

FACTORY DIRECT LIGHTING

Tel:
Fax:

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Report No.: 20170706002

Test Time: 2017-07-07 19:28

Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-54LED4K-347VD

Lamp Catalog: 2835/3C1500S54D

Luminous Length (mm): 1290

Luminous Height (mm): 100

Current: 0.192 A

Power Factor: 0.984

Lamp Description: 2835/4000K

Luminous Width (mm): 140

Voltage: 298.7 V

Power: 56.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 6510.6 lm

Downward Ratio: 92%

Field Angle: H159.6 V218.1

Luminaire Efficacy Rating (LER): 115

Max. Intensity: 1945.57 cd

Total Rated Lamp Lumens: 6510.6 lm

Efficiency: 100%

Upward Ratio: 8%

Beam Angle: H107.0 V124.9

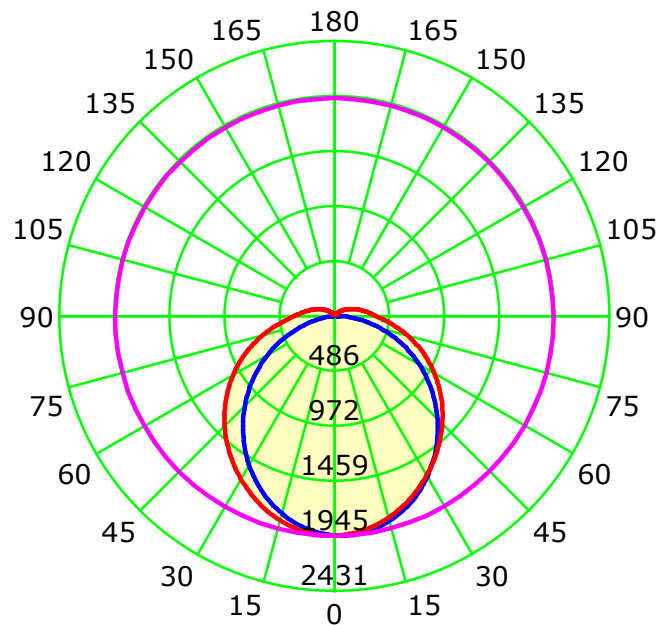
Central Intensity: 1939.58 cd

Pos of Max. Intensity: H330 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve

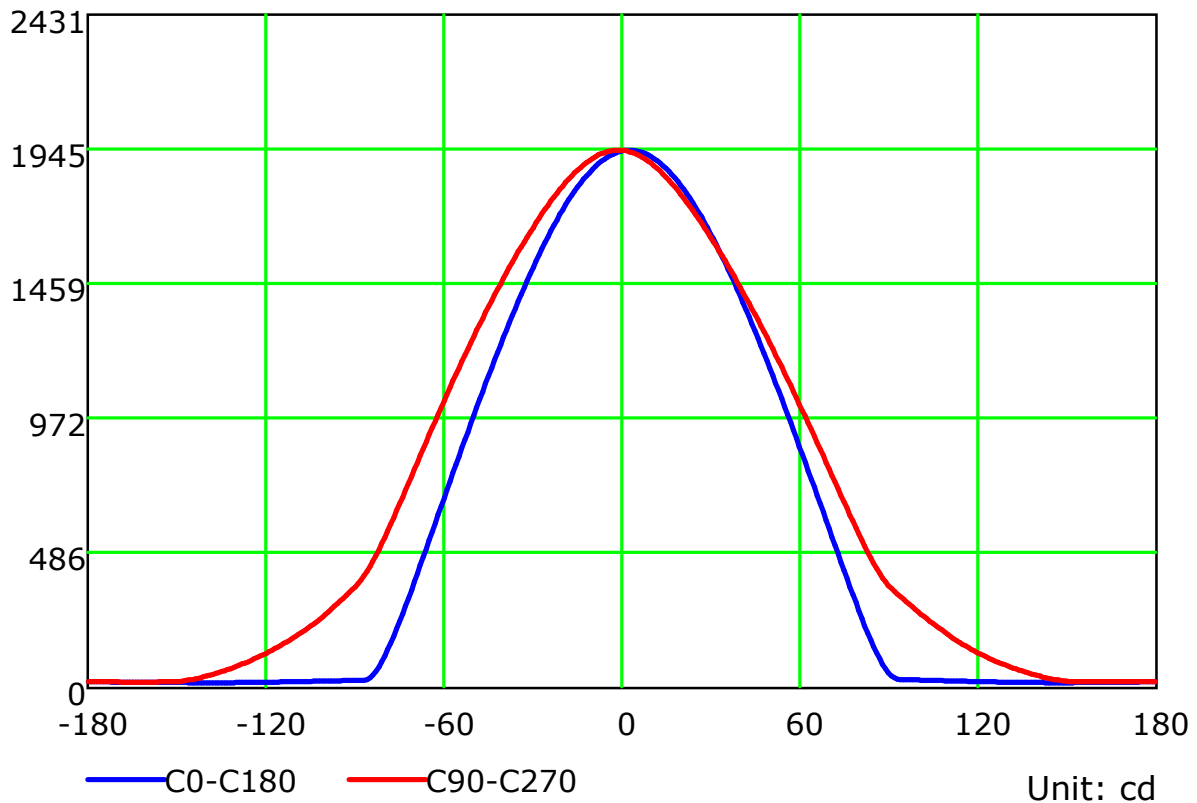
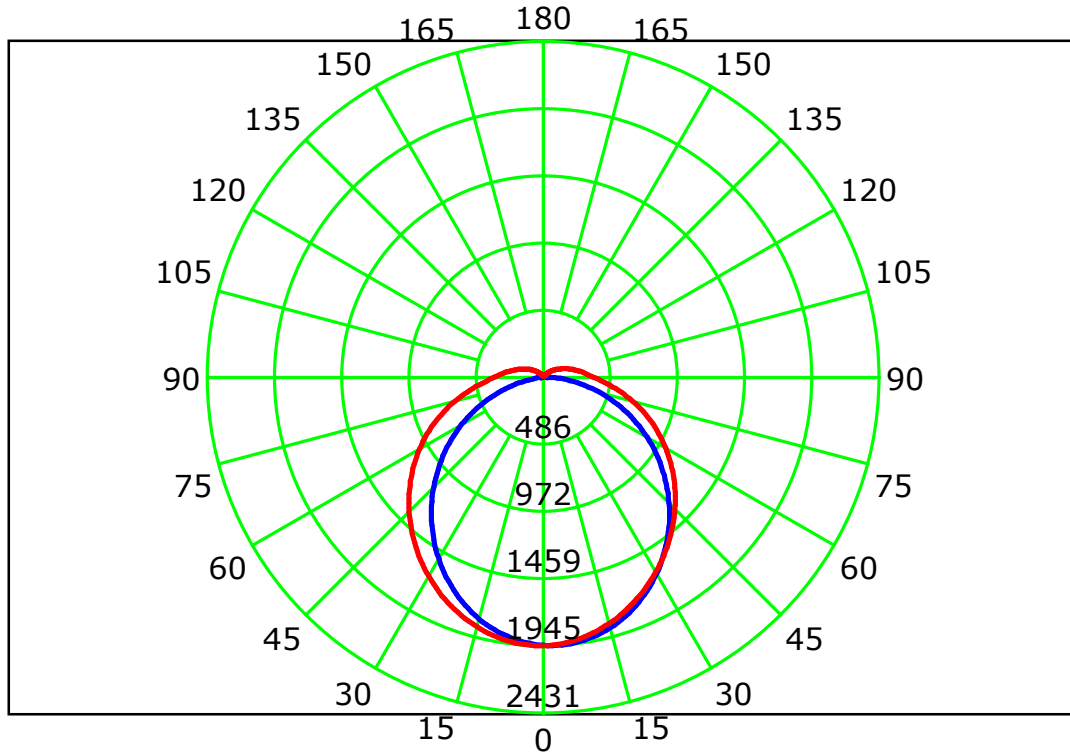


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Luminous Intensity Distribution Curve



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

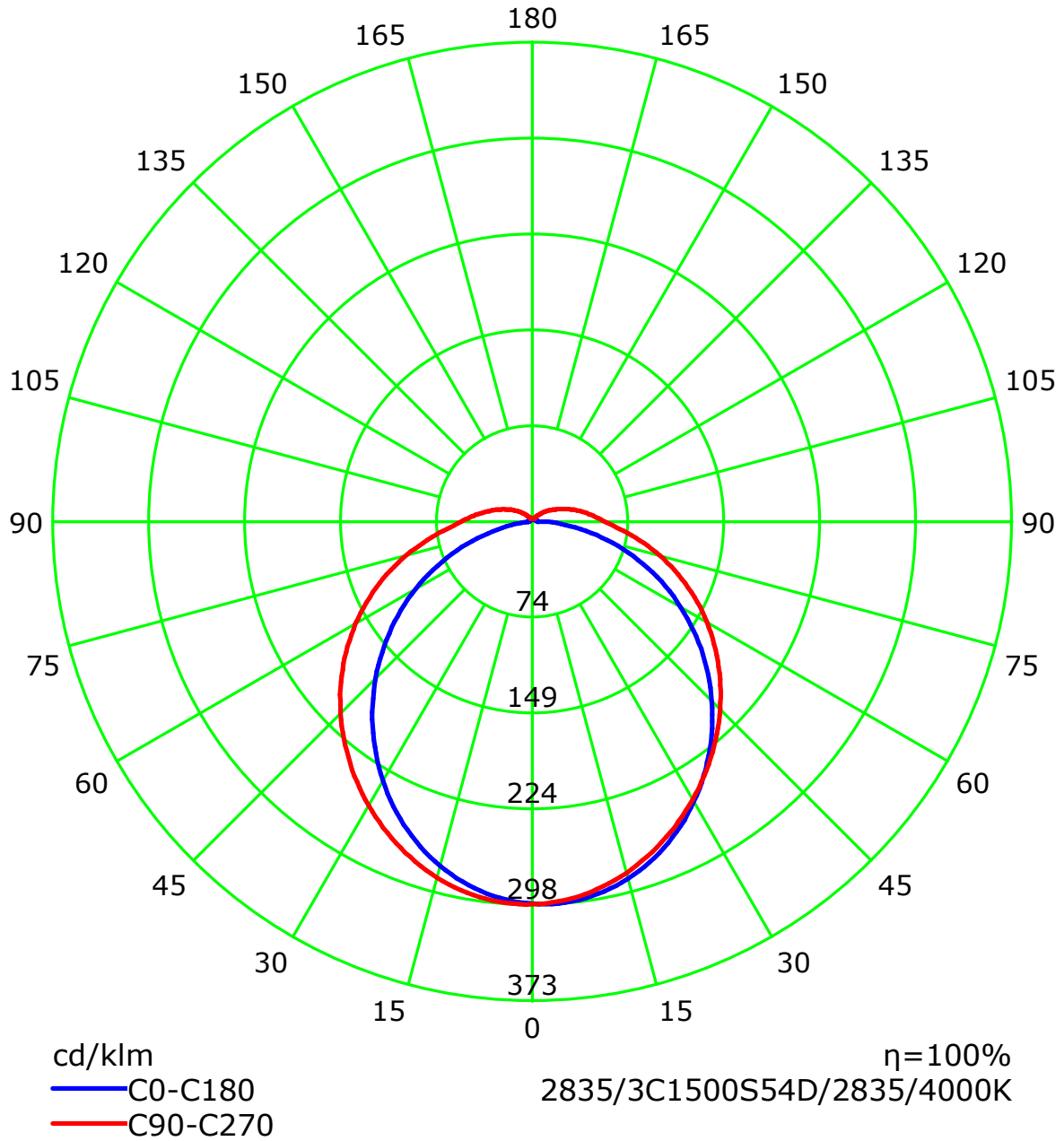
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

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Luminous Intensity Distribution Curve(cd/klm)



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
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Inspector:

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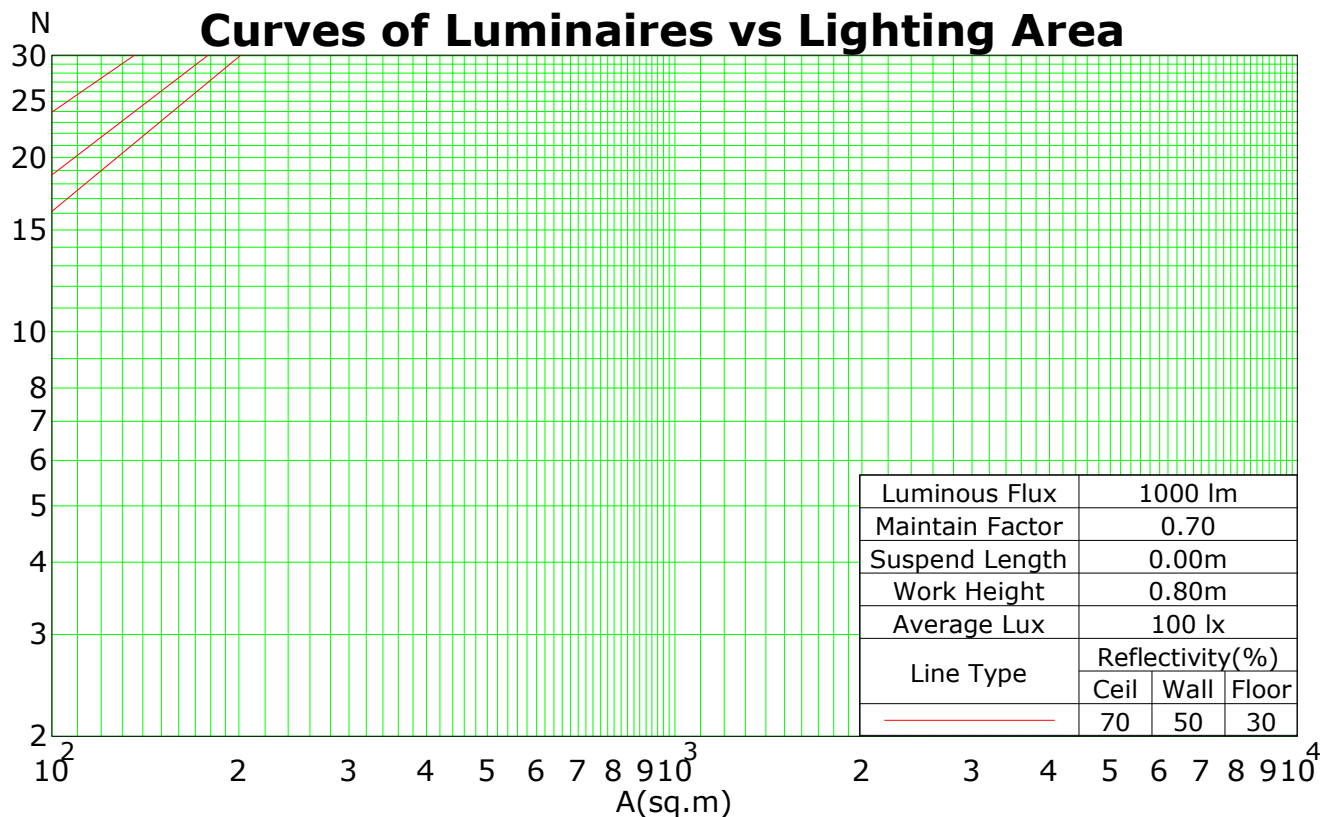
Coefficients Of Utilization - Zonal Cavity Method

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	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	79	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	37
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	33	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	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



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

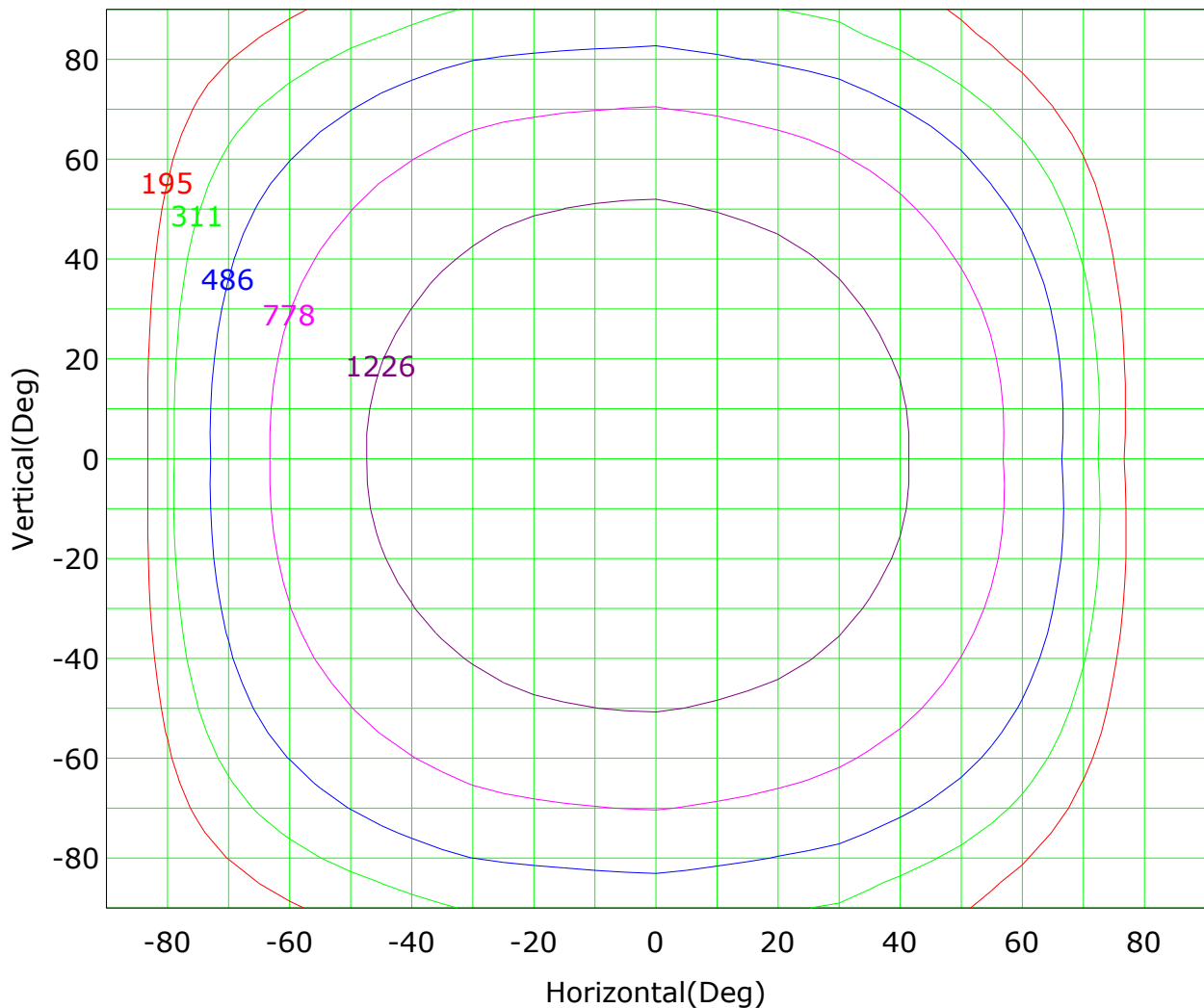
Gamma Plane (°):0.0-180.0:1.0
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Isocandela (rectangle)



Imax (100%): 1946 cd

(10%): 195 cd	(16%): 311 cd
(25%): 486 cd	(40%): 778 cd
(63%): 1226 cd	(100%): 1946 cd

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

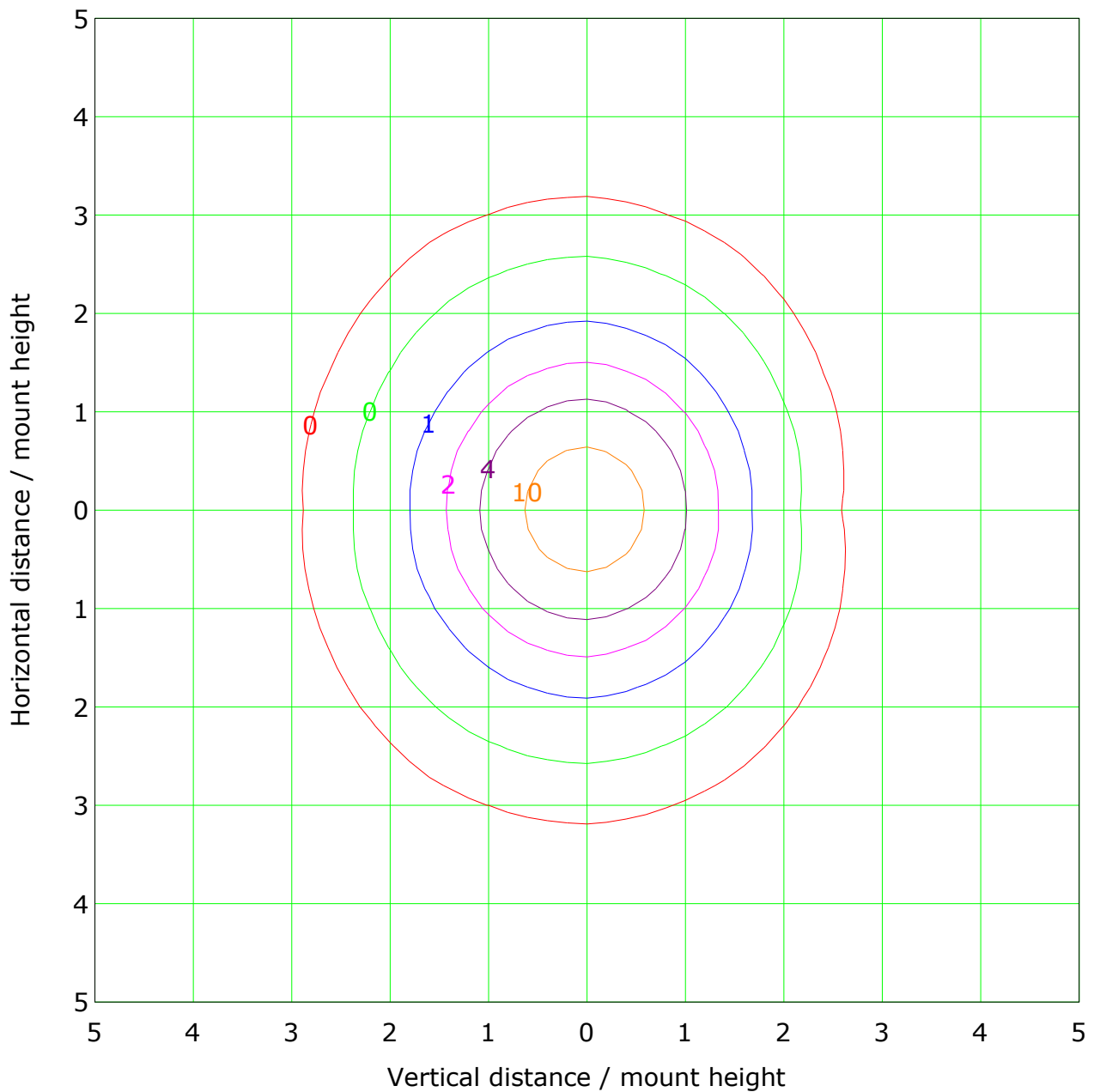
Gamma Plane (°):0.0-180.0:1.0
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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 19.4 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.0 lx	(10%): 1.9 lx
(20%): 3.9 lx	(50%): 9.7 lx
(100%): 19.4 lx	

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
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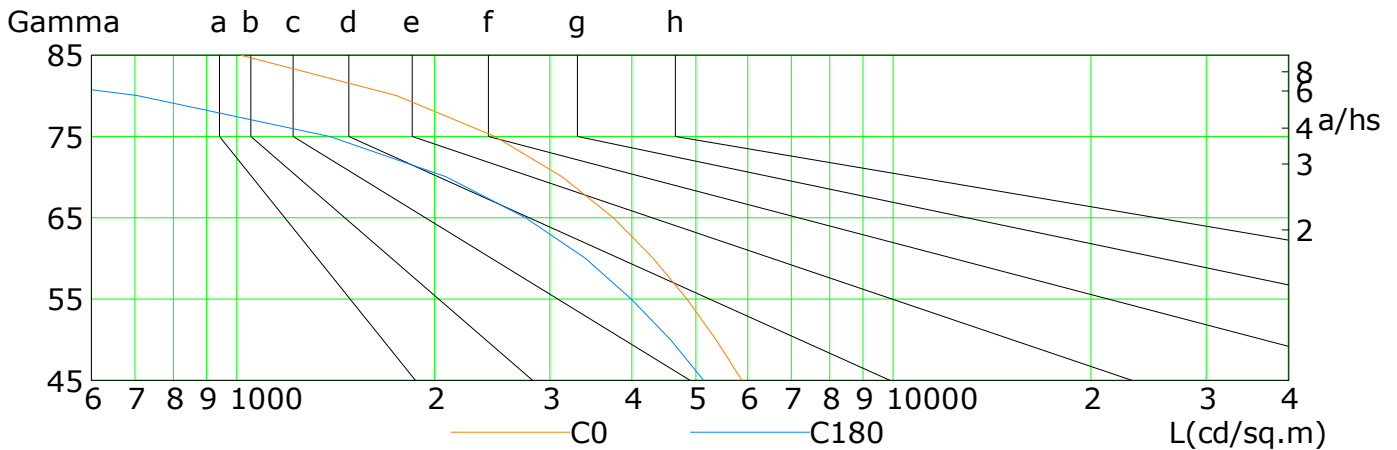
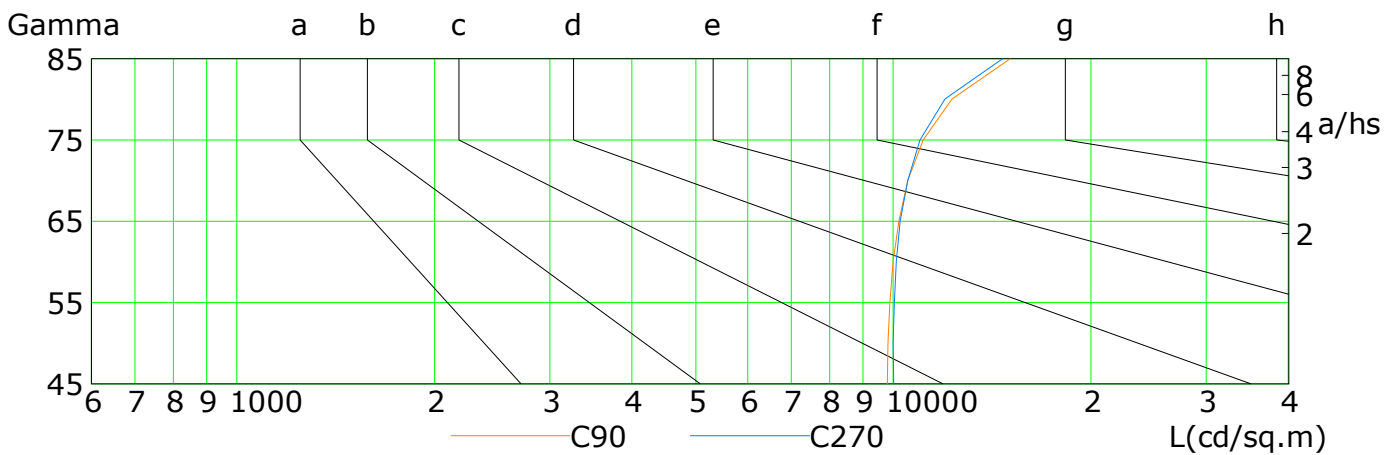
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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	5886	5370	4849	4307	3744	3132	2470	1748	1014
C90	9799	9811	9876	9994	10196	10536	11115	12278	15064
C180	5145	4575	3988	3390	2752	2083	1384	705	235
C270	10008	10002	10033	10114	10253	10516	10992	11994	14683

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

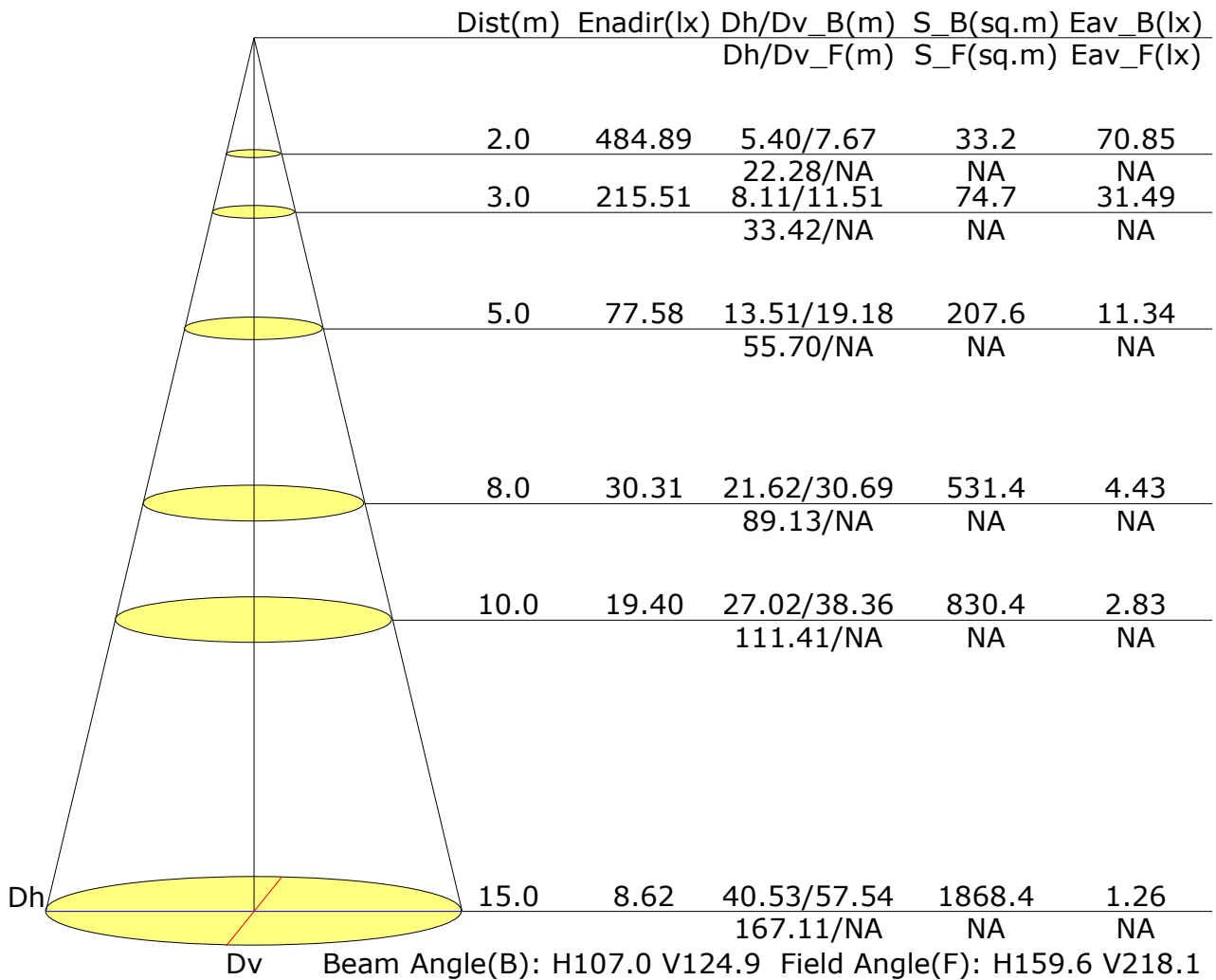
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

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Illuminance at a Distance



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

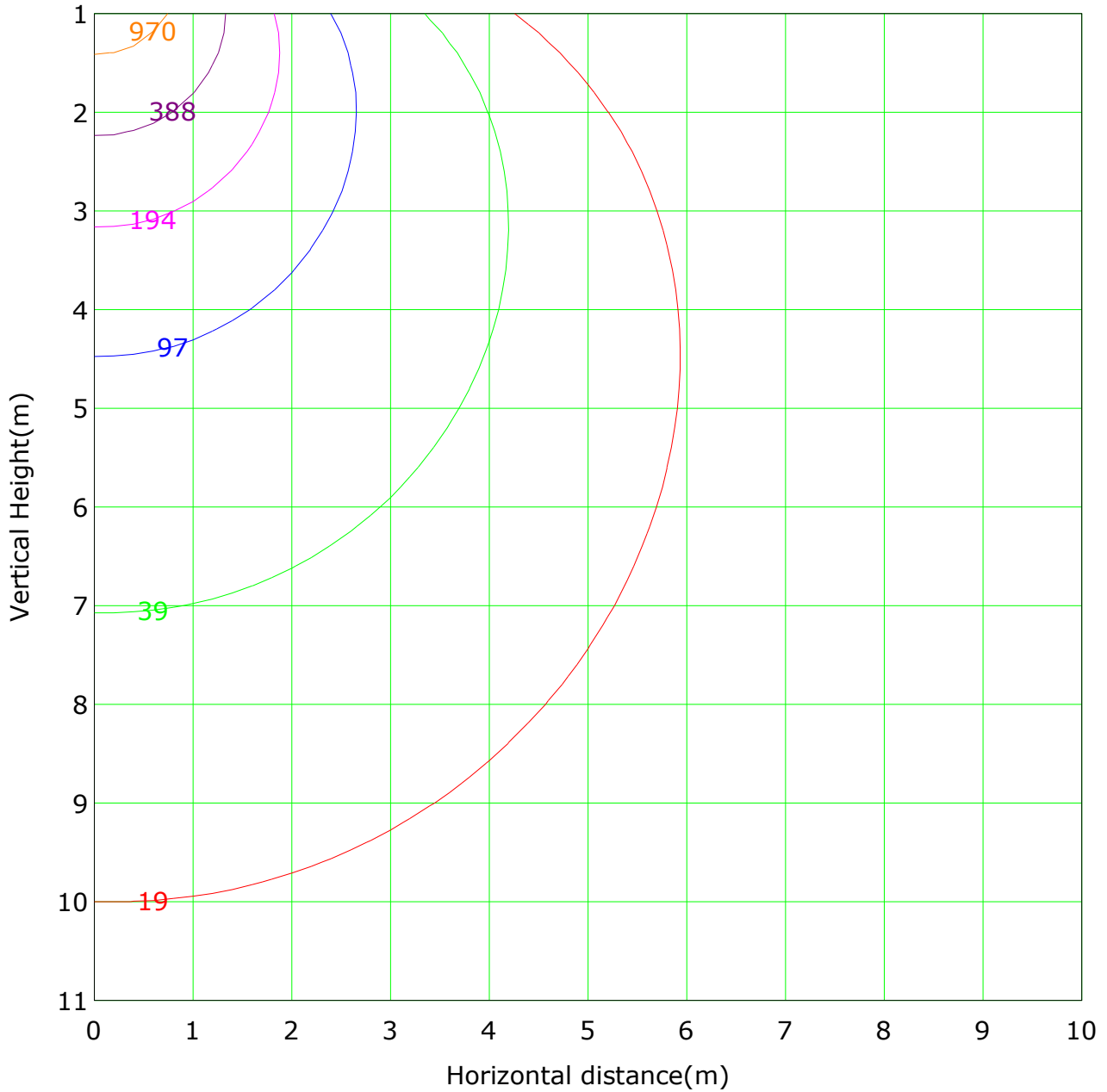
Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1939.6 lx
— (1%): 19.4 lx — (2%): 38.8 lx
— (5%): 97.0 lx — (10%): 194.0 lx
— (20%): 387.9 lx — (50%): 969.8 lx
— (100%):1939.6 lx

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:

Tel:
Fax:

Unit: lm

Orbit: 111																					
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	F ₀ (T)	F ₁ (E)
Vertical plane	-90	0.1	0.7	1.7	3.2	5.3	7.7	9.9	11.6	12.9	13.2	12.4	11.1	9.1	6.6	4.4	2.5	1.1	0.2	113.6	106.3
	-80	0.1	0.8	2.2	4.6	7.8	11.4	14.9	17.5	19.5	19.9	18.7	16.7	13.5	9.8	6.3	3.5	1.4	0.3	169.1	165.4
	-70	0.1	1.0	3.1	6.5	11.0	16.0	20.8	24.4	27.0	27.4	25.8	22.9	18.4	13.4	8.6	4.7	1.9	0.3	233.4	231.3
	-60	0.1	1.2	4.1	8.5	14.3	20.6	26.6	31.2	34.2	34.7	32.7	28.9	23.2	16.9	10.9	5.9	2.3	0.4	296.7	295.3
	-50	0.2	1.5	5.0	10.5	17.3	24.8	31.9	37.4	40.9	41.5	39.1	34.4	27.6	20.1	13.0	7.0	2.7	0.4	355.2	354.2
	-40	0.2	1.7	5.9	12.2	19.9	28.5	36.6	43.0	46.9	47.5	44.8	39.2	31.4	22.9	14.8	8.0	3.0	0.5	406.9	406.1
	-30	0.2	1.9	6.5	13.5	22.1	31.5	40.5	47.7	52.0	52.7	49.6	43.2	34.6	25.2	16.3	8.7	3.3	0.5	449.9	449.2
	-20	0.2	2.0	6.9	14.4	23.7	33.7	43.3	51.1	55.8	56.5	53.1	46.1	36.9	26.9	17.3	9.2	3.4	0.5	481.2	480.6
	-10	0.2	2.0	7.0	14.7	24.3	34.8	44.8	52.9	57.8	58.5	54.9	47.7	38.1	27.7	17.8	9.4	3.5	0.5	496.5	495.9
	0	0.2	2.0	7.0	14.7	24.3	34.8	44.7	52.7	57.5	58.2	54.6	47.5	38.0	27.6	17.8	9.4	3.5	0.5	495.1	494.4
Vertical plane	10	0.2	2.1	7.0	14.5	23.7	33.6	43.0	50.6	55.1	55.8	52.4	45.6	36.6	26.8	17.3	9.2	3.4	0.5	477.5	476.9
	20	0.2	2.0	6.7	13.7	22.3	31.4	40.1	47.0	51.1	51.7	48.7	42.5	34.2	25.1	16.3	8.7	3.3	0.5	445.2	444.5
	30	0.2	1.8	6.1	12.5	20.2	28.5	36.2	42.3	46.0	46.5	43.8	38.4	31.0	22.7	14.8	8.0	3.0	0.5	402.5	401.7
	40	0.2	1.6	5.3	10.9	17.7	24.9	31.7	36.9	40.2	40.6	38.3	33.7	27.2	20.0	13.0	7.1	2.7	0.4	352.2	351.3
	50	0.2	1.3	4.4	9.0	14.8	20.9	26.6	31.0	33.8	34.2	32.1	28.4	23.0	16.9	10.9	6.0	2.3	0.4	296.0	294.7
	60	0.2	1.1	3.4	7.1	11.6	16.5	21.1	24.6	26.9	27.3	25.6	22.7	18.4	13.5	8.8	4.8	1.9	0.3	235.5	233.7
	70	0.1	0.9	2.5	5.1	8.4	12.1	15.4	18.0	19.8	20.1	18.9	16.8	13.7	10.0	6.5	3.6	1.5	0.3	173.6	170.5
	80	0.1	0.8	1.9	3.6	5.8	8.2	10.4	12.0	13.3	13.5	12.6	11.3	9.3	6.8	4.5	2.5	1.1	0.2	117.9	111.6
	90	2.9	26.5	86.7	179.3	294.4	419.8	538.4	631.8	690.6	669.9	658.2	577.0	464.2	338.8	219.2	118.2	45.2	7.2	5998	
	F ₀ (E)	0.0	16.1	79.9	176.0	294.3	419.8	538.4	631.8	690.6	669.9	658.2	577.0	464.2	338.8	219.1	115.9	40.9	2.7		5964
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	F ₀ (T)	F ₁ (E)	

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:

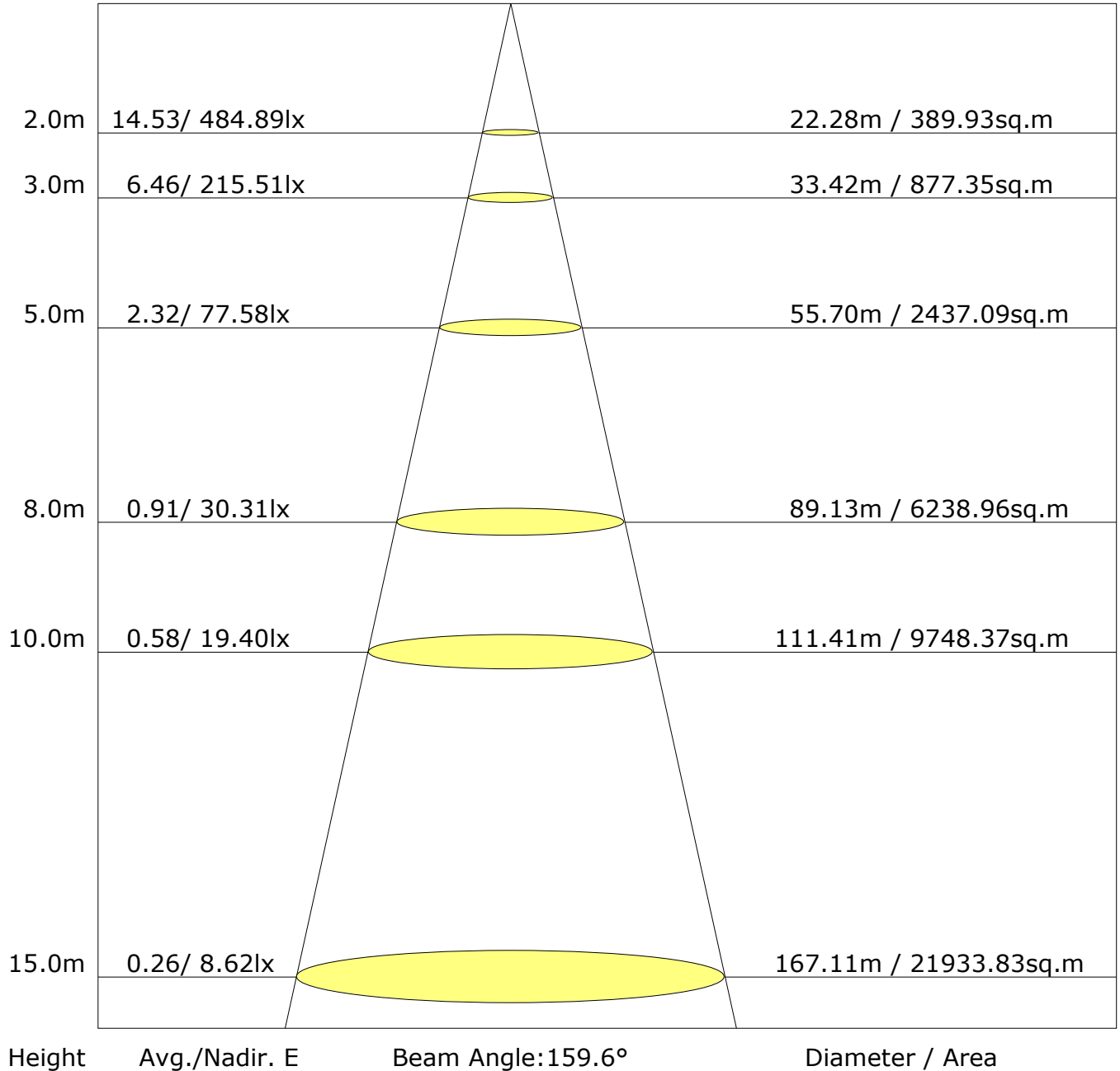
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The Average Illuminance Effective Figure

Flux Out: 5665.09lm



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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	13.1	12.1	13.6	14.1	10.9	12.4	11.4	12.9	13.4
3H	13.5	14.9	14.0	15.4	15.9	12.9	14.3	13.4	14.8	15.3
4H	14.3	15.6	14.8	16.1	16.6	13.8	15.1	14.3	15.6	16.1
6H	14.9	16.1	15.4	16.6	17.2	14.5	15.7	15.0	16.2	16.8
8H	15.1	16.2	15.6	16.8	17.3	14.8	16.0	15.4	16.5	17.1
12H	15.2	16.3	15.8	16.9	17.5	15.1	16.2	15.7	16.8	17.4
X=4H Y=2H	12.1	13.4	12.6	13.9	14.5	11.5	12.8	12.0	13.3	13.9
3H	14.2	15.4	14.8	15.9	16.5	13.7	14.9	14.3	15.4	16.0
4H	15.1	16.1	15.7	16.7	17.3	14.7	15.8	15.3	16.3	16.9
6H	15.8	16.7	16.4	17.3	17.9	15.6	16.5	16.2	17.1	17.7
8H	16.1	17.0	16.7	17.5	18.2	16.0	16.9	16.6	17.5	18.1
12H	16.3	17.1	16.9	17.7	18.3	16.4	17.2	17.0	17.8	18.4
X=8H Y=4H	15.4	16.3	16.0	16.9	17.5	15.0	15.9	15.6	16.5	17.1
6H	16.3	17.0	16.9	17.6	18.3	16.1	16.8	16.7	17.5	18.1
8H	16.7	17.3	17.3	17.9	18.6	16.6	17.3	17.3	17.9	18.6
12H	17.0	17.5	17.6	18.1	18.9	17.2	17.7	17.8	18.4	19.1
X=12H Y=4H	15.5	16.3	16.1	16.9	17.5	15.1	15.8	15.7	16.5	17.1
6H	16.4	17.1	17.0	17.6	18.3	16.2	16.9	16.8	17.5	18.2
8H	16.8	17.4	17.4	18.0	18.7	16.8	17.4	17.4	18.0	18.7

