.0	28.2	15.9	15.5							
G142.0	26.5	15.9	15.4							
G143.0	25.0	15.7	15.4							
G144.0	23.5	15.7	15.3							
G145.0	22.0	15.6	15.3							
G146.0	20.8	15.6	15.2							
G147.0	19.6	15.7	15.2							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector:

**FACTORY DIRECT LIGHTING**

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**Candlepower Table (Continue 9)**

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	18.8	15.7	15.1							
G149.0	18.3	15.7	15.2							
G150.0	17.9	15.8	15.3							
G151.0	17.7	15.9	15.4							
G152.0	17.6	15.9	15.5							
G153.0	17.5	16.1	15.6							
G154.0	17.4	16.1	15.7							
G155.0	17.3	16.2	15.8							
G156.0	17.3	16.3	15.9							
G157.0	17.2	16.4	16.0							
G158.0	17.2	16.5	16.1							
G159.0	17.3	16.6	16.2							
G160.0	17.3	16.6	16.3							
G161.0	17.3	16.8	16.4							
G162.0	17.3	16.8	16.5							
G163.0	17.3	16.9	16.6							
G164.0	17.4	17.0	16.6							
G165.0	17.4	17.0	16.8							
G166.0	17.4	17.1	16.8							
G167.0	17.5	17.1	16.9							
G168.0	17.5	17.2	17.0							
G169.0	17.5	17.2	17.1							
G170.0	17.6	17.2	17.2							
G171.0	17.6	17.3	17.3							
G172.0	17.6	17.3	17.3							
G173.0	17.6	17.3	17.4							
G174.0	17.6	17.4	17.5							
G175.0	17.6	17.4	17.6							
G176.0	17.6	17.5	17.6							
G177.0	17.5	17.5	17.6							
G178.0	17.5	17.5	17.7							
G179.0	17.5	17.6	17.7							
G180.0	17.5	17.5	17.7							

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

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 8.690 m  
 Humidity: 45-75  
 Inspector: