

FACTORY DIRECT LIGHTING

Tel:
Fax:

Report No.: 20170708001

Test Time: 2017-07-08 12:02

Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-54LED5K-347VD

Lamp Catalog: 2835/3C1500S54D

Lamp Description: 2835/5000K

Luminous Length (mm): 1290

Luminous Width (mm): 140

Luminous Height (mm): 100

Voltage: 298.8 V

Current: 0.184 A

Power: 54.14 W

Power Factor: 0.983

Photometric Results

CIE Class: Direct

Measurement Flux: 6359.2 lm

Downward Ratio: 92%

Field Angle: H159.7 V217.5

Luminaire Efficacy Rating (LER): 117

Max. Intensity: 1909.93 cd

Total Rated Lamp Lumens: 6359.2 lm

Efficiency: 100%

Upward Ratio: 8%

Beam Angle: H106.6 V124.9

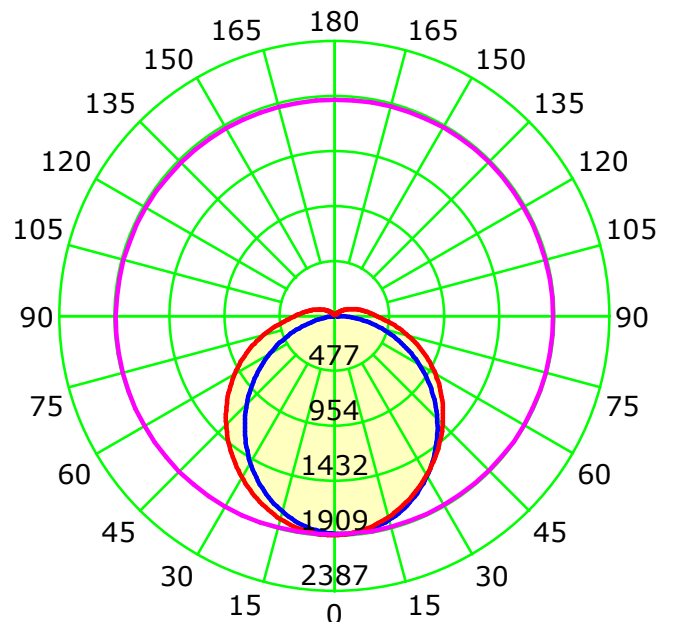
Central Intensity: 1890.38 cd

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: M

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.690 m

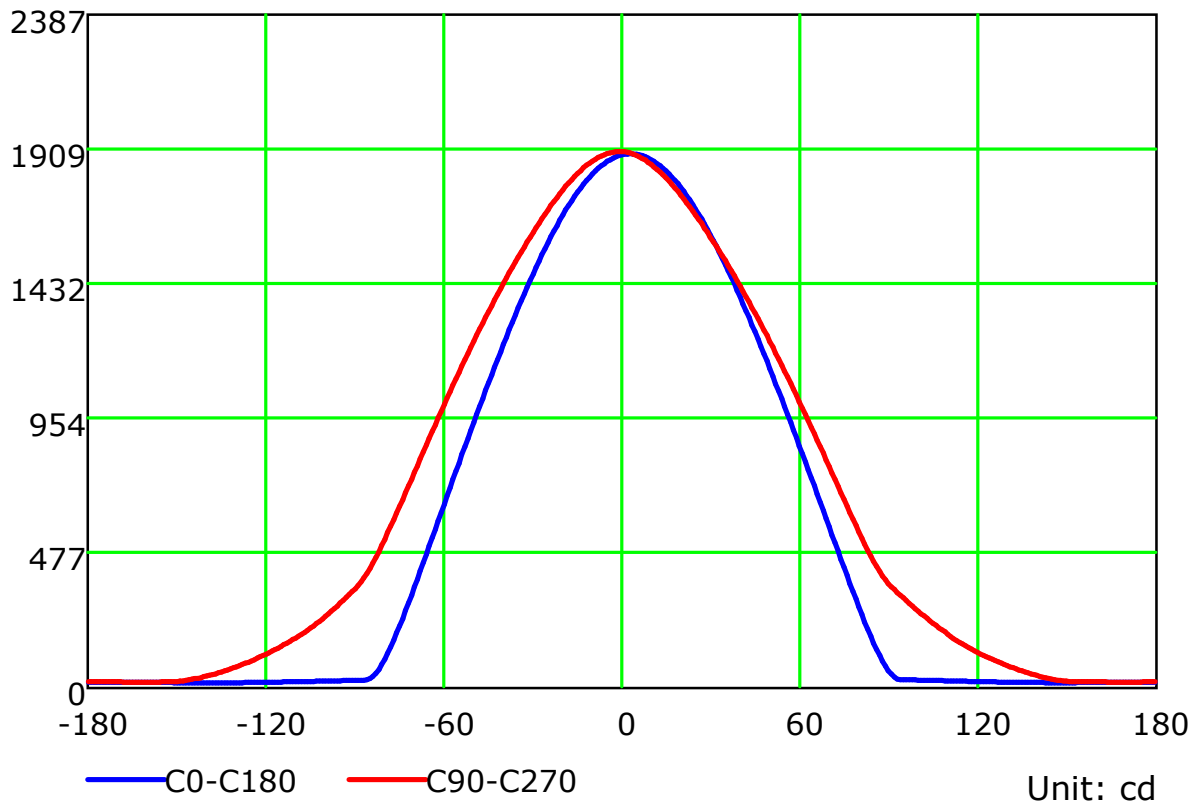
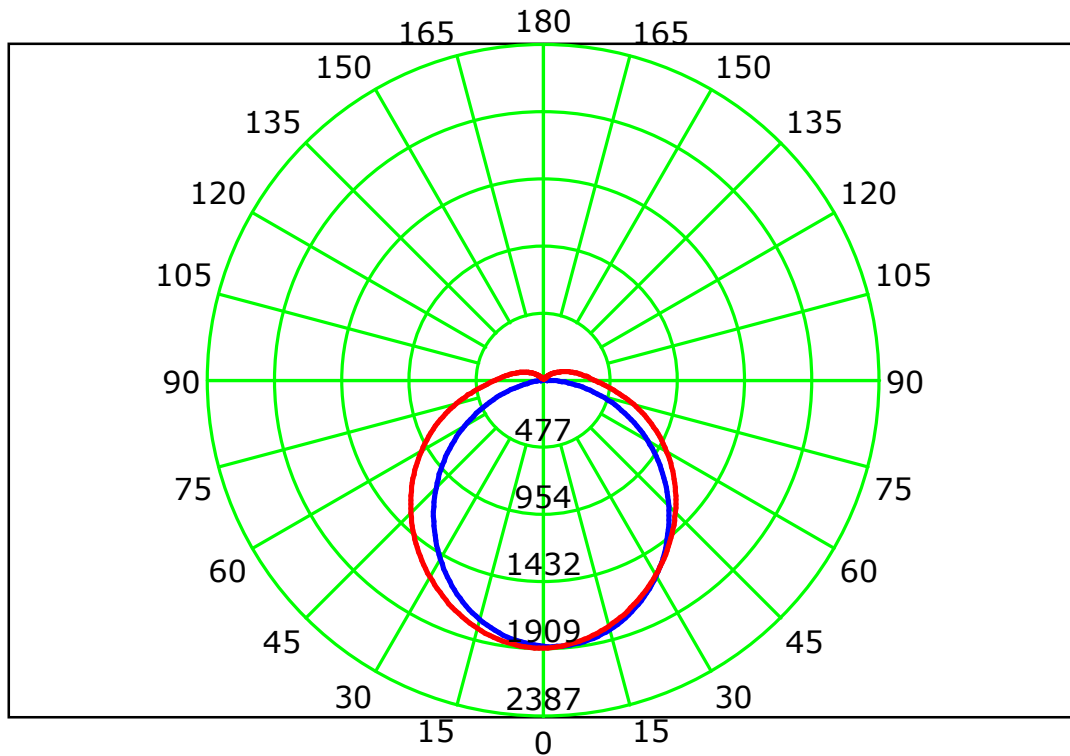
Humidity: 45-75

Inspector:

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Luminous Intensity Distribution Curve



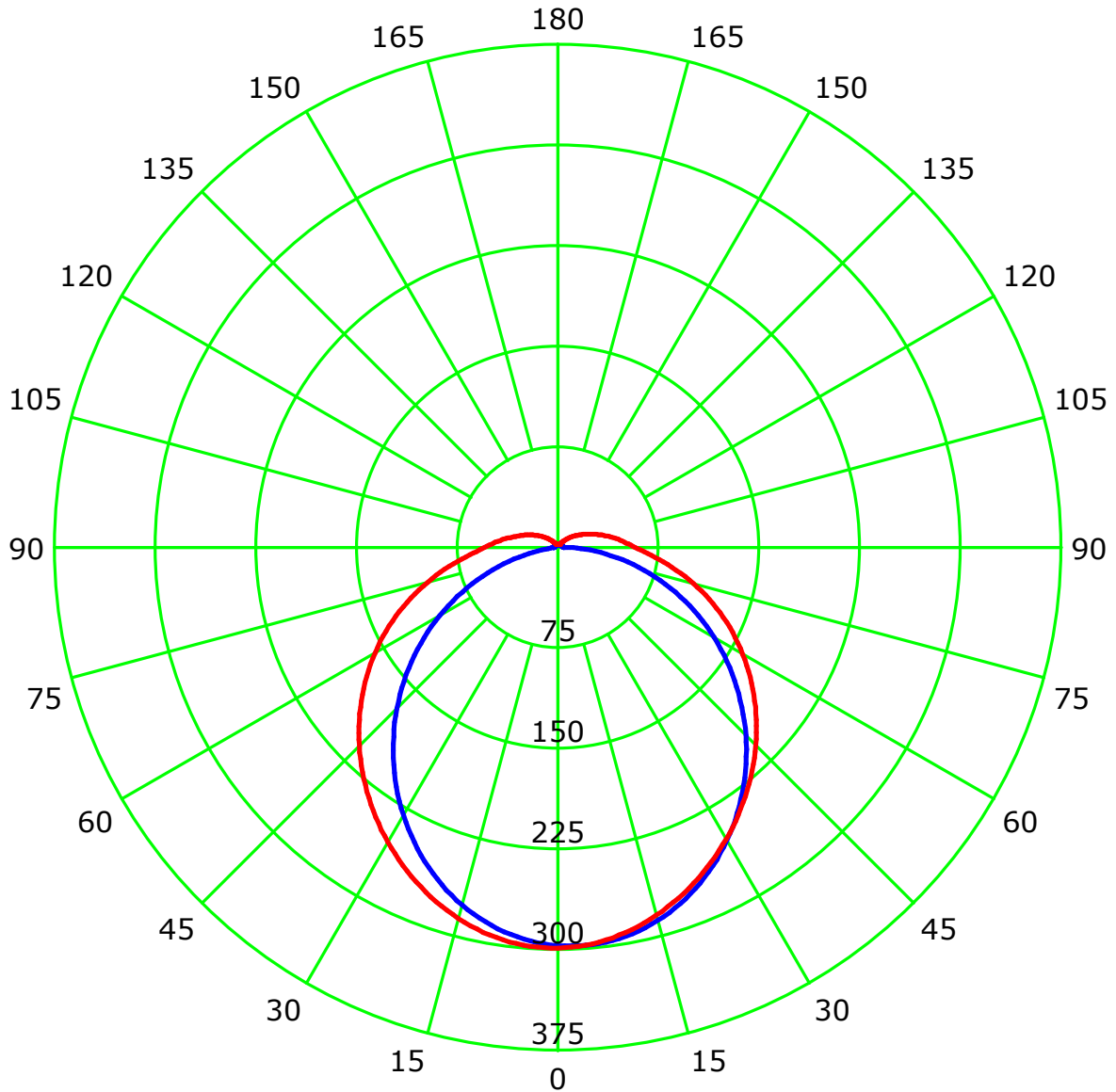
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Luminous Intensity Distribution Curve(cd/klm)



cd/klm
— C0-C180
— C90-C270

$\eta=100\%$
2835/3C1500S54D/2835/5000K

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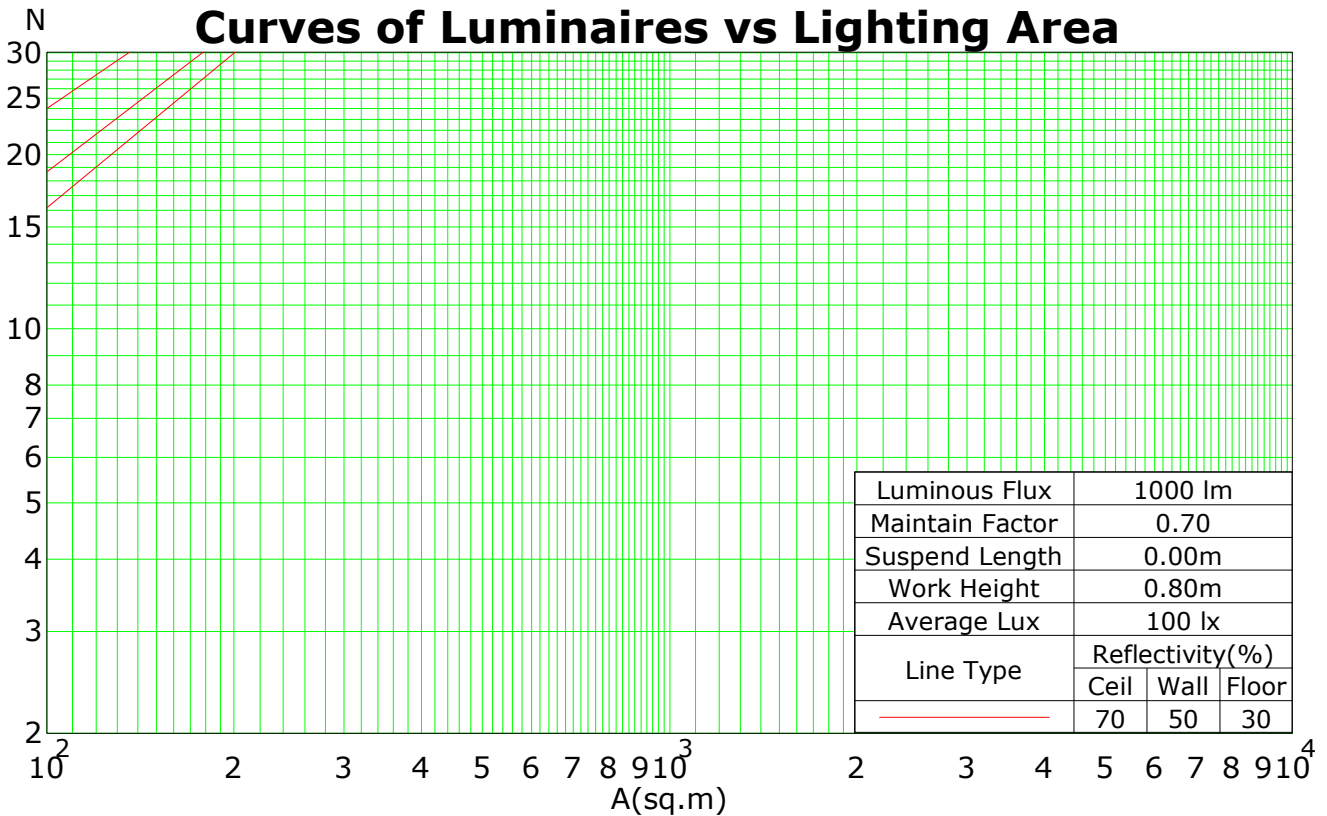
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Coefficients Of Utilization - Zonal Cavity Method

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	92	88	91	87	84	86	83	80	81	78	76	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	65	70	66	63	60
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	61	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	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	38	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

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



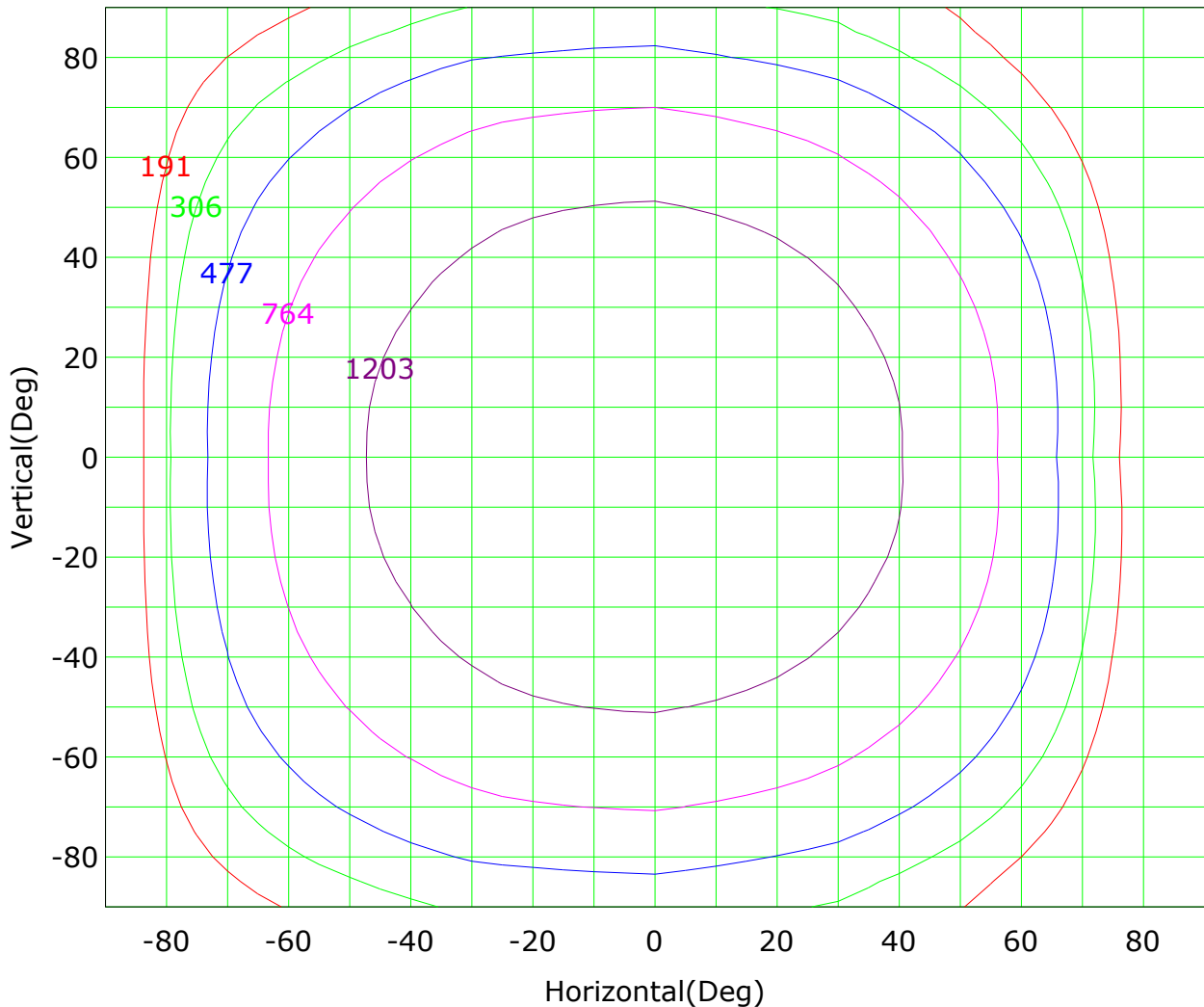
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Isocandela (rectangle)



Imax (100%): 1910 cd

(10%): 191 cd	(16%): 306 cd
(25%): 477 cd	(40%): 764 cd
(63%): 1203 cd	(100%): 1910 cd

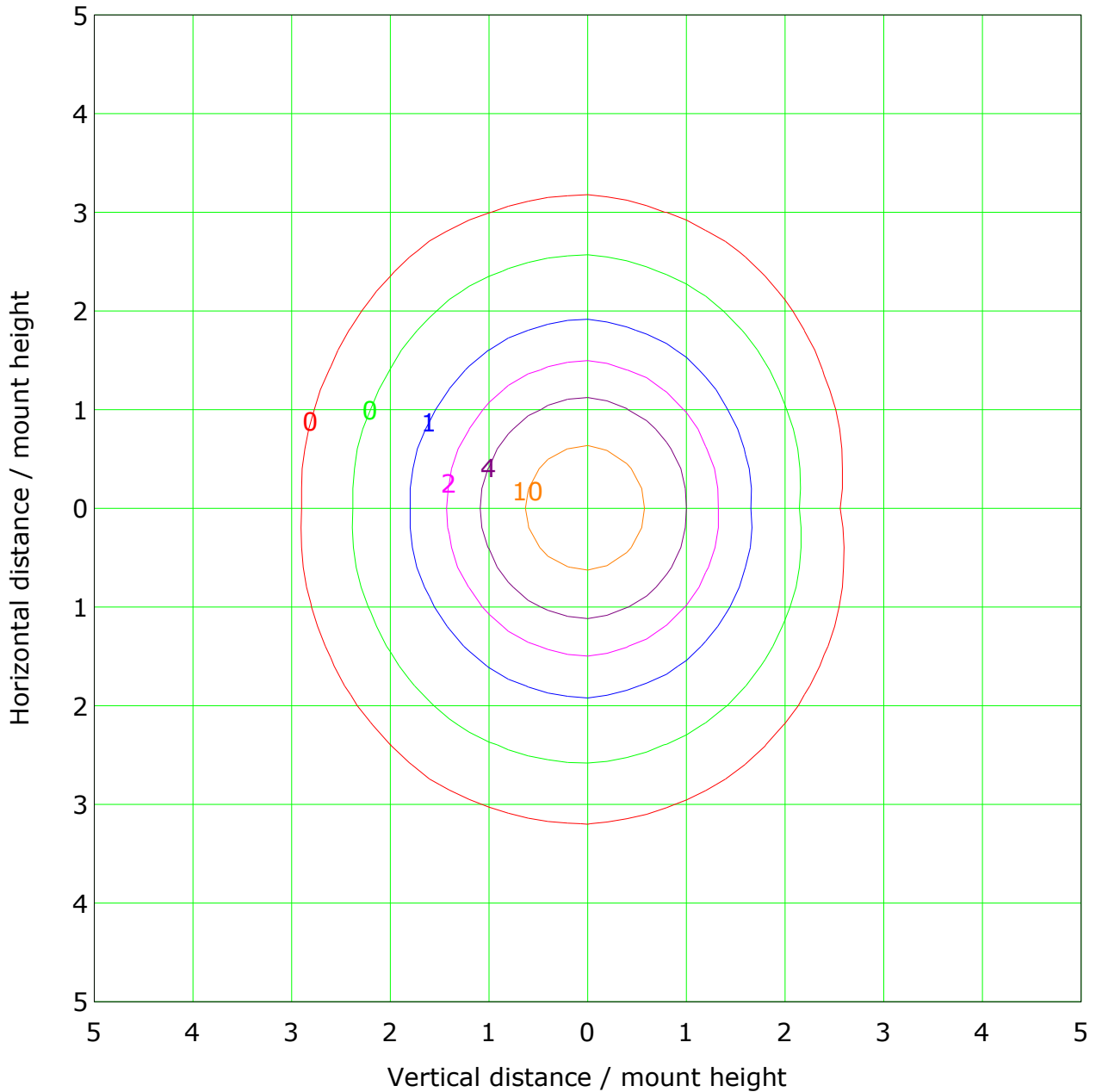
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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 19.1 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%):	19.1 lx		

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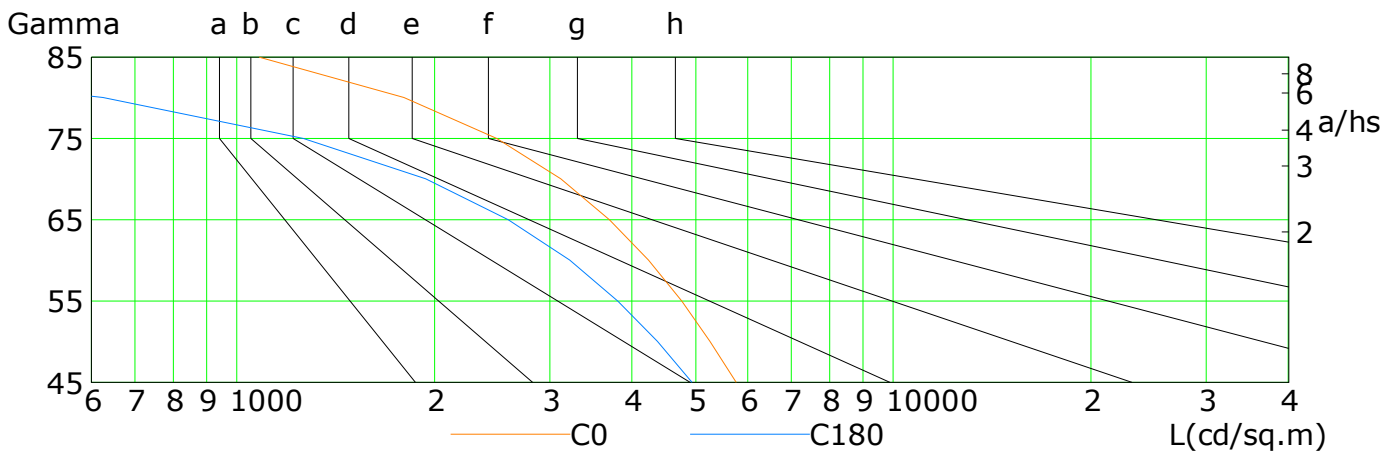
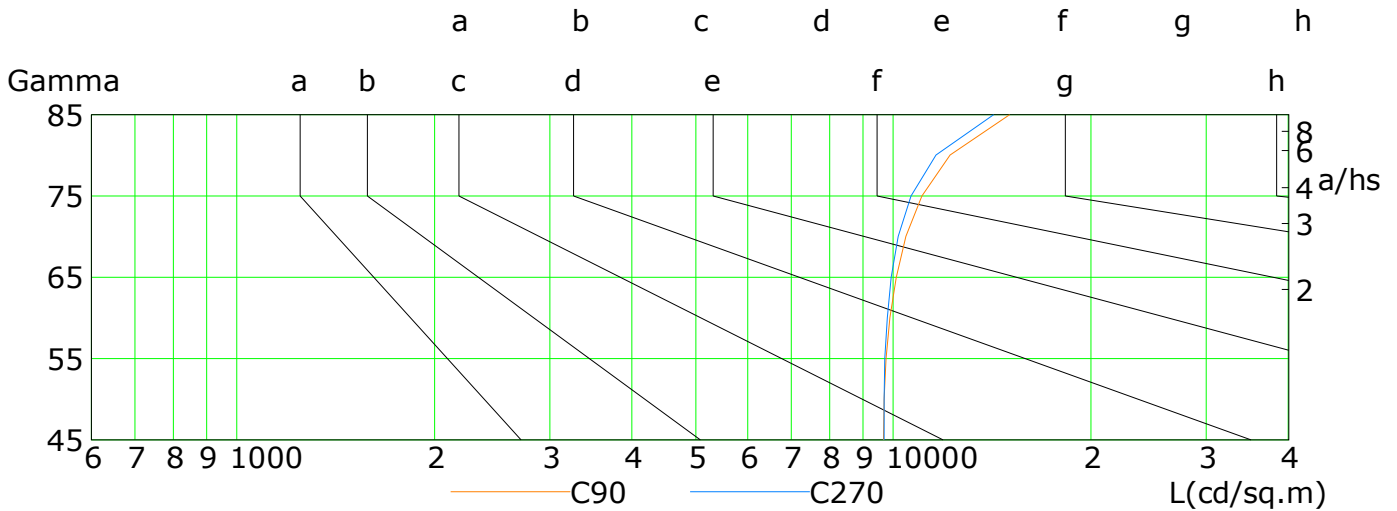
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Lum Limit Curve

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5765	5261	4760	4238	3696	3113	2487	1797	1082
C90	9654	9680	9759	9894	10107	10453	11055	12209	15031
C180	4935	4377	3803	3218	2592	1942	1262	625	206
C270	9692	9689	9713	9791	9931	10175	10648	11623	14207

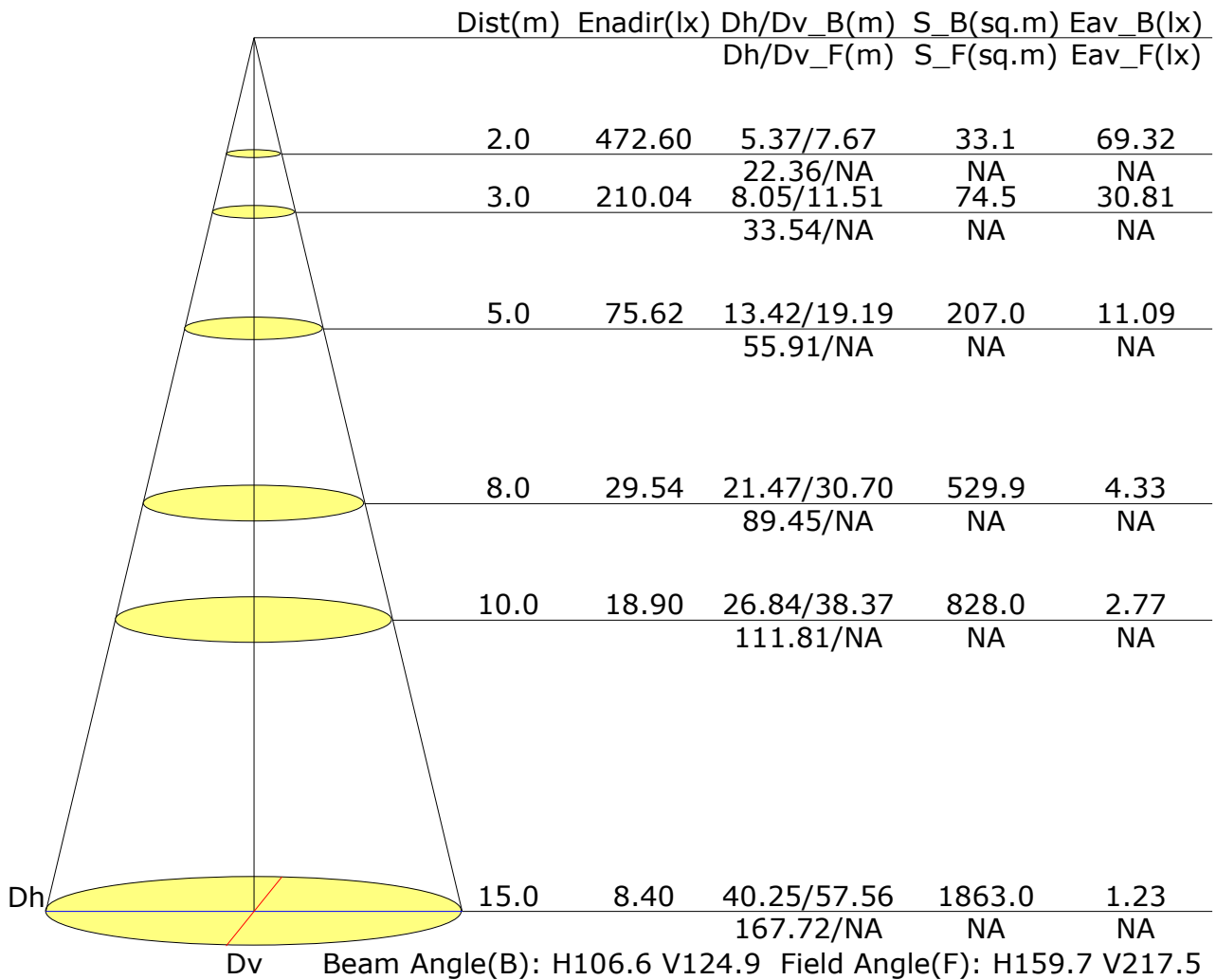
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Illuminance at a Distance



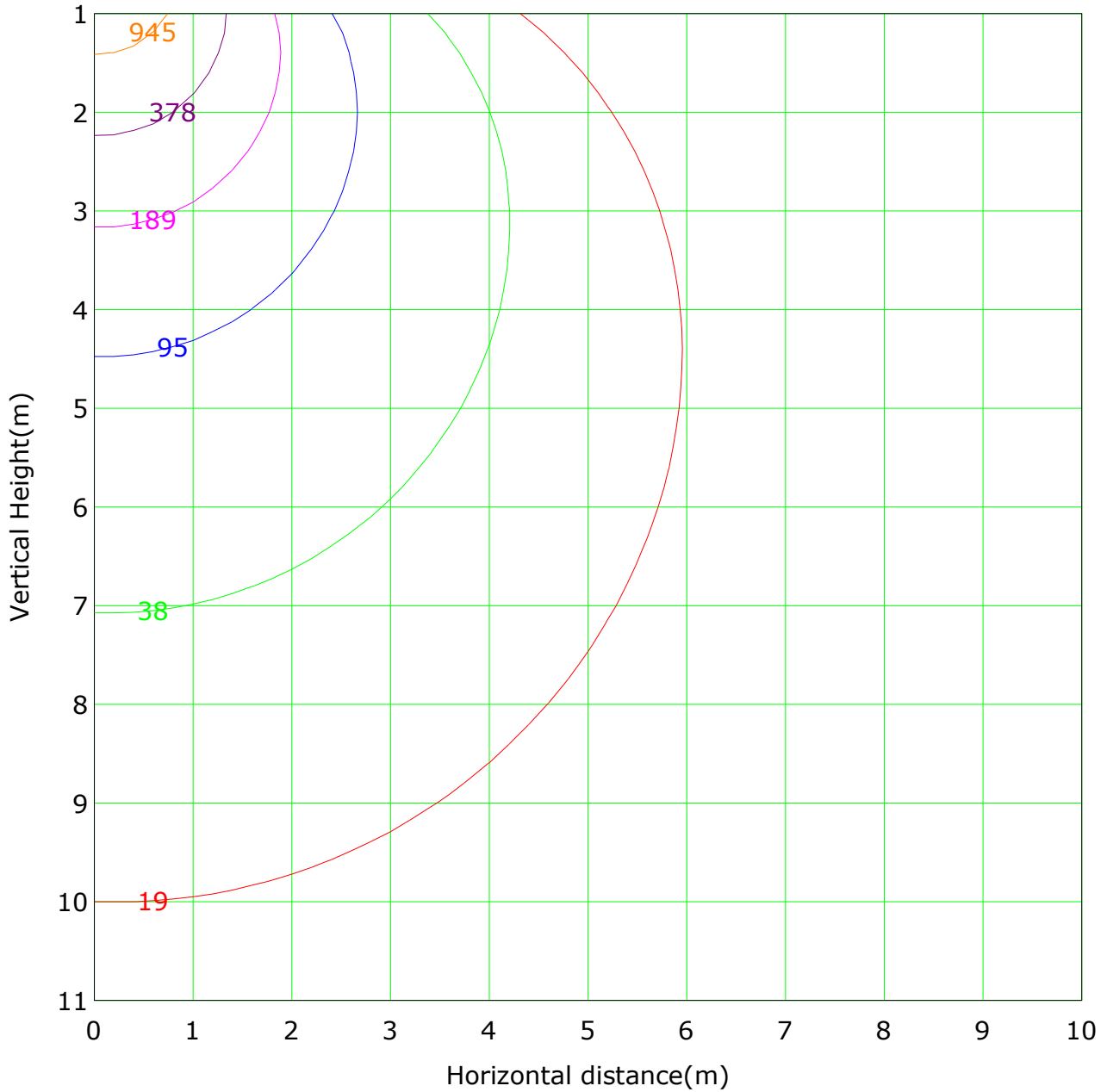
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 Temperature: 25
 Operator: M

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
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 Inspector:

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Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1890.4 lx
— (1%): 18.9 lx — (2%): 37.8 lx
— (5%): 94.5 lx — (10%): 189.0 lx
— (20%): 378.1 lx — (50%): 945.2 lx
— (100%):1890.4 lx

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Area Flux Table

Unit: lm

Vertical plane		Horizontal plane																			
Flux(E)	Flux(T)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
0.1	2.7	0.1	0.7	1.6	3.1	5.1	7.4	9.6	11.2	12.5	12.8	12.0	10.8	8.9	6.5	4.2	2.4	1.1	0.2	110.2	103.0
0.1	24.7	0.1	0.7	2.1	4.4	7.5	11.0	14.3	16.9	18.9	19.3	18.2	16.2	13.2	9.6	6.2	3.5	1.5	0.3	163.9	160.2
0.1	0.7	0.1	0.9	2.9	6.2	10.6	15.4	20.0	23.6	26.1	26.6	25.0	22.2	17.9	13.0	8.4	4.6	1.9	0.3	225.9	223.8
0.1	1.8	0.1	1.1	3.9	8.1	13.7	19.8	25.6	30.1	33.1	33.7	31.7	28.0	22.5	16.4	10.6	5.8	2.3	0.4	287.1	285.7
0.1	82.1	0.1	1.4	4.8	10.0	16.6	23.9	30.8	36.2	39.6	40.2	37.9	33.4	26.8	19.6	12.7	6.9	2.7	0.4	343.8	342.8
0.2	168.0	0.2	1.6	5.6	11.6	19.1	27.4	35.3	41.6	45.5	46.1	43.5	38.1	30.6	22.3	14.5	7.8	3.0	0.5	394.3	393.5
0.2	75.1	0.2	1.8	6.2	12.9	21.2	30.3	39.1	46.2	50.5	51.3	48.3	42.1	33.8	24.7	16.0	8.6	3.3	0.5	436.8	436.1
0.2	1.9	0.2	1.9	6.5	13.8	22.7	32.5	41.9	49.6	54.3	55.2	52.0	45.2	36.1	26.3	17.0	9.1	3.4	0.5	468.2	467.5
0.1	1.9	0.1	1.9	6.6	14.0	23.3	33.5	43.4	51.4	56.4	57.3	53.7	46.6	37.3	27.1	17.4	9.3	3.5	0.5	483.6	482.9
0.1	1.9	0.1	1.9	6.7	14.1	23.4	33.6	43.4	51.5	56.4	56.9	53.4	46.5	37.2	27.1	17.4	9.3	3.5	0.5	483.0	482.3
0.2	1.9	0.2	1.9	6.6	13.9	22.9	32.7	42.0	49.6	54.0	54.7	51.4	44.8	36.0	26.3	17.0	9.1	3.5	0.5	467.0	466.3
0.2	1.8	0.2	1.8	6.3	13.2	21.6	30.6	39.2	46.0	50.1	50.7	47.8	41.8	33.6	24.7	16.1	8.7	3.3	0.5	436.1	435.4
0.2	1.7	0.2	1.7	5.8	12.0	19.6	27.7	35.4	41.5	45.1	45.7	43.2	37.9	30.6	22.5	14.7	8.0	3.1	0.5	395.2	394.4
0.2	1.5	0.2	1.5	5.0	10.4	17.1	24.3	31.0	36.3	39.5	40.1	37.8	33.4	27.0	19.9	13.0	7.1	2.8	0.5	346.8	345.8
0.1	1.2	0.1	1.2	4.1	8.7	14.3	20.4	26.1	30.5	33.3	33.8	31.9	28.3	22.9	16.9	11.0	6.1	2.4	0.4	292.3	291.1
0.1	1.0	0.1	1.0	3.2	6.8	11.2	16.1	20.7	24.2	26.6	27.1	25.5	22.7	18.5	13.6	8.9	4.9	2.0	0.4	233.5	231.6
0.1	0.8	0.1	0.8	2.4	4.9	8.1	11.7	15.1	17.7	19.6	20.0	18.9	16.9	13.8	10.2	6.7	3.8	1.6	0.3	172.8	169.8
0.1	0.7	0.1	0.7	1.8	3.4	5.6	8.0	10.2	11.9	13.2	13.5	12.7	11.5	9.5	7.0	4.7	2.7	1.2	0.3	118.1	112.1
2.7	24.7	2.7	24.7	82.1	171.5	283.6	406.4	523.2	615.9	674.7	684.9	644.9	566.2	456.1	333.6	216.6	117.7	45.8	7.6	585.8	
0.0	13.7	0.0	13.7	75.1	168.0	283.5	406.4	523.2	615.9	674.7	684.9	644.9	566.2	456.1	333.6	216.6	115.9	42.0	3.4	582.4	

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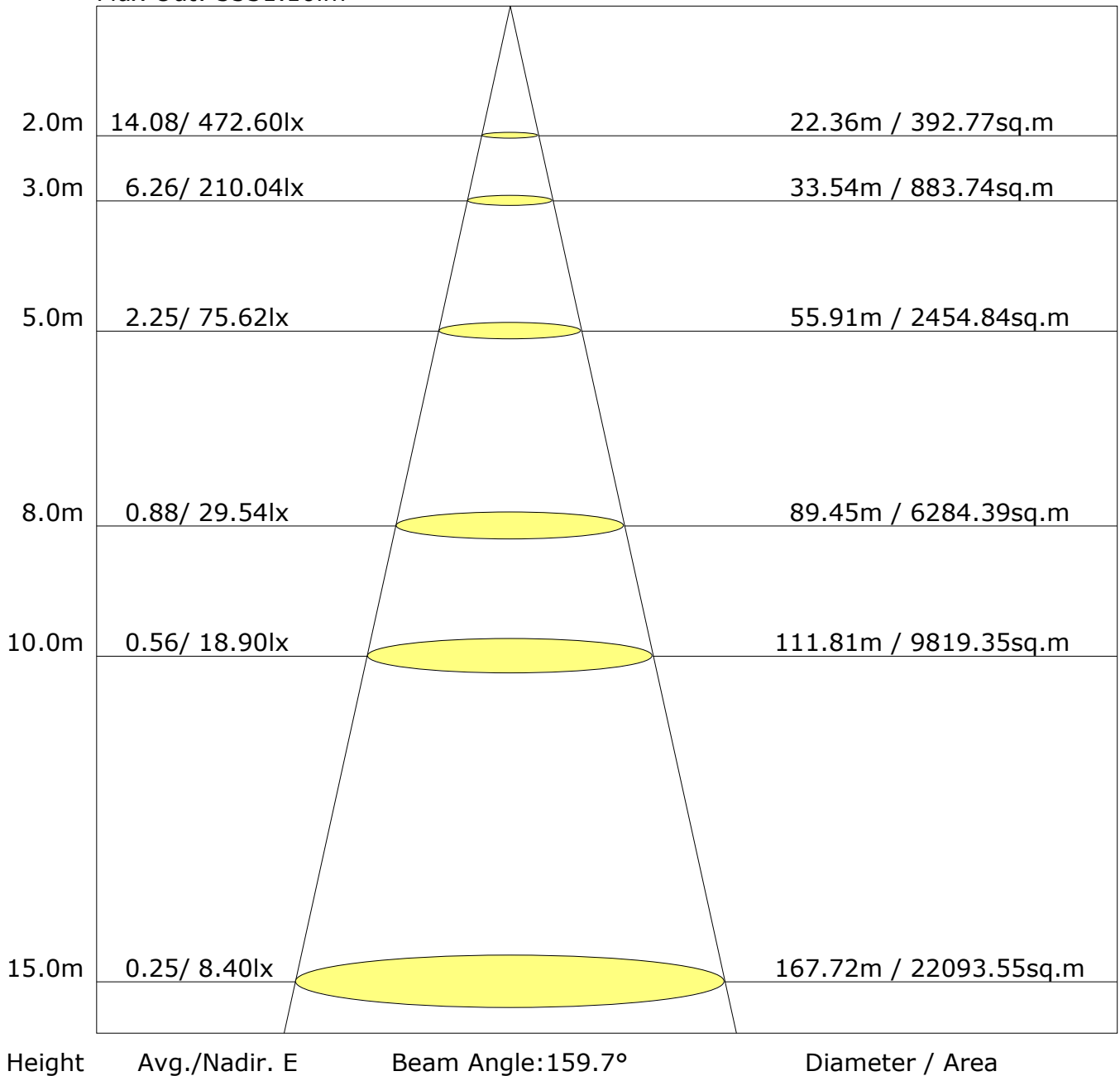
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The Average Illuminance Effective Figure

Flux Out: 5531.10lm



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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	11.6	13.2	12.1	13.6	14.1	11.0	12.5	11.5	13.0	13.5
3H	13.6	15.0	14.1	15.4	16.0	13.0	14.4	13.5	14.9	15.4
4H	14.4	15.7	14.9	16.2	16.7	13.9	15.2	14.4	15.7	16.2
6H	15.0	16.2	15.5	16.7	17.3	14.6	15.8	15.1	16.3	16.9
8H	15.2	16.4	15.7	16.9	17.5	14.9	16.1	15.5	16.6	17.2
12H	15.4	16.5	15.9	17.0	17.6	15.2	16.4	15.8	16.9	17.5
X=4H Y=2H	12.2	13.5	12.7	14.0	14.5	11.6	12.9	12.1	13.4	14.0
3H	14.3	15.4	14.8	16.0	16.5	13.8	15.0	14.4	15.5	16.1
4H	15.2	16.2	15.8	16.8	17.4	14.8	15.9	15.4	16.4	17.0
6H	16.0	16.9	16.5	17.4	18.1	15.8	16.7	16.3	17.2	17.9
8H	16.3	17.1	16.8	17.7	18.3	16.2	17.0	16.7	17.6	18.2
12H	16.5	17.3	17.1	17.9	18.5	16.5	17.3	17.1	17.9	18.6
X=8H Y=4H	15.5	16.4	16.1	17.0	17.6	15.2	16.0	15.7	16.6	17.2
6H	16.4	17.1	17.0	17.8	18.4	16.2	17.0	16.8	17.6	18.2
8H	16.8	17.5	17.4	18.1	18.7	16.8	17.4	17.4	18.0	18.7
12H	17.1	17.7	17.8	18.3	19.1	17.3	17.9	17.9	18.5	19.2
X=12H Y=4H	15.6	16.4	16.2	17.0	17.6	15.2	16.0	15.8	16.6	17.2
6H	16.5	17.2	17.2	17.8	18.5	16.3	17.0	17.0	17.6	18.3
8H	17.0	17.5	17.6	18.2	18.9	16.9	17.5	17.5	18.1	18.8

Calculate in accordance with CIE 190:2010

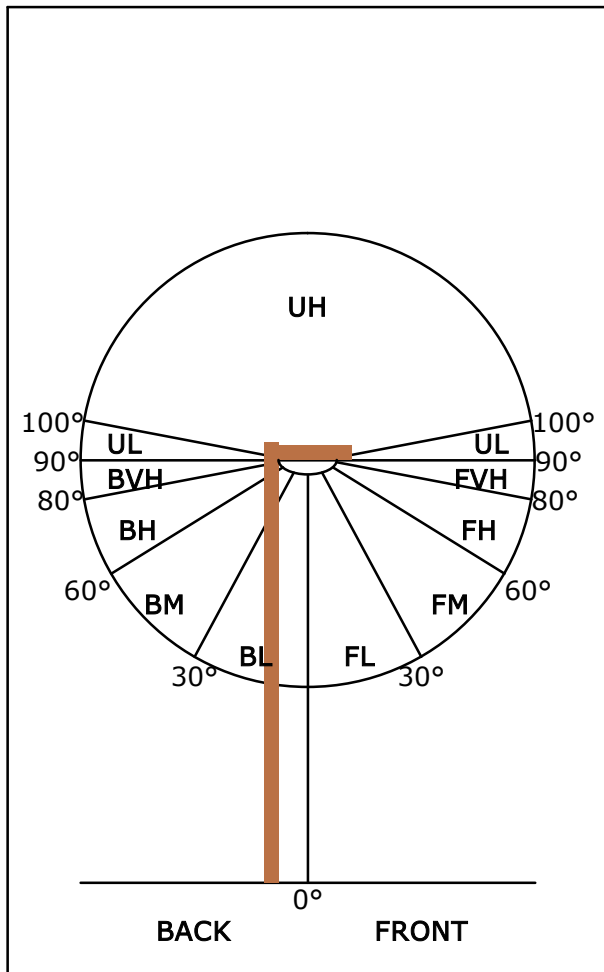
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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2945	46.3
FL (0°-30°)	726	11.4
FM (30°-60°)	1397	22.0
FH (60°-80°)	655	10.3
FVH (80°-90°)	166	2.6
BACK LIGHT	2914	45.8
BL (0°-30°)	730	11.5
BM (30°-60°)	1395	21.9
BH (60°-80°)	634	10.0
BVH (80°-90°)	155	2.4
UP LIGHT	500	7.9
UL (90°-100°)	199	3.1
UH (100°-180°)	301	4.7
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	0.55	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.99	
		0.30	0.47	0.55	0.63	0.68	0.76	0.81	0.85	0.91	0.95	
		0.20	0.42	0.49	0.57	0.62	0.70	0.76	0.81	0.87	0.91	
0.50	0.50	0.20	0.53	0.60	0.67	0.72	0.78	0.83	0.86	0.90	0.93	
		0.30	0.46	0.53	0.60	0.65	0.73	0.78	0.81	0.86	0.90	
		0.20	0.41	0.48	0.55	0.60	0.68	0.73	0.77	0.83	0.87	
0.30	0.50	0.20	0.51	0.57	0.64	0.68	0.74	0.78	0.81	0.85	0.88	
		0.30	0.45	0.52	0.58	0.63	0.69	0.74	0.77	0.82	0.85	
		0.20	0.40	0.47	0.54	0.59	0.65	0.70	0.74	0.79	0.83	
0.00	0.00	0.00	0.37	0.43	0.50	0.54	0.61	0.65	0.69	0.73	0.76	
<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	0.98	0.84	0.72	0.63	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	0.22
0.50	0.50	0.20	0.93	0.79	0.68	0.60	0.49	0.44	0.36	0.28	0.23
	0.30		0.78	0.69	0.60	0.54	0.44	0.38	0.33	0.27	0.22
	0.20		0.68	0.61	0.54	0.49	0.41	0.35	0.31	0.25	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		0.75	0.66	0.58	0.51	0.42	0.36	0.32	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	0.49	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
 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	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29
	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	0.16	0.18	0.20	0.21	0.23	0.24
0.50	0.50	0.20	0.23	0.24	0.25	0.26	0.27	0.27	0.28	0.28	0.28
	0.30		0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26
	0.20		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.30	0.50	0.20	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.27	0.27
	0.30		0.16	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25
	0.20		0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.22
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
 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	1899.4	1.8	1.8	0.03	0.03
1.0-2.0	1898.6	5.5	7.3	0.09	0.11
2.0-3.0	1896.9	9.1	16.3	0.14	0.26
3.0-4.0	1894.4	12.7	29.0	0.20	0.46
4.0-5.0	1891.0	16.3	45.3	0.26	0.71
5.0-6.0	1886.9	19.8	65.1	0.31	1.02
6.0-7.0	1881.9	23.4	88.5	0.37	1.39
7.0-8.0	1876.1	26.9	115.3	0.42	1.81
8.0-9.0	1869.6	30.3	145.6	0.48	2.29
9.0-10.0	1862.2	33.7	179.4	0.53	2.82
10.0-11.0	1854.2	37.1	216.4	0.58	3.40
11.0-12.0	1845.3	40.3	256.7	0.63	4.04
12.0-13.0	1835.8	43.6	300.3	0.69	4.72
13.0-14.0	1825.6	46.7	347.1	0.73	5.46
14.0-15.0	1814.7	49.8	396.9	0.78	6.24
15.0-16.0	1803.1	52.8	449.7	0.83	7.07
16.0-17.0	1790.9	55.8	505.5	0.88	7.95
17.0-18.0	1778.1	58.6	564.1	0.92	8.87
18.0-19.0	1764.7	61.4	625.5	0.97	9.84
19.0-20.0	1750.6	64.1	689.6	1.01	10.84
20.0-21.0	1736.0	66.7	756.3	1.05	11.89
21.0-22.0	1720.8	69.2	825.4	1.09	12.98
22.0-23.0	1705.2	71.6	897.0	1.13	14.11
23.0-24.0	1689.0	73.9	970.9	1.16	15.27
24.0-25.0	1672.2	76.0	1046.9	1.20	16.46
25.0-26.0	1655.1	78.1	1125.0	1.23	17.69
26.0-27.0	1637.5	80.1	1205.2	1.26	18.95
27.0-28.0	1619.5	82.0	1287.2	1.29	20.24
28.0-29.0	1601.1	83.8	1371.0	1.32	21.56
29.0-30.0	1582.2	85.4	1456.4	1.34	22.90
30.0-31.0	1563.1	87.0	1543.4	1.37	24.27
31.0-32.0	1543.6	88.4	1631.8	1.39	25.66
32.0-33.0	1523.6	89.8	1721.6	1.41	27.07
33.0-34.0	1503.4	91.0	1812.6	1.43	28.50
34.0-35.0	1482.8	92.1	1904.7	1.45	29.95
35.0-36.0	1462.0	93.1	1997.8	1.46	31.42

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	1441.1	94.0	2091.8	1.48	32.89
37.0-38.0	1419.7	94.8	2186.6	1.49	34.38
38.0-39.0	1398.0	95.4	2282.0	1.50	35.89
39.0-40.0	1376.1	96.0	2378.0	1.51	37.39
40.0-41.0	1353.9	96.4	2474.4	1.52	38.91
41.0-42.0	1331.4	96.7	2571.2	1.52	40.43
42.0-43.0	1308.9	97.0	2668.1	1.52	41.96
43.0-44.0	1286.1	97.1	2765.2	1.53	43.48
44.0-45.0	1263.0	97.1	2862.3	1.53	45.01
45.0-46.0	1239.7	97.0	2959.3	1.52	46.54
46.0-47.0	1216.4	96.8	3056.0	1.52	48.06
47.0-48.0	1192.7	96.4	3152.4	1.52	49.57
48.0-49.0	1168.9	96.0	3248.5	1.51	51.08
49.0-50.0	1145.1	95.5	3343.9	1.50	52.58
50.0-51.0	1121.0	94.9	3438.8	1.49	54.08
51.0-52.0	1096.7	94.1	3532.9	1.48	55.56
52.0-53.0	1072.4	93.3	3626.2	1.47	57.02
53.0-54.0	1048.0	92.4	3718.6	1.45	58.48
54.0-55.0	1023.4	91.4	3810.0	1.44	59.91
55.0-56.0	998.7	90.3	3900.2	1.42	61.33
56.0-57.0	973.9	89.1	3989.3	1.40	62.73
57.0-58.0	949.0	87.8	4077.0	1.38	64.11
58.0-59.0	923.9	86.4	4163.4	1.36	65.47
59.0-60.0	898.8	84.9	4248.3	1.34	66.81
60.0-61.0	873.6	83.4	4331.7	1.31	68.12
61.0-62.0	848.3	81.7	4413.5	1.29	69.40
62.0-63.0	822.9	80.0	4493.5	1.26	70.66
63.0-64.0	797.7	78.3	4571.8	1.23	71.89
64.0-65.0	772.3	76.4	4648.3	1.20	73.10
65.0-66.0	746.9	74.5	4722.8	1.17	74.27
66.0-67.0	721.3	72.5	4795.3	1.14	75.41
67.0-68.0	695.7	70.5	4865.8	1.11	76.52
68.0-69.0	670.3	68.4	4934.2	1.08	77.59
69.0-70.0	644.9	66.2	5000.4	1.04	78.63
70.0-71.0	619.5	64.0	5064.5	1.01	79.64
71.0-72.0	594.4	61.8	5126.3	0.97	80.61

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	569.3	59.5	5185.8	0.94	81.55
73.0-74.0	544.4	57.2	5243.1	0.90	82.45
74.0-75.0	519.7	54.9	5298.0	0.86	83.31
75.0-76.0	495.2	52.6	5350.6	0.83	84.14
76.0-77.0	471.0	50.2	5400.8	0.79	84.93
77.0-78.0	447.2	47.9	5448.7	0.75	85.68
78.0-79.0	423.9	45.5	5494.2	0.72	86.40
79.0-80.0	400.9	43.2	5537.4	0.68	87.08
80.0-81.0	378.5	40.9	5578.4	0.64	87.72
81.0-82.0	357.0	38.7	5617.1	0.61	88.33
82.0-83.0	336.3	36.6	5653.7	0.57	88.91
83.0-84.0	316.6	34.5	5688.1	0.54	89.45
84.0-85.0	298.0	32.5	5720.7	0.51	89.96
85.0-86.0	280.9	30.7	5751.4	0.48	90.44
86.0-87.0	265.3	29.0	5780.4	0.46	90.90
87.0-88.0	251.1	27.5	5807.9	0.43	91.33
88.0-89.0	238.3	26.1	5834.1	0.41	91.74
89.0-90.0	226.9	24.9	5858.9	0.39	92.13
90.0-91.0	216.5	23.7	5882.7	0.37	92.51
91.0-92.0	207.3	22.7	5905.4	0.36	92.86
92.0-93.0	198.9	21.8	5927.2	0.34	93.21
93.0-94.0	191.3	20.9	5948.1	0.33	93.54
94.0-95.0	184.2	20.1	5968.3	0.32	93.85
95.0-96.0	177.4	19.4	5987.6	0.30	94.16
96.0-97.0	170.8	18.6	6006.2	0.29	94.45
97.0-98.0	164.3	17.9	6024.1	0.28	94.73
98.0-99.0	158.1	17.1	6041.3	0.27	95.00
99.0-100.0	152.0	16.4	6057.7	0.26	95.26
100.0-101.0	146.1	15.8	6073.5	0.25	95.51
101.0-102.0	140.4	15.1	6088.5	0.24	95.74
102.0-103.0	134.6	14.4	6103.0	0.23	95.97
103.0-104.0	128.9	13.8	6116.7	0.22	96.19
104.0-105.0	123.5	13.1	6129.8	0.21	96.39
105.0-106.0	118.0	12.5	6142.3	0.20	96.59
106.0-107.0	112.5	11.8	6154.1	0.19	96.78
107.0-108.0	107.4	11.2	6165.3	0.18	96.95