Calculate in accordance with CIE 190:2010

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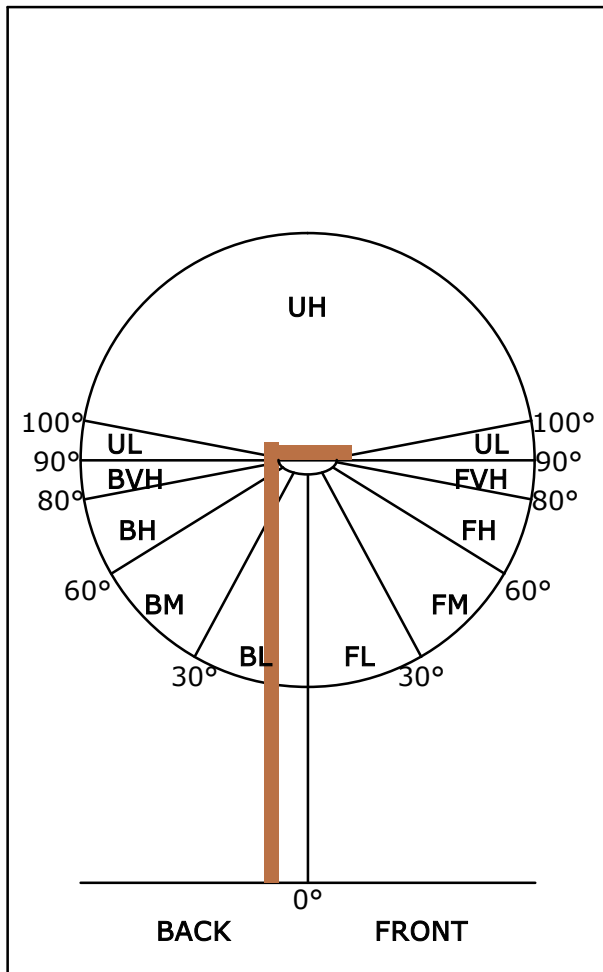
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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2996	46.0
FL (0°-30°)	742	11.4
FM (30°-60°)	1425	21.9
FH (60°-80°)	663	10.2
FVH (80°-90°)	166	2.6
BACK LIGHT	3003	46.1
BL (0°-30°)	749	11.5
BM (30°-60°)	1439	22.1
BH (60°-80°)	655	10.1
BVH (80°-90°)	159	2.4
UP LIGHT	512	7.9
UL (90°-100°)	202	3.1
UH (100°-180°)	310	4.8
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	0.66	0.70	0.74	0.79	0.83	
0.00	0.00	0.00	0.37	0.44	0.50	0.54	0.61	0.65	0.69	0.73	0.76	
Rating:57W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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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	0.35	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	0.33	0.27	0.22	
	0.30		0.75	0.66	0.57	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	
Rating:57W 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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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	0.27	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	0.18	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:57W 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	1941.5	1.9	1.9	0.03	0.03
1.0-2.0	1940.7	5.6	7.4	0.09	0.11
2.0-3.0	1939.0	9.3	16.7	0.14	0.26
3.0-4.0	1936.5	13.0	29.7	0.20	0.46
4.0-5.0	1933.1	16.6	46.3	0.26	0.71
5.0-6.0	1929.0	20.3	66.6	0.31	1.02
6.0-7.0	1924.1	23.9	90.5	0.37	1.39
7.0-8.0	1918.3	27.5	117.9	0.42	1.81
8.0-9.0	1911.8	31.0	148.9	0.48	2.29
9.0-10.0	1904.4	34.5	183.4	0.53	2.82
10.0-11.0	1896.3	37.9	221.3	0.58	3.40
11.0-12.0	1887.5	41.3	262.5	0.63	4.03
12.0-13.0	1877.9	44.6	307.1	0.68	4.72
13.0-14.0	1867.6	47.8	354.9	0.73	5.45
14.0-15.0	1856.6	51.0	405.9	0.78	6.23
15.0-16.0	1845.0	54.1	460.0	0.83	7.06
16.0-17.0	1832.8	57.1	517.0	0.88	7.94
17.0-18.0	1819.9	60.0	577.1	0.92	8.86
18.0-19.0	1806.3	62.9	639.9	0.97	9.83
19.0-20.0	1792.0	65.6	705.5	1.01	10.84
20.0-21.0	1777.3	68.3	773.8	1.05	11.88
21.0-22.0	1762.1	70.8	844.6	1.09	12.97
22.0-23.0	1746.3	73.3	917.9	1.13	14.10
23.0-24.0	1730.0	75.6	993.5	1.16	15.26
24.0-25.0	1713.0	77.9	1071.4	1.20	16.46
25.0-26.0	1695.7	80.1	1151.5	1.23	17.69
26.0-27.0	1677.8	82.1	1233.6	1.26	18.95
27.0-28.0	1659.5	84.0	1317.6	1.29	20.24
28.0-29.0	1640.8	85.9	1403.5	1.32	21.56
29.0-30.0	1621.6	87.6	1491.0	1.34	22.90
30.0-31.0	1602.1	89.2	1580.2	1.37	24.27
31.0-32.0	1582.2	90.7	1670.9	1.39	25.66
32.0-33.0	1561.9	92.0	1762.9	1.41	27.08
33.0-34.0	1541.4	93.3	1856.2	1.43	28.51
34.0-35.0	1520.5	94.4	1950.6	1.45	29.96
35.0-36.0	1499.3	95.5	2046.1	1.47	31.43

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1477.7	96.4	2142.5	1.48	32.91
37.0-38.0	1455.8	97.2	2239.7	1.49	34.40
38.0-39.0	1433.6	97.9	2337.5	1.50	35.90
39.0-40.0	1411.3	98.4	2436.0	1.51	37.42
40.0-41.0	1388.8	98.9	2534.9	1.52	38.93
41.0-42.0	1365.8	99.2	2634.1	1.52	40.46
42.0-43.0	1342.6	99.5	2733.6	1.53	41.99
43.0-44.0	1319.2	99.6	2833.2	1.53	43.52
44.0-45.0	1295.7	99.6	2932.8	1.53	45.05
45.0-46.0	1271.9	99.5	3032.2	1.53	46.57
46.0-47.0	1247.8	99.3	3131.5	1.52	48.10
47.0-48.0	1223.6	98.9	3230.4	1.52	49.62
48.0-49.0	1199.3	98.5	3328.9	1.51	51.13
49.0-50.0	1174.7	98.0	3426.9	1.50	52.64
50.0-51.0	1150.0	97.3	3524.2	1.49	54.13
51.0-52.0	1125.0	96.5	3620.7	1.48	55.61
52.0-53.0	1100.1	95.7	3716.4	1.47	57.08
53.0-54.0	1075.1	94.8	3811.2	1.46	58.54
54.0-55.0	1049.7	93.7	3904.9	1.44	59.98
55.0-56.0	1024.2	92.6	3997.5	1.42	61.40
56.0-57.0	998.7	91.3	4088.8	1.40	62.80
57.0-58.0	973.2	90.0	4178.8	1.38	64.18
58.0-59.0	947.3	88.6	4267.4	1.36	65.55
59.0-60.0	921.5	87.1	4354.5	1.34	66.88
60.0-61.0	895.5	85.5	4439.9	1.31	68.20
61.0-62.0	869.5	83.8	4523.7	1.29	69.48
62.0-63.0	843.4	82.0	4605.8	1.26	70.74
63.0-64.0	817.3	80.2	4686.0	1.23	71.97
64.0-65.0	791.2	78.3	4764.3	1.20	73.18
65.0-66.0	764.9	76.3	4840.6	1.17	74.35
66.0-67.0	738.6	74.3	4914.9	1.14	75.49
67.0-68.0	712.3	72.2	4987.1	1.11	76.60
68.0-69.0	686.1	70.0	5057.1	1.08	77.67
69.0-70.0	660.0	67.8	5124.9	1.04	78.72
70.0-71.0	633.9	65.5	5190.4	1.01	79.72
71.0-72.0	607.8	63.2	5253.6	0.97	80.69

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	582.0	60.9	5314.5	0.93	81.63
73.0-74.0	556.4	58.5	5373.0	0.90	82.53
74.0-75.0	530.8	56.1	5429.0	0.86	83.39
75.0-76.0	505.4	53.7	5482.7	0.82	84.21
76.0-77.0	480.5	51.2	5533.9	0.79	85.00
77.0-78.0	455.9	48.8	5582.7	0.75	85.75
78.0-79.0	431.7	46.4	5629.1	0.71	86.46
79.0-80.0	407.9	44.0	5673.1	0.68	87.14
80.0-81.0	384.8	41.6	5714.7	0.64	87.78
81.0-82.0	362.5	39.3	5754.1	0.60	88.38
82.0-83.0	341.1	37.1	5791.1	0.57	88.95
83.0-84.0	320.8	35.0	5826.1	0.54	89.49
84.0-85.0	301.7	32.9	5859.0	0.51	89.99
85.0-86.0	283.9	31.0	5890.1	0.48	90.47
86.0-87.0	267.8	29.3	5919.4	0.45	90.92
87.0-88.0	253.4	27.8	5947.1	0.43	91.35
88.0-89.0	240.6	26.4	5973.5	0.41	91.75
89.0-90.0	229.3	25.1	5998.7	0.39	92.14
90.0-91.0	219.2	24.0	6022.7	0.37	92.51
91.0-92.0	210.3	23.1	6045.7	0.35	92.86
92.0-93.0	202.2	22.2	6067.9	0.34	93.20
93.0-94.0	194.8	21.3	6089.2	0.33	93.53
94.0-95.0	187.8	20.5	6109.8	0.32	93.84
95.0-96.0	181.0	19.8	6129.5	0.30	94.15
96.0-97.0	174.3	19.0	6148.5	0.29	94.44
97.0-98.0	167.8	18.2	6166.8	0.28	94.72
98.0-99.0	161.5	17.5	6184.3	0.27	94.99
99.0-100.0	155.4	16.8	6201.1	0.26	95.25
100.0-101.0	149.6	16.1	6217.2	0.25	95.49
101.0-102.0	143.8	15.5	6232.7	0.24	95.73
102.0-103.0	138.0	14.8	6247.4	0.23	95.96
103.0-104.0	132.2	14.1	6261.5	0.22	96.17
104.0-105.0	126.7	13.4	6275.0	0.21	96.38
105.0-106.0	121.1	12.8	6287.8	0.20	96.58
106.0-107.0	115.7	12.2	6299.9	0.19	96.76
107.0-108.0	110.5	11.6	6311.5	0.18	96.94

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	105.5	11.0	6322.5	0.17	97.11
109.0-110.0	100.7	10.4	6332.9	0.16	97.27
110.0-111.0	96.1	9.9	6342.8	0.15	97.42
111.0-112.0	91.9	9.4	6352.1	0.14	97.57
112.0-113.0	88.1	8.9	6361.1	0.14	97.70
113.0-114.0	84.4	8.5	6369.6	0.13	97.83
114.0-115.0	80.9	8.1	6377.6	0.12	97.96
115.0-116.0	77.5	7.7	6385.3	0.12	98.08
116.0-117.0	74.2	7.3	6392.6	0.11	98.19
117.0-118.0	71.0	6.9	6399.5	0.11	98.29
118.0-119.0	68.0	6.6	6406.0	0.10	98.39
119.0-120.0	65.0	6.2	6412.2	0.10	98.49
120.0-121.0	62.2	5.9	6418.1	0.09	98.58
121.0-122.0	59.4	5.6	6423.7	0.09	98.66
122.0-123.0	56.7	5.2	6428.9	0.08	98.75
123.0-124.0	54.1	4.9	6433.9	0.08	98.82
124.0-125.0	51.7	4.7	6438.5	0.07	98.89
125.0-126.0	49.3	4.4	6442.9	0.07	98.96
126.0-127.0	46.9	4.1	6447.1	0.06	99.02
127.0-128.0	44.7	3.9	6451.0	0.06	99.08
128.0-129.0	42.5	3.7	6454.6	0.06	99.14
129.0-130.0	40.5	3.4	6458.0	0.05	99.19
130.0-131.0	38.5	3.2	6461.3	0.05	99.24
131.0-132.0	36.6	3.0	6464.3	0.05	99.29
132.0-133.0	34.9	2.8	6467.1	0.04	99.33
133.0-134.0	33.3	2.6	6469.7	0.04	99.37
134.0-135.0	31.7	2.5	6472.2	0.04	99.41
135.0-136.0	30.2	2.3	6474.5	0.04	99.45
136.0-137.0	28.8	2.2	6476.7	0.03	99.48
137.0-138.0	27.5	2.0	6478.7	0.03	99.51
138.0-139.0	26.3	1.9	6480.7	0.03	99.54
139.0-140.0	25.1	1.8	6482.4	0.03	99.57
140.0-141.0	24.0	1.7	6484.1	0.03	99.59
141.0-142.0	23.0	1.6	6485.7	0.02	99.62
142.0-143.0	22.1	1.5	6487.2	0.02	99.64
143.0-144.0	21.2	1.4	6488.5	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	20.4	1.3	6489.8	0.02	99.68
145.0-146.0	19.7	1.2	6491.1	0.02	99.70
146.0-147.0	19.1	1.2	6492.2	0.02	99.72
147.0-148.0	18.6	1.1	6493.3	0.02	99.73
148.0-149.0	18.3	1.0	6494.4	0.02	99.75
149.0-150.0	18.1	1.0	6495.4	0.02	99.77
150.0-151.0	17.9	1.0	6496.3	0.01	99.78
151.0-152.0	17.9	0.9	6497.3	0.01	99.80
152.0-153.0	17.9	0.9	6498.2	0.01	99.81
153.0-154.0	17.9	0.9	6499.1	0.01	99.82
154.0-155.0	17.9	0.8	6499.9	0.01	99.84
155.0-156.0	17.9	0.8	6500.7	0.01	99.85
156.0-157.0	17.9	0.8	6501.5	0.01	99.86
157.0-158.0	18.0	0.8	6502.3	0.01	99.87
158.0-159.0	18.0	0.7	6503.0	0.01	99.88
159.0-160.0	18.0	0.7	6503.7	0.01	99.89
160.0-161.0	18.1	0.7	6504.3	0.01	99.90
161.0-162.0	18.1	0.6	6505.0	0.01	99.91
162.0-163.0	18.2	0.6	6505.6	0.01	99.92
163.0-164.0	18.2	0.6	6506.1	0.01	99.93
164.0-165.0	18.3	0.5	6506.7	0.01	99.94
165.0-166.0	18.3	0.5	6507.2	0.01	99.95
166.0-167.0	18.3	0.5	6507.6	0.01	99.95
167.0-168.0	18.4	0.4	6508.1	0.01	99.96
168.0-169.0	18.4	0.4	6508.5	0.01	99.97
169.0-170.0	18.4	0.4	6508.8	0.01	99.97
170.0-171.0	18.5	0.3	6509.2	0.01	99.98
171.0-172.0	18.5	0.3	6509.5	0.00	99.98
172.0-173.0	18.5	0.3	6509.7	0.00	99.99
173.0-174.0	18.5	0.2	6510.0	0.00	99.99
174.0-175.0	18.6	0.2	6510.2	0.00	99.99
175.0-176.0	18.6	0.2	6510.3	0.00	100.00
176.0-177.0	18.6	0.1	6510.5	0.00	100.00
177.0-178.0	18.6	0.1	6510.5	0.00	100.00
178.0-179.0	18.6	0.1	6510.6	0.00	100.00
179.0-180.0	18.6	0.0	6510.6	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	1939.6	1940.8	1942.8	1942.6	1942.7	1941.7	1939.6	1940.8	1942.8	1942.6
G1.0	1941.4	1941.9	1942.8	1941.3	1940.2	1938.7	1936.9	1938.7	1942.0	1943.1
G2.0	1942.4	1942.2	1942.1	1939.2	1936.8	1934.9	1933.2	1935.9	1940.3	1942.9
G3.0	1942.6	1941.6	1940.5	1936.2	1932.7	1930.2	1928.7	1932.1	1937.8	1941.8
G4.0	1941.8	1940.3	1938.1	1932.4	1927.8	1924.6	1923.2	1927.5	1934.5	1939.9
G5.0	1940.2	1937.9	1934.9	1927.9	1922.2	1918.3	1916.9	1922.1	1930.5	1937.3
G6.0	1937.7	1934.8	1930.8	1922.8	1915.9	1911.3	1910.0	1916.9	1925.5	1933.9
G7.0	1934.4	1930.8	1926.0	1916.7	1908.4	1903.0	1902.1	1909.4	1919.8	1929.6
G8.0	1930.2	1926.1	1920.4	1910.3	1900.8	1894.3	1893.2	1900.8	1913.2	1924.9
G9.0	1924.9	1920.4	1914.2	1903.0	1892.1	1885.1	1883.6	1892.1	1906.4	1919.0
G10.0	1919.1	1914.0	1907.3	1894.9	1882.7	1874.8	1873.3	1882.5	1898.0	1912.7
G11.0	1912.0	1906.9	1899.5	1886.4	1873.0	1864.0	1862.1	1872.5	1887.9	1905.6
G12.0	1904.7	1898.8	1890.8	1877.1	1862.4	1851.9	1850.1	1861.3	1878.7	1897.4
G13.0	1896.3	1889.8	1881.8	1867.2	1851.1	1839.5	1837.4	1849.2	1868.7	1889.3
G14.0	1887.2	1880.4	1871.8	1856.4	1838.9	1826.3	1823.7	1836.7	1857.5	1880.2
G15.0	1876.7	1869.8	1861.5	1845.6	1826.7	1812.8	1809.2	1823.5	1846.1	1870.3
G16.0	1866.3	1859.1	1850.6	1833.9	1813.6	1798.2	1794.5	1808.9	1834.1	1860.0
G17.0	1854.6	1847.4	1838.8	1822.3	1800.5	1782.9	1779.3	1794.8	1821.8	1849.3
G18.0	1842.3	1834.8	1826.6	1809.3	1786.3	1767.4	1762.9	1778.7	1808.2	1837.7
G19.0	1829.1	1821.4	1814.0	1796.5	1771.7	1750.9	1745.7	1763.0	1794.3	1825.6
G20.0	1815.4	1807.7	1800.2	1782.9	1756.8	1733.9	1727.2	1745.9	1780.3	1812.8
G21.0	1801.2	1793.4	1786.5	1769.2	1740.9	1717.1	1709.6	1729.0	1765.4	1800.4
G22.0	1785.8	1778.2	1772.0	1754.8	1725.3	1698.9	1689.8	1710.7	1749.7	1786.6
G23.0	1770.2	1762.6	1757.7	1740.2	1709.5	1680.7	1671.1	1693.1	1734.2	1772.7
G24.0	1753.0	1745.7	1742.3	1725.3	1692.6	1661.4	1650.6	1673.3	1717.5	1758.0
G25.0	1736.4	1729.6	1726.6	1709.9	1675.6	1642.6	1629.4	1653.8	1700.2	1743.4
G26.0	1718.2	1711.8	1710.1	1694.2	1658.2	1621.8	1608.6	1633.6	1683.3	1728.1
G27.0	1700.2	1693.3	1693.9	1678.2	1640.3	1602.0	1586.1	1613.4	1665.9	1712.7
G28.0	1680.9	1674.8	1676.6	1661.9	1621.8	1581.3	1564.2	1592.7	1647.5	1696.2
G29.0	1661.5	1656.7	1659.2	1645.3	1603.8	1560.7	1541.7	1570.1	1628.9	1680.0
G30.0	1641.1	1636.4	1641.9	1628.5	1585.2	1538.4	1517.9	1549.0	1609.6	1662.9
G31.0	1621.5	1617.0	1624.0	1611.6	1566.3	1517.1	1494.2	1526.7	1590.7	1646.3
G32.0	1600.0	1596.2	1605.3	1594.0	1546.6	1495.0	1470.1	1503.5	1570.7	1628.2
G33.0	1578.0	1575.8	1587.1	1576.6	1527.7	1472.5	1446.0	1480.9	1550.9	1610.6
G34.0	1555.9	1554.6	1567.7	1559.2	1508.1	1449.1	1421.1	1457.4	1531.2	1593.4
G35.0	1533.8	1532.4	1549.0	1541.1	1487.8	1427.0	1395.1	1433.0	1510.7	1575.1
G36.0	1510.7	1510.7	1529.5	1523.2	1468.0	1402.9	1369.8	1409.1	1490.4	1556.5

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	1487.8	1488.4	1509.8	1503.7	1447.7	1379.7	1343.7	1384.5	1468.9	1537.4
G38.0	1464.0	1465.5	1489.4	1485.8	1427.1	1355.1	1317.8	1360.8	1448.1	1518.2
G39.0	1440.4	1442.5	1469.7	1465.9	1406.4	1330.9	1291.3	1334.7	1426.2	1498.8
G40.0	1415.9	1419.2	1449.3	1447.3	1385.5	1306.5	1265.0	1310.6	1404.6	1479.5
G41.0	1391.1	1395.5	1428.7	1428.2	1364.8	1281.8	1237.3	1284.6	1383.2	1459.1
G42.0	1365.3	1371.5	1407.8	1408.1	1343.0	1257.1	1209.3	1259.5	1361.1	1439.0
G43.0	1340.2	1347.8	1387.6	1388.6	1321.9	1232.0	1182.4	1233.1	1338.3	1418.9
G44.0	1314.8	1323.2	1365.6	1367.9	1300.2	1207.3	1155.1	1207.0	1315.7	1398.2
G45.0	1288.5	1298.8	1344.4	1348.3	1279.1	1182.3	1126.3	1180.6	1292.9	1377.1
G46.0	1262.0	1273.7	1322.6	1327.7	1256.9	1156.8	1097.9	1154.8	1270.9	1355.3
G47.0	1235.1	1249.6	1300.6	1307.4	1234.7	1131.8	1069.3	1127.6	1246.7	1333.8
G48.0	1208.2	1223.1	1279.0	1286.6	1212.9	1106.2	1040.6	1100.9	1224.4	1313.1
G49.0	1180.9	1198.8	1257.2	1265.5	1189.8	1080.5	1011.1	1074.2	1200.4	1290.6
G50.0	1154.1	1173.1	1233.7	1244.2	1167.3	1054.1	983.3	1047.4	1177.2	1268.4
G51.0	1127.1	1147.3	1211.1	1223.2	1145.0	1028.8	953.4	1021.1	1152.9	1245.5
G52.0	1098.7	1120.3	1188.8	1201.1	1122.1	1003.4	924.0	993.5	1129.4	1223.2
G53.0	1072.4	1096.0	1166.3	1180.2	1099.0	977.3	894.9	966.9	1104.7	1199.9
G54.0	1043.3	1069.1	1143.0	1158.1	1076.3	951.7	865.1	939.5	1080.8	1178.2
G55.0	1014.8	1043.4	1120.2	1136.3	1053.1	924.8	834.4	912.7	1056.9	1154.3
G56.0	986.7	1016.4	1096.3	1113.1	1029.7	899.7	804.9	885.3	1032.2	1131.3
G57.0	957.9	991.2	1073.3	1092.1	1006.8	873.5	775.6	857.9	1007.1	1107.2
G58.0	929.0	964.6	1049.2	1069.0	983.8	847.1	745.4	830.6	982.9	1084.0
G59.0	899.7	938.0	1026.3	1045.7	959.5	820.8	714.5	803.2	957.6	1060.0
G60.0	870.1	911.1	1002.3	1023.7	936.2	794.9	684.9	775.9	933.2	1035.9
G61.0	841.6	885.2	978.5	1000.3	912.6	768.2	653.8	747.8	908.2	1010.5
G62.0	812.2	858.5	954.5	978.8	888.8	742.0	624.5	721.0	883.1	986.6
G63.0	782.6	832.4	930.4	954.5	865.0	715.9	593.2	692.9	857.8	962.4
G64.0	752.3	805.3	907.0	931.3	841.3	691.0	562.5	666.7	833.1	938.2
G65.0	723.5	778.7	881.9	907.6	817.0	664.1	531.8	639.4	808.4	912.6
G66.0	694.0	751.7	857.9	884.3	792.8	638.5	502.1	612.8	782.6	887.8
G67.0	663.2	724.3	833.5	860.6	768.8	612.4	471.6	584.7	756.8	862.8
G68.0	633.8	698.0	809.5	836.7	745.2	586.6	441.4	557.9	732.8	838.2
G69.0	603.4	671.2	785.5	812.9	720.6	560.8	411.2	531.9	707.1	812.6
G70.0	573.1	644.5	760.5	789.4	698.2	536.3	381.3	504.9	682.5	787.9
G71.0	542.8	618.3	735.8	765.3	673.5	510.3	351.5	479.2	656.8	762.1
G72.0	513.0	591.7	711.7	741.8	650.5	485.6	321.9	453.2	631.8	737.2
G73.0	482.0	565.8	687.7	717.7	626.5	461.2	293.4	428.1	607.4	712.5

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 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	452.5	540.1	663.8	694.2	602.8	436.6	264.3	402.8	583.3	686.8
G75.0	423.3	513.5	638.9	669.9	578.8	411.9	237.1	378.1	558.4	662.4
G76.0	392.9	488.5	615.3	646.8	556.1	388.7	209.4	353.4	534.7	637.7
G77.0	363.6	463.1	590.9	622.8	533.2	365.0	183.8	330.3	510.5	612.7
G78.0	334.5	437.4	567.6	600.1	510.5	342.3	158.1	307.3	487.2	588.4
G79.0	305.8	412.1	543.5	576.5	487.8	319.7	134.7	285.1	464.3	565.1
G80.0	276.9	388.3	520.3	554.3	465.9	298.3	111.7	264.1	442.5	541.5
G81.0	249.1	363.3	496.8	531.6	444.2	277.7	92.3	243.3	420.5	519.0
G82.0	222.1	340.4	474.3	509.7	423.6	257.9	72.8	224.1	400.3	496.7
G83.0	195.3	317.1	452.4	488.1	403.4	239.3	56.7	206.8	381.0	475.7
G84.0	170.8	295.2	431.6	467.6	385.0	222.0	43.8	190.7	362.4	454.3
G85.0	146.3	273.5	409.7	447.2	366.5	205.4	33.9	177.2	345.8	435.9
G86.0	123.7	253.2	390.0	428.6	350.5	191.5	27.7	164.6	330.4	417.6
G87.0	102.1	233.6	370.9	411.3	335.2	178.9	25.2	154.6	317.5	401.6
G88.0	82.7	215.6	353.7	394.9	322.0	168.6	24.6	146.4	305.9	386.8
G89.0	65.5	199.1	337.6	380.6	310.5	160.1	24.4	138.8	295.8	374.7
G90.0	51.7	183.8	323.0	368.0	300.7	152.9	24.1	131.0	286.2	363.3
G91.0	40.4	170.7	309.7	357.2	291.5	145.7	23.9	124.1	276.8	352.8
G92.0	32.9	159.8	299.1	347.4	282.9	139.0	23.7	117.0	267.4	342.1
G93.0	28.9	150.7	289.4	337.5	273.5	132.4	23.4	110.6	258.3	332.0
G94.0	27.7	143.2	280.3	328.0	265.0	126.2	23.2	104.7	249.1	321.8
G95.0	27.1	136.0	271.0	318.5	256.5	119.9	23.0	99.6	240.2	311.6
G96.0	26.8	129.2	262.4	309.2	248.2	114.1	22.8	94.7	231.1	301.2
G97.0	26.5	122.6	253.6	299.6	240.0	108.4	22.5	90.2	222.3	291.9
G98.0	26.2	116.5	245.0	290.5	231.8	103.2	22.3	85.8	213.9	281.7
G99.0	25.9	110.4	236.2	281.5	223.8	98.0	22.0	81.6	205.9	272.0
G100.0	25.6	104.6	228.1	272.7	216.2	93.1	21.8	77.6	198.3	262.4
G101.0	25.3	99.0	219.7	264.0	208.2	88.3	21.6	73.8	191.3	253.1
G102.0	25.0	93.8	212.2	255.4	200.9	83.8	21.4	70.1	182.3	244.3
G103.0	24.7	88.7	204.1	246.8	193.4	79.3	21.2	66.5	169.8	235.9
G104.0	24.4	83.9	196.4	238.2	186.0	75.3	20.9	62.8	159.5	227.8
G105.0	24.1	79.3	189.0	230.1	179.1	71.4	20.7	58.6	150.6	220.4
G106.0	23.8	75.0	181.6	222.0	171.1	67.8	20.5	54.7	144.9	212.5
G107.0	23.5	70.8	174.5	214.1	160.5	63.7	20.3	51.3	139.7	205.3
G108.0	23.3	67.1	166.5	206.3	150.8	59.6	20.1	48.2	134.6	198.1
G109.0	23.0	63.5	155.6	198.9	142.2	55.8	19.9	45.7	129.6	190.9
G110.0	22.7	60.3	145.0	191.2	135.3	52.3	19.7	43.5	124.7	183.9

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:

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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	22.4	57.0	136.0	182.1	129.9	49.5	19.5	41.4	120.0	177.1
G112.0	22.1	53.7	129.1	174.5	124.3	47.0	19.3	39.3	115.7	170.6
G113.0	21.8	50.3	123.8	167.9	119.2	44.8	19.1	37.4	111.6	164.1
G114.0	21.5	47.0	118.5	161.1	114.3	42.6	18.9	35.5	107.0	157.6
G115.0	21.3	44.1	113.3	154.8	109.7	40.5	18.7	33.6	102.8	151.5
G116.0	21.0	41.3	108.2	148.6	105.0	38.5	18.5	32.0	98.6	145.6
G117.0	20.7	39.0	103.5	142.4	100.6	36.5	18.4	30.4	94.3	139.6
G118.0	20.5	37.0	98.6	136.3	96.1	34.7	18.1	28.9	90.3	133.7
G119.0	20.2	35.1	94.3	130.7	92.0	33.0	18.0	27.5	86.2	128.1
G120.0	20.0	33.2	90.0	124.9	88.1	31.4	17.8	26.1	81.9	122.5
G121.0	19.8	31.5	86.1	119.5	84.0	29.8	17.7	24.8	78.1	117.2
G122.0	19.5	30.0	82.3	114.1	79.8	28.3	17.5	23.6	74.0	112.0
G123.0	19.3	28.5	78.6	109.0	76.0	27.0	17.3	22.6	70.3	106.8
G124.0	19.1	27.1	75.1	104.2	72.1	25.6	17.2	21.6	66.9	101.9
G125.0	18.8	25.8	71.5	99.4	68.6	24.5	17.0	20.7	63.4	97.2
G126.0	18.6	24.5	68.0	94.6	65.2	23.4	16.9	19.9	60.1	92.6
G127.0	18.4	23.2	64.6	90.2	61.8	22.4	16.8	19.1	57.0	87.8
G128.0	18.2	22.2	61.2	85.7	58.7	21.4	16.6	18.4	54.0	83.5
G129.0	18.0	21.1	58.0	81.4	55.7	20.6	16.4	18.0	51.0	79.0
G130.0	17.8	20.2	54.7	77.1	52.6	19.8	16.2	17.7	48.2	75.0
G131.0	17.7	19.5	51.6	73.2	49.8	19.3	16.0	17.4	45.2	70.8
G132.0	17.5	19.1	48.5	69.2	46.9	18.9	15.8	17.2	42.7	66.9
G133.0	17.3	18.7	45.6	65.5	44.3	18.5	15.7	17.1	40.0	63.1
G134.0	17.2	18.4	42.8	61.7	41.7	18.3	15.6	17.0	37.7	59.4
G135.0	17.0	18.0	40.2	58.1	39.4	18.1	15.6	16.9	35.5	55.8
G136.0	16.9	17.8	37.6	54.7	37.0	17.9	15.6	16.8	33.5	52.3
G137.0	16.8	17.7	35.3	51.3	35.0	17.8	15.7	16.7	31.4	48.9
G138.0	16.6	17.5	33.2	48.2	32.9	17.7	15.7	16.6	29.6	45.7
G139.0	16.5	17.3	31.2	45.1	30.9	17.6	15.7	16.5	27.8	42.7
G140.0	16.4	17.2	29.2	42.3	29.0	17.5	15.8	16.5	26.1	39.8
G141.0	16.3	17.0	27.4	39.6	27.3	17.5	15.9	16.5	24.5	37.2
G142.0	16.2	16.9	25.6	37.0	25.6	17.5	15.9	16.5	23.1	34.6
G143.0	16.2	16.8	24.1	34.6	24.1	17.5	15.9	16.6	21.7	32.2
G144.0	16.1	16.6	22.6	32.2	22.8	17.5	15.9	16.6	20.5	30.0
G145.0	16.0	16.5	21.4	29.9	21.6	17.5	16.1	16.7	19.5	27.7
G146.0	15.9	16.5	20.2	27.8	20.7	17.6	16.2	16.8	19.0	25.8
G147.0	15.9	16.4	19.6	25.9	20.1	17.6	16.3	16.9	18.7	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:

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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	15.9	16.4	19.2	24.1	19.6	17.7	16.4	17.0	18.5	22.2
G149.0	15.9	16.5	18.8	22.5	19.4	17.8	16.5	17.1	18.4	20.8
G150.0	15.9	16.5	18.7	21.4	19.2	17.8	16.6	17.1	18.4	19.9
G151.0	16.0	16.6	18.5	20.6	19.1	17.9	16.8	17.2	18.4	19.3
G152.0	16.1	16.7	18.5	20.0	19.0	18.0	16.9	17.3	18.4	19.0
G153.0	16.3	16.8	18.5	19.6	19.0	18.0	17.0	17.4	18.4	18.7
G154.0	16.4	16.9	18.5	19.4	19.0	18.1	17.1	17.5	18.4	18.7
G155.0	16.5	17.0	18.5	19.2	19.0	18.2	17.2	17.5	18.4	18.6
G156.0	16.6	17.1	18.5	19.2	18.9	18.3	17.3	17.6	18.4	18.6
G157.0	16.8	17.2	18.5	19.1	18.9	18.3	17.4	17.7	18.4	18.5
G158.0	16.9	17.3	18.5	19.1	18.9	18.4	17.5	17.7	18.4	18.5
G159.0	17.0	17.4	18.5	19.0	19.0	18.4	17.6	17.8	18.4	18.5
G160.0	17.1	17.5	18.5	19.0	18.9	18.5	17.7	17.8	18.4	18.5
G161.0	17.2	17.7	18.5	19.0	19.0	18.5	17.7	17.9	18.4	18.5
G162.0	17.3	17.8	18.5	19.0	19.0	18.5	17.8	18.0	18.4	18.5
G163.0	17.4	17.9	18.5	19.0	19.0	18.6	17.9	18.0	18.4	18.5
G164.0	17.5	17.9	18.5	18.9	19.0	18.6	18.0	18.1	18.4	18.4
G165.0	17.7	18.0	18.6	18.9	19.0	18.6	18.0	18.1	18.4	18.4
G166.0	17.8	18.1	18.6	19.0	18.9	18.6	18.1	18.2	18.4	18.5
G167.0	17.9	18.1	18.6	18.9	18.9	18.7	18.2	18.2	18.4	18.5
G168.0	18.0	18.2	18.6	18.9	18.9	18.7	18.3	18.3	18.4	18.5
G169.0	18.0	18.2	18.7	19.0	18.9	18.7	18.4	18.3	18.4	18.5
G170.0	18.1	18.3	18.7	19.0	18.8	18.6	18.4	18.4	18.4	18.6
G171.0	18.3	18.3	18.7	19.0	18.8	18.6	18.5	18.4	18.4	18.6
G172.0	18.4	18.3	18.7	19.0	18.8	18.6	18.5	18.4	18.4	18.6
G173.0	18.4	18.4	18.7	19.0	18.7	18.6	18.6	18.5	18.4	18.7
G174.0	18.5	18.4	18.7	19.0	18.7	18.6	18.6	18.4	18.4	18.7
G175.0	18.6	18.4	18.7	19.0	18.6	18.6	18.6	18.5	18.5	18.8
G176.0	18.6	18.5	18.6	18.9	18.6	18.6	18.7	18.5	18.5	18.8
G177.0	18.7	18.5	18.6	19.0	18.6	18.6	18.7	18.5	18.5	18.8
G178.0	18.7	18.5	18.6	19.0	18.5	18.5	18.8	18.5	18.5	18.8
G179.0	18.7	18.5	18.6	18.9	18.5	18.5	18.8	18.5	18.6	18.8
G180.0	18.8	18.5	18.6	18.8	18.5	18.5	18.8	18.5	18.6	18.9

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:

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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1942.7	1941.7	1939.6							
G1.0	1944.4	1943.9	1941.4							
G2.0	1945.3	1945.2	1942.4							
G3.0	1945.3	1945.6	1942.6							
G4.0	1944.6	1945.2	1941.8							
G5.0	1943.0	1943.9	1940.2							
G6.0	1940.5	1941.8	1937.7							
G7.0	1937.3	1938.7	1934.4							
G8.0	1933.5	1935.0	1930.2							
G9.0	1928.8	1930.3	1924.9							
G10.0	1923.0	1924.6	1919.1							
G11.0	1916.9	1918.2	1912.0							
G12.0	1909.6	1911.1	1904.7							
G13.0	1901.9	1903.3	1896.3							
G14.0	1893.3	1894.2	1887.2							
G15.0	1884.4	1884.6	1876.7							
G16.0	1874.4	1874.3	1866.3							
G17.0	1863.8	1863.5	1854.6							
G18.0	1852.7	1851.3	1842.3							
G19.0	1841.1	1838.6	1829.1							
G20.0	1828.2	1825.3	1815.4							
G21.0	1815.6	1810.9	1801.2							
G22.0	1802.1	1796.2	1785.8							
G23.0	1788.1	1781.6	1770.2							
G24.0	1773.5	1765.6	1753.0							
G25.0	1758.5	1748.2	1736.4							
G26.0	1742.8	1731.3	1718.2							
G27.0	1727.0	1713.3	1700.2							
G28.0	1710.3	1694.7	1680.9							
G29.0	1693.2	1676.1	1661.5							
G30.0	1675.5	1655.6	1641.1							
G31.0	1658.0	1636.4	1621.5							
G32.0	1639.4	1615.4	1600.0							
G33.0	1620.9	1594.5	1578.0							
G34.0	1601.9	1573.0	1555.9							
G35.0	1582.7	1551.0	1533.8							
G36.0	1563.5	1529.1	1510.7							

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:

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Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1543.6	1506.7	1487.8							
G38.0	1523.8	1483.1	1464.0							
G39.0	1503.0	1459.1	1440.4							
G40.0	1482.3	1436.4	1415.9							
G41.0	1461.8	1412.4	1391.1							
G42.0	1440.1	1388.1	1365.3							
G43.0	1418.1	1362.8	1340.2							
G44.0	1396.8	1337.8	1314.8							
G45.0	1374.6	1313.2	1288.5							
G46.0	1352.8	1287.0	1262.0							
G47.0	1329.8	1261.9	1235.1							
G48.0	1307.5	1236.1	1208.2							
G49.0	1284.6	1210.0	1180.9							
G50.0	1261.9	1184.4	1154.1							
G51.0	1237.5	1157.0	1127.1							
G52.0	1213.8	1131.6	1098.7							
G53.0	1190.4	1104.2	1072.4							
G54.0	1166.9	1077.9	1043.3							
G55.0	1142.6	1050.3	1014.8							
G56.0	1117.6	1023.7	986.7							
G57.0	1093.6	996.6	957.9							
G58.0	1068.9	969.3	929.0							
G59.0	1044.2	942.0	899.7							
G60.0	1020.0	915.3	870.1							
G61.0	994.9	887.2	841.6							
G62.0	969.1	860.2	812.2							
G63.0	944.3	831.9	782.6							
G64.0	919.3	804.8	752.3							
G65.0	893.8	777.0	723.5							
G66.0	868.3	749.5	694.0							
G67.0	842.2	722.6	663.2							
G68.0	817.2	694.5	633.8							
G69.0	791.6	667.0	603.4							
G70.0	765.8	640.2	573.1							
G71.0	740.1	612.2	542.8							
G72.0	714.8	585.4	513.0							
G73.0	689.2	558.3	482.0							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	664.1	531.9	452.5							
G75.0	638.2	504.8	423.3							
G76.0	612.9	479.0	392.9							
G77.0	587.9	452.5	363.6							
G78.0	563.7	427.4	334.5							
G79.0	538.5	402.1	305.8							
G80.0	513.8	377.2	276.9							
G81.0	491.0	352.2	249.1							
G82.0	467.9	329.0	222.1							
G83.0	445.9	306.6	195.3							
G84.0	423.8	284.2	170.8							
G85.0	403.1	264.2	146.3							
G86.0	383.2	243.9	123.7							
G87.0	365.6	225.5	102.1							
G88.0	349.3	209.0	82.7							
G89.0	334.8	193.9	65.5							
G90.0	321.7	180.9	51.7							
G91.0	311.1	170.1	40.4							
G92.0	300.6	161.3	32.9							
G93.0	290.7	153.1	28.9							
G94.0	280.6	145.3	27.7							
G95.0	271.2	137.5	27.1							
G96.0	261.3	130.1	26.8							
G97.0	252.2	122.8	26.5							
G98.0	242.6	116.3	26.2							
G99.0	233.2	110.3	25.9							
G100.0	224.2	104.8	25.6							
G101.0	215.7	99.6	25.3							
G102.0	207.4	94.6	25.0							
G103.0	199.7	90.1	24.7							
G104.0	192.2	85.6	24.4							
G105.0	181.9	81.4	24.1							
G106.0	169.2	77.2	23.8							
G107.0	160.3	73.4	23.5							
G108.0	151.6	69.4	23.3							
G109.0	146.2	65.2	23.0							
G110.0	140.7	60.9	22.7							

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:

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Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	135.3	57.0	22.4							
G112.0	130.0	53.3	22.1							
G113.0	124.8	50.2	21.8							
G114.0	119.6	47.4	21.5							
G115.0	114.8	45.1	21.3							
G116.0	109.9	42.8	21.0							
G117.0	105.5	40.6	20.7							
G118.0	101.2	38.3	20.5							
G119.0	96.8	36.3	20.2							
G120.0	92.6	34.3	20.0							
G121.0	88.3	32.5	19.8							
G122.0	84.2	30.7	19.5							
G123.0	80.2	29.1	19.3							
G124.0	76.1	27.6	19.1							
G125.0	72.3	26.1	18.8							
G126.0	68.6	24.7	18.6							
G127.0	64.8	23.3	18.4							
G128.0	61.2	22.2	18.2							
G129.0	57.8	21.0	18.0							
G130.0	54.4	20.0	17.8							
G131.0	51.1	19.1	17.7							
G132.0	47.9	18.4	17.5							
G133.0	45.0	17.9	17.3							
G134.0	42.2	17.5	17.2							
G135.0	39.5	17.2	17.0							
G136.0	37.1	16.9	16.9							
G137.0	34.7	16.8	16.8							
G138.0	32.6	16.6	16.6							
G139.0	30.6	16.5	16.5							
G140.0	28.7	16.4	16.4							
G141.0	26.9	16.2	16.3							
G142.0	25.2	16.1	16.2							
G143.0	23.5	16.0	16.2							
G144.0	22.1	15.9	16.1							
G145.0	20.8	15.9	16.0							
G146.0	19.6	15.9	15.9							
G147.0	18.9	16.0	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:

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Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	18.5	16.1	15.9							
G149.0	18.2	16.1	15.9							
G150.0	18.0	16.2	15.9							
G151.0	18.0	16.3	16.0							
G152.0	18.0	16.4	16.1							
G153.0	18.0	16.5	16.3							
G154.0	18.0	16.5	16.4							
G155.0	17.9	16.7	16.5							
G156.0	17.9	16.8	16.6							
G157.0	17.8	16.9	16.8							
G158.0	17.8	17.0	16.9							
G159.0	17.8	17.1	17.0							
G160.0	17.9	17.1	17.1							
G161.0	17.9	17.2	17.2							
G162.0	17.9	17.3	17.3							
G163.0	18.0	17.4	17.4							
G164.0	18.0	17.5	17.5							
G165.0	18.0	17.6	17.7							
G166.0	18.1	17.6	17.8							
G167.0	18.1	17.7	17.9							
G168.0	18.1	17.8	18.0							
G169.0	18.2	17.8	18.0							
G170.0	18.2	17.9	18.1							
G171.0	18.3	18.0	18.3							
G172.0	18.3	18.0	18.4							
G173.0	18.3	18.1	18.4							
G174.0	18.3	18.1	18.5							
G175.0	18.3	18.2	18.6							
G176.0	18.4	18.3	18.6							
G177.0	18.4	18.3	18.7							
G178.0	18.4	18.4	18.7							
G179.0	18.4	18.4	18.7							
G180.0	18.5	18.5	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: