

FACTORY DIRECT LIGHTING

Tel:
Fax:

Report No.: 20170706002

Test Time: 2017-07-07 16:12

Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-54LED4K-120MD

Lamp Catalog: 2835/AC1500S54D

Lamp Description: 2835/4000K

Luminous Length (mm): 1290

Luminous Width (mm): 140

Luminous Height (mm): 100

Voltage: 119.5 V

Current: 0.450 A

Power: 53.69 W

Power Factor: 0.999

Photometric Results

CIE Class: Direct

Measurement Flux: 6490 lm

Downward Ratio: 92%

Field Angle: H158.8 V122.4

Luminaire Efficacy Rating (LER): 121

Max. Intensity: 2006.55 cd

Total Rated Lamp Lumens: 6490.0 lm

Efficiency: 100%

Upward Ratio: 8%

Beam Angle: H103.9 V122.9

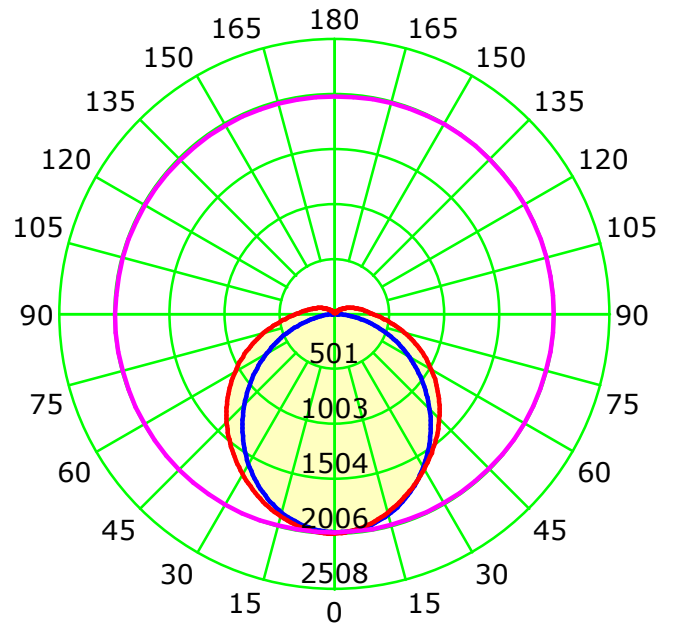
Central Intensity: 1989.15 cd

Pos of Max. Intensity: H330 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G1

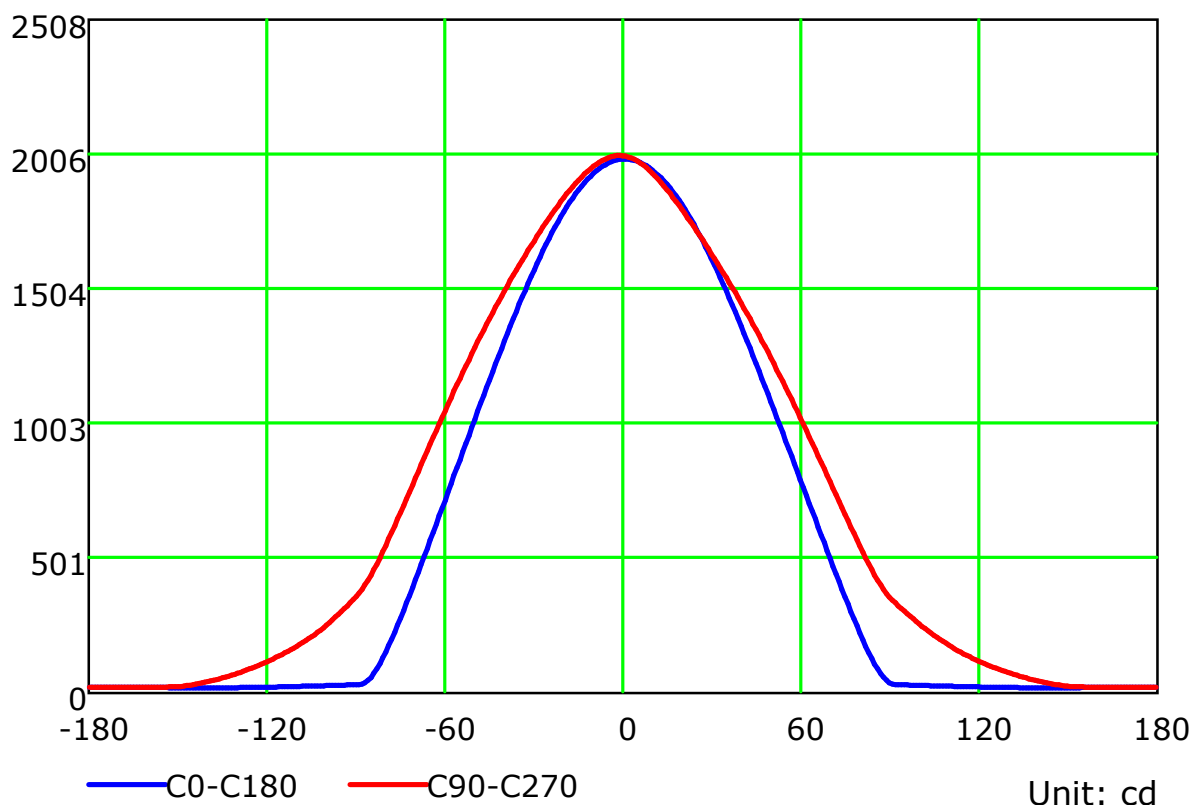
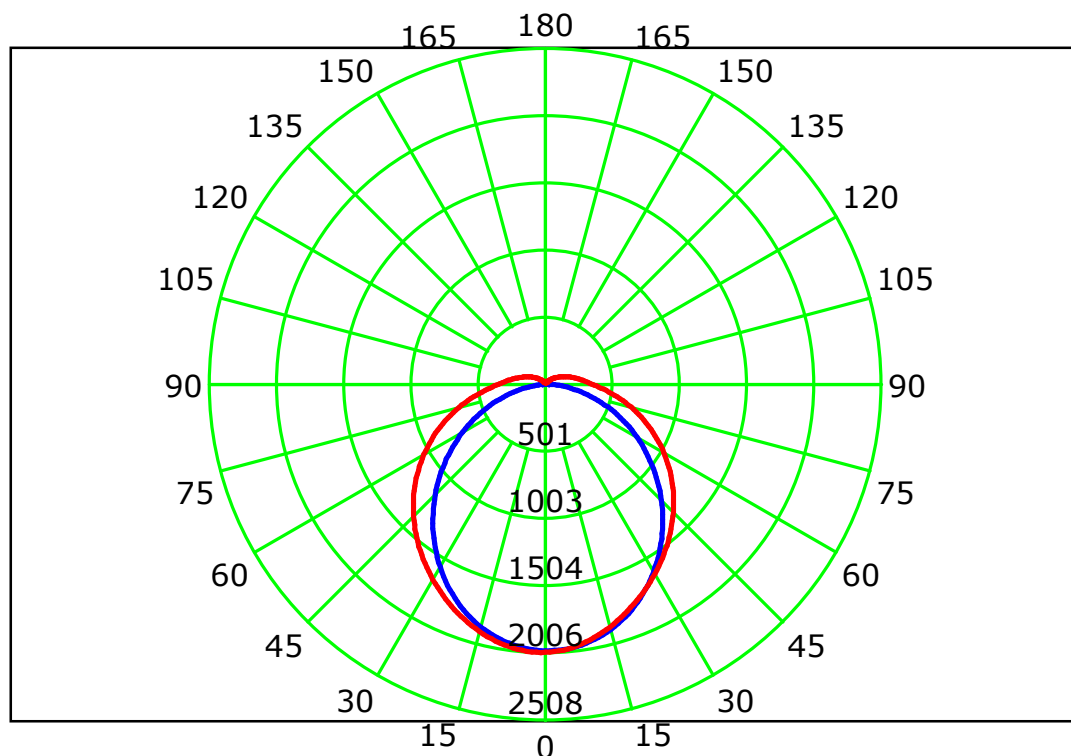
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: M

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
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 Temperature: 25
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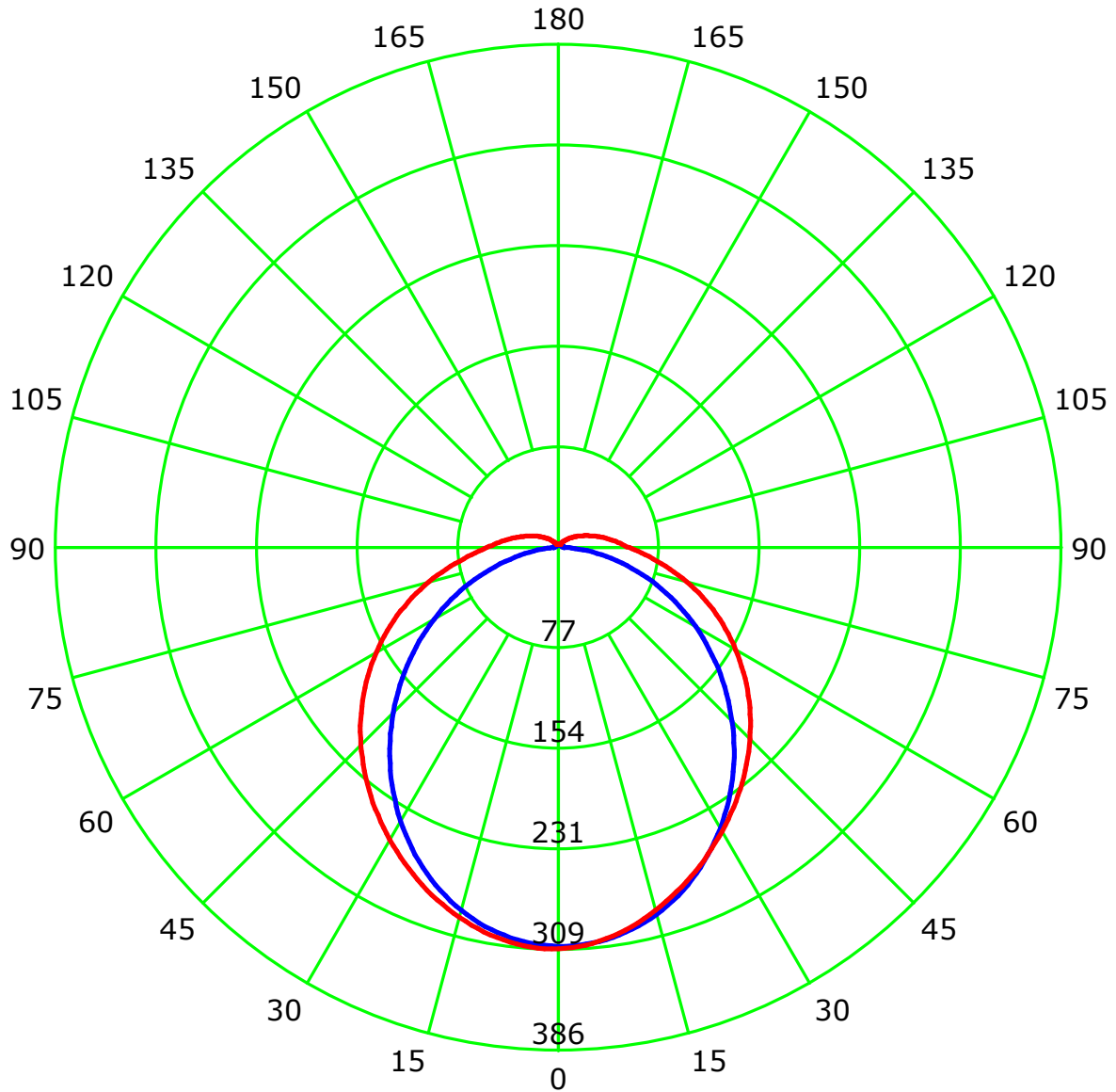
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Luminous Intensity Distribution Curve(cd/klm)



cd/klm
— C0-C180
— C90-C270

$\eta=100\%$
2835/AC1500S54D/2835/4000K

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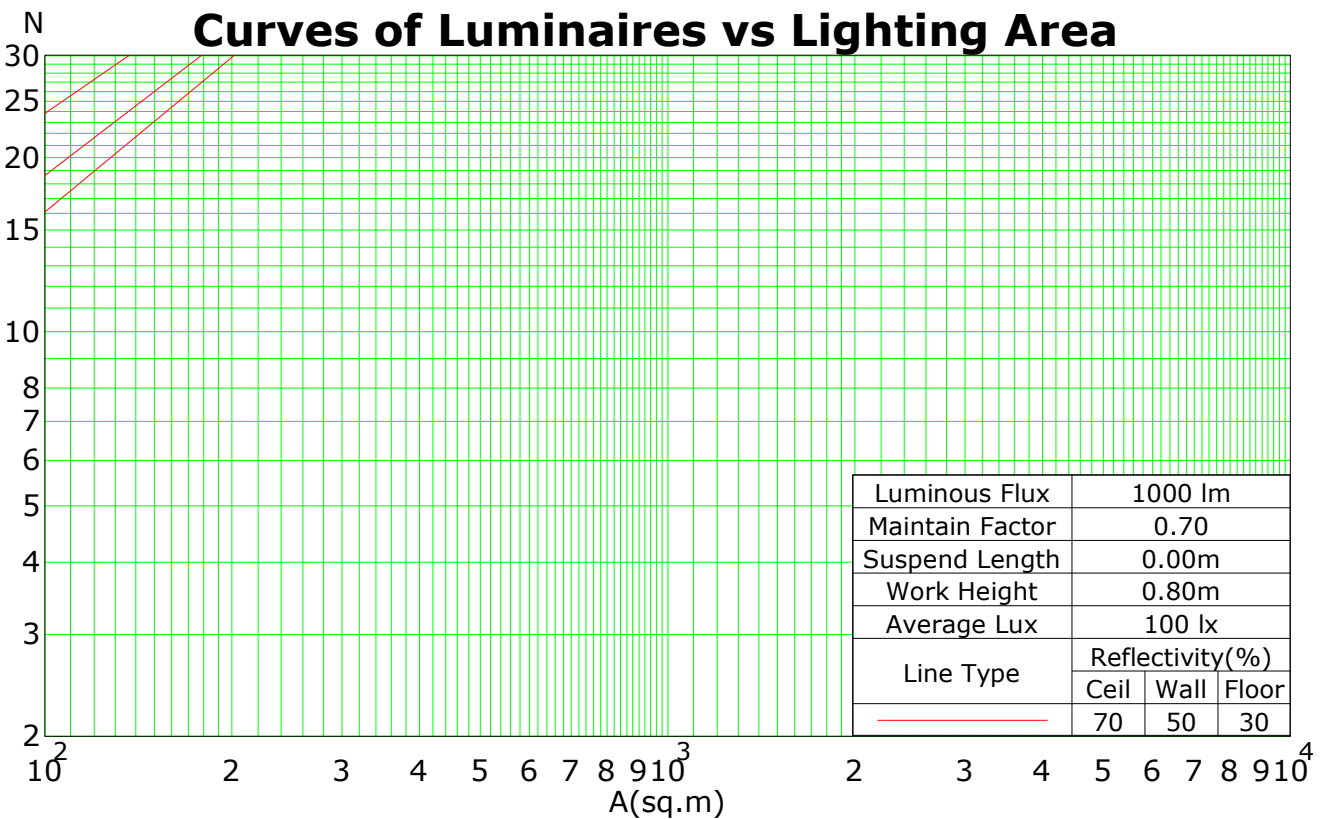
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Coefficients Of Utilization - Zonal Cavity Method

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	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	69	75	70	66	70	67	63	61
3	87	76	67	60	83	73	65	59	69	63	57	65	60	55	62	57	53	51
4	79	67	58	51	76	65	56	50	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	40	49	44	39	37
6	67	53	44	38	65	52	43	37	50	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	39	33	45	38	32	43	36	31	41	35	31	28
8	58	44	35	30	56	43	35	29	41	34	29	39	33	28	38	32	27	25
9	54	40	32	27	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	32	27	22	21

Spacing Criteria (0-180): 1.20
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.35



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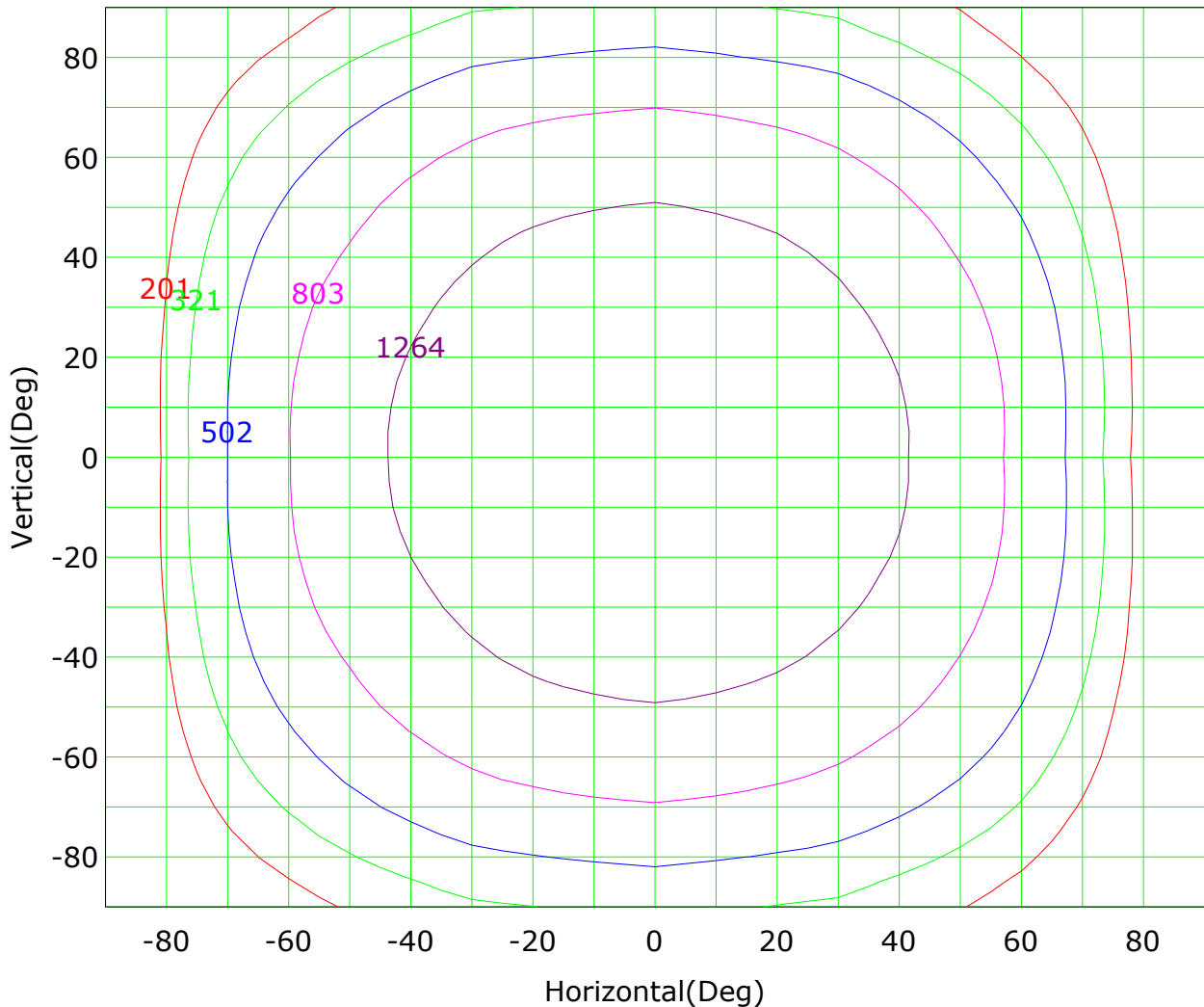
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Isocandela (rectangle)



Imax (100%): 2007 cd

- | | |
|-----------------|-----------------|
| (10%): 201 cd | (16%): 321 cd |
| (25%): 502 cd | (40%): 803 cd |
| (63%): 1264 cd | (100%): 2007 cd |

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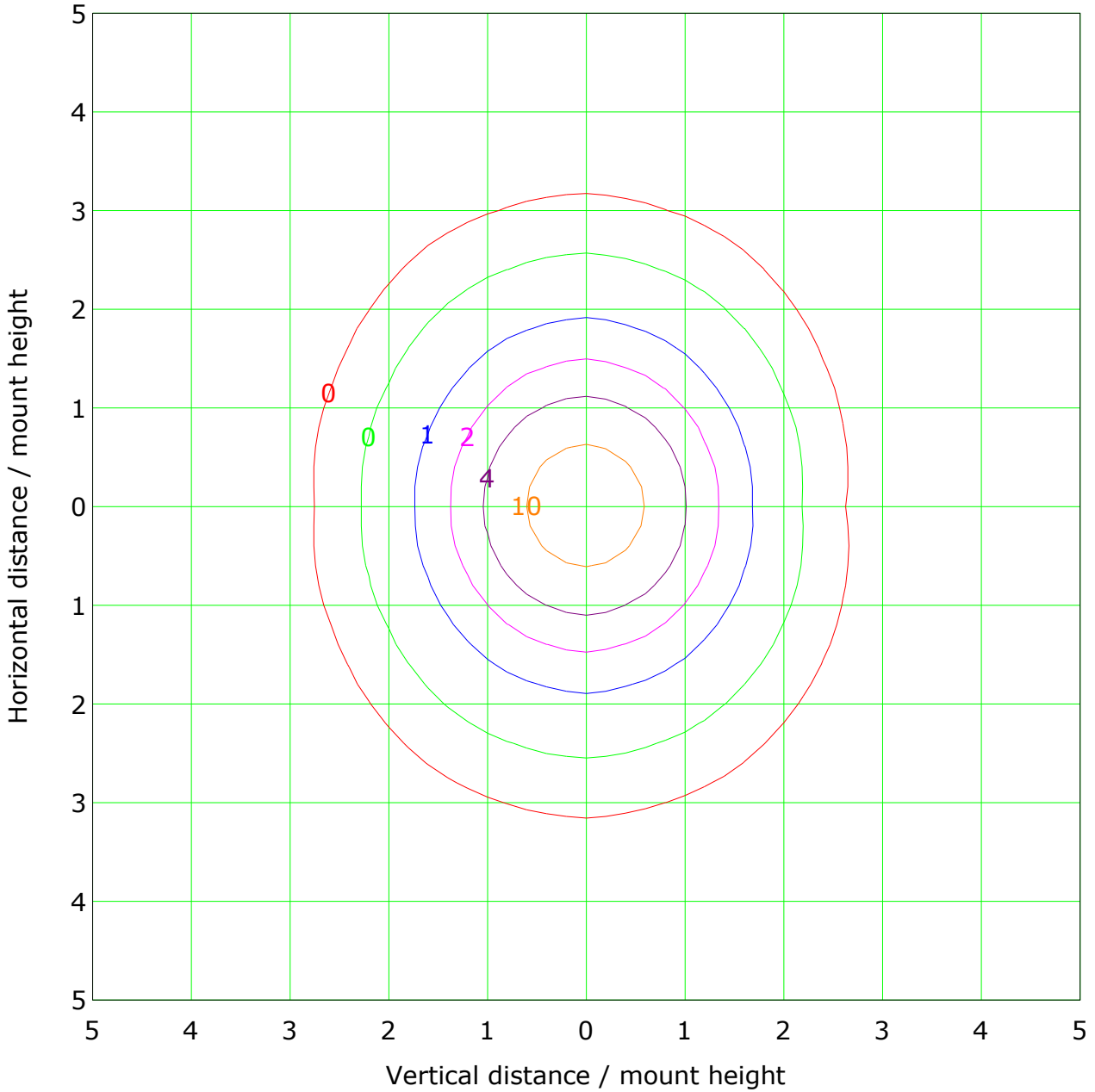
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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 20.1 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 2.0 lx
(20%): 4.0 lx	(50%): 10.0 lx
(100%): 20.1 lx	

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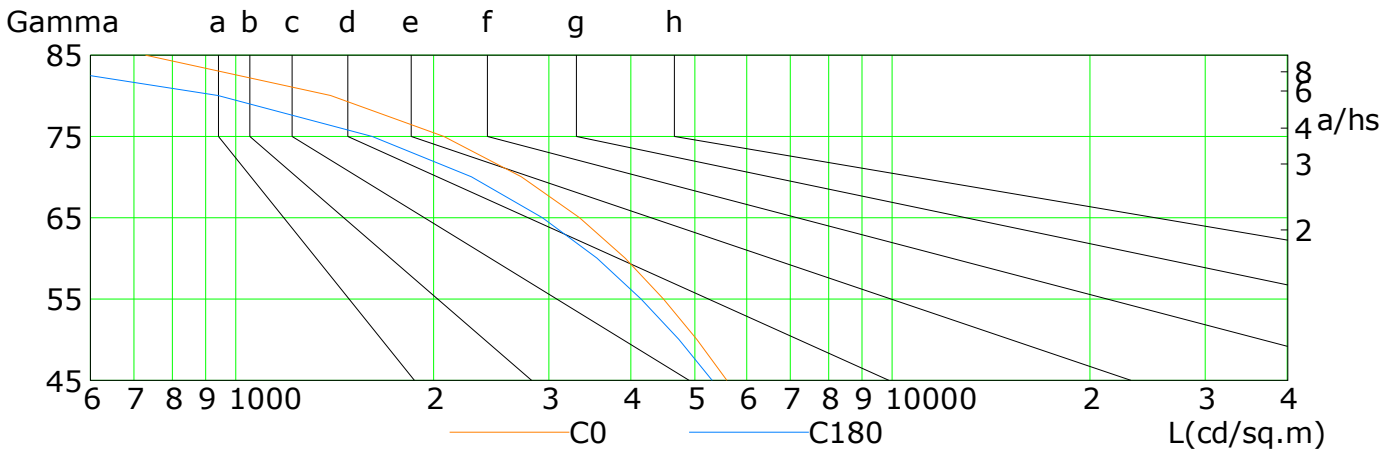
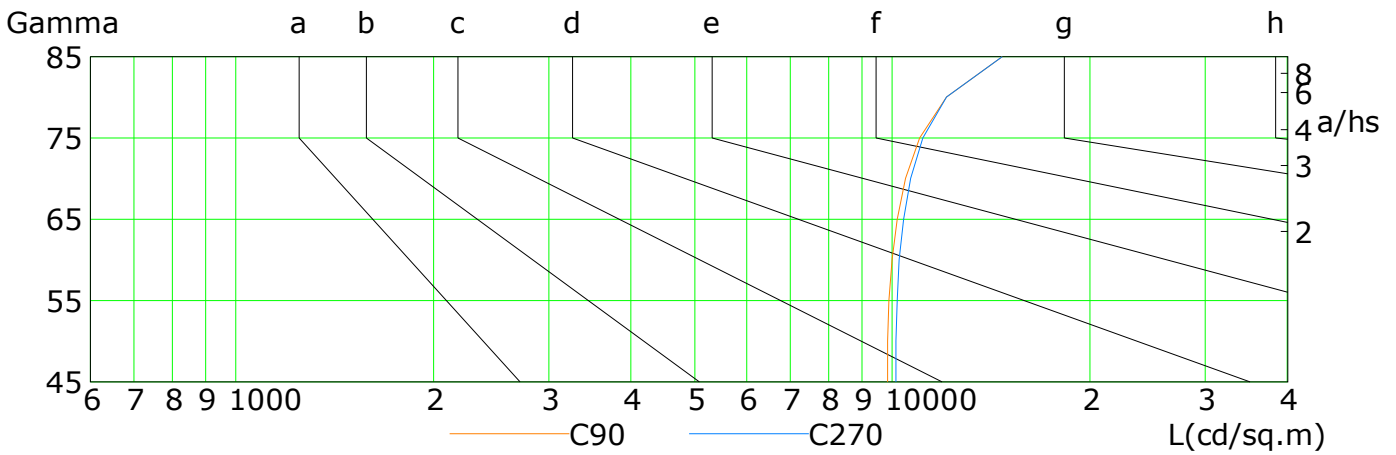
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Lum Limit Curve

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5604	5043	4485	3917	3339	2726	2074	1395	728
C90	9830	9837	9885	9989	10166	10474	11008	12086	14719
C180	5321	4734	4141	3545	2932	2287	1614	940	380
C270	10132	10137	10168	10253	10400	10659	11124	12109	14699

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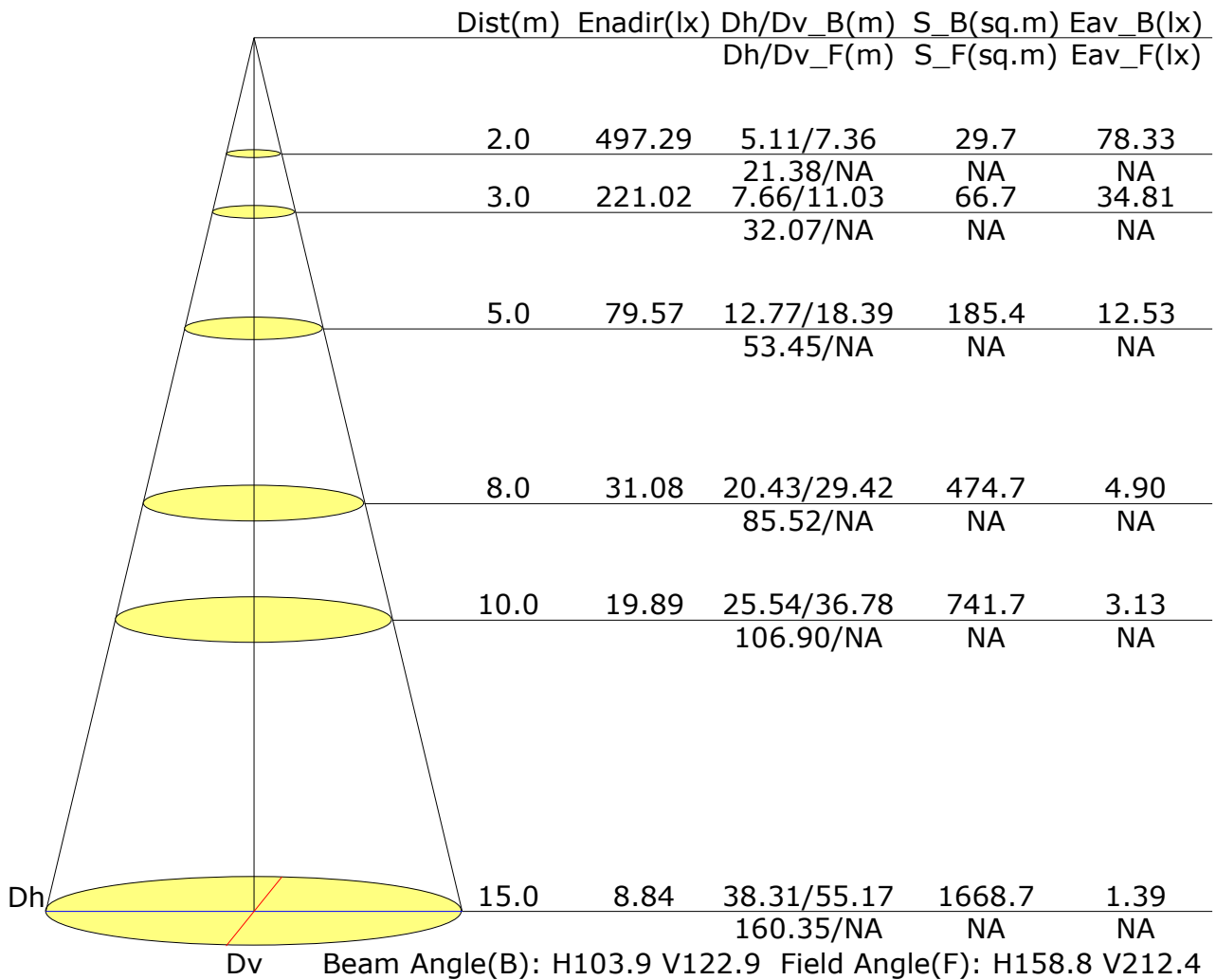
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Illuminance at a Distance



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 Test Type: TYPE C
 Temperature: 25
 Operator: M

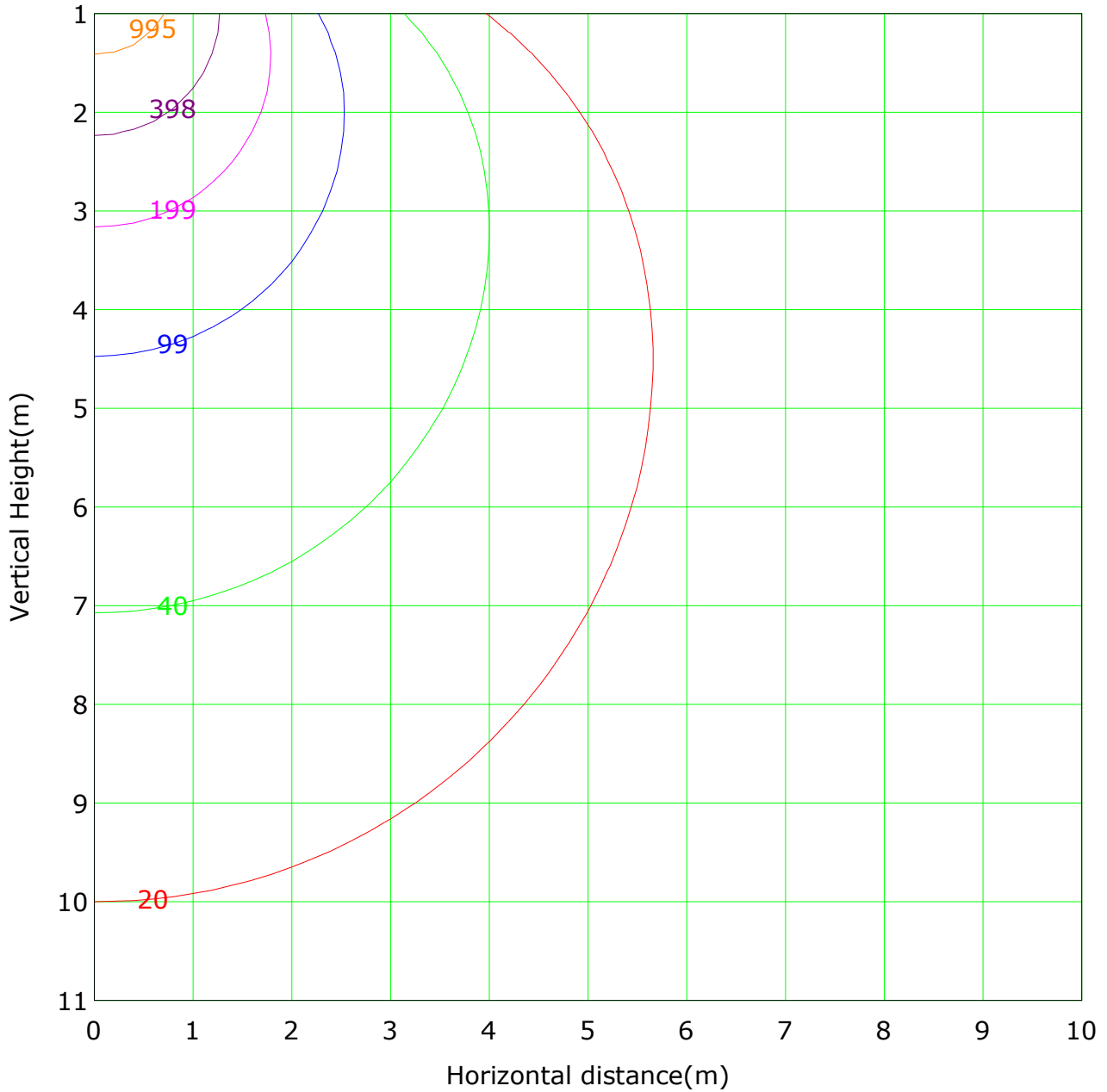
Gamma Plane (°):0.0-180.0:1.0
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 Inspector:

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Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1989.2 lx
— (1%): 19.9 lx — (2%): 39.8 lx
— (5%): 99.5 lx — (10%): 198.9 lx
— (20%): 397.8 lx — (50%): 994.6 lx
— (100%):1989.2 lx

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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)	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Flux(E)	Flux(T)
0.0	3.7	0.8	0.9	1.2	1.5	1.8	2.0	2.2	2.3	2.3	2.4	2.4	2.3	2.1	1.9	1.6	1.3	1.0	0.8	0.2	21.2	30.7
		1.9	2.6	3.5	4.6	5.5	6.3	7.0	7.4	7.5	7.4	7.4	7.5	6.5	5.7	4.8	3.8	2.8	2.0	0.2	87.8	93.7
		3.6	5.1	7.1	9.2	11.1	12.8	14.1	15.0	15.3	15.0	15.0	15.3	12.9	11.3	9.5	7.5	5.5	3.8	0.2	185.8	188.3
		5.7	8.5	11.8	15.0	18.0	20.6	22.9	24.5	25.1	24.5	24.5	25.1	20.7	18.2	15.2	12.0	8.8	6.0	0.2	305.6	330.5
		8.2	12.2	16.9	21.5	25.7	29.4	32.4	34.8	36.0	34.8	34.8	36.0	29.1	25.5	21.4	17.0	12.4	8.4	0.2	643.3	643.3
		10.3	15.6	21.7	27.5	32.9	37.6	41.6	44.7	46.4	44.7	44.7	46.4	36.9	32.3	27.1	21.5	15.7	10.5	0.2	655.4	655.4
		11.9	18.1	25.2	32.0	38.3	44.0	48.8	52.7	54.7	52.7	52.7	54.7	42.9	37.4	31.3	24.8	18.1	11.9	0.2	646.4	646.4
		13.0	19.9	27.5	34.8	41.6	47.6	52.9	57.2	59.5	56.2	56.2	59.5	46.3	40.4	33.9	26.9	19.7	13.0	0.2	4701.5	4701.5
		13.1	20.0	27.6	35.0	41.8	47.9	53.2	57.6	60.0	56.4	56.4	60.0	46.4	40.5	34.0	27.0	19.8	13.1	0.2	5704.5	5704.5
		12.1	18.5	25.6	32.5	38.9	44.7	49.7	53.6	55.6	52.4	52.4	55.6	43.2	37.7	31.6	25.0	18.3	12.1	0.2	5654.7	5654.7
		10.8	16.3	22.4	28.3	33.8	38.6	42.7	45.9	47.5	45.0	45.0	47.5	37.4	32.7	27.5	21.9	16.0	10.7	0.2	7565.9	7565.9
		8.7	12.9	17.7	22.4	26.6	30.4	33.6	36.0	37.2	35.5	35.5	37.2	29.7	26.0	21.8	17.4	12.8	8.6	0.2	9447.2	9447.2
		6.2	9.1	12.5	15.9	19.0	21.7	24.0	25.7	26.4	25.4	25.4	26.4	21.3	18.7	15.7	12.5	9.1	6.2	0.2	2319.4	2319.4
		3.9	5.7	7.8	9.9	11.9	13.7	15.1	16.1	16.5	16.4	16.4	16.5	13.6	11.9	9.9	7.9	5.8	4.0	0.2	199.8	199.8
		2.2	3.0	4.1	5.2	6.2	7.1	7.8	8.3	8.4	8.3	8.3	8.4	7.1	6.3	5.2	4.2	3.1	2.2	0.2	8100.4	8100.4
		0.9	1.2	1.5	1.9	2.3	2.6	2.8	2.9	2.9	2.9	2.9	2.9	2.6	2.3	1.9	1.6	1.2	0.9	0.2	31.7	31.7
		0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.6	0.6
		113.5	170.1	234.6	297.7	355.9	407.5	451.6	485.2	502.1	478.9	478.9	502.1	399.4	349.0	292.9	232.4	170.5	114.5	0.2	5960	5999

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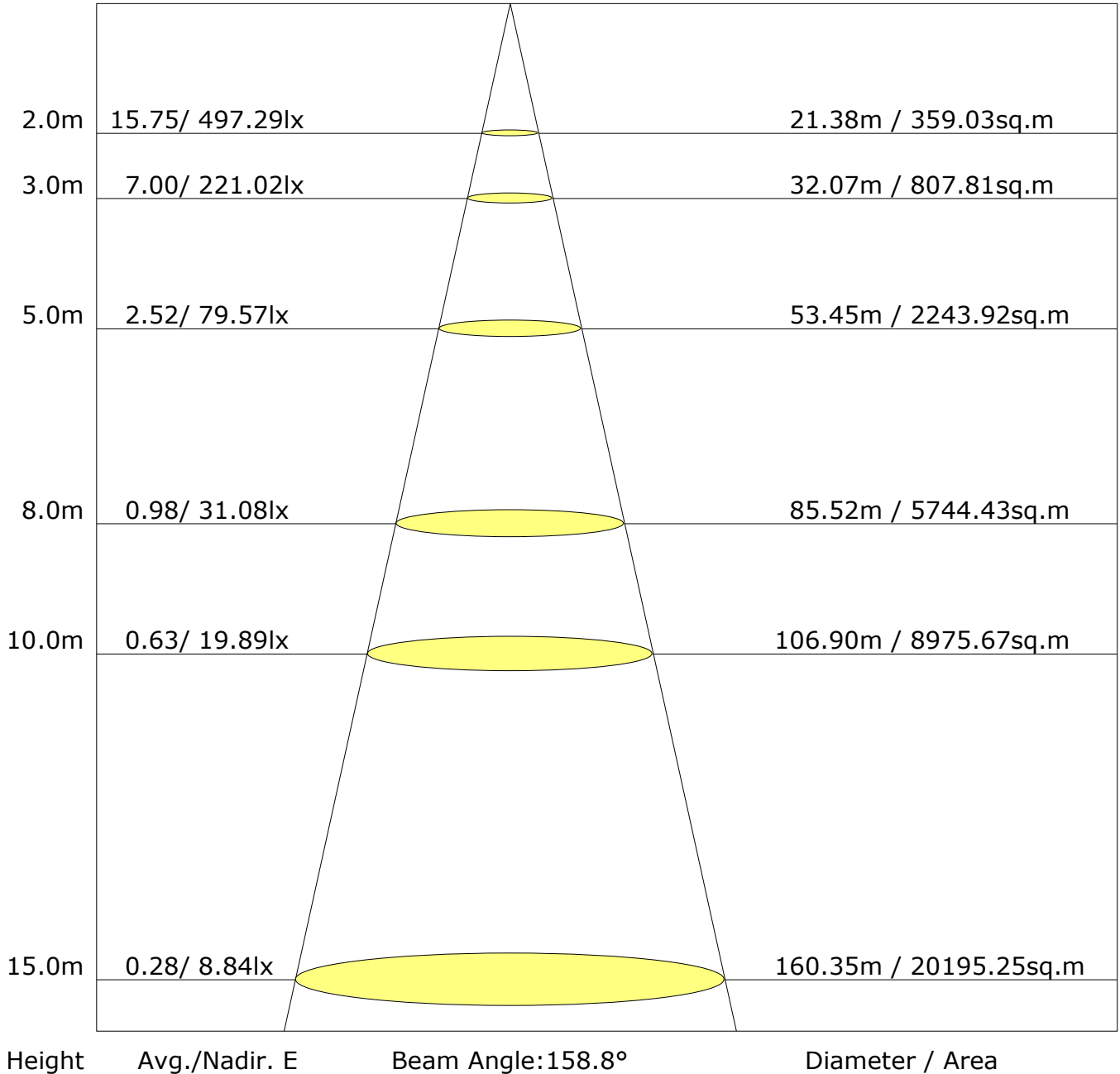
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The Average Illuminance Effective Figure

Flux Out: 5654.22lm



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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	11.1	12.6	11.6	13.1	13.6	10.9	12.5	11.4	12.9	13.4
3H	12.9	14.3	13.4	14.8	15.3	12.9	14.3	13.4	14.8	15.3
4H	13.6	14.9	14.1	15.4	15.9	13.7	15.1	14.3	15.5	16.1
6H	14.1	15.3	14.6	15.8	16.4	14.5	15.7	15.0	16.2	16.8
8H	14.2	15.4	14.8	15.9	16.5	14.8	16.0	15.3	16.5	17.1
12H	14.3	15.5	14.9	16.0	16.6	15.1	16.2	15.6	16.7	17.3
X=4H Y=2H	11.7	13.0	12.2	13.5	14.0	11.5	12.8	12.0	13.3	13.9
3H	13.7	14.8	14.2	15.3	15.9	13.7	14.8	14.2	15.4	15.9
4H	14.5	15.5	15.0	16.0	16.6	14.7	15.7	15.2	16.3	16.9
6H	15.1	16.0	15.7	16.6	17.2	15.6	16.5	16.2	17.1	17.7
8H	15.3	16.1	15.9	16.7	17.3	16.0	16.8	16.6	17.4	18.0
12H	15.5	16.2	16.0	16.8	17.5	16.4	17.1	17.0	17.7	18.4
X=8H Y=4H	14.8	15.7	15.4	16.2	16.9	15.0	15.9	15.6	16.4	17.1
6H	15.5	16.3	16.2	16.9	17.5	16.1	16.8	16.7	17.4	18.0
8H	15.9	16.5	16.5	17.1	17.8	16.6	17.2	17.2	17.9	18.5
12H	16.1	16.7	16.7	17.3	18.0	17.1	17.7	17.7	18.3	19.0
X=12H Y=4H	14.9	15.6	15.5	16.2	16.9	15.0	15.8	15.6	16.4	17.0
6H	15.7	16.3	16.3	16.9	17.6	16.2	16.8	16.8	17.4	18.1
8H	16.0	16.6	16.7	17.2	17.9	16.7	17.3	17.3	17.9	18.6

Calculate in accordance with CIE 190:2010

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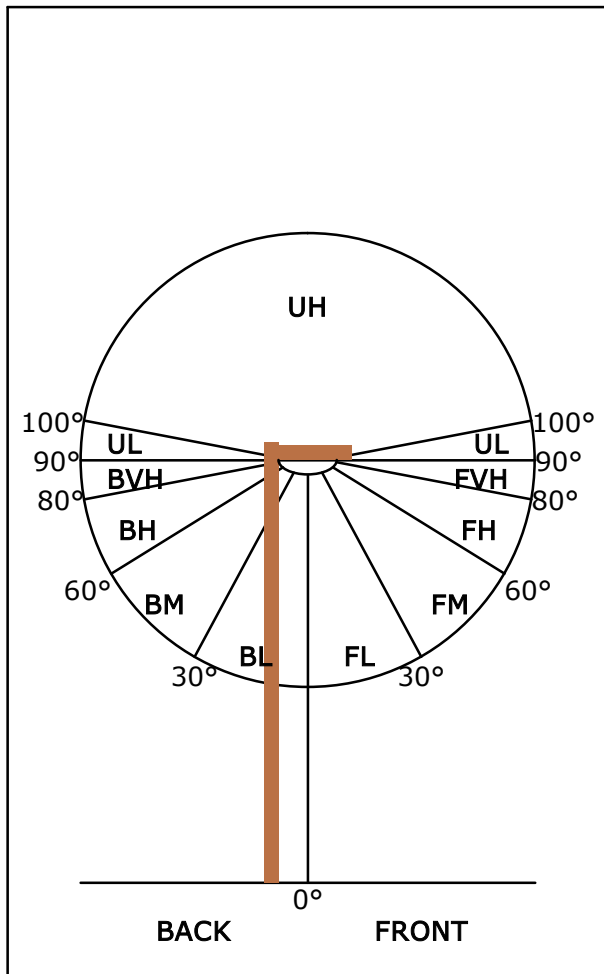
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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2981	45.9
FL (0°-30°)	753	11.6
FM (30°-60°)	1417	21.8
FH (60°-80°)	650	10.0
FVH (80°-90°)	161	2.5
BACK LIGHT	3018	46.5
BL (0°-30°)	764	11.8
BM (30°-60°)	1443	22.2
BH (60°-80°)	653	10.1
BVH (80°-90°)	158	2.4
UP LIGHT	491	7.6
UL (90°-100°)	196	3.0
UH (100°-180°)	295	4.5
TRAPPED LIGHT	NA	NA

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

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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	0.56	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99	
	0.30		0.48	0.56	0.63	0.69	0.76	0.82	0.86	0.91	0.95	
	0.20		0.42	0.50	0.57	0.63	0.71	0.77	0.81	0.87	0.91	
0.50	0.50	0.20	0.53	0.61	0.67	0.72	0.78	0.83	0.86	0.90	0.93	
	0.30		0.46	0.54	0.61	0.66	0.73	0.78	0.82	0.87	0.90	
	0.20		0.42	0.49	0.56	0.61	0.68	0.74	0.78	0.83	0.87	
0.30	0.50	0.20	0.51	0.58	0.64	0.68	0.74	0.79	0.81	0.85	0.88	
	0.30		0.45	0.52	0.59	0.63	0.70	0.74	0.78	0.82	0.85	
	0.20		0.41	0.47	0.54	0.59	0.66	0.71	0.75	0.80	0.83	
0.00	0.00	0.00	0.38	0.44	0.50	0.55	0.61	0.66	0.69	0.74	0.77	
<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>												

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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	0.97	0.83	0.72	0.63	0.51	0.43	0.37	0.30	0.25	
	0.30		0.81	0.71	0.62	0.56	0.46	0.40	0.35	0.28	0.23	
	0.20		0.70	0.62	0.55	0.50	0.42	0.37	0.32	0.26	0.22	
0.50	0.50	0.20	0.92	0.79	0.68	0.59	0.48	0.44	0.35	0.28	0.23	
	0.30		0.78	0.69	0.60	0.53	0.44	0.38	0.33	0.26	0.22	
	0.20		0.68	0.61	0.53	0.48	0.41	0.35	0.31	0.25	0.21	
0.30	0.50	0.20	0.88	0.75	0.64	0.56	0.46	0.38	0.33	0.26	0.22	
	0.30		0.75	0.66	0.57	0.51	0.42	0.36	0.31	0.25	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	0.48	0.42	0.38	0.31	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
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator: M

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(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	0.23	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.29
	0.30		0.17	0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22	0.24
0.50	0.50	0.20	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28
	0.30		0.16	0.18	0.19	0.20	0.22	0.23	0.23	0.25	0.25
	0.20		0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.30	0.50	0.20	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.26	0.27
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.24
	0.20		0.12	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22
0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

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: M

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

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1998.2	1.9	1.9	0.03	0.03
1.0-2.0	1997.2	5.7	7.6	0.09	0.12
2.0-3.0	1995.2	9.5	17.2	0.15	0.26
3.0-4.0	1992.2	13.3	30.5	0.21	0.47
4.0-5.0	1988.1	17.1	47.6	0.26	0.73
5.0-6.0	1983.0	20.8	68.5	0.32	1.06
6.0-7.0	1977.0	24.5	93.0	0.38	1.43
7.0-8.0	1970.0	28.2	121.2	0.43	1.87
8.0-9.0	1962.1	31.8	153.0	0.49	2.36
9.0-10.0	1953.3	35.4	188.4	0.54	2.90
10.0-11.0	1943.7	38.8	227.2	0.60	3.50
11.0-12.0	1933.2	42.3	269.5	0.65	4.15
12.0-13.0	1922.0	45.6	315.1	0.70	4.86
13.0-14.0	1910.0	48.9	364.0	0.75	5.61
14.0-15.0	1897.2	52.1	416.1	0.80	6.41
15.0-16.0	1883.8	55.2	471.3	0.85	7.26
16.0-17.0	1869.6	58.2	529.5	0.90	8.16
17.0-18.0	1854.8	61.2	590.7	0.94	9.10
18.0-19.0	1839.4	64.0	654.7	0.99	10.09
19.0-20.0	1823.5	66.7	721.4	1.03	11.12
20.0-21.0	1806.9	69.4	790.8	1.07	12.19
21.0-22.0	1789.8	71.9	862.8	1.11	13.29
22.0-23.0	1772.2	74.4	937.1	1.15	14.44
23.0-24.0	1754.0	76.7	1013.8	1.18	15.62
24.0-25.0	1735.4	78.9	1092.7	1.22	16.84
25.0-26.0	1716.4	81.0	1173.8	1.25	18.09
26.0-27.0	1696.9	83.0	1256.8	1.28	19.37
27.0-28.0	1677.0	84.9	1341.7	1.31	20.67
28.0-29.0	1656.7	86.7	1428.4	1.34	22.01
29.0-30.0	1636.1	88.3	1516.8	1.36	23.37
30.0-31.0	1615.1	89.9	1606.7	1.39	24.76
31.0-32.0	1593.9	91.3	1698.0	1.41	26.16
32.0-33.0	1572.3	92.6	1790.6	1.43	27.59
33.0-34.0	1550.4	93.8	1884.5	1.45	29.04
34.0-35.0	1528.3	94.9	1979.4	1.46	30.50
35.0-36.0	1506.0	95.9	2075.3	1.48	31.98

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

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	1483.3	96.8	2172.1	1.49	33.47
37.0-38.0	1460.3	97.5	2269.5	1.50	34.97
38.0-39.0	1437.2	98.1	2367.7	1.51	36.48
39.0-40.0	1413.8	98.6	2466.3	1.52	38.00
40.0-41.0	1390.2	99.0	2565.3	1.53	39.53
41.0-42.0	1366.4	99.3	2664.6	1.53	41.06
42.0-43.0	1342.3	99.4	2764.0	1.53	42.59
43.0-44.0	1318.2	99.5	2863.5	1.53	44.12
44.0-45.0	1293.8	99.4	2963.0	1.53	45.65
45.0-46.0	1269.3	99.3	3062.2	1.53	47.18
46.0-47.0	1244.4	99.0	3161.2	1.53	48.71
47.0-48.0	1219.6	98.6	3259.8	1.52	50.23
48.0-49.0	1194.8	98.1	3358.0	1.51	51.74
49.0-50.0	1169.6	97.5	3455.5	1.50	53.24
50.0-51.0	1144.3	96.8	3552.3	1.49	54.74
51.0-52.0	1118.8	96.0	3648.3	1.48	56.21
52.0-53.0	1093.5	95.1	3743.5	1.47	57.68
53.0-54.0	1068.0	94.1	3837.6	1.45	59.13
54.0-55.0	1042.3	93.1	3930.7	1.43	60.56
55.0-56.0	1016.6	91.9	4022.5	1.42	61.98
56.0-57.0	990.8	90.6	4113.1	1.40	63.38
57.0-58.0	965.0	89.3	4202.4	1.38	64.75
58.0-59.0	939.1	87.8	4290.2	1.35	66.10
59.0-60.0	913.0	86.3	4376.5	1.33	67.43
60.0-61.0	887.0	84.7	4461.1	1.30	68.74
61.0-62.0	860.8	83.0	4544.1	1.28	70.02
62.0-63.0	834.6	81.2	4625.3	1.25	71.27
63.0-64.0	808.6	79.4	4704.6	1.22	72.49
64.0-65.0	782.6	77.5	4782.1	1.19	73.68
65.0-66.0	756.4	75.5	4857.6	1.16	74.85
66.0-67.0	730.3	73.4	4931.0	1.13	75.98
67.0-68.0	704.2	71.3	5002.4	1.10	77.08
68.0-69.0	678.1	69.2	5071.5	1.07	78.14
69.0-70.0	652.1	67.0	5138.5	1.03	79.18
70.0-71.0	626.3	64.7	5203.3	1.00	80.17
71.0-72.0	600.7	62.5	5265.7	0.96	81.14

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

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	575.1	60.1	5325.9	0.93	82.06
73.0-74.0	549.6	57.8	5383.7	0.89	82.95
74.0-75.0	524.2	55.4	5439.1	0.85	83.81
75.0-76.0	499.2	53.0	5492.1	0.82	84.62
76.0-77.0	474.6	50.6	5542.7	0.78	85.40
77.0-78.0	450.4	48.2	5590.9	0.74	86.15
78.0-79.0	426.4	45.8	5636.7	0.71	86.85
79.0-80.0	402.8	43.4	5680.1	0.67	87.52
80.0-81.0	379.9	41.1	5721.2	0.63	88.15
81.0-82.0	357.7	38.8	5760.0	0.60	88.75
82.0-83.0	336.2	36.6	5796.6	0.56	89.32
83.0-84.0	315.6	34.4	5831.0	0.53	89.85
84.0-85.0	296.1	32.3	5863.3	0.50	90.34
85.0-86.0	278.1	30.4	5893.7	0.47	90.81
86.0-87.0	261.5	28.6	5922.3	0.44	91.25
87.0-88.0	246.5	27.0	5949.3	0.42	91.67
88.0-89.0	233.7	25.6	5974.9	0.39	92.06
89.0-90.0	222.7	24.4	5999.4	0.38	92.44
90.0-91.0	213.2	23.4	6022.7	0.36	92.80
91.0-92.0	204.7	22.4	6045.2	0.35	93.15
92.0-93.0	196.9	21.6	6066.7	0.33	93.48
93.0-94.0	189.3	20.7	6087.4	0.32	93.80
94.0-95.0	181.9	19.9	6107.3	0.31	94.10
95.0-96.0	174.8	19.1	6126.4	0.29	94.40
96.0-97.0	167.9	18.3	6144.7	0.28	94.68
97.0-98.0	161.3	17.5	6162.3	0.27	94.95
98.0-99.0	154.9	16.8	6179.1	0.26	95.21
99.0-100.0	148.7	16.1	6195.1	0.25	95.46
100.0-101.0	142.7	15.4	6210.5	0.24	95.69
101.0-102.0	136.9	14.7	6225.3	0.23	95.92
102.0-103.0	131.1	14.0	6239.3	0.22	96.14
103.0-104.0	125.3	13.4	6252.6	0.21	96.34
104.0-105.0	119.5	12.7	6265.3	0.20	96.54
105.0-106.0	114.1	12.1	6277.4	0.19	96.72
106.0-107.0	109.0	11.5	6288.9	0.18	96.90
107.0-108.0	103.9	10.9	6299.7	0.17	97.07

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

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	98.9	10.3	6310.0	0.16	97.23
109.0-110.0	94.3	9.7	6319.8	0.15	97.38
110.0-111.0	90.1	9.3	6329.0	0.14	97.52
111.0-112.0	86.2	8.8	6337.8	0.14	97.65
112.0-113.0	82.6	8.4	6346.2	0.13	97.78
113.0-114.0	79.3	8.0	6354.1	0.12	97.91
114.0-115.0	76.0	7.6	6361.7	0.12	98.02
115.0-116.0	72.9	7.2	6369.0	0.11	98.13
116.0-117.0	69.9	6.9	6375.8	0.11	98.24
117.0-118.0	67.0	6.5	6382.3	0.10	98.34
118.0-119.0	64.2	6.2	6388.5	0.10	98.44
119.0-120.0	61.5	5.9	6394.4	0.09	98.53
120.0-121.0	58.9	5.6	6400.0	0.09	98.61
121.0-122.0	56.3	5.3	6405.2	0.08	98.69
122.0-123.0	53.8	5.0	6410.2	0.08	98.77
123.0-124.0	51.4	4.7	6414.9	0.07	98.84
124.0-125.0	49.1	4.4	6419.3	0.07	98.91
125.0-126.0	46.9	4.2	6423.5	0.06	98.98
126.0-127.0	44.7	3.9	6427.5	0.06	99.04
127.0-128.0	42.7	3.7	6431.2	0.06	99.09
128.0-129.0	40.7	3.5	6434.7	0.05	99.15
129.0-130.0	38.8	3.3	6437.9	0.05	99.20
130.0-131.0	37.0	3.1	6441.0	0.05	99.25
131.0-132.0	35.3	2.9	6443.9	0.04	99.29
132.0-133.0	33.7	2.7	6446.7	0.04	99.33
133.0-134.0	32.2	2.6	6449.2	0.04	99.37
134.0-135.0	30.8	2.4	6451.6	0.04	99.41
135.0-136.0	29.5	2.3	6453.9	0.03	99.44
136.0-137.0	28.2	2.1	6456.0	0.03	99.48
137.0-138.0	27.0	2.0	6458.0	0.03	99.51
138.0-139.0	25.9	1.9	6459.9	0.03	99.54
139.0-140.0	24.8	1.8	6461.7	0.03	99.56
140.0-141.0	23.8	1.7	6463.3	0.03	99.59
141.0-142.0	22.9	1.6	6464.9	0.02	99.61
142.0-143.0	22.0	1.5	6466.4	0.02	99.64
143.0-144.0	21.2	1.4	6467.8	0.02	99.66

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

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	20.5	1.3	6469.1	0.02	99.68
145.0-146.0	19.8	1.2	6470.3	0.02	99.70
146.0-147.0	19.3	1.2	6471.5	0.02	99.71
147.0-148.0	18.8	1.1	6472.6	0.02	99.73
148.0-149.0	18.5	1.1	6473.6	0.02	99.75
149.0-150.0	18.3	1.0	6474.7	0.02	99.76
150.0-151.0	18.1	1.0	6475.6	0.02	99.78
151.0-152.0	18.0	0.9	6476.6	0.01	99.79
152.0-153.0	18.0	0.9	6477.5	0.01	99.81
153.0-154.0	18.0	0.9	6478.4	0.01	99.82
154.0-155.0	18.0	0.8	6479.2	0.01	99.83
155.0-156.0	18.0	0.8	6480.0	0.01	99.85
156.0-157.0	18.0	0.8	6480.8	0.01	99.86
157.0-158.0	18.1	0.8	6481.6	0.01	99.87
158.0-159.0	18.1	0.7	6482.3	0.01	99.88
159.0-160.0	18.2	0.7	6483.0	0.01	99.89
160.0-161.0	18.2	0.7	6483.7	0.01	99.90
161.0-162.0	18.3	0.6	6484.3	0.01	99.91
162.0-163.0	18.3	0.6	6484.9	0.01	99.92
163.0-164.0	18.4	0.6	6485.5	0.01	99.93
164.0-165.0	18.4	0.5	6486.0	0.01	99.94
165.0-166.0	18.4	0.5	6486.5	0.01	99.95
166.0-167.0	18.5	0.5	6487.0	0.01	99.95
167.0-168.0	18.5	0.4	6487.4	0.01	99.96
168.0-169.0	18.6	0.4	6487.8	0.01	99.97
169.0-170.0	18.6	0.4	6488.2	0.01	99.97
170.0-171.0	18.6	0.3	6488.6	0.01	99.98
171.0-172.0	18.6	0.3	6488.9	0.00	99.98
172.0-173.0	18.6	0.3	6489.1	0.00	99.99
173.0-174.0	18.7	0.2	6489.4	0.00	99.99
174.0-175.0	18.7	0.2	6489.5	0.00	99.99
175.0-176.0	18.7	0.2	6489.7	0.00	100.00
176.0-177.0	18.7	0.1	6489.8	0.00	100.00
177.0-178.0	18.7	0.1	6489.9	0.00	100.00
178.0-179.0	18.7	0.1	6490.0	0.00	100.00
179.0-180.0	18.7	0.0	6490.0	0.00	100.00

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

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

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	1989.2	1993.2	1997.6	2001.5	2004.0	2005.6	1989.2	1993.2	1997.6	2001.5
G1.0	1989.4	1992.7	1996.2	1999.5	2001.7	2003.6	1988.0	1992.7	1997.8	2002.3
G2.0	1988.6	1991.2	1993.9	1996.5	1998.5	2000.7	1985.9	1991.3	1997.0	2002.1
G3.0	1986.9	1988.7	1990.5	1992.6	1994.0	1996.6	1982.8	1988.9	1995.1	2000.7
G4.0	1984.2	1985.2	1986.4	1987.7	1988.6	1991.9	1978.9	1985.4	1992.1	1998.0
G5.0	1980.6	1980.8	1981.0	1981.4	1982.2	1986.0	1973.8	1981.0	1988.1	1994.3
G6.0	1976.1	1975.6	1974.6	1974.4	1974.9	1979.4	1967.9	1975.4	1983.0	1989.8
G7.0	1970.7	1969.2	1966.9	1966.1	1966.3	1971.3	1961.2	1969.1	1977.0	1984.4
G8.0	1964.4	1961.9	1959.0	1957.4	1957.2	1962.9	1953.3	1961.8	1970.1	1977.6
G9.0	1957.1	1953.7	1949.4	1947.5	1947.5	1953.0	1944.8	1953.8	1962.3	1970.4
G10.0	1948.8	1944.7	1939.3	1937.1	1936.6	1942.7	1935.3	1944.0	1953.3	1962.2
G11.0	1939.6	1934.9	1928.7	1925.8	1924.9	1931.3	1924.9	1934.2	1944.0	1953.2
G12.0	1929.9	1924.0	1917.5	1913.6	1912.5	1919.3	1913.6	1923.4	1933.7	1943.6
G13.0	1918.8	1912.2	1904.6	1901.0	1899.5	1906.3	1901.3	1911.5	1922.9	1933.3
G14.0	1907.8	1900.0	1891.6	1888.2	1886.1	1892.1	1888.2	1898.6	1910.8	1922.2
G15.0	1894.6	1886.3	1878.3	1874.7	1871.2	1877.8	1874.7	1885.5	1898.4	1910.6
G16.0	1881.4	1872.3	1864.4	1860.8	1856.9	1863.1	1859.3	1870.9	1885.4	1898.5
G17.0	1867.1	1857.6	1849.4	1846.2	1841.5	1846.9	1843.8	1855.9	1871.7	1885.2
G18.0	1852.2	1842.2	1834.1	1831.6	1825.9	1830.4	1827.4	1840.0	1857.3	1872.1
G19.0	1836.6	1825.7	1818.6	1816.3	1809.9	1812.9	1810.3	1823.7	1842.4	1858.8
G20.0	1820.3	1808.9	1802.6	1801.5	1793.2	1795.1	1792.3	1805.6	1827.0	1844.9
G21.0	1802.5	1791.1	1785.6	1785.4	1776.8	1776.4	1773.7	1788.0	1810.8	1830.8
G22.0	1784.4	1773.0	1768.9	1769.7	1759.8	1757.5	1754.3	1769.5	1794.9	1815.0
G23.0	1765.9	1753.6	1751.9	1753.7	1741.7	1737.6	1734.3	1750.7	1777.8	1799.9
G24.0	1746.8	1734.3	1734.4	1737.1	1723.5	1717.5	1713.1	1730.1	1760.9	1784.2
G25.0	1726.4	1715.0	1716.3	1720.5	1705.4	1696.5	1692.3	1709.6	1742.5	1767.9
G26.0	1705.4	1694.1	1698.6	1703.8	1687.7	1675.7	1670.2	1689.0	1725.1	1751.8
G27.0	1685.1	1673.7	1679.7	1686.9	1668.6	1654.2	1646.9	1666.8	1706.1	1734.6
G28.0	1662.3	1651.8	1661.4	1669.8	1649.7	1632.1	1624.1	1645.1	1687.4	1717.9
G29.0	1640.6	1630.0	1642.1	1653.0	1630.2	1609.2	1600.2	1622.5	1668.2	1701.1
G30.0	1617.2	1607.8	1623.0	1635.4	1610.4	1586.5	1576.4	1599.4	1649.1	1683.8
G31.0	1593.9	1585.3	1603.7	1618.0	1590.5	1563.5	1551.6	1575.1	1628.9	1665.7
G32.0	1570.1	1562.3	1584.2	1600.0	1571.3	1540.0	1526.3	1552.8	1609.3	1648.3
G33.0	1545.8	1539.1	1564.4	1582.6	1551.9	1516.3	1500.0	1528.2	1588.3	1629.7
G34.0	1521.0	1515.4	1544.6	1564.2	1530.9	1492.1	1474.3	1503.7	1568.3	1611.4
G35.0	1496.2	1491.3	1524.5	1546.0	1512.0	1467.7	1448.3	1479.3	1547.5	1592.8
G36.0	1470.4	1467.0	1504.1	1527.9	1491.0	1442.9	1421.1	1454.5	1526.8	1574.7

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

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:

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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	1444.8	1442.9	1483.7	1509.1	1470.9	1417.9	1393.0	1428.3	1505.9	1555.5
G38.0	1418.4	1417.4	1463.0	1490.7	1449.6	1392.7	1365.9	1403.6	1483.9	1536.6
G39.0	1392.9	1392.4	1442.2	1471.6	1429.6	1367.4	1338.0	1376.6	1462.4	1516.7
G40.0	1364.8	1367.2	1421.7	1452.3	1408.1	1342.4	1309.8	1350.4	1441.3	1496.5
G41.0	1338.2	1342.4	1400.5	1432.9	1386.8	1317.4	1281.5	1324.7	1418.9	1477.0
G42.0	1310.0	1316.2	1378.7	1412.7	1364.8	1291.0	1252.9	1298.9	1396.8	1456.7
G43.0	1283.4	1290.4	1358.1	1393.1	1344.1	1265.6	1224.0	1271.0	1374.4	1435.8
G44.0	1254.6	1265.0	1335.8	1372.4	1322.1	1238.8	1195.6	1244.9	1352.4	1414.9
G45.0	1226.8	1239.9	1314.7	1352.7	1299.9	1213.8	1164.9	1217.2	1329.1	1394.2
G46.0	1198.3	1213.7	1291.9	1331.5	1277.7	1187.4	1136.1	1191.3	1307.1	1372.7
G47.0	1169.5	1186.7	1270.6	1311.4	1255.7	1161.0	1106.5	1163.0	1282.3	1351.5
G48.0	1140.8	1161.6	1248.3	1290.4	1233.1	1134.6	1077.6	1136.5	1260.7	1329.9
G49.0	1112.6	1135.2	1225.6	1268.5	1210.4	1108.9	1047.9	1109.3	1236.6	1306.8
G50.0	1083.7	1108.1	1202.9	1247.4	1187.6	1082.0	1017.3	1082.1	1213.4	1285.5
G51.0	1054.6	1081.7	1180.0	1225.6	1164.6	1056.2	988.0	1054.2	1188.5	1262.3
G52.0	1025.5	1055.3	1157.0	1203.6	1141.5	1029.7	957.3	1028.0	1165.5	1239.5
G53.0	997.4	1029.3	1134.2	1182.4	1118.7	1003.7	927.7	1000.0	1140.8	1216.4
G54.0	967.9	1002.7	1110.2	1159.9	1095.7	977.1	897.5	972.4	1117.0	1194.1
G55.0	938.5	977.2	1088.2	1137.3	1072.1	951.1	866.5	945.5	1092.4	1169.9
G56.0	909.0	950.7	1064.1	1114.5	1048.9	924.5	837.5	918.0	1067.6	1146.6
G57.0	880.2	924.0	1040.4	1092.2	1025.2	898.1	807.4	890.1	1043.1	1122.9
G58.0	850.7	897.5	1016.5	1069.2	1001.9	872.1	777.2	863.3	1018.3	1098.4
G59.0	821.1	871.5	992.6	1046.6	977.8	845.6	747.1	836.7	994.0	1074.2
G60.0	791.3	844.8	969.5	1023.1	953.7	818.4	716.2	809.5	967.8	1050.2
G61.0	762.7	818.5	945.1	999.8	930.3	792.7	686.8	781.6	943.8	1025.7
G62.0	732.5	790.9	921.5	976.2	905.7	766.5	657.1	754.9	918.0	1000.3
G63.0	703.0	765.8	897.4	952.6	881.6	740.9	626.2	727.7	893.3	975.8
G64.0	673.7	740.3	872.8	929.1	857.6	714.9	596.0	701.2	868.3	951.0
G65.0	645.3	713.8	848.8	904.9	834.1	688.5	566.6	673.5	842.9	925.8
G66.0	614.9	687.5	824.8	881.2	809.1	662.5	537.3	647.4	817.1	900.6
G67.0	584.8	661.3	800.4	857.0	785.4	637.0	506.9	620.2	791.6	875.9
G68.0	556.7	635.4	776.0	832.8	761.6	610.7	477.3	594.3	766.2	849.2
G69.0	527.4	609.5	752.1	808.5	736.7	585.6	447.8	567.4	741.5	823.6
G70.0	498.8	584.3	727.3	784.8	712.3	560.7	418.5	540.7	716.1	798.6
G71.0	469.6	558.7	703.8	760.2	688.5	535.8	389.9	515.2	690.2	773.0
G72.0	441.1	534.3	679.4	736.8	664.7	510.7	360.3	490.0	664.7	747.0
G73.0	412.2	508.4	655.1	711.8	640.0	485.7	332.9	464.5	640.1	721.3

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

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 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	384.2	484.1	631.0	688.1	616.4	461.1	303.5	440.0	615.6	696.3
G75.0	355.4	458.9	606.4	663.4	592.0	437.0	276.5	414.8	591.3	670.4
G76.0	328.2	435.3	583.2	639.4	569.0	412.7	249.4	390.6	565.5	645.1
G77.0	299.6	411.4	559.1	615.7	545.3	389.9	223.6	367.4	541.2	620.5
G78.0	272.6	388.0	536.4	592.6	522.8	367.0	197.5	344.1	517.8	595.6
G79.0	246.2	365.0	513.4	568.2	499.5	344.5	172.1	321.5	494.0	571.5
G80.0	221.0	341.9	490.2	545.6	477.2	322.2	148.9	298.9	470.3	546.7
G81.0	195.4	319.9	467.4	522.8	454.8	301.0	126.9	278.0	448.5	523.4
G82.0	171.2	298.4	446.5	500.0	433.8	280.5	106.3	257.8	426.0	499.7
G83.0	147.6	277.8	424.3	477.9	412.7	260.0	86.6	239.3	405.4	477.7
G84.0	125.8	257.5	403.7	457.0	392.8	241.4	69.5	220.4	384.9	456.3
G85.0	105.0	238.3	383.1	437.0	373.4	223.9	54.8	204.2	366.4	436.4
G86.0	86.4	220.8	365.2	417.4	355.6	207.3	43.3	189.2	348.9	416.8
G87.0	69.0	203.4	346.7	399.1	338.6	192.4	34.7	176.1	333.0	399.3
G88.0	55.0	188.2	330.3	382.8	323.2	179.4	29.8	165.3	318.9	383.7
G89.0	43.3	174.4	315.4	367.5	310.1	168.3	28.4	156.0	306.7	369.8
G90.0	34.7	162.9	302.3	354.5	298.3	159.0	27.8	147.4	296.0	357.5
G91.0	30.0	153.1	290.7	342.2	287.9	151.0	27.4	139.6	284.7	345.5
G92.0	28.4	145.0	280.7	332.3	278.3	143.7	27.0	132.0	274.7	333.6
G93.0	27.7	137.6	271.1	321.6	268.9	136.6	26.6	124.7	264.6	322.5
G94.0	27.3	130.8	261.8	311.3	259.7	130.0	26.2	117.4	254.3	311.3
G95.0	26.9	123.9	252.6	301.4	250.3	123.2	25.9	110.9	244.9	300.6
G96.0	26.5	117.6	243.6	291.7	241.5	117.2	25.5	104.8	234.8	289.9
G97.0	26.2	111.6	234.6	282.0	232.9	111.1	25.2	99.3	225.9	279.6
G98.0	25.9	105.8	226.3	272.7	224.3	105.5	24.8	94.2	216.9	269.6
G99.0	25.5	100.1	218.0	263.4	215.8	100.0	24.5	89.3	207.9	259.5
G100.0	25.2	94.9	209.8	254.7	207.9	94.8	24.1	84.6	199.4	249.7
G101.0	24.8	89.7	201.7	245.8	200.1	89.8	23.8	80.1	191.1	240.6
G102.0	24.5	84.9	194.2	237.3	192.3	85.1	23.5	75.9	183.0	231.4
G103.0	24.1	80.2	186.2	228.6	184.9	80.6	23.1	72.1	171.7	222.5
G104.0	23.8	76.2	179.3	220.5	177.7	76.7	22.8	68.0	159.8	214.0
G105.0	23.5	72.3	171.8	212.4	170.6	72.9	22.4	64.2	150.3	206.5
G106.0	23.1	68.6	164.8	204.8	163.3	69.3	22.1	60.0	142.4	198.9
G107.0	22.8	65.2	157.4	197.2	153.7	65.8	21.8	56.0	137.2	191.6
G108.0	22.4	61.9	147.1	189.8	142.9	62.2	21.5	52.5	132.0	184.6
G109.0	22.1	58.8	136.9	182.3	134.1	58.2	21.2	49.4	127.1	177.8
G110.0	21.8	55.5	128.9	175.4	126.9	54.6	20.9	46.7	122.1	171.0

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

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 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	21.5	52.0	122.2	167.6	121.5	51.2	20.6	44.4	117.2	164.7
G112.0	21.2	48.8	117.2	160.9	116.7	48.2	20.3	42.2	112.9	158.2
G113.0	20.9	45.8	112.2	154.8	112.0	45.7	20.1	40.2	108.4	152.4
G114.0	20.7	43.1	107.7	148.6	107.6	43.5	19.8	38.1	104.2	146.2
G115.0	20.4	40.8	103.3	142.8	103.4	41.4	19.5	36.2	99.9	140.4
G116.0	20.1	38.8	99.1	137.0	99.5	39.3	19.3	34.4	95.7	134.7
G117.0	19.9	36.9	94.9	131.6	95.6	37.4	19.1	32.6	91.5	129.2
G118.0	19.6	35.0	91.1	126.2	91.8	35.5	18.8	30.9	87.6	124.0
G119.0	19.4	33.3	87.4	121.1	87.8	33.8	18.6	29.4	83.6	118.6
G120.0	19.1	31.6	83.8	116.0	84.2	32.2	18.4	27.9	79.8	113.7
G121.0	18.9	30.1	80.3	111.2	80.4	30.6	18.1	26.5	76.0	108.7
G122.0	18.7	28.6	76.7	106.4	76.8	29.1	18.0	25.3	72.2	103.9
G123.0	18.5	27.3	73.3	101.9	73.2	27.7	17.8	24.1	68.5	99.3
G124.0	18.3	26.0	69.9	97.3	69.6	26.5	17.6	23.1	65.0	94.8
G125.0	18.1	24.8	66.8	93.1	66.3	25.3	17.4	22.0	61.8	90.3
G126.0	17.9	23.7	63.4	88.8	62.8	24.2	17.2	21.2	58.7	86.1
G127.0	17.7	22.6	60.3	84.7	59.7	23.2	17.1	20.3	55.7	81.9
G128.0	17.5	21.6	57.2	80.6	56.8	22.3	17.0	19.5	52.7	77.9
G129.0	17.3	20.7	54.1	76.7	54.0	21.4	16.8	18.8	50.0	74.0
G130.0	17.2	19.9	51.2	73.0	51.2	20.5	16.7	18.3	47.3	70.3
G131.0	17.1	19.2	48.4	69.3	48.5	19.8	16.5	17.9	44.5	66.6
G132.0	16.9	18.7	45.7	65.8	45.9	19.2	16.4	17.7	42.1	63.0
G133.0	16.8	18.3	43.2	62.5	43.5	18.8	16.4	17.4	39.8	59.6
G134.0	16.7	17.9	40.8	59.1	41.0	18.4	16.3	17.2	37.5	56.3
G135.0	16.6	17.7	38.5	55.9	38.8	18.1	16.2	17.1	35.3	52.8
G136.0	16.5	17.4	36.3	52.7	36.6	17.9	16.1	17.0	33.3	49.8
G137.0	16.4	17.2	34.4	49.7	34.6	17.8	16.1	16.9	31.5	46.7
G138.0	16.3	17.1	32.4	46.8	32.8	17.6	16.0	16.8	29.8	43.9
G139.0	16.2	17.0	30.7	44.1	30.9	17.5	15.9	16.8	28.2	41.2
G140.0	16.2	16.8	28.9	41.4	29.2	17.4	15.9	16.7	26.6	38.7
G141.0	16.1	16.7	27.3	39.0	27.6	17.3	15.9	16.6	25.1	36.2
G142.0	16.0	16.6	25.8	36.5	26.0	17.2	15.9	16.6	23.8	33.9
G143.0	16.0	16.5	24.4	34.4	24.7	17.2	15.8	16.6	22.4	31.7
G144.0	15.9	16.5	23.1	32.2	23.3	17.2	15.8	16.7	21.3	29.7
G145.0	15.9	16.4	21.9	30.2	22.2	17.2	15.8	16.8	20.3	27.7
G146.0	15.9	16.4	20.8	28.3	21.1	17.2	15.9	16.9	19.5	25.9
G147.0	15.9	16.5	20.0	26.4	20.3	17.3	15.9	17.0	19.1	24.2

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

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 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	15.9	16.5	19.4	24.8	19.7	17.3	16.1	17.1	18.8	22.8
G149.0	16.0	16.5	19.1	23.3	19.3	17.5	16.2	17.2	18.7	21.4
G150.0	16.1	16.6	18.8	22.0	19.1	17.5	16.3	17.2	18.6	20.5
G151.0	16.2	16.8	18.6	21.0	18.9	17.6	16.5	17.3	18.6	19.9
G152.0	16.4	16.9	18.6	20.2	18.8	17.7	16.6	17.4	18.6	19.5
G153.0	16.5	17.0	18.5	19.8	18.8	17.8	16.7	17.5	18.6	19.2
G154.0	16.6	17.1	18.5	19.4	18.8	17.9	16.8	17.6	18.6	19.1
G155.0	16.8	17.1	18.5	19.2	18.8	17.9	16.9	17.7	18.6	19.0
G156.0	16.9	17.2	18.5	19.1	18.8	18.0	17.0	17.7	18.6	19.0
G157.0	17.0	17.3	18.5	19.0	18.8	18.1	17.1	17.8	18.6	18.9
G158.0	17.1	17.5	18.5	19.0	18.8	18.1	17.2	17.8	18.7	18.9
G159.0	17.2	17.5	18.5	18.9	18.8	18.3	17.3	17.9	18.7	18.9
G160.0	17.3	17.6	18.5	18.9	18.8	18.3	17.5	18.0	18.7	18.8
G161.0	17.3	17.8	18.5	18.9	18.8	18.4	17.6	18.0	18.7	18.8
G162.0	17.5	17.9	18.5	18.9	18.8	18.4	17.6	18.1	18.7	18.8
G163.0	17.6	17.9	18.5	18.9	18.9	18.5	17.7	18.1	18.7	18.8
G164.0	17.7	18.0	18.5	18.8	18.9	18.6	17.8	18.3	18.7	18.8
G165.0	17.7	18.1	18.6	18.9	18.9	18.6	17.9	18.3	18.7	18.9
G166.0	17.8	18.1	18.6	18.8	18.9	18.6	18.0	18.3	18.7	18.9
G167.0	17.9	18.2	18.6	18.8	18.9	18.7	18.1	18.4	18.7	18.9
G168.0	18.0	18.3	18.6	18.9	18.9	18.7	18.2	18.4	18.7	19.0
G169.0	18.1	18.3	18.7	18.9	18.9	18.7	18.3	18.5	18.7	19.0
G170.0	18.2	18.3	18.7	18.9	18.9	18.8	18.4	18.5	18.7	19.0
G171.0	18.3	18.4	18.7	18.9	18.9	18.8	18.5	18.5	18.7	19.0
G172.0	18.4	18.4	18.7	19.0	18.9	18.8	18.5	18.5	18.7	19.0
G173.0	18.4	18.4	18.7	19.0	18.8	18.8	18.6	18.5	18.6	19.0
G174.0	18.5	18.4	18.7	19.0	18.8	18.8	18.6	18.6	18.7	19.0
G175.0	18.6	18.5	18.7	19.0	18.8	18.8	18.7	18.6	18.6	19.0
G176.0	18.6	18.5	18.7	19.0	18.8	18.8	18.7	18.6	18.6	19.0
G177.0	18.7	18.5	18.7	19.0	18.8	18.8	18.8	18.6	18.6	19.0
G178.0	18.7	18.6	18.7	19.0	18.7	18.8	18.8	18.6	18.6	18.9
G179.0	18.8	18.6	18.6	19.0	18.7	18.7	18.8	18.6	18.6	19.0
G180.0	18.8	18.6	18.6	19.0	18.6	18.7	18.8	18.6	18.6	19.0

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

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 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	2004.0	2005.6	1989.2						
G1.0	2005.3	2006.5	1989.4						
G2.0	2005.5	2006.5	1988.6						
G3.0	2004.7	2005.5	1986.9						
G4.0	2002.8	2003.6	1984.2						
G5.0	1999.6	2000.6	1980.6						
G6.0	1995.5	1996.5	1976.1						
G7.0	1990.4	1991.6	1970.7						
G8.0	1984.4	1985.6	1964.4						
G9.0	1977.5	1978.4	1957.1						
G10.0	1969.8	1970.6	1948.8						
G11.0	1960.8	1961.8	1939.6						
G12.0	1951.0	1951.9	1929.9						
G13.0	1941.0	1941.3	1918.8						
G14.0	1930.0	1929.9	1907.8						
G15.0	1918.1	1917.3	1894.6						
G16.0	1905.7	1904.5	1881.4						
G17.0	1892.6	1890.1	1867.1						
G18.0	1878.9	1875.5	1852.2						
G19.0	1864.5	1859.5	1836.6						
G20.0	1849.7	1843.4	1820.3						
G21.0	1834.4	1826.0	1802.5						
G22.0	1818.2	1808.2	1784.4						
G23.0	1801.6	1789.8	1765.9						
G24.0	1785.2	1770.7	1746.8						
G25.0	1768.0	1751.1	1726.4						
G26.0	1750.2	1730.7	1705.4						
G27.0	1731.6	1709.7	1685.1						
G28.0	1714.2	1688.1	1662.3						
G29.0	1694.8	1666.0	1640.6						
G30.0	1675.7	1644.0	1617.2						
G31.0	1656.2	1621.1	1593.9						
G32.0	1636.9	1597.8	1570.1						
G33.0	1616.1	1574.1	1545.8						
G34.0	1596.4	1550.0	1521.0						
G35.0	1576.4	1525.9	1496.2						
G36.0	1555.9	1500.9	1470.4						

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

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

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Tel:

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Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1534.8	1475.6	1444.8							
G38.0	1513.5	1450.5	1418.4							
G39.0	1492.2	1424.3	1392.9							
G40.0	1470.7	1398.9	1364.8							
G41.0	1448.5	1372.8	1338.2							
G42.0	1427.0	1345.9	1310.0							
G43.0	1404.8	1319.4	1283.4							
G44.0	1382.4	1293.2	1254.6							
G45.0	1359.7	1266.2	1226.8							
G46.0	1336.8	1239.1	1198.3							
G47.0	1313.7	1211.3	1169.5							
G48.0	1289.9	1184.3	1140.8							
G49.0	1267.1	1157.6	1112.6							
G50.0	1243.9	1130.3	1083.7							
G51.0	1219.0	1102.9	1054.6							
G52.0	1195.5	1075.5	1025.5							
G53.0	1171.4	1047.9	997.4							
G54.0	1146.4	1020.8	967.9							
G55.0	1122.9	992.5	938.5							
G56.0	1098.2	965.4	909.0							
G57.0	1074.0	937.2	880.2							
G58.0	1049.8	910.9	850.7							
G59.0	1023.2	882.2	821.1							
G60.0	998.7	855.9	791.3							
G61.0	974.0	827.8	762.7							
G62.0	947.5	800.3	732.5							
G63.0	922.6	772.8	703.0							
G64.0	897.6	745.3	673.7							
G65.0	872.0	718.1	645.3							
G66.0	846.5	691.5	614.9							
G67.0	821.5	664.5	584.8							
G68.0	795.3	637.7	556.7							
G69.0	769.8	611.0	527.4							
G70.0	744.2	583.8	498.8							
G71.0	719.1	557.9	469.6							
G72.0	693.5	532.2	441.1							
G73.0	668.5	506.7	412.2							

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

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	642.0	479.9	384.2							
G75.0	618.0	455.6	355.4							
G76.0	592.8	430.1	328.2							
G77.0	568.7	406.1	299.6							
G78.0	543.7	382.0	272.6							
G79.0	519.0	357.8	246.2							
G80.0	495.6	335.2	221.0							
G81.0	472.6	313.1	195.4							
G82.0	449.3	291.3	171.2							
G83.0	428.3	270.9	147.6							
G84.0	406.2	250.3	125.8							
G85.0	386.5	232.1	105.0							
G86.0	368.0	214.8	86.4							
G87.0	350.1	199.0	69.0							
G88.0	334.3	184.6	55.0							
G89.0	320.3	173.2	43.3							
G90.0	308.3	163.2	34.7							
G91.0	297.3	154.5	30.0							
G92.0	286.5	146.3	28.4							
G93.0	276.0	138.3	27.7							
G94.0	265.6	130.9	27.3							
G95.0	255.7	123.7	26.9							
G96.0	245.9	116.6	26.5							
G97.0	236.4	110.0	26.2							
G98.0	227.2	104.3	25.9							
G99.0	218.1	99.0	25.5							
G100.0	209.2	93.8	25.2							
G101.0	200.7	89.1	24.8							
G102.0	192.2	84.5	24.5							
G103.0	184.1	80.3	24.1							
G104.0	173.4	76.2	23.8							
G105.0	161.6	72.2	23.5							
G106.0	152.3	68.3	23.1							
G107.0	144.5	64.3	22.8							
G108.0	138.9	60.4	22.4							
G109.0	133.6	56.5	22.1							
G110.0	128.5	53.2	21.8							

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

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

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Tel:

Fax:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	123.2	50.0	21.5							
G112.0	118.4	47.3	21.2							
G113.0	113.6	45.0	20.9							
G114.0	109.0	42.7	20.7							
G115.0	104.7	40.5	20.4							
G116.0	100.5	38.4	20.1							
G117.0	96.3	36.5	19.9							
G118.0	92.2	34.6	19.6							
G119.0	88.2	32.8	19.4							
G120.0	84.3	31.0	19.1							
G121.0	80.4	29.4	18.9							
G122.0	76.7	27.9	18.7							
G123.0	73.0	26.5	18.5							
G124.0	69.5	25.2	18.3							
G125.0	65.9	23.9	18.1							
G126.0	62.5	22.8	17.9							
G127.0	59.2	21.7	17.7							
G128.0	56.0	20.8	17.5							
G129.0	52.9	19.9	17.3							
G130.0	50.0	19.2	17.2							
G131.0	47.3	18.4	17.1							
G132.0	44.6	17.9	16.9							
G133.0	42.0	17.6	16.8							
G134.0	39.6	17.3	16.7							
G135.0	37.3	17.0	16.6							
G136.0	35.2	16.8	16.5							
G137.0	33.1	16.6	16.4							
G138.0	31.3	16.5	16.3							
G139.0	29.5	16.4	16.2							
G140.0	27.8	16.3	16.2							
G141.0	26.3	16.3	16.1							
G142.0	24.8	16.3	16.0							
G143.0	23.5	16.2	16.0							
G144.0	22.2	16.2	15.9							
G145.0	21.0	16.3	15.9							
G146.0	20.1	16.4	15.9							
G147.0	19.4	16.4	15.9							

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

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 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	19.0	16.5	15.9							
G149.0	18.7	16.6	16.0							
G150.0	18.5	16.7	16.1							
G151.0	18.4	16.8	16.2							
G152.0	18.4	16.9	16.4							
G153.0	18.3	17.0	16.5							
G154.0	18.3	17.1	16.6							
G155.0	18.2	17.2	16.8							
G156.0	18.1	17.3	16.9							
G157.0	18.1	17.4	17.0							
G158.0	18.1	17.5	17.1							
G159.0	18.2	17.6	17.2							
G160.0	18.3	17.7	17.3							
G161.0	18.3	17.7	17.3							
G162.0	18.3	17.8	17.5							
G163.0	18.4	17.9	17.6							
G164.0	18.4	18.0	17.7							
G165.0	18.5	18.0	17.7							
G166.0	18.5	18.0	17.8							
G167.0	18.5	18.1	17.9							
G168.0	18.5	18.1	18.0							
G169.0	18.6	18.2	18.1							
G170.0	18.6	18.2	18.2							
G171.0	18.6	18.3	18.3							
G172.0	18.6	18.3	18.4							
G173.0	18.6	18.4	18.4							
G174.0	18.6	18.4	18.5							
G175.0	18.5	18.4	18.6							
G176.0	18.5	18.4	18.6							
G177.0	18.5	18.5	18.7							
G178.0	18.5	18.5	18.7							
G179.0	18.6	18.6	18.8							
G180.0	18.6	18.6	18.8							

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

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