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	102.5	10.7	6176.0	0.17	97.12
109.0-110.0	97.9	10.1	6186.1	0.16	97.28
110.0-111.0	93.5	9.6	6195.7	0.15	97.43
111.0-112.0	89.3	9.1	6204.8	0.14	97.57
112.0-113.0	85.6	8.7	6213.5	0.14	97.71
113.0-114.0	82.0	8.2	6221.8	0.13	97.84
114.0-115.0	78.6	7.8	6229.6	0.12	97.96
115.0-116.0	75.3	7.5	6237.1	0.12	98.08
116.0-117.0	72.2	7.1	6244.1	0.11	98.19
117.0-118.0	69.2	6.7	6250.9	0.11	98.30
118.0-119.0	66.3	6.4	6257.3	0.10	98.40
119.0-120.0	63.4	6.1	6263.3	0.10	98.49
120.0-121.0	60.7	5.7	6269.0	0.09	98.58
121.0-122.0	58.0	5.4	6274.5	0.09	98.67
122.0-123.0	55.4	5.1	6279.6	0.08	98.75
123.0-124.0	52.8	4.8	6284.4	0.08	98.82
124.0-125.0	50.4	4.6	6289.0	0.07	98.90
125.0-126.0	48.0	4.3	6293.3	0.07	98.96
126.0-127.0	45.7	4.0	6297.3	0.06	99.03
127.0-128.0	43.5	3.8	6301.1	0.06	99.09
128.0-129.0	41.4	3.6	6304.6	0.06	99.14
129.0-130.0	39.4	3.3	6308.0	0.05	99.20
130.0-131.0	37.6	3.1	6311.1	0.05	99.24
131.0-132.0	35.8	2.9	6314.0	0.05	99.29
132.0-133.0	34.1	2.8	6316.8	0.04	99.33
133.0-134.0	32.5	2.6	6319.4	0.04	99.37
134.0-135.0	31.0	2.4	6321.8	0.04	99.41
135.0-136.0	29.5	2.3	6324.1	0.04	99.45
136.0-137.0	28.2	2.1	6326.2	0.03	99.48
137.0-138.0	26.9	2.0	6328.2	0.03	99.51
138.0-139.0	25.7	1.9	6330.1	0.03	99.54
139.0-140.0	24.6	1.7	6331.8	0.03	99.57
140.0-141.0	23.5	1.6	6333.4	0.03	99.60
141.0-142.0	22.5	1.5	6335.0	0.02	99.62
142.0-143.0	21.5	1.4	6336.4	0.02	99.64
143.0-144.0	20.7	1.3	6337.8	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	19.9	1.3	6339.0	0.02	99.68
145.0-146.0	19.2	1.2	6340.2	0.02	99.70
146.0-147.0	18.6	1.1	6341.3	0.02	99.72
147.0-148.0	18.2	1.1	6342.4	0.02	99.74
148.0-149.0	17.8	1.0	6343.4	0.02	99.75
149.0-150.0	17.6	1.0	6344.4	0.02	99.77
150.0-151.0	17.4	0.9	6345.4	0.01	99.78
151.0-152.0	17.3	0.9	6346.3	0.01	99.80
152.0-153.0	17.3	0.9	6347.1	0.01	99.81
153.0-154.0	17.3	0.8	6348.0	0.01	99.82
154.0-155.0	17.3	0.8	6348.8	0.01	99.84
155.0-156.0	17.3	0.8	6349.6	0.01	99.85
156.0-157.0	17.4	0.8	6350.3	0.01	99.86
157.0-158.0	17.4	0.7	6351.1	0.01	99.87
158.0-159.0	17.4	0.7	6351.8	0.01	99.88
159.0-160.0	17.5	0.7	6352.4	0.01	99.89
160.0-161.0	17.5	0.6	6353.1	0.01	99.90
161.0-162.0	17.6	0.6	6353.7	0.01	99.91
162.0-163.0	17.6	0.6	6354.3	0.01	99.92
163.0-164.0	17.6	0.5	6354.8	0.01	99.93
164.0-165.0	17.7	0.5	6355.3	0.01	99.94
165.0-166.0	17.7	0.5	6355.8	0.01	99.95
166.0-167.0	17.7	0.5	6356.3	0.01	99.95
167.0-168.0	17.8	0.4	6356.7	0.01	99.96
168.0-169.0	17.8	0.4	6357.1	0.01	99.97
169.0-170.0	17.8	0.4	6357.5	0.01	99.97
170.0-171.0	17.8	0.3	6357.8	0.01	99.98
171.0-172.0	17.9	0.3	6358.1	0.00	99.98
172.0-173.0	17.9	0.3	6358.3	0.00	99.99
173.0-174.0	17.9	0.2	6358.5	0.00	99.99
174.0-175.0	17.9	0.2	6358.7	0.00	99.99
175.0-176.0	17.9	0.2	6358.9	0.00	100.00
176.0-177.0	17.9	0.1	6359.0	0.00	100.00
177.0-178.0	18.0	0.1	6359.1	0.00	100.00
178.0-179.0	18.0	0.1	6359.1	0.00	100.00
179.0-180.0	18.0	0.0	6359.2	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	1890.4	1895.0	1899.3	1902.4	1904.7	1905.9	1890.4	1895.0	1899.3	1902.4
G1.0	1892.6	1896.5	1899.8	1901.4	1902.3	1902.9	1887.4	1892.6	1898.2	1902.7
G2.0	1893.8	1897.2	1899.3	1899.4	1899.2	1899.1	1883.5	1889.4	1896.1	1902.2
G3.0	1894.2	1897.0	1898.1	1896.7	1895.3	1894.3	1878.9	1885.3	1893.3	1900.8
G4.0	1893.9	1896.1	1896.0	1893.1	1890.4	1888.8	1873.3	1880.4	1889.4	1898.5
G5.0	1892.5	1894.1	1893.1	1888.8	1884.7	1882.3	1866.9	1874.5	1884.9	1895.6
G6.0	1890.4	1891.5	1889.3	1883.7	1878.5	1875.2	1859.5	1867.9	1879.5	1891.7
G7.0	1887.4	1887.8	1884.9	1878.0	1871.2	1867.0	1851.7	1860.8	1873.6	1887.1
G8.0	1883.6	1883.5	1879.7	1871.4	1863.7	1858.5	1842.5	1852.4	1866.3	1881.8
G9.0	1878.8	1878.4	1873.7	1864.2	1855.1	1848.9	1832.7	1843.4	1858.8	1875.7
G10.0	1873.4	1872.3	1866.9	1856.4	1846.0	1838.6	1822.5	1833.5	1850.2	1868.9
G11.0	1867.1	1865.5	1859.5	1848.2	1835.8	1827.5	1811.3	1822.9	1841.6	1861.3
G12.0	1859.8	1857.7	1851.6	1838.8	1825.6	1816.0	1798.7	1811.4	1831.1	1853.1
G13.0	1851.7	1849.5	1842.7	1829.1	1814.2	1803.0	1786.5	1799.7	1821.2	1844.1
G14.0	1843.3	1840.6	1833.3	1819.0	1802.7	1790.7	1773.0	1786.6	1809.6	1834.7
G15.0	1833.5	1830.4	1823.3	1808.2	1790.6	1776.5	1758.2	1773.2	1798.0	1824.7
G16.0	1823.4	1820.0	1813.0	1797.0	1777.9	1762.3	1743.3	1759.0	1785.5	1813.8
G17.0	1812.1	1808.6	1801.2	1784.9	1764.4	1747.0	1727.6	1743.8	1772.8	1802.8
G18.0	1800.4	1797.3	1790.0	1773.0	1750.7	1731.8	1712.0	1728.2	1758.6	1790.8
G19.0	1788.0	1784.2	1777.3	1760.4	1736.2	1715.4	1694.5	1712.3	1744.8	1778.4
G20.0	1774.5	1770.8	1764.7	1747.2	1721.6	1698.8	1676.4	1695.5	1730.1	1765.7
G21.0	1760.5	1757.0	1751.3	1733.9	1706.3	1680.9	1658.5	1678.1	1715.0	1752.7
G22.0	1745.6	1742.3	1737.7	1720.3	1690.6	1663.2	1639.2	1659.8	1699.4	1738.7
G23.0	1730.8	1727.3	1723.4	1706.0	1674.7	1645.0	1619.7	1641.7	1683.4	1725.0
G24.0	1713.9	1711.3	1708.6	1691.5	1658.1	1625.4	1599.7	1622.3	1666.9	1710.1
G25.0	1697.7	1695.4	1693.9	1676.7	1641.8	1606.2	1579.1	1602.8	1650.0	1694.8
G26.0	1680.1	1678.2	1678.6	1661.3	1624.3	1586.4	1557.5	1582.7	1632.2	1679.7
G27.0	1663.0	1661.2	1663.2	1646.2	1606.8	1567.1	1536.1	1562.0	1614.3	1663.6
G28.0	1644.3	1643.0	1646.1	1630.2	1589.1	1545.6	1514.3	1541.3	1596.4	1647.8
G29.0	1625.3	1624.7	1630.0	1614.7	1571.1	1525.1	1491.0	1519.8	1577.9	1631.3
G30.0	1605.6	1606.0	1612.4	1598.2	1552.9	1503.4	1468.4	1497.5	1559.5	1614.7
G31.0	1586.0	1586.8	1596.4	1582.4	1534.4	1482.3	1444.8	1475.2	1539.9	1598.1
G32.0	1565.1	1567.1	1578.2	1565.4	1515.3	1459.8	1420.9	1453.1	1521.0	1581.4
G33.0	1544.7	1546.6	1560.4	1548.7	1496.3	1437.5	1396.6	1429.6	1501.4	1562.8
G34.0	1522.6	1526.1	1542.4	1531.6	1477.1	1414.8	1371.9	1406.9	1481.6	1545.9
G35.0	1500.6	1505.6	1524.1	1514.6	1457.6	1391.7	1346.1	1382.8	1461.4	1527.5
G36.0	1478.1	1484.2	1505.9	1496.9	1437.9	1368.3	1321.8	1359.3	1441.8	1509.9

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 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	1455.8	1462.5	1487.5	1479.0	1418.5	1345.8	1295.9	1335.4	1420.7	1490.8
G38.0	1432.5	1441.0	1468.0	1461.0	1398.4	1321.5	1269.8	1310.9	1399.8	1472.7
G39.0	1409.0	1418.7	1449.2	1442.7	1378.1	1298.1	1243.5	1286.2	1378.8	1452.9
G40.0	1386.2	1395.7	1429.3	1424.2	1358.1	1273.3	1217.6	1261.4	1358.1	1434.0
G41.0	1360.9	1373.3	1409.5	1405.5	1337.5	1249.6	1189.7	1236.4	1335.8	1414.6
G42.0	1336.8	1350.2	1389.5	1386.6	1316.2	1224.4	1163.3	1211.2	1314.7	1394.8
G43.0	1312.9	1327.2	1369.7	1367.8	1295.1	1200.2	1136.2	1186.0	1292.9	1374.4
G44.0	1286.6	1303.5	1349.1	1347.7	1274.3	1175.3	1109.3	1160.9	1271.0	1354.6
G45.0	1262.0	1279.4	1328.3	1328.4	1253.3	1150.6	1080.4	1134.6	1249.3	1333.7
G46.0	1236.2	1255.3	1307.3	1309.0	1231.6	1126.0	1053.1	1109.3	1226.3	1313.8
G47.0	1210.1	1231.5	1286.7	1289.3	1209.8	1100.7	1025.0	1083.9	1204.3	1292.3
G48.0	1183.9	1206.6	1265.4	1268.1	1187.9	1075.4	997.5	1056.9	1181.7	1271.7
G49.0	1158.0	1182.6	1244.4	1248.7	1166.9	1049.9	968.5	1031.4	1158.8	1249.8
G50.0	1130.7	1157.8	1222.8	1227.5	1144.3	1024.6	940.6	1005.3	1135.3	1228.7
G51.0	1104.4	1133.5	1201.4	1207.7	1122.5	999.0	911.4	978.5	1112.2	1206.5
G52.0	1077.4	1108.0	1179.4	1186.2	1099.5	973.5	883.3	952.8	1089.4	1185.4
G53.0	1050.7	1083.9	1157.2	1165.4	1077.4	948.2	854.2	925.9	1065.5	1162.2
G54.0	1023.7	1058.6	1134.7	1143.5	1055.2	922.9	825.7	900.5	1042.8	1140.2
G55.0	996.0	1033.3	1112.7	1122.9	1032.8	897.7	795.8	873.4	1018.6	1117.6
G56.0	967.7	1008.4	1090.1	1100.5	1009.4	871.8	767.7	847.4	995.2	1095.7
G57.0	941.0	983.5	1067.8	1079.7	987.0	846.0	737.8	821.0	971.4	1071.8
G58.0	912.9	957.3	1044.5	1057.7	963.8	820.0	708.4	794.6	947.5	1049.3
G59.0	884.8	932.2	1021.8	1035.3	941.7	794.1	678.9	767.5	923.6	1026.1
G60.0	856.2	906.2	999.6	1013.3	917.1	768.0	650.1	742.4	899.4	1002.8
G61.0	828.0	881.2	976.5	991.0	894.5	742.9	619.8	715.3	874.8	979.8
G62.0	800.2	854.9	952.6	967.8	870.6	716.5	590.9	688.9	851.0	955.5
G63.0	771.7	829.2	929.3	946.2	847.8	691.5	561.0	662.4	826.7	931.7
G64.0	742.6	803.5	905.4	923.0	824.5	665.3	531.3	637.2	803.3	908.2
G65.0	714.2	778.6	882.6	899.7	801.3	640.5	500.9	610.4	778.3	884.0
G66.0	685.8	752.6	858.8	876.9	777.0	614.3	472.7	584.5	754.6	860.5
G67.0	655.5	726.0	835.1	853.1	753.9	588.7	442.5	559.1	729.2	835.8
G68.0	627.2	700.8	811.2	830.8	730.3	564.0	413.3	533.5	704.9	811.6
G69.0	598.0	674.3	787.3	806.8	706.5	539.2	384.2	507.4	681.2	786.7
G70.0	569.6	649.1	763.8	783.2	682.9	514.8	355.3	482.1	657.0	762.4
G71.0	540.3	623.2	739.8	760.1	659.2	489.2	327.2	457.0	632.8	738.5
G72.0	512.5	598.0	716.3	736.9	636.7	465.0	298.8	432.2	608.2	714.0
G73.0	482.6	572.5	691.7	712.7	612.6	440.6	270.9	408.3	585.3	690.1

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	454.3	547.6	668.8	689.6	590.4	416.5	242.9	384.2	561.0	665.3
G75.0	426.2	521.3	644.0	666.2	566.8	392.9	216.3	361.2	538.0	641.7
G76.0	397.0	497.1	621.4	642.9	544.5	369.8	191.1	337.7	514.9	617.8
G77.0	368.0	472.9	596.8	619.2	521.4	346.7	166.8	315.3	492.0	594.1
G78.0	339.9	448.0	574.0	596.9	499.8	325.0	142.4	293.6	469.6	571.2
G79.0	312.1	424.0	550.3	573.6	477.0	303.6	120.4	273.1	447.7	548.0
G80.0	284.7	400.1	527.9	551.2	455.0	282.8	99.0	252.5	425.8	524.8
G81.0	257.1	376.2	504.7	528.7	434.7	262.4	80.2	233.8	405.5	503.4
G82.0	231.3	353.8	482.5	508.1	414.5	243.8	63.3	215.8	385.7	481.2
G83.0	205.1	330.9	460.3	486.2	394.7	225.1	48.9	199.8	367.3	460.7
G84.0	180.3	309.3	439.2	466.0	376.4	209.0	37.4	184.6	349.8	440.7
G85.0	156.0	287.7	418.7	446.2	358.8	193.6	29.8	172.0	334.0	421.8
G86.0	133.4	267.5	399.0	427.8	343.1	180.3	25.9	161.0	319.3	404.0
G87.0	111.6	247.3	379.7	410.6	328.4	168.5	24.8	152.3	307.0	387.8
G88.0	91.6	229.5	361.6	394.4	315.8	159.3	24.5	144.8	296.0	373.1
G89.0	74.3	211.7	345.2	380.1	304.7	151.3	24.2	137.7	286.7	360.6
G90.0	58.3	196.5	330.1	367.6	295.1	144.4	23.9	130.7	277.5	349.4
G91.0	45.5	182.2	316.6	356.5	285.6	137.4	23.7	123.6	268.3	338.9
G92.0	35.8	170.4	305.5	346.2	277.0	130.9	23.5	116.9	258.9	328.6
G93.0	29.5	160.3	295.2	336.4	268.0	124.2	23.2	110.6	250.2	318.6
G94.0	27.1	152.0	285.9	326.6	259.1	118.3	22.9	104.8	240.8	308.4
G95.0	26.5	144.6	276.4	316.9	250.4	112.3	22.6	99.5	232.3	298.7
G96.0	26.1	137.5	267.6	307.3	242.1	106.7	22.4	94.6	223.9	288.7
G97.0	25.9	130.6	258.5	297.8	233.7	101.1	22.2	90.0	215.5	279.2
G98.0	25.5	124.0	249.7	288.7	225.7	95.9	21.9	85.5	207.2	269.6
G99.0	25.3	117.6	240.8	279.4	217.6	90.9	21.7	81.4	199.3	260.6
G100.0	25.0	111.6	232.1	270.4	209.8	86.2	21.4	77.3	191.7	251.4
G101.0	24.7	105.6	223.8	261.3	202.0	81.7	21.1	73.5	184.6	242.6
G102.0	24.5	100.1	215.7	252.7	194.7	77.6	20.9	69.9	175.4	233.7
G103.0	24.1	94.6	207.5	244.2	187.0	73.6	20.7	66.2	163.9	225.3
G104.0	23.9	89.6	199.8	235.7	179.9	70.0	20.5	62.6	154.2	217.0
G105.0	23.6	84.7	192.0	227.1	172.5	66.6	20.2	58.6	145.8	209.6
G106.0	23.3	80.1	184.6	219.1	162.4	63.2	20.0	54.9	140.2	202.2
G107.0	23.0	75.8	177.1	211.2	151.1	59.4	19.7	51.5	135.2	195.3
G108.0	22.8	71.8	169.3	203.5	142.4	55.7	19.5	48.5	130.4	188.3
G109.0	22.5	68.1	158.6	195.9	134.9	52.1	19.3	46.0	125.5	181.6
G110.0	22.2	64.6	147.6	188.4	129.4	49.0	19.1	43.7	120.8	174.9

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 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	22.0	61.0	138.5	179.4	124.0	46.0	18.8	41.7	116.2	168.7
G112.0	21.7	57.1	131.0	172.5	118.8	43.6	18.6	39.6	111.8	162.3
G113.0	21.4	53.4	125.7	165.5	114.1	41.4	18.4	37.7	107.5	156.2
G114.0	21.1	49.8	120.1	159.0	109.4	39.2	18.2	35.9	103.4	150.2
G115.0	20.9	46.7	114.8	152.8	105.1	37.4	18.0	34.0	99.3	144.3
G116.0	20.6	43.9	109.9	146.5	100.8	35.4	17.8	32.4	95.3	138.5
G117.0	20.3	41.6	105.2	140.5	96.9	33.6	17.6	30.8	91.2	133.0
G118.0	20.1	39.3	100.9	134.5	92.8	31.9	17.4	29.2	87.2	127.5
G119.0	19.9	37.3	96.7	129.1	89.0	30.3	17.2	27.7	83.4	122.2
G120.0	19.6	35.2	92.6	123.3	85.0	28.8	17.1	26.4	79.7	117.1
G121.0	19.4	33.4	88.7	118.1	81.3	27.4	16.9	25.2	76.0	112.0
G122.0	19.2	31.6	84.5	112.9	77.5	26.0	16.7	23.9	72.4	107.1
G123.0	19.0	30.0	80.6	107.9	73.8	24.7	16.5	22.8	68.7	102.4
G124.0	18.7	28.4	76.8	102.9	70.1	23.5	16.4	21.7	65.3	97.7
G125.0	18.5	27.0	73.0	98.2	66.7	22.3	16.3	20.8	61.9	93.0
G126.0	18.4	25.5	69.1	93.6	63.1	21.3	16.2	19.9	58.7	88.7
G127.0	18.1	24.3	65.6	89.1	59.7	20.4	16.0	19.1	55.8	84.3
G128.0	17.9	23.0	61.8	84.6	56.3	19.6	15.9	18.4	52.8	80.2
G129.0	17.8	21.9	58.4	80.3	53.3	19.0	15.8	17.8	49.9	76.1
G130.0	17.6	20.9	55.0	76.1	50.3	18.5	15.7	17.3	47.2	72.2
G131.0	17.4	20.0	51.7	72.1	47.5	18.1	15.6	17.1	44.5	68.3
G132.0	17.2	19.3	48.7	68.3	44.8	17.8	15.5	16.8	42.0	64.7
G133.0	17.1	18.7	45.9	64.5	42.2	17.6	15.4	16.6	39.5	61.0
G134.0	16.9	18.3	43.0	60.7	39.7	17.3	15.4	16.4	37.3	57.5
G135.0	16.8	17.9	40.5	57.2	37.5	17.2	15.3	16.3	35.1	54.1
G136.0	16.6	17.6	38.0	53.6	35.3	17.1	15.3	16.2	33.1	50.8
G137.0	16.5	17.3	35.7	50.3	33.2	17.0	15.2	16.1	31.2	47.5
G138.0	16.4	17.1	33.5	47.2	31.0	16.8	15.1	16.1	29.4	44.6
G139.0	16.3	17.0	31.4	44.2	29.2	16.8	15.1	16.0	27.7	41.7
G140.0	16.2	16.8	29.4	41.3	27.4	16.6	15.1	16.0	26.1	39.1
G141.0	16.1	16.6	27.5	38.7	25.7	16.6	15.0	16.0	24.6	36.5
G142.0	16.0	16.5	25.8	36.0	24.1	16.6	15.0	16.1	23.1	34.1
G143.0	15.9	16.4	24.1	33.6	22.7	16.6	15.0	16.1	21.8	31.8
G144.0	15.9	16.3	22.5	31.3	21.4	16.6	15.1	16.1	20.6	29.7
G145.0	15.8	16.2	21.2	29.1	20.3	16.6	15.3	16.2	19.6	27.6
G146.0	15.7	16.1	20.0	26.9	19.6	16.7	15.4	16.3	18.9	25.6
G147.0	15.6	16.0	19.3	25.0	19.1	16.8	15.5	16.4	18.5	23.9

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 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	15.6	16.0	18.7	23.2	18.7	16.8	15.6	16.5	18.2	22.2
G149.0	15.6	16.1	18.4	21.7	18.4	16.9	15.7	16.6	18.0	20.9
G150.0	15.6	16.1	18.1	20.6	18.3	17.0	15.8	16.6	17.9	19.8
G151.0	15.6	16.1	18.0	19.9	18.2	17.1	15.9	16.8	17.9	19.2
G152.0	15.7	16.2	17.9	19.3	18.1	17.1	16.0	16.8	17.9	18.7
G153.0	15.8	16.3	17.9	18.9	18.1	17.2	16.1	16.9	17.9	18.4
G154.0	15.9	16.4	17.9	18.6	18.1	17.2	16.2	17.0	17.9	18.3
G155.0	16.0	16.5	17.9	18.5	18.1	17.3	16.3	17.0	17.9	18.2
G156.0	16.1	16.6	17.9	18.4	18.1	17.4	16.4	17.1	17.9	18.1
G157.0	16.2	16.7	17.9	18.4	18.1	17.5	16.5	17.2	17.9	18.1
G158.0	16.3	16.8	17.9	18.3	18.1	17.5	16.6	17.2	17.9	18.1
G159.0	16.4	16.9	17.9	18.3	18.1	17.6	16.6	17.3	17.9	18.1
G160.0	16.5	17.0	17.9	18.3	18.1	17.6	16.8	17.3	17.9	18.1
G161.0	16.6	17.1	17.9	18.2	18.1	17.7	16.8	17.4	17.9	18.0
G162.0	16.8	17.1	17.9	18.2	18.1	17.7	16.9	17.5	17.9	18.0
G163.0	16.9	17.2	17.9	18.2	18.1	17.7	17.0	17.5	17.9	18.0
G164.0	16.9	17.3	17.9	18.1	18.1	17.7	17.1	17.6	17.9	18.1
G165.0	17.0	17.4	17.9	18.1	18.1	17.8	17.2	17.6	17.9	18.1
G166.0	17.1	17.5	17.9	18.1	18.1	17.8	17.3	17.6	17.9	18.1
G167.0	17.2	17.5	18.0	18.1	18.1	17.8	17.3	17.7	17.9	18.1
G168.0	17.3	17.5	18.0	18.1	18.1	17.8	17.5	17.7	17.9	18.1
G169.0	17.4	17.6	18.0	18.1	18.0	17.9	17.5	17.7	17.9	18.2
G170.0	17.5	17.6	18.0	18.1	18.0	17.9	17.6	17.7	17.9	18.3
G171.0	17.6	17.6	18.0	18.1	18.0	17.9	17.6	17.7	17.9	18.3
G172.0	17.7	17.6	18.1	18.1	18.0	17.9	17.7	17.7	17.9	18.3
G173.0	17.7	17.7	18.0	18.1	18.0	17.9	17.8	17.8	17.9	18.3
G174.0	17.8	17.7	18.0	18.1	17.9	17.9	17.8	17.8	17.9	18.3
G175.0	17.9	17.7	18.0	18.1	17.9	17.9	17.9	17.8	17.9	18.3
G176.0	17.9	17.7	18.0	18.2	17.9	17.9	17.9	17.8	17.9	18.3
G177.0	18.0	17.8	18.0	18.2	17.9	17.9	18.0	17.8	17.9	18.3
G178.0	18.0	17.8	17.9	18.3	17.9	17.9	18.0	17.8	17.9	18.3
G179.0	18.0	17.8	17.9	18.3	17.9	17.9	18.0	17.8	17.9	18.2
G180.0	18.0	17.8	17.9	18.3	17.9	17.9	18.0	17.8	17.9	18.2

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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Tel:
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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1904.7	1905.9	1890.4							
G1.0	1906.2	1908.1	1892.6							
G2.0	1907.0	1909.4	1893.8							
G3.0	1906.8	1909.9	1894.2							
G4.0	1905.8	1909.6	1893.9							
G5.0	1904.0	1908.3	1892.5							
G6.0	1901.3	1906.2	1890.4							
G7.0	1897.9	1903.3	1887.4							
G8.0	1893.5	1899.4	1883.6							
G9.0	1888.5	1894.9	1878.8							
G10.0	1882.5	1889.2	1873.4							
G11.0	1876.2	1882.9	1867.1							
G12.0	1868.9	1875.6	1859.8							
G13.0	1860.7	1867.8	1851.7							
G14.0	1851.7	1858.9	1843.3							
G15.0	1842.5	1849.6	1833.5							
G16.0	1832.5	1838.8	1823.4							
G17.0	1821.5	1828.0	1812.1							
G18.0	1810.1	1815.9	1800.4							
G19.0	1798.4	1803.6	1788.0							
G20.0	1785.2	1790.0	1774.5							
G21.0	1772.3	1776.6	1760.5							
G22.0	1758.3	1761.3	1745.6							
G23.0	1744.5	1746.3	1730.8							
G24.0	1729.8	1730.1	1713.9							
G25.0	1713.9	1713.5	1697.7							
G26.0	1698.5	1696.7	1680.1							
G27.0	1682.6	1678.4	1663.0							
G28.0	1665.9	1660.3	1644.3							
G29.0	1648.8	1641.3	1625.3							
G30.0	1631.3	1622.3	1605.6							
G31.0	1613.5	1601.9	1586.0							
G32.0	1595.8	1581.9	1565.1							
G33.0	1576.5	1560.6	1544.7							
G34.0	1558.1	1539.8	1522.6							
G35.0	1538.9	1517.5	1500.6							
G36.0	1519.9	1496.2	1478.1							

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	1500.2	1473.1	1455.8							
G38.0	1480.7	1450.6	1432.5							
G39.0	1460.5	1427.4	1409.0							
G40.0	1440.1	1403.9	1386.2							
G41.0	1419.1	1380.1	1360.9							
G42.0	1399.1	1356.0	1336.8							
G43.0	1377.1	1331.2	1312.9							
G44.0	1356.2	1307.1	1286.6							
G45.0	1334.0	1282.1	1262.0							
G46.0	1312.6	1256.9	1236.2							
G47.0	1290.5	1231.0	1210.1							
G48.0	1268.3	1206.1	1183.9							
G49.0	1245.8	1179.9	1158.0							
G50.0	1223.7	1155.3	1130.7							
G51.0	1200.9	1128.2	1104.4							
G52.0	1177.3	1102.7	1077.4							
G53.0	1154.0	1077.1	1050.7							
G54.0	1131.1	1051.3	1023.7							
G55.0	1107.4	1024.2	996.0							
G56.0	1084.2	997.7	967.7							
G57.0	1059.9	971.2	941.0							
G58.0	1036.5	945.2	912.9							
G59.0	1011.9	918.0	884.8							
G60.0	988.3	891.3	856.2							
G61.0	963.5	864.5	828.0							
G62.0	939.1	838.2	800.2							
G63.0	915.0	811.9	771.7							
G64.0	890.9	785.5	742.6							
G65.0	866.2	758.0	714.2							
G66.0	841.0	731.2	685.8							
G67.0	816.8	704.5	655.5							
G68.0	792.2	677.9	627.2							
G69.0	767.5	651.2	598.0							
G70.0	742.1	624.1	569.6							
G71.0	717.3	598.2	540.3							
G72.0	692.9	571.7	512.5							
G73.0	668.1	545.9	482.6							

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

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Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	643.4	519.3	454.3							
G75.0	620.0	494.1	426.2							
G76.0	594.6	468.1	397.0							
G77.0	570.4	443.5	368.0							
G78.0	546.4	418.1	339.9							
G79.0	523.8	394.1	312.1							
G80.0	499.8	370.0	284.7							
G81.0	476.7	346.2	257.1							
G82.0	454.3	323.6	231.3							
G83.0	432.8	301.7	205.1							
G84.0	411.6	279.2	180.3							
G85.0	391.8	259.0	156.0							
G86.0	372.1	239.3	133.4							
G87.0	354.0	221.7	111.6							
G88.0	337.7	203.8	91.6							
G89.0	322.5	189.0	74.3							
G90.0	309.1	174.8	58.3							
G91.0	297.8	163.3	45.5							
G92.0	287.5	153.9	35.8							
G93.0	277.6	145.4	29.5							
G94.0	268.1	137.6	27.1							
G95.0	258.5	130.1	26.5							
G96.0	248.9	122.8	26.1							
G97.0	240.1	116.0	25.9							
G98.0	230.8	109.4	25.5							
G99.0	222.3	103.5	25.3							
G100.0	213.5	97.9	25.0							
G101.0	205.2	93.0	24.7							
G102.0	197.1	88.3	24.5							
G103.0	189.2	83.9	24.1							
G104.0	181.9	79.6	23.9							
G105.0	172.9	75.5	23.6							
G106.0	160.3	71.7	23.3							
G107.0	151.2	68.0	23.0							
G108.0	142.4	64.2	22.8							
G109.0	136.8	60.4	22.5							
G110.0	131.7	56.5	22.2							

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:
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Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	126.7	52.8	22.0							
G112.0	121.8	49.6	21.7							
G113.0	116.9	46.8	21.4							
G114.0	112.3	44.4	21.1							
G115.0	107.9	42.2	20.9							
G116.0	103.7	40.0	20.6							
G117.0	99.6	38.0	20.3							
G118.0	95.3	36.0	20.1							
G119.0	91.1	34.1	19.9							
G120.0	87.0	32.3	19.6							
G121.0	83.0	30.6	19.4							
G122.0	79.2	29.1	19.2							
G123.0	75.3	27.6	19.0							
G124.0	71.6	26.1	18.7							
G125.0	67.9	24.8	18.5							
G126.0	64.3	23.6	18.4							
G127.0	60.8	22.4	18.1							
G128.0	57.5	21.4	17.9							
G129.0	54.3	20.5	17.8							
G130.0	51.3	19.6	17.6							
G131.0	48.3	18.8	17.4							
G132.0	45.6	18.2	17.2							
G133.0	42.9	17.7	17.1							
G134.0	40.3	17.3	16.9							
G135.0	37.8	17.0	16.8							
G136.0	35.5	16.8	16.6							
G137.0	33.3	16.6	16.5							
G138.0	31.4	16.4	16.4							
G139.0	29.4	16.3	16.3							
G140.0	27.8	16.2	16.2							
G141.0	26.0	16.1	16.1							
G142.0	24.5	15.9	16.0							
G143.0	23.0	15.9	15.9							
G144.0	21.7	15.9	15.9							
G145.0	20.4	15.8	15.8							
G146.0	19.4	15.7	15.7							
G147.0	18.7	15.8	15.6							

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	18.3	15.9	15.6							
G149.0	17.9	15.9	15.6							
G150.0	17.8	16.0	15.6							
G151.0	17.6	16.1	15.6							
G152.0	17.6	16.2	15.7							
G153.0	17.6	16.3	15.8							
G154.0	17.6	16.4	15.9							
G155.0	17.5	16.5	16.0							
G156.0	17.5	16.6	16.1							
G157.0	17.4	16.7	16.2							
G158.0	17.5	16.8	16.3							
G159.0	17.5	16.9	16.4							
G160.0	17.5	17.0	16.5							
G161.0	17.6	17.1	16.6							
G162.0	17.6	17.1	16.8							
G163.0	17.7	17.2	16.9							
G164.0	17.7	17.2	16.9							
G165.0	17.7	17.3	17.0							
G166.0	17.8	17.4	17.1							
G167.0	17.8	17.5	17.2							
G168.0	17.9	17.5	17.3							
G169.0	17.9	17.5	17.4							
G170.0	17.9	17.6	17.5							
G171.0	17.9	17.6	17.6							
G172.0	17.9	17.7	17.7							
G173.0	17.9	17.7	17.7							
G174.0	17.9	17.7	17.8							
G175.0	17.9	17.8	17.9							
G176.0	17.9	17.8	17.9							
G177.0	17.8	17.8	18.0							
G178.0	17.9	17.8	18.0							
G179.0	17.9	17.9	18.0							
G180.0	17.9	17.9	18.0							

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: