

FACTORY DIRECT LIGHTING

Tel:
Fax:

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Report No.: 20170711002

Test Time: 2017-07-13 15:11

Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-40LED4K-120MD

Lamp Catalog: 2835/ACT

Luminous Length (mm): 1290

Luminous Height (mm): 100

Current: 0.326 A

Power Factor: 0.998

Lamp Description: 2835/4000K

Luminous Width (mm): 100

Voltage: 119.4 V

Power: 38.89 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 4711.8 lm

Downward Ratio: 90%

Field Angle: H158.0 V232.5

Luminaire Efficacy Rating (LER): 121

Max. Intensity: 1310.19 cd

Total Rated Lamp Lumens: 4711.8 lm

Efficiency: 100%

Upward Ratio: 10%

Beam Angle: H102.9 V137.6

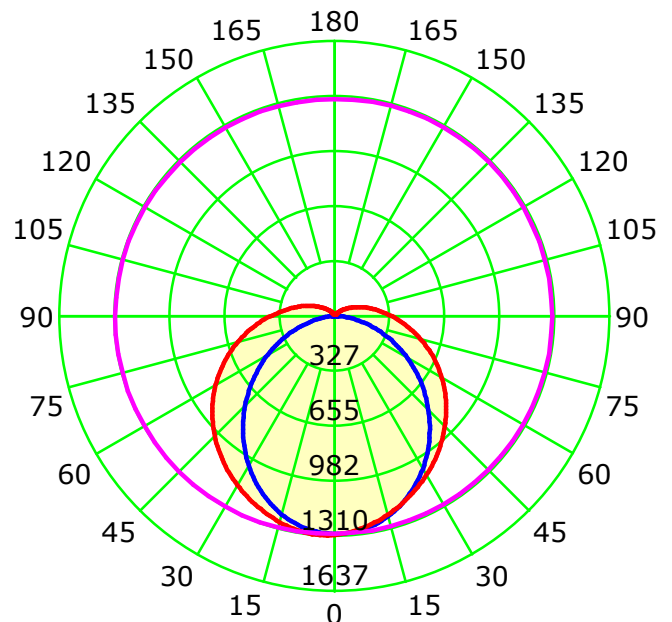
Central Intensity: 1297.56 cd

Pos of Max. Intensity: H300 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.690 m

Humidity: 45-75

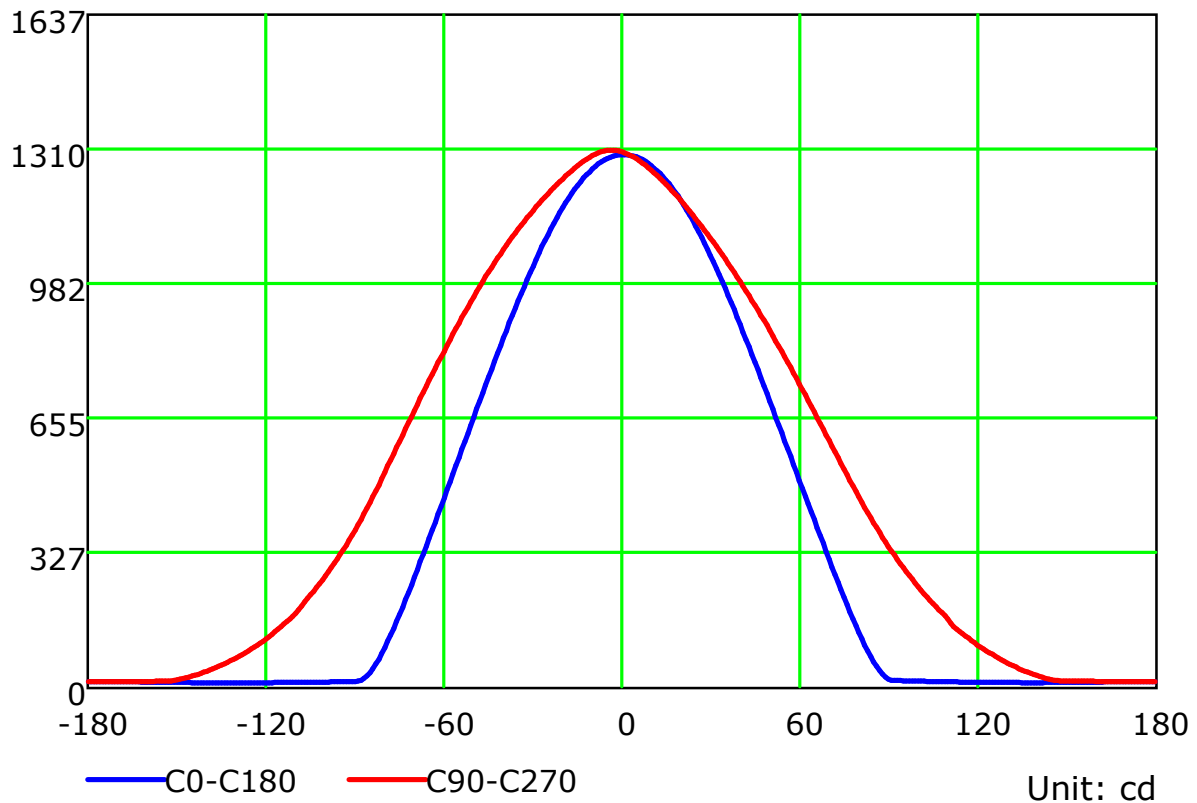
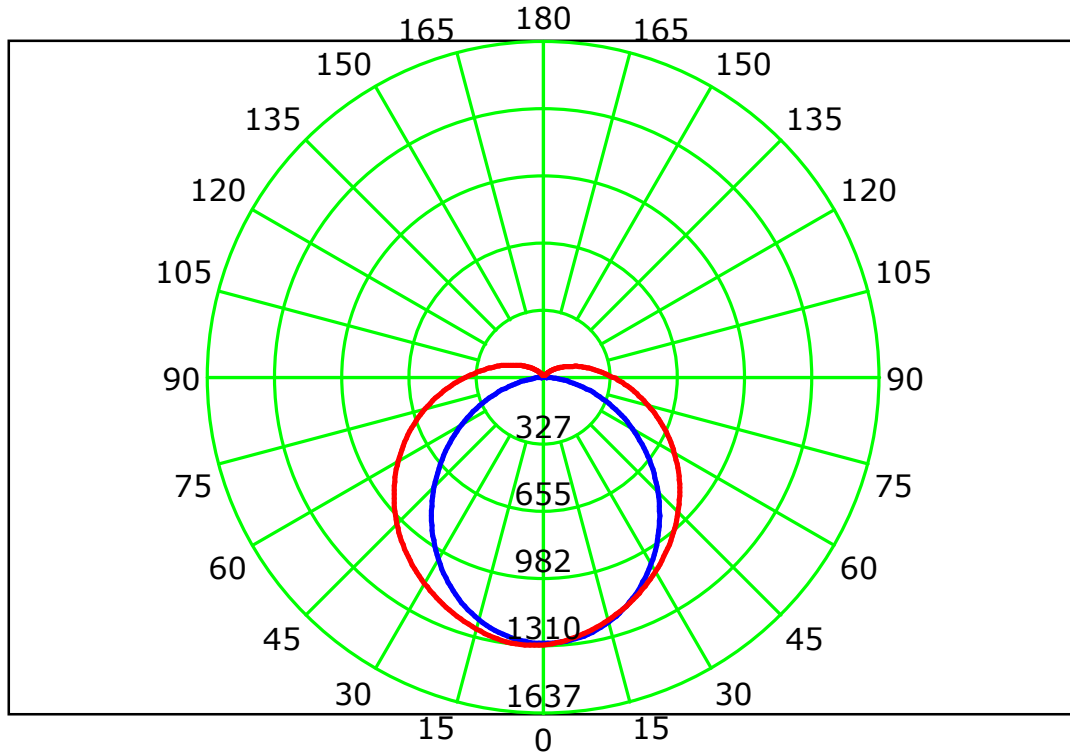
Inspector:

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Luminous Intensity Distribution Curve



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

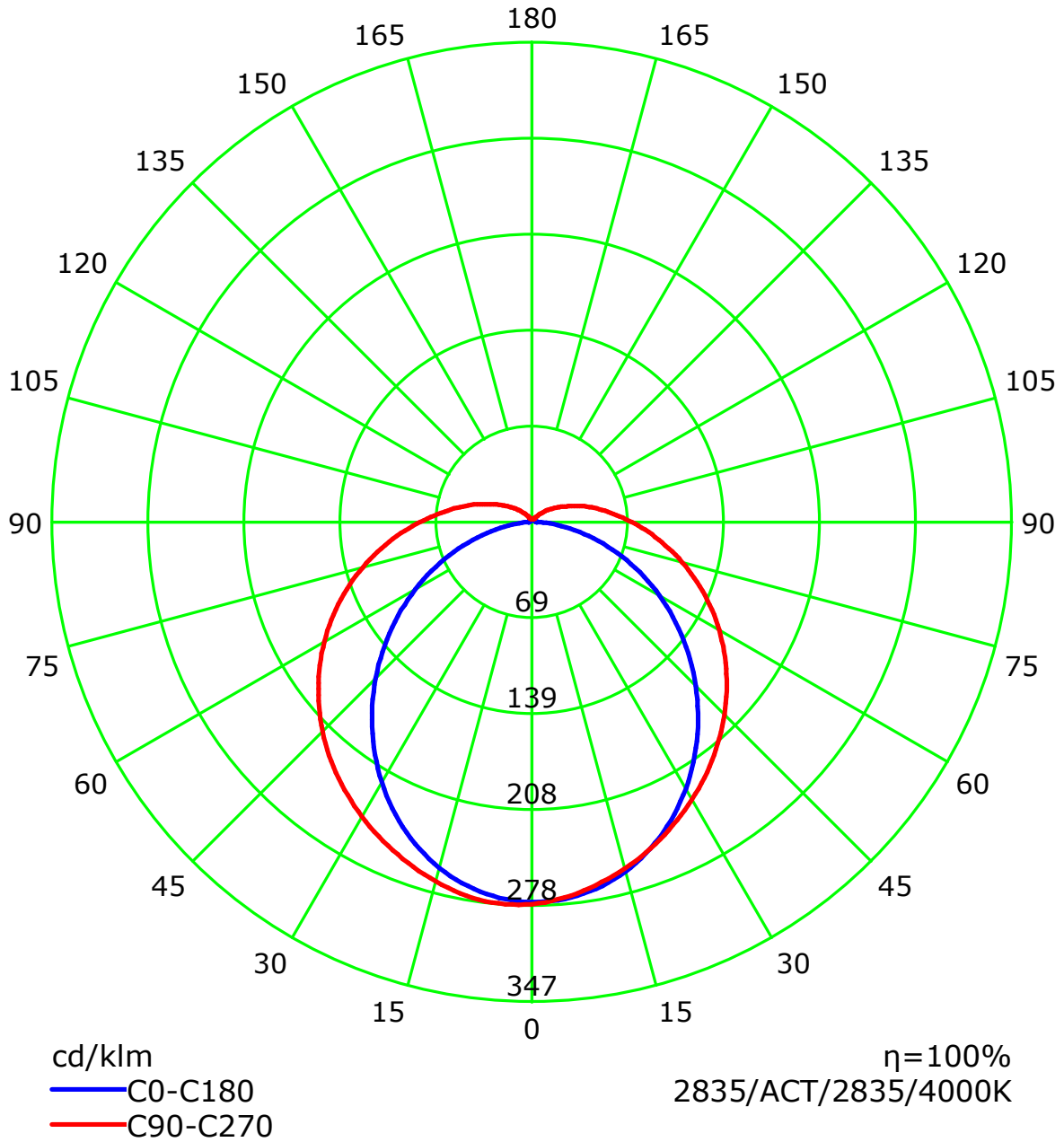
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

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Luminous Intensity Distribution Curve(cd/klm)



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

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

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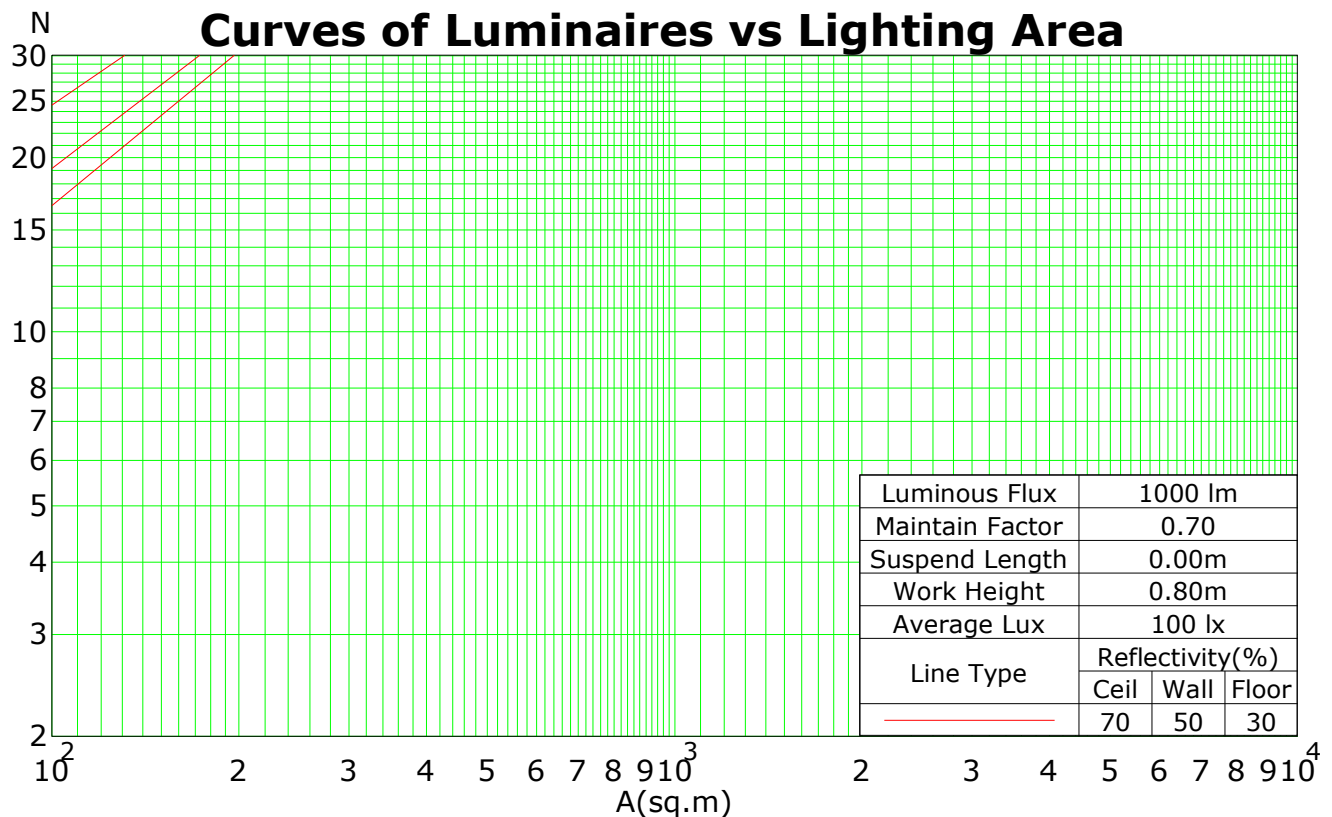
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	104	98	93	89	100	95	90	86	89	85	82	83	80	77	78	75	73	70
2	94	85	77	70	90	82	75	69	76	71	66	72	67	63	67	63	60	57
3	85	74	65	58	82	71	63	57	67	60	54	63	57	52	59	54	50	47
4	78	65	56	48	74	63	54	48	59	52	46	55	49	44	52	47	42	40
5	71	58	48	41	68	56	47	41	53	45	39	50	43	38	47	41	37	34
6	66	52	43	36	63	50	42	35	47	40	34	45	38	33	42	37	32	30
7	61	47	38	32	58	46	37	31	43	36	30	41	34	29	39	33	28	26
8	57	43	34	28	54	42	33	28	39	32	27	37	31	26	35	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	33	27	23	21
10	49	36	28	23	48	35	28	22	33	27	22	32	26	21	30	25	21	19

Spacing Criteria (0-180): 1.19

Spacing Criteria (90-270): 1.29

Spacing Criteria (Diagonal): 1.38



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

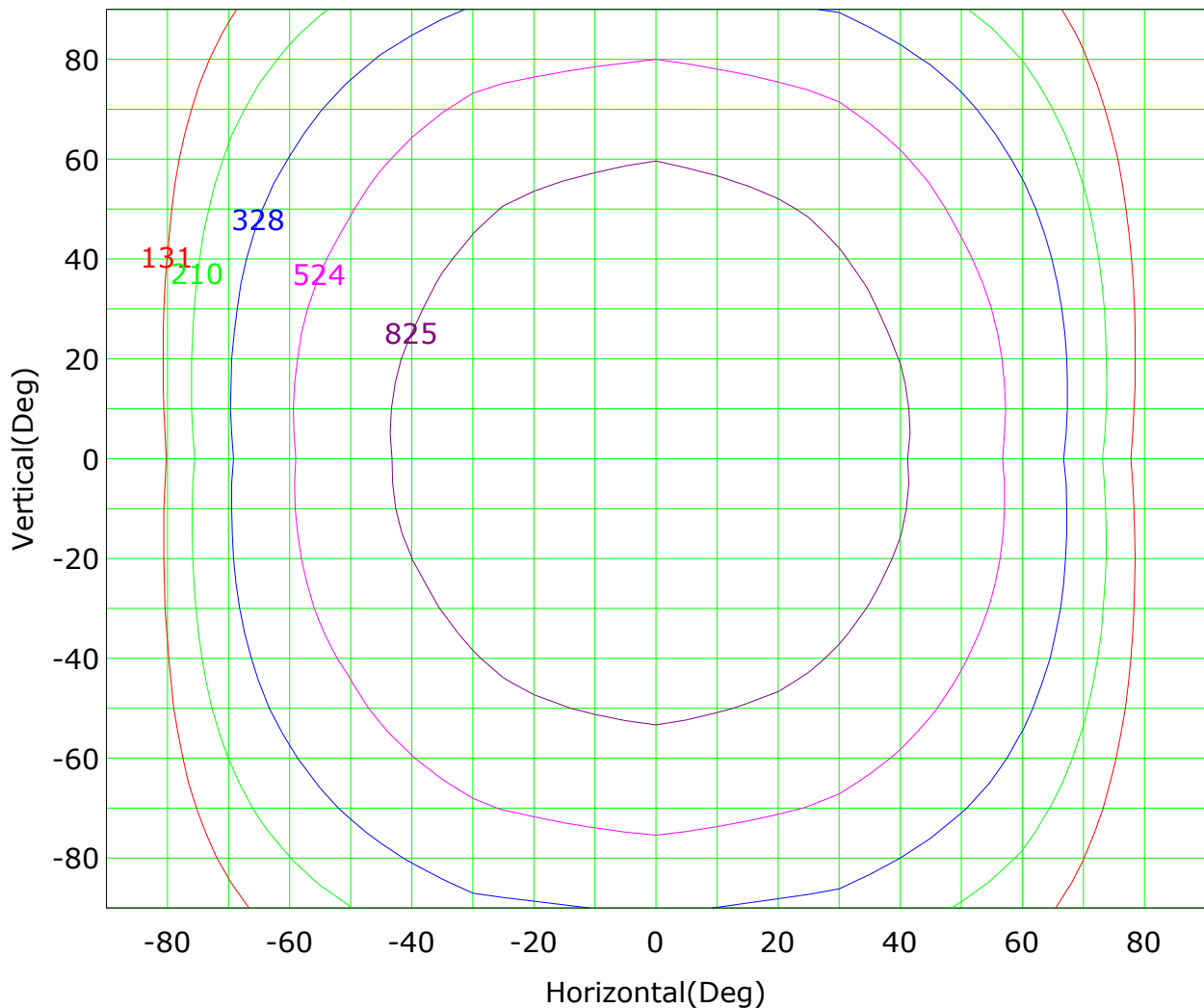
Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Isocandela (rectangle)



Imax (100%): 1310 cd

(10%): 131 cd	(16%): 210 cd
(25%): 328 cd	(40%): 524 cd
(63%): 825 cd	(100%): 1310 cd

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

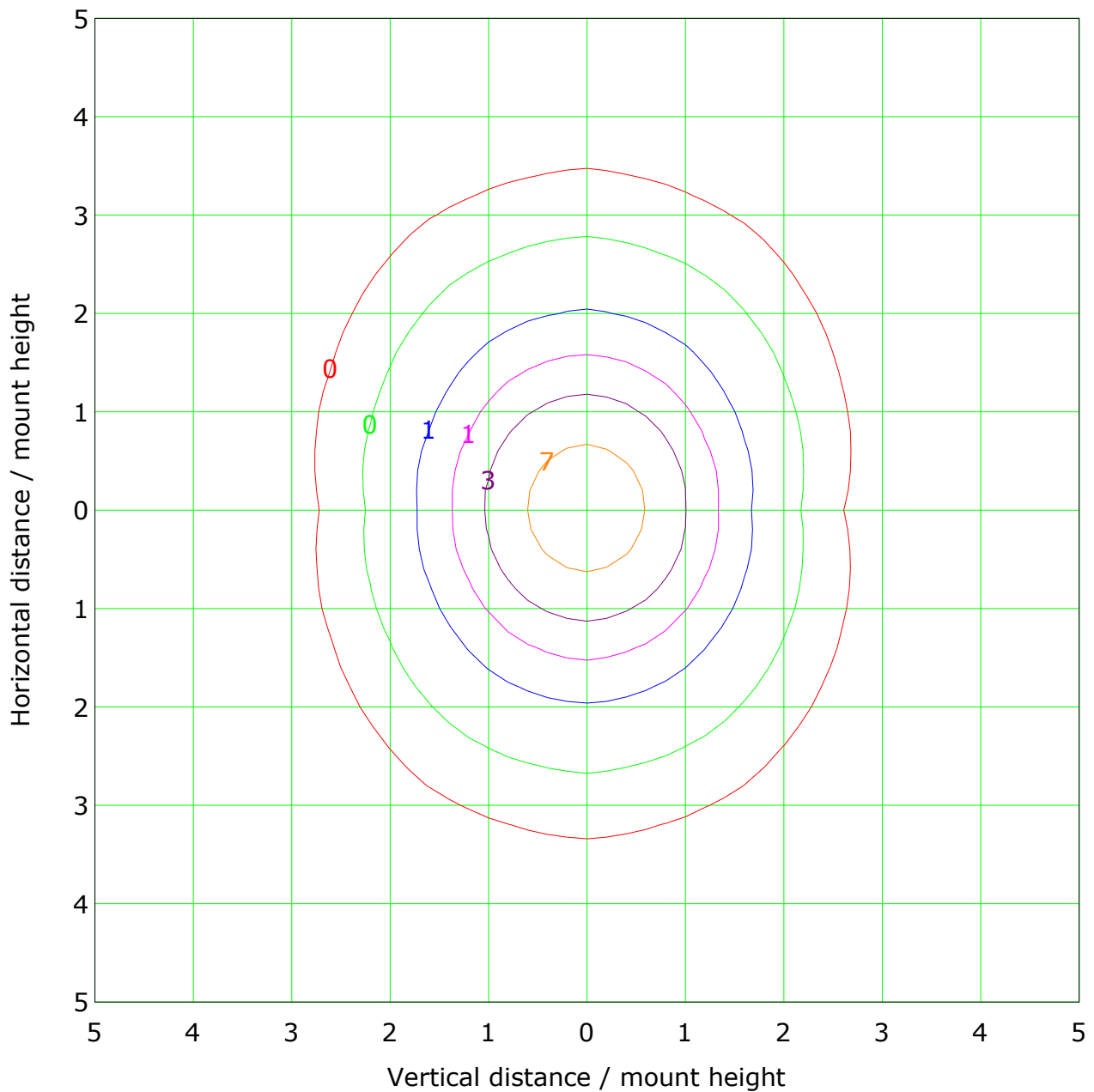
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 13.1 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.3 lx
(20%): 2.6 lx	(50%): 6.5 lx
(100%): 13.1 lx	

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

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

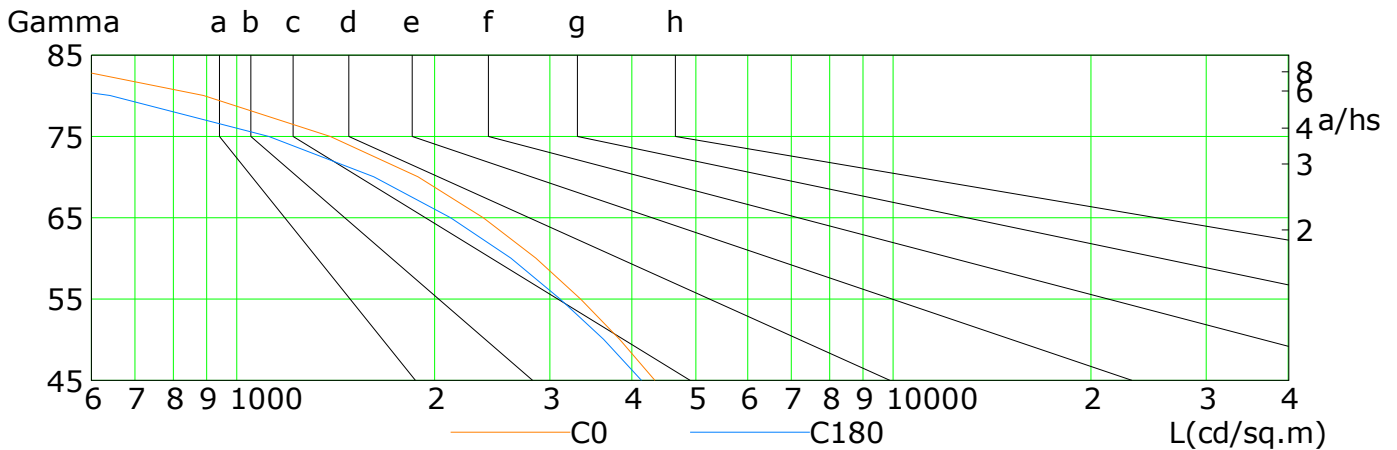
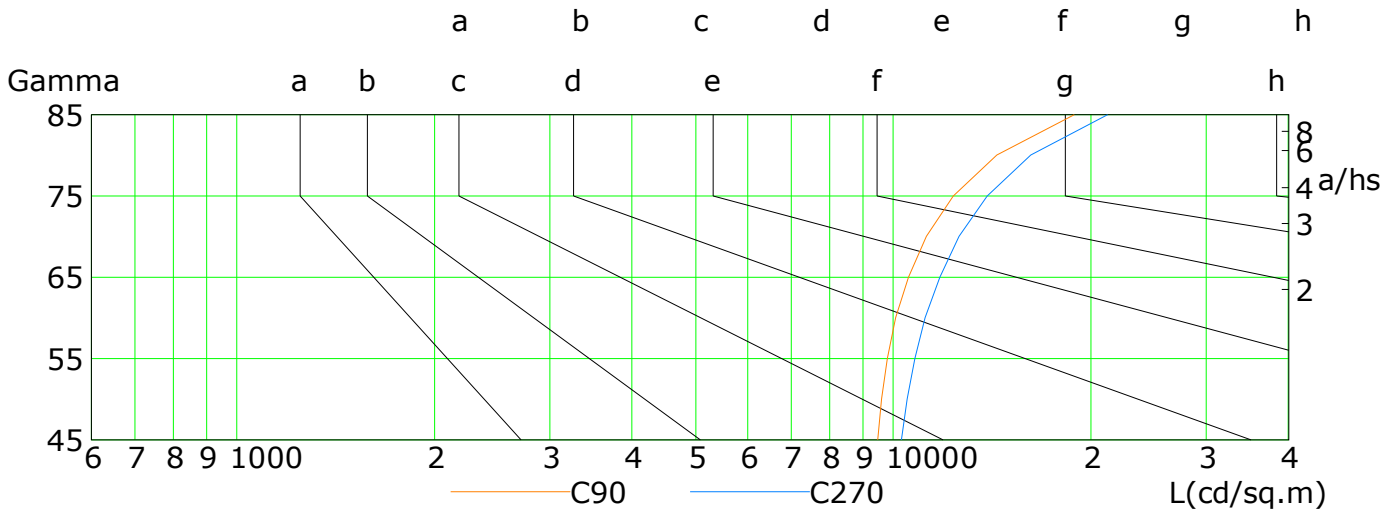
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Lum Limit Curve

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4337	3833	3342	2856	2376	1886	1387	889	441
C90	9463	9592	9794	10093	10540	11221	12342	14370	18881
C180	4139	3620	3111	2615	2119	1618	1120	641	253
C270	10289	10502	10792	11191	11763	12589	13908	16212	21205

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

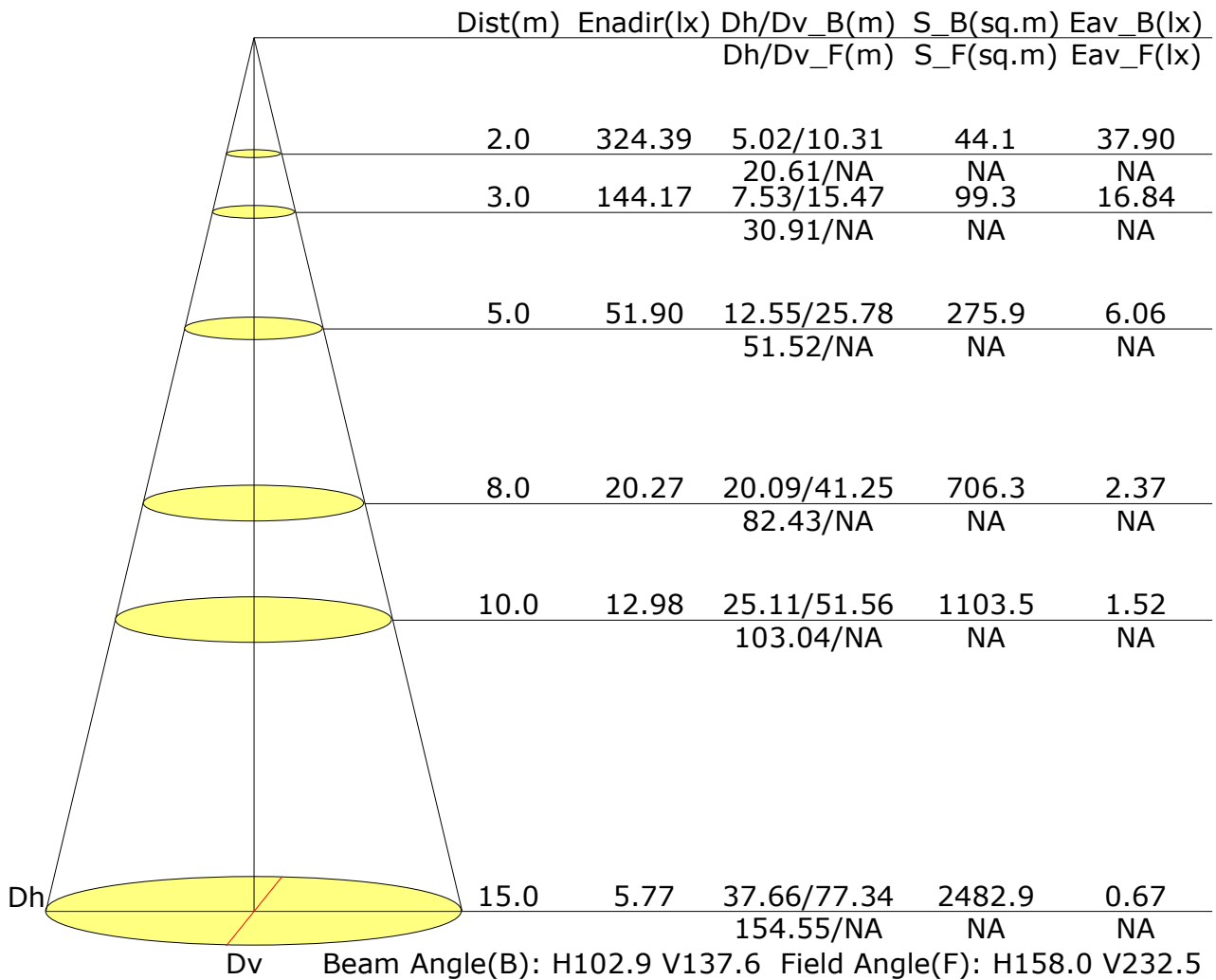
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

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Illuminance at a Distance



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

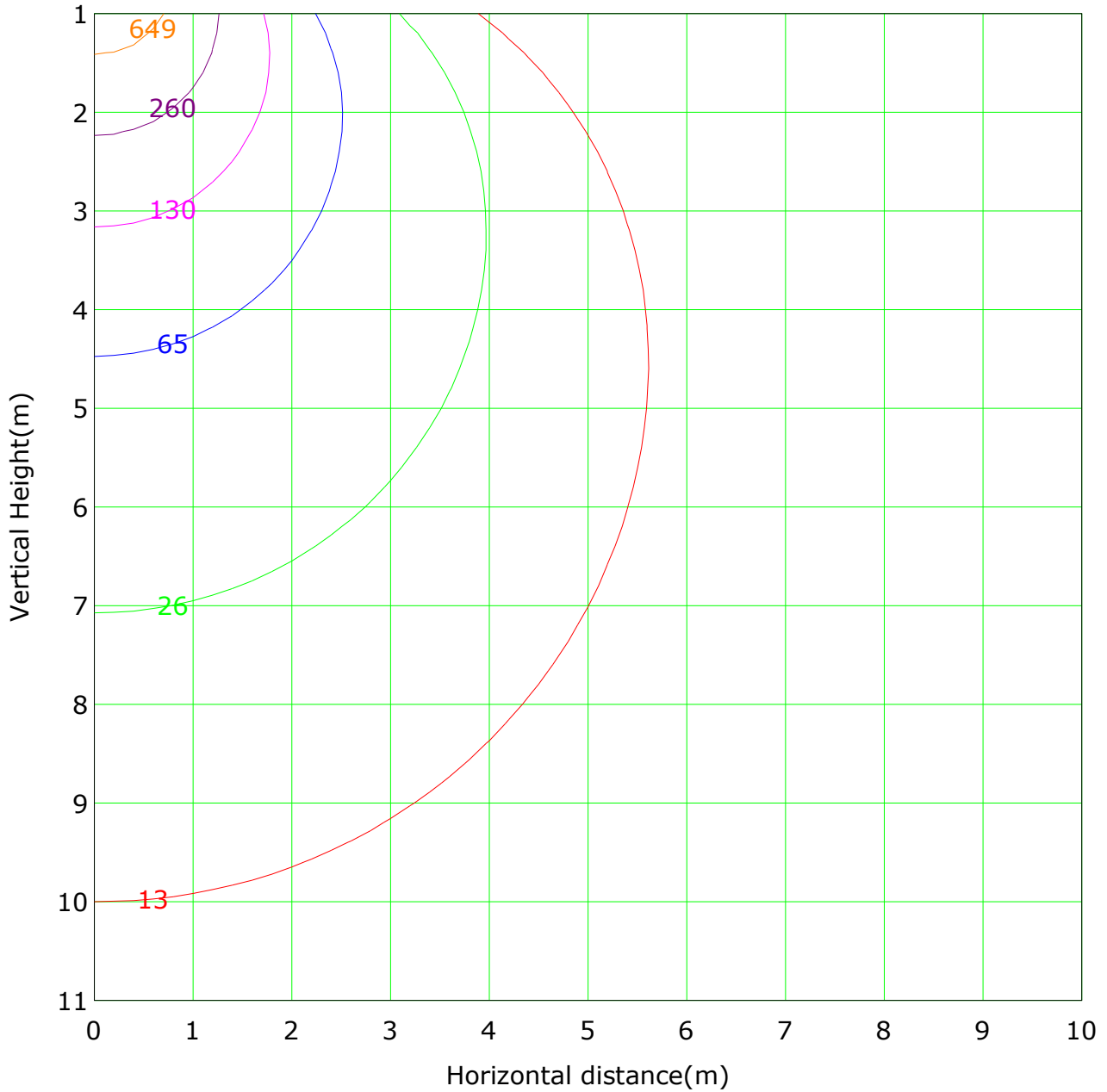
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

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Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1297.6 lx
— (1%): 13.0 lx — (2%): 26.0 lx
— (5%): 64.9 lx — (10%): 129.8 lx
— (20%): 259.5 lx — (50%): 648.8 lx
— (100%): 1297.6 lx

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

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

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Area Flux Table

Unit: lm

Vertical plane	Orbit, m																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
Flux(E)	0.1	0.8	2.0	3.8	6.0	8.5	10.7	12.2	13.3	13.4	12.4	11.0	8.9	6.3	4.1	2.2	0.9	0.2	116.7	114.7
-90	0.1	0.9	2.5	4.8	7.7	11.0	14.0	16.1	17.7	17.8	16.4	14.5	11.5	8.1	5.1	2.7	1.0	0.2	152.4	151.1
-80	0.1	1.1	3.0	5.9	9.5	13.6	17.5	20.2	22.1	22.2	20.6	18.0	14.2	10.0	6.2	3.3	1.2	0.2	188.9	188.0
-70	0.2	1.2	3.5	6.9	11.3	16.1	20.7	24.1	26.3	26.4	24.5	21.3	16.7	11.8	7.3	3.9	1.4	0.2	223.8	223.1
-60	0.2	1.4	4.0	7.9	12.8	18.3	23.6	27.6	30.0	30.2	28.0	24.3	19.0	13.4	8.4	4.4	1.6	0.2	255.4	254.8
-50	0.2	1.5	4.4	8.8	14.2	20.3	26.1	30.6	33.2	33.4	31.1	26.8	20.9	14.8	9.4	4.9	1.7	0.2	282.6	282.0
-40	0.2	1.6	4.7	9.5	15.4	21.8	28.1	33.1	35.9	36.1	33.6	28.8	22.6	16.1	10.1	5.2	1.8	0.2	304.9	304.4
-30	0.2	1.6	4.9	9.9	16.2	23.1	29.6	35.0	38.0	38.3	35.6	30.4	23.8	16.9	10.5	5.4	1.9	0.2	321.4	320.9
-20	0.2	1.5	4.8	9.9	16.4	23.6	30.4	35.9	39.0	39.3	36.4	31.1	24.3	17.2	10.6	5.4	1.8	0.2	328.1	327.6
-10	0.2	1.5	4.8	9.9	16.3	23.4	30.2	35.6	38.6	38.6	35.8	30.7	24.1	17.0	10.6	5.4	1.8	0.2	324.7	324.2
0	0.2	1.6	4.8	9.8	16.0	22.7	29.0	34.1	36.8	36.9	34.2	29.3	23.1	16.5	10.4	5.3	1.9	0.2	312.8	312.3
10	0.2	1.5	4.7	9.4	15.1	21.3	27.2	31.7	34.2	34.3	31.9	27.4	21.6	15.5	9.8	5.1	1.8	0.2	292.9	292.3
20	0.2	1.5	4.4	8.7	13.8	19.5	24.8	28.9	31.2	31.3	29.1	25.1	19.8	14.1	9.0	4.7	1.7	0.2	267.9	267.4
30	0.2	1.3	4.0	7.7	12.4	17.4	22.2	25.7	27.8	27.8	25.8	22.4	17.7	12.6	8.0	4.2	1.6	0.2	239.0	238.4
40	0.2	1.2	3.5	6.7	10.8	15.1	19.2	22.1	24.0	24.0	22.3	19.4	15.4	11.0	6.9	3.7	1.4	0.2	206.9	206.2
50	0.1	1.0	2.9	5.7	9.0	12.6	16.0	18.3	19.9	20.0	18.5	16.2	12.9	9.2	5.9	3.1	1.2	0.2	172.8	171.8
60	0.1	0.9	2.4	4.6	7.3	10.2	12.7	14.5	15.8	15.8	14.7	12.9	10.4	7.4	4.8	2.6	1.0	0.2	138.1	136.7
70	0.1	0.7	1.9	3.6	5.6	7.8	9.7	10.9	11.9	11.9	11.1	9.9	8.0	5.8	3.7	2.0	0.8	0.1	105.7	103.6
80	2.8	22.7	67.4	133.6	215.8	306.3	391.7	456.6	495.8	497.7	462.0	399.4	314.7	223.8	140.8	73.5	26.6	3.8	4235	
90	0.0	17.2	67.0	133.6	215.8	306.3	391.7	456.6	495.8	497.7	462.0	399.4	314.7	223.8	140.8	73.4	23.5	0.2		4219

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

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

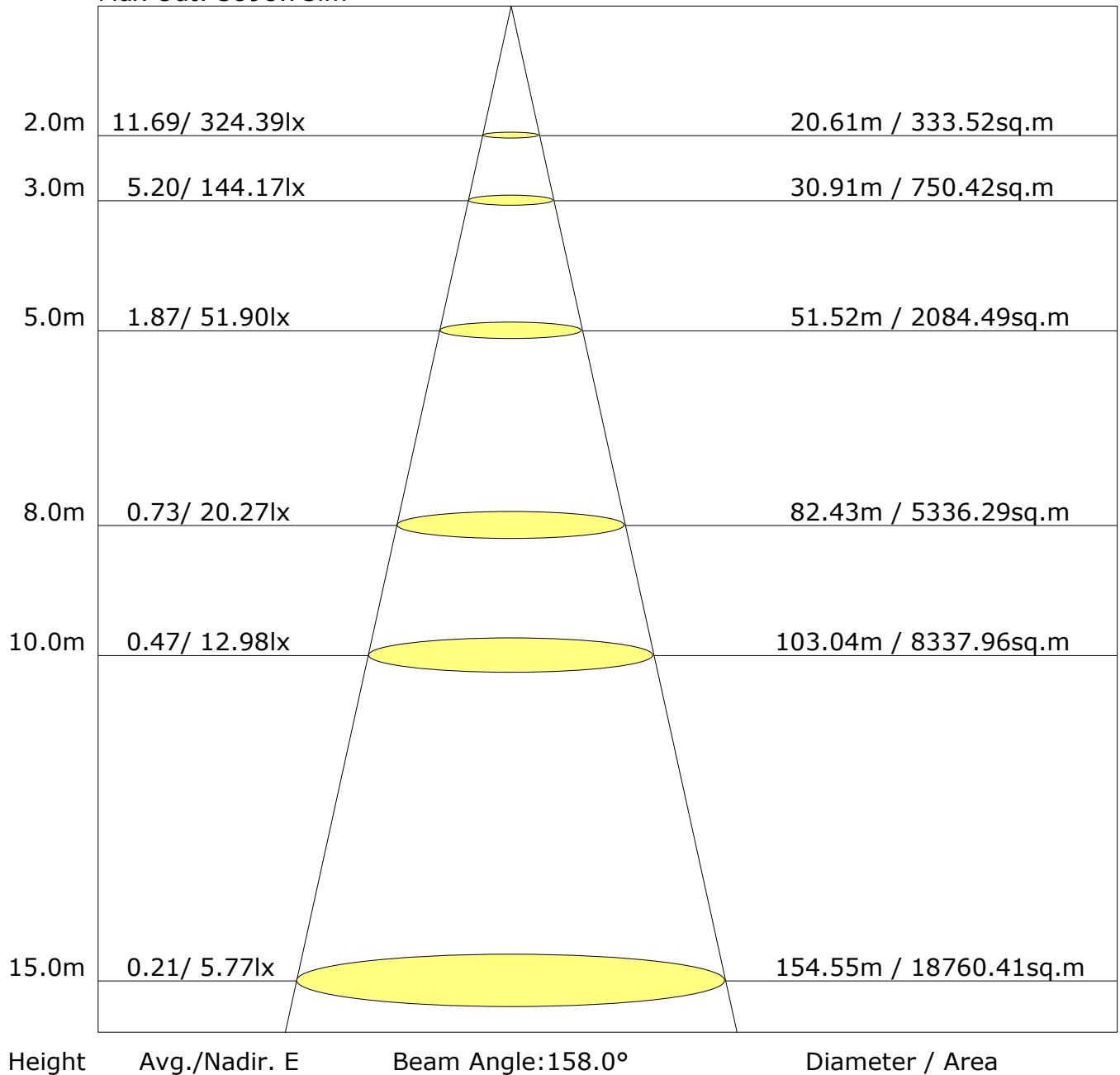
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The Average Illuminance Effective Figure

Flux Out: 3898.73lm



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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	11.2	12.7	11.7	13.2	13.8	11.2	12.7	11.7	13.2	13.7
3H	13.0	14.4	13.5	14.9	15.5	13.3	14.6	13.8	15.2	15.8
4H	13.7	15.0	14.2	15.5	16.1	14.2	15.5	14.8	16.0	16.7
6H	14.2	15.4	14.7	15.9	16.5	15.1	16.3	15.6	16.8	17.5
8H	14.3	15.5	14.9	16.0	16.7	15.5	16.6	16.0	17.2	17.8
12H	14.4	15.5	15.0	16.1	16.7	15.8	17.0	16.4	17.5	18.2
X=4H Y=2H	11.8	13.1	12.4	13.7	14.3	11.7	13.0	12.3	13.6	14.2
3H	13.8	14.9	14.4	15.5	16.1	14.1	15.2	14.7	15.8	16.4
4H	14.6	15.7	15.2	16.2	16.9	15.2	16.2	15.8	16.8	17.5
6H	15.3	16.2	15.9	16.8	17.5	16.3	17.2	16.8	17.8	18.4
8H	15.5	16.4	16.1	17.0	17.6	16.7	17.6	17.3	18.2	18.9
12H	15.7	16.4	16.3	17.1	17.8	17.2	18.0	17.8	18.6	19.3
X=8H Y=4H	15.1	15.9	15.7	16.6	17.2	15.5	16.4	16.1	17.0	17.7
6H	15.9	16.6	16.5	17.3	18.0	16.8	17.5	17.4	18.2	18.8
8H	16.2	16.9	16.9	17.6	18.3	17.4	18.1	18.0	18.7	19.4
12H	16.5	17.1	17.2	17.8	18.5	18.0	18.6	18.7	19.3	20.0
X=12H Y=4H	15.2	16.0	15.8	16.6	17.3	15.6	16.3	16.2	17.0	17.7
6H	16.1	16.7	16.7	17.4	18.1	16.9	17.5	17.5	18.2	18.9
8H	16.5	17.1	17.1	17.7	18.5	17.6	18.2	18.2	18.8	19.6

Calculate in accordance with CIE 190:2010

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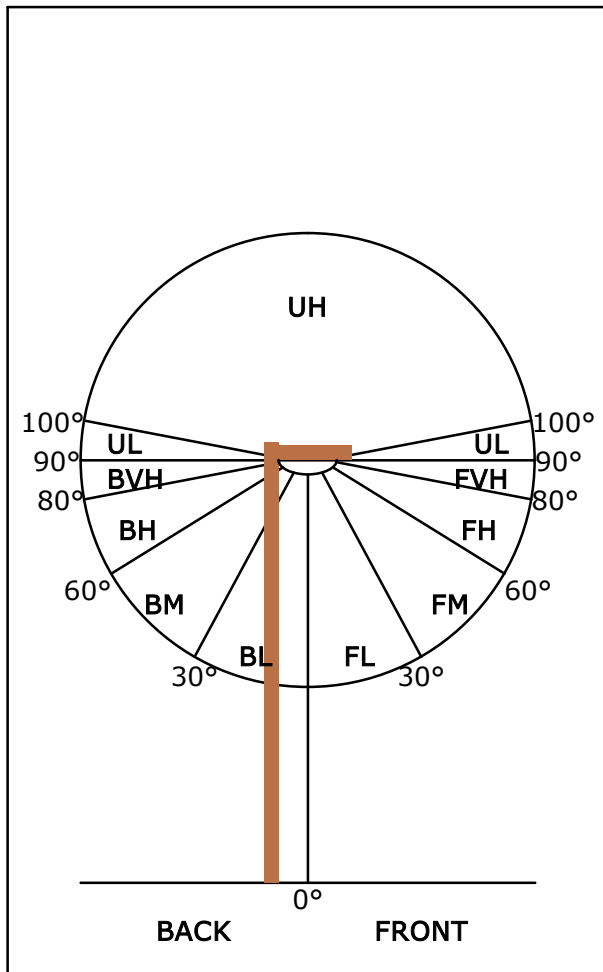
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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2061	43.7
FL (0°-30°)	493	10.5
FM (30°-60°)	951	20.2
FH (60°-80°)	474	10.1
FVH (80°-90°)	143	3.0
BACK LIGHT	2174	46.1
BL (0°-30°)	507	10.8
BM (30°-60°)	1000	21.2
BH (60°-80°)	511	10.8
BVH (80°-90°)	157	3.3
UP LIGHT	476	10.1
UL (90°-100°)	200	4.2
UH (100°-180°)	276	5.9
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	0.53	0.61	0.68	0.73	0.80	0.85	0.89	0.94	0.97	
	0.30		0.45	0.53	0.60	0.66	0.73	0.79	0.83	0.89	0.93	
	0.20		0.40	0.47	0.54	0.60	0.68	0.74	0.78	0.84	0.89	
0.50	0.50	0.20	0.51	0.58	0.64	0.69	0.76	0.80	0.83	0.88	0.91	
	0.30		0.44	0.51	0.58	0.63	0.70	0.75	0.79	0.84	0.87	
	0.20		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.80	0.84	
0.30	0.50	0.20	0.48	0.55	0.61	0.65	0.71	0.75	0.78	0.82	0.85	
	0.30		0.42	0.49	0.55	0.60	0.66	0.71	0.74	0.79	0.82	
	0.20		0.38	0.44	0.51	0.55	0.62	0.67	0.71	0.76	0.80	
0.00	0.00	0.00	0.35	0.40	0.47	0.51	0.57	0.62	0.65	0.69	0.73	
Rating:39W 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	0.99	0.86	0.74	0.65	0.54	0.46	0.40	0.32	0.26	
	0.30		0.83	0.73	0.64	0.58	0.49	0.42	0.37	0.30	0.25	
	0.20		0.71	0.64	0.57	0.52	0.44	0.39	0.34	0.28	0.24	
0.50	0.50	0.20	0.94	0.81	0.70	0.62	0.50	0.46	0.37	0.30	0.25	
	0.30		0.79	0.70	0.61	0.55	0.46	0.40	0.35	0.28	0.24	
	0.20		0.69	0.62	0.55	0.50	0.42	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.89	0.76	0.66	0.58	0.47	0.40	0.35	0.28	0.23	
	0.30		0.76	0.67	0.59	0.53	0.44	0.38	0.33	0.27	0.23	
	0.20		0.67	0.60	0.53	0.48	0.41	0.35	0.31	0.26	0.22	
0.00	0.00	0.00	0.55	0.50	0.43	0.39	0.33	0.28	0.25	0.21	0.17	
Rating:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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

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

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Utilisation Factor Table(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	0.26	0.28	0.29	0.29	0.30	0.31	0.31	0.31	0.32	
	0.30		0.19	0.21	0.22	0.23	0.25	0.26	0.27	0.28	0.29	
	0.20		0.14	0.16	0.17	0.18	0.20	0.22	0.23	0.25	0.26	
0.50	0.50	0.20	0.25	0.27	0.27	0.28	0.29	0.29	0.30	0.30	0.30	
	0.30		0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	
	0.20		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.24	0.25	
0.30	0.50	0.20	0.24	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.29	
	0.30		0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	
	0.20		0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	
0.00	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Rating:39W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

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

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

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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1303.3	1.2	1.2	0.03	0.03
1.0-2.0	1302.7	3.7	5.0	0.08	0.11
2.0-3.0	1301.4	6.2	11.2	0.13	0.24
3.0-4.0	1299.5	8.7	19.9	0.18	0.42
4.0-5.0	1297.0	11.2	31.1	0.24	0.66
5.0-6.0	1294.1	13.6	44.7	0.29	0.95
6.0-7.0	1290.5	16.0	60.7	0.34	1.29
7.0-8.0	1286.5	18.4	79.1	0.39	1.68
8.0-9.0	1281.8	20.8	99.9	0.44	2.12
9.0-10.0	1276.7	23.1	123.0	0.49	2.61
10.0-11.0	1271.1	25.4	148.4	0.54	3.15
11.0-12.0	1264.9	27.7	176.0	0.59	3.74
12.0-13.0	1258.3	29.9	205.9	0.63	4.37
13.0-14.0	1251.2	32.0	237.9	0.68	5.05
14.0-15.0	1243.7	34.1	272.1	0.72	5.77
15.0-16.0	1235.8	36.2	308.3	0.77	6.54
16.0-17.0	1227.4	38.2	346.5	0.81	7.35
17.0-18.0	1218.7	40.2	386.7	0.85	8.21
18.0-19.0	1209.6	42.1	428.8	0.89	9.10
19.0-20.0	1200.2	43.9	472.7	0.93	10.03
20.0-21.0	1190.4	45.7	518.5	0.97	11.00
21.0-22.0	1180.2	47.4	565.9	1.01	12.01
22.0-23.0	1169.7	49.1	615.0	1.04	13.05
23.0-24.0	1158.9	50.7	665.7	1.08	14.13
24.0-25.0	1147.8	52.2	717.9	1.11	15.24
25.0-26.0	1136.4	53.7	771.5	1.14	16.37
26.0-27.0	1124.8	55.0	826.5	1.17	17.54
27.0-28.0	1112.9	56.4	882.9	1.20	18.74
28.0-29.0	1100.8	57.6	940.5	1.22	19.96
29.0-30.0	1088.4	58.8	999.3	1.25	21.21
30.0-31.0	1075.8	59.9	1059.1	1.27	22.48
31.0-32.0	1062.9	60.9	1120.0	1.29	23.77
32.0-33.0	1049.9	61.9	1181.9	1.31	25.08
33.0-34.0	1036.6	62.7	1244.6	1.33	26.42
34.0-35.0	1023.1	63.5	1308.2	1.35	27.76
35.0-36.0	1009.5	64.3	1372.5	1.36	29.13

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

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

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Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	995.7	64.9	1437.4	1.38	30.51
37.0-38.0	981.6	65.5	1503.0	1.39	31.90
38.0-39.0	967.4	66.0	1569.0	1.40	33.30
39.0-40.0	953.1	66.5	1635.5	1.41	34.71
40.0-41.0	938.7	66.9	1702.3	1.42	36.13
41.0-42.0	924.1	67.1	1769.5	1.43	37.55
42.0-43.0	909.3	67.4	1836.8	1.43	38.98
43.0-44.0	894.3	67.5	1904.3	1.43	40.42
44.0-45.0	879.3	67.6	1971.9	1.43	41.85
45.0-46.0	864.3	67.6	2039.5	1.43	43.29
46.0-47.0	849.0	67.5	2107.0	1.43	44.72
47.0-48.0	833.6	67.4	2174.4	1.43	46.15
48.0-49.0	818.3	67.2	2241.7	1.43	47.58
49.0-50.0	802.9	67.0	2308.6	1.42	49.00
50.0-51.0	787.4	66.6	2375.2	1.41	50.41
51.0-52.0	771.8	66.2	2441.5	1.41	51.82
52.0-53.0	756.2	65.8	2507.3	1.40	53.21
53.0-54.0	740.5	65.3	2572.5	1.39	54.60
54.0-55.0	724.8	64.7	2637.3	1.37	55.97
55.0-56.0	709.1	64.1	2701.3	1.36	57.33
56.0-57.0	693.3	63.4	2764.7	1.35	58.68
57.0-58.0	677.5	62.7	2827.4	1.33	60.01
58.0-59.0	661.8	61.9	2889.3	1.31	61.32
59.0-60.0	646.1	61.0	2950.3	1.30	62.62
60.0-61.0	630.2	60.1	3010.5	1.28	63.89
61.0-62.0	614.3	59.2	3069.7	1.26	65.15
62.0-63.0	598.6	58.2	3127.9	1.24	66.38
63.0-64.0	582.9	57.2	3185.1	1.21	67.60
64.0-65.0	567.3	56.1	3241.2	1.19	68.79
65.0-66.0	551.5	55.0	3296.3	1.17	69.96
66.0-67.0	535.8	53.9	3350.2	1.14	71.10
67.0-68.0	520.3	52.7	3402.9	1.12	72.22
68.0-69.0	504.9	51.5	3454.4	1.09	73.31
69.0-70.0	489.4	50.3	3504.7	1.07	74.38
70.0-71.0	474.0	49.0	3553.7	1.04	75.42
71.0-72.0	458.8	47.7	3601.4	1.01	76.43

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

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

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Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	443.8	46.4	3647.8	0.99	77.42
73.0-74.0	428.9	45.1	3692.9	0.96	78.38
74.0-75.0	414.2	43.8	3736.7	0.93	79.30
75.0-76.0	399.5	42.4	3779.1	0.90	80.21
76.0-77.0	385.1	41.1	3820.1	0.87	81.08
77.0-78.0	370.8	39.7	3859.8	0.84	81.92
78.0-79.0	356.8	38.3	3898.2	0.81	82.73
79.0-80.0	343.0	37.0	3935.2	0.78	83.52
80.0-81.0	329.5	35.6	3970.8	0.76	84.27
81.0-82.0	316.4	34.3	4005.1	0.73	85.00
82.0-83.0	303.6	33.0	4038.1	0.70	85.70
83.0-84.0	291.2	31.7	4069.8	0.67	86.38
84.0-85.0	279.1	30.5	4100.3	0.65	87.02
85.0-86.0	267.5	29.2	4129.6	0.62	87.64
86.0-87.0	256.5	28.1	4157.6	0.60	88.24
87.0-88.0	246.0	26.9	4184.6	0.57	88.81
88.0-89.0	236.1	25.9	4210.5	0.55	89.36
89.0-90.0	226.7	24.9	4235.3	0.53	89.89
90.0-91.0	217.8	23.9	4259.2	0.51	90.40
91.0-92.0	209.4	23.0	4282.2	0.49	90.88
92.0-93.0	201.3	22.1	4304.2	0.47	91.35
93.0-94.0	193.5	21.2	4325.4	0.45	91.80
94.0-95.0	186.0	20.3	4345.7	0.43	92.23
95.0-96.0	178.7	19.5	4365.2	0.41	92.65
96.0-97.0	171.6	18.7	4383.9	0.40	93.04
97.0-98.0	164.7	17.9	4401.8	0.38	93.42
98.0-99.0	158.0	17.1	4419.0	0.36	93.79
99.0-100.0	151.5	16.4	4435.4	0.35	94.13
100.0-101.0	145.3	15.7	4451.0	0.33	94.47
101.0-102.0	139.2	15.0	4466.0	0.32	94.78
102.0-103.0	133.3	14.3	4480.2	0.30	95.09
103.0-104.0	127.6	13.6	4493.8	0.29	95.38
104.0-105.0	121.9	12.9	4506.8	0.27	95.65
105.0-106.0	115.9	12.3	4519.0	0.26	95.91
106.0-107.0	110.1	11.6	4530.6	0.25	96.16
107.0-108.0	104.4	10.9	4541.5	0.23	96.39

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

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

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Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	98.6	10.3	4551.8	0.22	96.60
109.0-110.0	93.4	9.7	4561.4	0.20	96.81
110.0-111.0	88.5	9.1	4570.5	0.19	97.00
111.0-112.0	84.0	8.6	4579.1	0.18	97.18
112.0-113.0	79.9	8.1	4587.2	0.17	97.36
113.0-114.0	76.1	7.7	4594.9	0.16	97.52
114.0-115.0	72.5	7.2	4602.1	0.15	97.67
115.0-116.0	69.0	6.8	4608.9	0.15	97.82
116.0-117.0	65.7	6.5	4615.4	0.14	97.95
117.0-118.0	62.6	6.1	4621.5	0.13	98.08
118.0-119.0	59.6	5.7	4627.2	0.12	98.21
119.0-120.0	56.7	5.4	4632.6	0.11	98.32
120.0-121.0	53.9	5.1	4637.7	0.11	98.43
121.0-122.0	51.2	4.8	4642.5	0.10	98.53
122.0-123.0	48.7	4.5	4647.0	0.10	98.63
123.0-124.0	46.2	4.2	4651.2	0.09	98.71
124.0-125.0	43.8	4.0	4655.2	0.08	98.80
125.0-126.0	41.5	3.7	4658.9	0.08	98.88
126.0-127.0	39.3	3.5	4662.3	0.07	98.95
127.0-128.0	37.3	3.2	4665.6	0.07	99.02
128.0-129.0	35.3	3.0	4668.6	0.06	99.08
129.0-130.0	33.4	2.8	4671.4	0.06	99.14
130.0-131.0	31.6	2.6	4674.1	0.06	99.20
131.0-132.0	29.9	2.5	4676.5	0.05	99.25
132.0-133.0	28.3	2.3	4678.8	0.05	99.30
133.0-134.0	26.8	2.1	4681.0	0.05	99.35
134.0-135.0	25.4	2.0	4683.0	0.04	99.39
135.0-136.0	24.0	1.8	4684.8	0.04	99.43
136.0-137.0	22.8	1.7	4686.5	0.04	99.46
137.0-138.0	21.6	1.6	4688.1	0.03	99.50
138.0-139.0	20.4	1.5	4689.6	0.03	99.53
139.0-140.0	19.3	1.4	4691.0	0.03	99.56
140.0-141.0	18.3	1.3	4692.3	0.03	99.59
141.0-142.0	17.4	1.2	4693.4	0.03	99.61
142.0-143.0	16.6	1.1	4694.5	0.02	99.63
143.0-144.0	15.9	1.0	4695.6	0.02	99.66

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

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

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Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	15.2	1.0	4696.6	0.02	99.68
145.0-146.0	14.7	0.9	4697.5	0.02	99.70
146.0-147.0	14.2	0.9	4698.3	0.02	99.71
147.0-148.0	13.9	0.8	4699.1	0.02	99.73
148.0-149.0	13.6	0.8	4699.9	0.02	99.75
149.0-150.0	13.4	0.7	4700.7	0.02	99.76
150.0-151.0	13.3	0.7	4701.4	0.02	99.78
151.0-152.0	13.2	0.7	4702.1	0.01	99.79
152.0-153.0	13.1	0.7	4702.7	0.01	99.81
153.0-154.0	13.1	0.6	4703.4	0.01	99.82
154.0-155.0	13.1	0.6	4704.0	0.01	99.84
155.0-156.0	13.1	0.6	4704.6	0.01	99.85
156.0-157.0	13.1	0.6	4705.2	0.01	99.86
157.0-158.0	13.1	0.5	4705.7	0.01	99.87
158.0-159.0	13.1	0.5	4706.2	0.01	99.88
159.0-160.0	13.1	0.5	4706.8	0.01	99.89
160.0-161.0	13.1	0.5	4707.2	0.01	99.90
161.0-162.0	13.1	0.5	4707.7	0.01	99.91
162.0-163.0	13.2	0.4	4708.1	0.01	99.92
163.0-164.0	13.2	0.4	4708.5	0.01	99.93
164.0-165.0	13.2	0.4	4708.9	0.01	99.94
165.0-166.0	13.2	0.4	4709.3	0.01	99.95
166.0-167.0	13.2	0.3	4709.6	0.01	99.95
167.0-168.0	13.3	0.3	4709.9	0.01	99.96
168.0-169.0	13.3	0.3	4710.2	0.01	99.97
169.0-170.0	13.3	0.3	4710.5	0.01	99.97
170.0-171.0	13.3	0.2	4710.7	0.01	99.98
171.0-172.0	13.3	0.2	4710.9	0.00	99.98
172.0-173.0	13.3	0.2	4711.1	0.00	99.99
173.0-174.0	13.3	0.2	4711.3	0.00	99.99
174.0-175.0	13.3	0.1	4711.4	0.00	99.99
175.0-176.0	13.3	0.1	4711.6	0.00	100.00
176.0-177.0	13.3	0.1	4711.6	0.00	100.00
177.0-178.0	13.3	0.1	4711.7	0.00	100.00
178.0-179.0	13.3	0.0	4711.7	0.00	100.00
179.0-180.0	13.3	0.0	4711.8	0.00	100.00

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

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

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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	1297.6	1300.2	1303.1	1304.8	1307.0	1308.4	1297.6	1300.2	1303.1	1304.8
G1.0	1297.7	1299.3	1301.3	1302.3	1304.5	1306.7	1296.8	1300.4	1304.1	1306.4
G2.0	1297.2	1297.8	1298.8	1299.2	1301.5	1304.3	1295.5	1299.9	1304.4	1307.4
G3.0	1296.0	1295.6	1295.8	1295.7	1297.8	1301.3	1293.5	1298.8	1304.2	1307.8
G4.0	1294.3	1292.9	1292.3	1291.5	1293.8	1297.7	1290.9	1297.1	1303.5	1307.8
G5.0	1291.9	1289.3	1288.0	1287.1	1289.1	1293.4	1287.8	1294.9	1302.3	1307.3
G6.0	1288.9	1285.5	1283.5	1282.3	1284.1	1288.7	1283.9	1292.0	1300.6	1306.2
G7.0	1285.3	1281.0	1278.6	1276.9	1278.6	1283.3	1279.4	1288.6	1298.2	1304.5
G8.0	1281.2	1275.7	1273.1	1271.4	1272.7	1277.4	1274.4	1284.4	1295.1	1302.1
G9.0	1276.3	1270.2	1267.3	1265.4	1266.5	1271.1	1268.7	1280.1	1291.5	1299.1
G10.0	1270.9	1263.9	1261.1	1259.2	1259.9	1264.3	1262.4	1274.8	1287.1	1295.5
G11.0	1264.9	1257.1	1254.6	1252.7	1253.2	1256.6	1255.5	1269.0	1282.3	1291.4
G12.0	1258.3	1250.0	1247.8	1246.3	1246.0	1248.7	1248.1	1262.7	1276.8	1286.6
G13.0	1251.0	1241.9	1240.7	1239.4	1238.3	1240.7	1240.4	1255.5	1271.0	1281.6
G14.0	1243.4	1233.8	1233.3	1232.5	1230.7	1231.4	1231.8	1248.0	1264.5	1276.1
G15.0	1235.3	1225.2	1225.4	1225.1	1222.6	1222.2	1222.6	1239.9	1257.7	1270.7
G16.0	1226.4	1216.2	1217.4	1217.8	1214.4	1212.6	1212.7	1231.3	1250.4	1264.5
G17.0	1217.1	1206.2	1208.9	1210.1	1205.9	1202.3	1202.7	1222.1	1243.1	1258.4
G18.0	1207.1	1196.8	1200.4	1202.5	1197.2	1191.9	1191.5	1212.3	1235.1	1251.9
G19.0	1196.5	1185.9	1191.9	1194.6	1188.0	1181.1	1180.4	1201.9	1227.0	1245.4
G20.0	1185.7	1175.2	1182.8	1186.2	1178.3	1169.7	1168.9	1191.1	1218.6	1238.4
G21.0	1174.2	1163.9	1173.4	1177.5	1169.1	1158.1	1156.6	1179.9	1210.2	1231.8
G22.0	1162.4	1152.2	1163.9	1168.9	1159.0	1145.9	1143.3	1168.4	1201.2	1224.6
G23.0	1150.2	1140.1	1154.0	1159.8	1149.3	1133.4	1130.4	1156.1	1192.3	1217.4
G24.0	1137.2	1127.9	1143.8	1150.8	1138.8	1120.5	1116.5	1143.4	1182.9	1209.9
G25.0	1124.3	1115.7	1133.6	1141.7	1128.2	1107.8	1102.4	1130.2	1173.3	1202.2
G26.0	1110.1	1102.4	1122.8	1132.3	1117.2	1094.5	1087.9	1117.2	1163.9	1194.6
G27.0	1096.3	1089.1	1112.2	1122.8	1106.4	1080.9	1073.3	1103.6	1153.8	1186.6
G28.0	1081.6	1075.6	1101.5	1113.3	1095.6	1067.0	1057.9	1089.9	1143.8	1178.4
G29.0	1066.8	1061.8	1090.4	1103.7	1084.1	1052.9	1041.7	1075.3	1133.5	1169.9
G30.0	1051.7	1047.8	1078.9	1094.1	1072.6	1038.3	1025.9	1060.8	1123.0	1161.4
G31.0	1036.2	1033.2	1067.5	1084.2	1060.9	1024.0	1009.5	1046.4	1112.6	1152.4
G32.0	1020.0	1018.7	1056.0	1074.2	1049.3	1008.9	993.2	1031.7	1101.6	1143.8
G33.0	1004.5	1003.9	1044.4	1064.0	1037.8	993.8	975.8	1016.2	1090.1	1134.3
G34.0	987.6	989.2	1032.6	1053.4	1025.6	978.9	958.5	1000.7	1079.1	1125.4
G35.0	970.8	973.9	1020.7	1043.1	1013.5	962.9	940.9	985.0	1067.5	1115.9
G36.0	954.0	958.3	1008.5	1032.3	1001.5	947.5	923.8	969.4	1055.7	1106.6

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

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

FACTORY DIRECT LIGHTING

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	936.7	943.0	996.8	1021.4	989.0	931.6	905.2	953.6	1043.8	1096.7
G38.0	918.8	926.8	983.8	1010.4	976.5	915.6	887.7	937.3	1032.0	1086.8
G39.0	901.4	911.1	971.6	999.3	963.9	899.4	868.8	920.7	1020.1	1076.3
G40.0	883.4	894.7	959.0	988.1	951.1	883.1	850.2	904.6	1007.9	1066.4
G41.0	865.3	878.7	946.5	977.3	938.2	866.6	831.4	887.7	995.3	1055.7
G42.0	846.9	862.0	933.3	965.4	925.2	850.1	812.9	871.5	983.0	1045.2
G43.0	828.9	845.7	920.2	953.4	912.1	833.9	793.5	854.4	970.0	1033.9
G44.0	809.7	829.1	907.0	941.9	898.8	817.1	773.9	837.5	957.2	1022.7
G45.0	791.2	812.6	894.0	930.1	885.7	800.7	755.0	820.5	944.6	1011.3
G46.0	772.7	795.5	880.7	918.3	872.5	783.8	736.0	803.7	931.5	1000.2
G47.0	753.6	779.0	867.2	906.1	859.0	767.1	716.1	786.6	918.3	987.6
G48.0	734.1	762.7	854.0	893.8	845.1	750.3	696.1	769.4	904.9	975.8
G49.0	715.4	746.0	840.8	881.7	831.8	734.0	677.0	751.8	891.1	963.5
G50.0	696.7	729.5	826.8	868.9	818.1	717.3	657.8	735.0	877.5	951.2
G51.0	677.4	712.4	813.7	856.2	804.9	700.9	637.2	717.4	863.6	938.4
G52.0	658.0	695.6	800.0	843.7	790.8	683.8	618.4	701.0	849.8	925.7
G53.0	639.0	679.7	786.4	831.1	777.2	667.4	598.2	683.4	835.4	913.1
G54.0	619.9	662.8	772.5	818.0	763.1	650.6	578.8	666.2	821.6	900.4
G55.0	600.5	646.1	758.5	804.9	749.5	634.3	559.0	649.0	807.3	886.9
G56.0	581.0	629.4	744.6	791.6	735.7	618.0	539.7	632.3	793.3	873.8
G57.0	561.6	613.1	730.6	779.0	721.7	601.1	519.0	615.4	778.6	859.9
G58.0	542.1	596.5	716.6	765.0	707.7	584.6	500.2	598.5	764.5	846.5
G59.0	523.0	580.0	702.8	752.1	693.9	568.8	480.5	581.8	749.9	832.8
G60.0	503.3	563.8	688.7	738.4	679.6	552.8	460.9	565.4	735.8	818.7
G61.0	484.5	547.5	674.7	724.8	665.6	535.9	440.8	548.4	721.2	804.7
G62.0	464.6	531.3	660.9	711.5	651.2	520.1	421.2	531.4	706.8	791.1
G63.0	446.2	515.2	647.0	697.8	637.5	504.2	401.5	515.7	691.5	776.8
G64.0	426.5	499.3	633.0	683.8	623.5	488.4	382.8	499.3	677.6	762.4
G65.0	407.4	483.6	618.8	670.1	609.5	472.5	363.3	483.0	662.6	747.9
G66.0	387.6	467.8	605.1	655.9	595.5	456.9	344.1	467.4	648.2	733.6
G67.0	368.3	452.2	591.0	642.2	581.4	441.4	324.0	451.6	633.2	718.5
G68.0	349.6	436.8	577.1	628.5	567.4	426.1	305.7	436.0	619.4	704.2
G69.0	330.4	421.5	563.1	614.2	553.5	411.0	286.8	420.5	604.2	689.1
G70.0	311.9	406.4	549.6	600.5	539.9	396.4	267.6	404.9	589.8	673.7
G71.0	292.4	391.4	535.7	586.5	526.0	381.6	249.3	389.8	575.2	659.0
G72.0	274.0	377.0	522.2	572.5	512.5	367.8	230.4	375.3	560.6	644.2
G73.0	254.9	362.8	508.1	558.4	498.5	353.1	212.5	360.7	546.0	629.4

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

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

FACTORY DIRECT LIGHTING

Tel:
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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	237.4	348.6	495.2	545.1	485.5	339.3	194.5	346.7	531.8	613.5
G75.0	219.2	334.9	481.2	531.3	471.8	325.6	176.9	332.7	517.5	598.7
G76.0	201.0	321.5	468.2	517.6	458.9	312.4	159.7	318.7	503.3	583.6
G77.0	183.5	307.2	454.7	503.7	445.5	299.0	142.9	305.9	488.8	568.7
G78.0	166.7	294.1	441.7	490.5	432.5	286.3	127.0	292.2	474.7	552.9
G79.0	149.6	281.3	428.8	476.6	419.4	272.9	111.3	279.4	460.9	538.3
G80.0	132.9	269.3	416.4	463.4	407.1	260.9	95.8	267.1	447.0	522.8
G81.0	117.5	256.5	403.6	450.4	394.1	249.0	82.1	254.9	433.5	508.0
G82.0	102.1	245.1	391.3	437.9	382.2	237.3	68.4	243.2	419.5	492.9
G83.0	87.4	232.9	379.2	424.8	370.3	225.9	56.3	232.0	407.0	478.8
G84.0	74.3	221.8	367.4	412.5	358.4	215.3	44.9	221.0	393.2	463.9
G85.0	61.6	211.0	354.9	400.4	346.7	204.4	35.4	210.6	380.6	449.7
G86.0	50.3	200.7	343.9	388.5	335.5	194.3	27.1	199.9	367.7	435.7
G87.0	40.1	190.5	332.4	376.6	324.6	184.6	20.9	190.5	355.3	422.0
G88.0	31.6	181.0	321.3	365.0	313.9	175.1	16.4	180.8	343.3	408.5
G89.0	24.8	171.6	310.4	353.8	303.1	166.1	14.3	171.9	331.7	395.6
G90.0	19.8	162.6	300.2	343.0	292.8	157.5	13.8	163.2	320.4	382.7
G91.0	16.9	154.0	289.6	331.7	282.5	148.9	13.6	155.1	309.3	370.1
G92.0	16.3	146.1	279.6	321.4	272.7	141.2	13.4	147.1	298.1	357.8
G93.0	15.9	138.0	269.9	310.6	262.7	133.7	13.3	139.7	287.8	346.2
G94.0	15.7	130.8	260.3	300.8	253.6	126.3	13.1	132.2	277.1	334.5
G95.0	15.5	123.5	250.8	290.6	244.3	119.3	13.0	125.3	267.3	323.8
G96.0	15.3	116.8	241.7	281.2	235.4	112.7	12.9	118.4	257.5	312.5
G97.0	15.1	110.2	232.7	271.6	226.4	106.3	12.7	112.1	248.0	302.1
G98.0	14.9	103.9	224.1	262.4	218.3	100.3	12.6	105.8	238.8	291.1
G99.0	14.7	98.0	215.2	253.2	209.7	94.6	12.5	99.9	229.8	281.0
G100.0	14.5	92.5	207.2	244.6	202.0	89.0	12.4	94.1	220.8	271.1
G101.0	14.3	86.9	199.2	235.8	193.9	83.9	12.3	88.6	212.3	261.5
G102.0	14.2	81.8	191.4	227.3	186.5	78.9	12.1	83.3	203.7	251.8
G103.0	14.0	76.9	183.7	219.0	178.6	74.1	12.0	78.2	195.8	242.9
G104.0	13.8	72.3	176.3	211.1	171.5	69.6	11.9	73.4	187.4	233.9
G105.0	13.6	68.0	169.0	203.2	164.5	65.3	11.8	68.9	176.5	225.5
G106.0	13.5	63.8	162.1	195.7	157.8	61.3	11.8	64.3	164.0	216.7
G107.0	13.4	59.8	155.2	188.4	150.8	57.4	11.7	60.3	154.1	208.6
G108.0	13.2	55.9	147.3	181.1	141.1	53.8	11.6	56.2	145.4	197.8
G109.0	13.1	52.3	135.7	173.9	131.2	50.3	11.5	52.0	139.6	188.2
G110.0	12.9	49.0	127.6	165.9	123.3	47.0	11.4	48.1	133.7	180.1

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

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

FACTORY DIRECT LIGHTING

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	12.8	45.6	119.7	155.7	116.8	43.4	11.3	44.6	127.8	172.9
G112.0	12.7	42.2	114.3	147.7	111.7	39.7	11.2	41.3	122.1	166.1
G113.0	12.5	38.8	109.5	141.6	106.8	36.5	11.2	38.7	116.5	159.6
G114.0	12.4	35.7	104.4	135.6	101.9	33.6	11.1	36.6	111.2	153.0
G115.0	12.3	32.8	99.7	129.9	97.1	30.9	11.1	34.5	105.9	146.7
G116.0	12.1	30.1	94.9	124.2	92.3	28.5	11.0	32.7	101.2	140.5
G117.0	12.0	27.9	90.2	118.6	87.9	26.5	10.9	30.9	96.4	134.5
G118.0	11.9	25.9	85.9	113.1	83.7	24.6	10.9	29.2	91.9	128.6
G119.0	11.8	24.1	81.6	108.2	79.7	22.9	10.8	27.5	87.4	122.9
G120.0	11.7	22.4	77.4	102.9	75.8	21.2	10.8	25.9	83.1	117.4
G121.0	11.6	20.7	73.7	98.0	72.1	19.8	10.7	24.3	79.2	112.0
G122.0	11.5	19.3	69.9	93.1	68.3	18.4	10.6	22.8	75.4	106.8
G123.0	11.5	18.0	66.2	88.5	64.7	17.1	10.6	21.5	71.8	101.7
G124.0	11.4	16.8	62.5	83.9	60.9	15.9	10.6	20.2	68.2	96.8
G125.0	11.3	15.6	59.0	79.6	57.4	14.9	10.5	19.1	64.7	92.1
G126.0	11.2	14.7	55.5	75.1	53.9	14.1	10.5	17.9	61.3	87.7
G127.0	11.2	13.9	52.1	71.0	50.5	13.5	10.5	16.9	57.9	83.4
G128.0	11.1	13.4	48.7	66.9	47.0	13.1	10.4	16.0	54.8	79.4
G129.0	11.1	13.0	45.5	63.0	43.7	12.9	10.4	15.2	51.8	75.4
G130.0	11.1	12.9	42.2	59.2	40.5	12.8	10.4	14.5	48.9	71.5
G131.0	11.0	12.8	39.1	55.5	37.6	12.7	10.4	13.8	46.1	67.7
G132.0	10.9	12.7	36.1	51.8	34.8	12.7	10.4	13.3	43.4	64.2
G133.0	10.9	12.6	33.3	48.4	32.2	12.7	10.4	12.9	40.8	60.6
G134.0	10.9	12.6	30.7	45.0	29.8	12.6	10.4	12.7	38.3	57.3
G135.0	10.9	12.6	28.3	41.9	27.5	12.6	10.4	12.5	35.8	53.8
G136.0	10.9	12.5	26.1	38.8	25.4	12.6	10.5	12.4	33.5	50.8
G137.0	10.9	12.4	24.0	36.0	23.3	12.5	10.5	12.3	31.3	47.6
G138.0	10.8	12.4	22.0	33.2	21.4	12.5	10.5	12.3	29.2	44.6
G139.0	10.9	12.3	20.3	30.6	19.7	12.5	10.6	12.2	27.3	41.5
G140.0	10.9	12.3	18.6	28.1	18.1	12.5	10.6	12.1	25.5	38.7
G141.0	10.9	12.2	17.1	25.8	16.7	12.5	10.6	12.1	23.7	36.0
G142.0	10.9	12.2	15.8	23.5	15.6	12.5	10.7	12.1	22.1	33.4
G143.0	10.9	12.1	15.0	21.5	14.8	12.5	10.7	12.1	20.6	31.0
G144.0	10.9	12.1	14.4	19.6	14.4	12.5	10.8	12.1	19.1	28.7
G145.0	11.0	12.1	14.1	18.0	14.2	12.5	10.9	12.1	17.8	26.6
G146.0	11.0	12.1	14.0	16.7	14.1	12.5	10.9	12.1	16.6	24.5
G147.0	11.1	12.1	13.9	15.7	14.0	12.6	11.0	12.1	15.6	22.5

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

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

FACTORY DIRECT LIGHTING

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	11.1	12.1	13.9	15.1	14.0	12.6	11.1	12.2	14.9	20.8
G149.0	11.2	12.1	13.8	14.9	13.9	12.6	11.2	12.2	14.4	19.1
G150.0	11.4	12.2	13.8	14.7	13.9	12.7	11.4	12.3	14.2	17.6
G151.0	11.5	12.2	13.8	14.6	13.9	12.7	11.4	12.4	14.0	16.4
G152.0	11.5	12.2	13.8	14.5	13.9	12.7	11.5	12.4	13.9	15.5
G153.0	11.6	12.3	13.7	14.4	13.8	12.8	11.6	12.5	13.8	15.0
G154.0	11.8	12.3	13.7	14.4	13.8	12.8	11.7	12.5	13.7	14.6
G155.0	11.9	12.4	13.6	14.3	13.8	12.9	11.8	12.6	13.7	14.4
G156.0	11.9	12.4	13.6	14.2	13.8	12.9	11.9	12.7	13.6	14.3
G157.0	12.0	12.5	13.5	14.2	13.8	12.9	12.0	12.7	13.6	14.1
G158.0	12.1	12.6	13.5	14.1	13.8	13.0	12.1	12.8	13.5	14.0
G159.0	12.2	12.6	13.5	14.1	13.8	13.0	12.1	12.8	13.5	13.9
G160.0	12.3	12.7	13.4	14.0	13.8	13.1	12.3	12.9	13.5	13.8
G161.0	12.4	12.7	13.4	14.0	13.7	13.1	12.3	12.9	13.4	13.8
G162.0	12.5	12.8	13.4	13.9	13.7	13.1	12.4	12.9	13.4	13.7
G163.0	12.6	12.8	13.4	13.9	13.7	13.1	12.5	13.0	13.4	13.7
G164.0	12.6	12.9	13.4	13.9	13.7	13.1	12.6	13.1	13.4	13.6
G165.0	12.7	12.9	13.4	13.8	13.7	13.1	12.7	13.1	13.4	13.6
G166.0	12.8	12.9	13.4	13.8	13.6	13.1	12.8	13.1	13.4	13.6
G167.0	12.8	12.9	13.4	13.8	13.6	13.2	12.9	13.1	13.4	13.6
G168.0	12.9	12.9	13.3	13.7	13.6	13.2	12.9	13.2	13.4	13.6
G169.0	12.9	12.9	13.3	13.7	13.6	13.2	13.0	13.2	13.5	13.5
G170.0	13.0	12.9	13.3	13.6	13.5	13.2	13.0	13.3	13.4	13.5
G171.0	13.1	13.0	13.2	13.6	13.5	13.2	13.1	13.3	13.4	13.5
G172.0	13.1	13.0	13.2	13.5	13.4	13.2	13.1	13.3	13.4	13.5
G173.0	13.2	13.0	13.1	13.5	13.4	13.3	13.2	13.3	13.4	13.6
G174.0	13.2	13.1	13.1	13.5	13.3	13.3	13.2	13.3	13.4	13.6
G175.0	13.3	13.1	13.1	13.4	13.3	13.3	13.3	13.3	13.4	13.6
G176.0	13.3	13.1	13.1	13.4	13.3	13.3	13.3	13.3	13.4	13.6
G177.0	13.4	13.2	13.2	13.3	13.3	13.3	13.4	13.3	13.3	13.5
G178.0	13.4	13.2	13.2	13.3	13.3	13.3	13.4	13.3	13.3	13.4
G179.0	13.4	13.2	13.2	13.3	13.3	13.3	13.4	13.3	13.3	13.4
G180.0	13.4	13.3	13.2	13.4	13.3	13.3	13.4	13.2	13.2	13.4

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

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

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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1307.0	1308.4	1297.6							
G1.0	1308.8	1309.6	1297.7							
G2.0	1309.8	1310.1	1297.2							
G3.0	1310.2	1309.9	1296.0							
G4.0	1310.0	1309.1	1294.3							
G5.0	1309.4	1307.6	1291.9							
G6.0	1308.2	1305.6	1288.9							
G7.0	1306.5	1302.9	1285.3							
G8.0	1304.1	1299.7	1281.2							
G9.0	1301.1	1295.8	1276.3							
G10.0	1297.3	1291.5	1270.9							
G11.0	1293.3	1286.6	1264.9							
G12.0	1288.5	1281.1	1258.3							
G13.0	1283.0	1275.0	1251.0							
G14.0	1276.9	1267.9	1243.4							
G15.0	1270.7	1260.7	1235.3							
G16.0	1263.9	1252.7	1226.4							
G17.0	1256.9	1244.2	1217.1							
G18.0	1249.3	1235.0	1207.1							
G19.0	1241.7	1225.6	1196.5							
G20.0	1233.5	1215.4	1185.7							
G21.0	1225.4	1204.7	1174.2							
G22.0	1216.7	1193.6	1162.4							
G23.0	1208.2	1182.2	1150.2							
G24.0	1199.0	1169.7	1137.2							
G25.0	1189.7	1157.2	1124.3							
G26.0	1180.6	1144.7	1110.1							
G27.0	1170.9	1131.1	1096.3							
G28.0	1161.3	1117.7	1081.6							
G29.0	1151.0	1103.8	1066.8							
G30.0	1141.3	1089.9	1051.7							
G31.0	1130.6	1075.1	1036.2							
G32.0	1120.2	1060.3	1020.0							
G33.0	1108.9	1045.6	1004.5							
G34.0	1098.1	1030.3	987.6							
G35.0	1086.7	1014.8	970.8							
G36.0	1075.1	999.0	954.0							

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

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

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Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1063.4	983.0	936.7							
G38.0	1051.8	967.1	918.8							
G39.0	1039.5	950.6	901.4							
G40.0	1027.8	934.6	883.4							
G41.0	1016.0	918.1	865.3							
G42.0	1003.5	901.5	846.9							
G43.0	991.0	884.8	828.9							
G44.0	978.1	867.5	809.7							
G45.0	965.6	850.4	791.2							
G46.0	952.7	833.6	772.7							
G47.0	939.2	816.0	753.6							
G48.0	926.1	799.1	734.1							
G49.0	912.7	781.8	715.4							
G50.0	899.5	764.5	696.7							
G51.0	885.8	747.0	677.4							
G52.0	871.8	729.7	658.0							
G53.0	857.4	712.2	639.0							
G54.0	843.6	695.2	619.9							
G55.0	829.4	677.8	600.5							
G56.0	815.4	660.5	581.0							
G57.0	800.8	643.3	561.6							
G58.0	786.5	626.2	542.1							
G59.0	772.5	608.8	523.0							
G60.0	758.4	592.6	503.3							
G61.0	743.1	575.6	484.5							
G62.0	728.4	558.3	464.6							
G63.0	713.7	541.9	446.2							
G64.0	699.3	525.6	426.5							
G65.0	684.9	508.6	407.4							
G66.0	670.2	492.3	387.6							
G67.0	655.2	476.4	368.3							
G68.0	640.8	460.4	349.6							
G69.0	626.0	444.5	330.4							
G70.0	611.0	428.5	311.9							
G71.0	596.2	413.3	292.4							
G72.0	581.4	398.0	274.0							
G73.0	567.3	383.2	254.9							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	552.6	368.4	237.4							
G75.0	538.0	354.0	219.2							
G76.0	523.2	339.4	201.0							
G77.0	508.7	325.8	183.5							
G78.0	494.6	312.2	166.7							
G79.0	480.3	299.1	149.6							
G80.0	465.7	285.5	132.9							
G81.0	452.1	273.3	117.5							
G82.0	437.7	260.6	102.1							
G83.0	424.1	249.1	87.4							
G84.0	410.7	237.2	74.3							
G85.0	397.0	225.9	61.6							
G86.0	383.6	215.1	50.3							
G87.0	371.0	204.7	40.1							
G88.0	358.7	194.8	31.6							
G89.0	346.6	185.4	24.8							
G90.0	334.2	175.6	19.8							
G91.0	323.0	167.1	16.9							
G92.0	311.3	158.4	16.3							
G93.0	300.2	150.6	15.9							
G94.0	289.3	142.8	15.7							
G95.0	279.2	135.3	15.5							
G96.0	268.8	127.8	15.3							
G97.0	258.9	121.1	15.1							
G98.0	249.2	114.3	14.9							
G99.0	239.6	107.9	14.7							
G100.0	230.2	101.8	14.5							
G101.0	221.3	95.9	14.3							
G102.0	212.7	90.3	14.2							
G103.0	204.3	84.8	14.0							
G104.0	195.9	79.7	13.8							
G105.0	186.9	74.7	13.6							
G106.0	174.0	69.8	13.5							
G107.0	162.5	65.4	13.4							
G108.0	152.4	61.2	13.2							
G109.0	145.6	57.2	13.1							
G110.0	139.4	52.9	12.9							

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
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Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	133.4	49.1	12.8							
G112.0	127.5	45.5	12.7							
G113.0	121.6	42.4	12.5							
G114.0	116.2	39.5	12.4							
G115.0	110.6	37.2	12.3							
G116.0	105.4	35.1	12.1							
G117.0	100.3	33.1	12.0							
G118.0	95.5	31.3	11.9							
G119.0	91.0	29.4	11.8							
G120.0	86.6	27.7	11.7							
G121.0	82.3	26.0	11.6							
G122.0	78.4	24.4	11.5							
G123.0	74.5	22.9	11.5							
G124.0	71.0	21.6	11.4							
G125.0	67.4	20.3	11.3							
G126.0	63.9	19.1	11.2							
G127.0	60.5	18.0	11.2							
G128.0	57.2	16.9	11.1							
G129.0	53.9	15.9	11.1							
G130.0	50.9	15.1	11.1							
G131.0	47.9	14.4	11.0							
G132.0	45.2	13.7	10.9							
G133.0	42.4	13.3	10.9							
G134.0	39.8	12.9	10.9							
G135.0	37.2	12.7	10.9							
G136.0	34.8	12.5	10.9							
G137.0	32.5	12.4	10.9							
G138.0	30.3	12.3	10.8							
G139.0	28.2	12.1	10.9							
G140.0	26.2	12.0	10.9							
G141.0	24.5	12.0	10.9							
G142.0	22.8	12.0	10.9							
G143.0	21.2	11.9	10.9							
G144.0	19.8	11.9	10.9							
G145.0	18.3	11.9	11.0							
G146.0	17.0	11.9	11.0							
G147.0	15.9	11.9	11.1							

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

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

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Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	15.1	11.9	11.1							
G149.0	14.6	12.0	11.2							
G150.0	14.2	12.0	11.4							
G151.0	13.9	12.1	11.5							
G152.0	13.8	12.1	11.5							
G153.0	13.6	12.3	11.6							
G154.0	13.5	12.3	11.8							
G155.0	13.3	12.4	11.9							
G156.0	13.2	12.4	11.9							
G157.0	13.1	12.6	12.0							
G158.0	13.1	12.6	12.1							
G159.0	13.0	12.7	12.2							
G160.0	13.0	12.7	12.3							
G161.0	13.0	12.8	12.4							
G162.0	13.0	12.9	12.5							
G163.0	13.1	12.9	12.6							
G164.0	13.1	12.9	12.6							
G165.0	13.2	13.0	12.7							
G166.0	13.2	13.0	12.8							
G167.0	13.3	13.1	12.8							
G168.0	13.3	13.1	12.9							
G169.0	13.3	13.1	12.9							
G170.0	13.3	13.1	13.0							
G171.0	13.4	13.2	13.1							
G172.0	13.4	13.2	13.1							
G173.0	13.3	13.2	13.2							
G174.0	13.3	13.2	13.2							
G175.0	13.3	13.2	13.3							
G176.0	13.3	13.3	13.3							
G177.0	13.3	13.3	13.4							
G178.0	13.2	13.3	13.4							
G179.0	13.2	13.3	13.4							
G180.0	13.2	13.3	13.4							

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

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