

FACTORY DIRECT LIGHTING

Tel:
Fax:

Report No.: 20170711002

Test Time: 2017-07-12 18:08

Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-40LED5K-347VD

Lamp Catalog: 2835/3C1100S40D

Lamp Description: 2835/5000K

Luminous Length (mm): 1290

Luminous Width (mm): 100

Luminous Height (mm): 100

Voltage: 298.8 V

Current: 0.139 A

Power: 40.27 W

Power Factor: 0.967

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 4750.7 lm

Downward Ratio: 90%

Field Angle: H158.6 V233.4

Luminaire Efficacy Rating (LER): 118

Max. Intensity: 1312.6 cd

Total Rated Lamp Lumens: 4750.7 lm

Efficiency: 100%

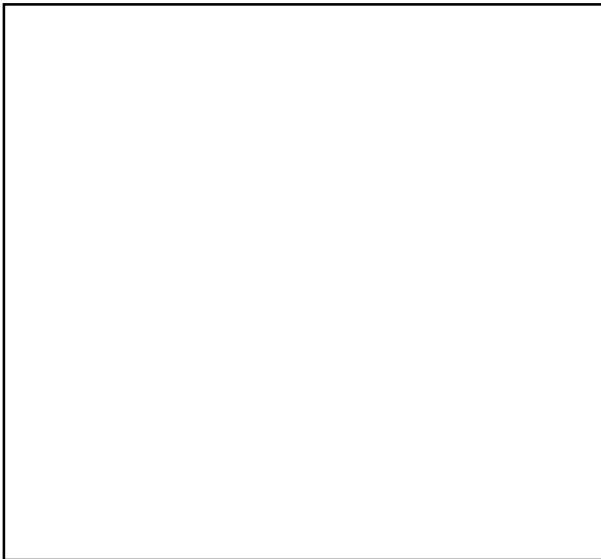
Upward Ratio: 10%

Beam Angle: H104.0 V137.9

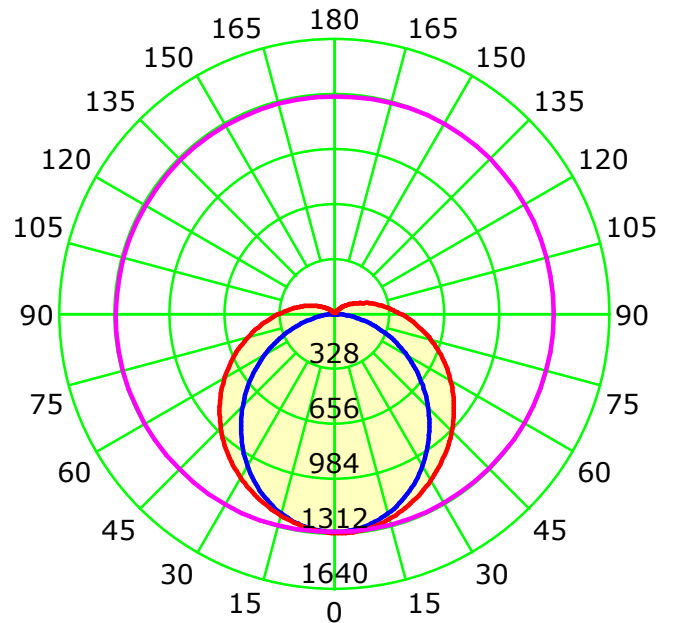
Central Intensity: 1299.83 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.690 m

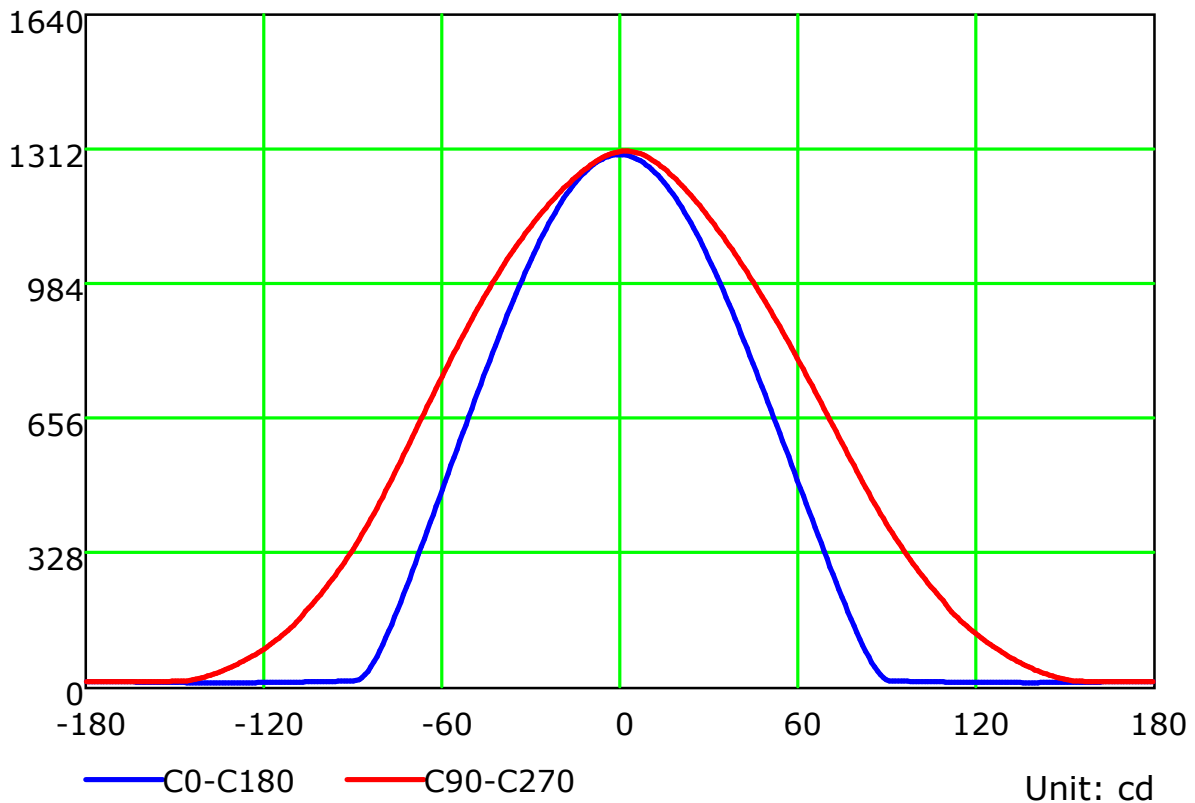
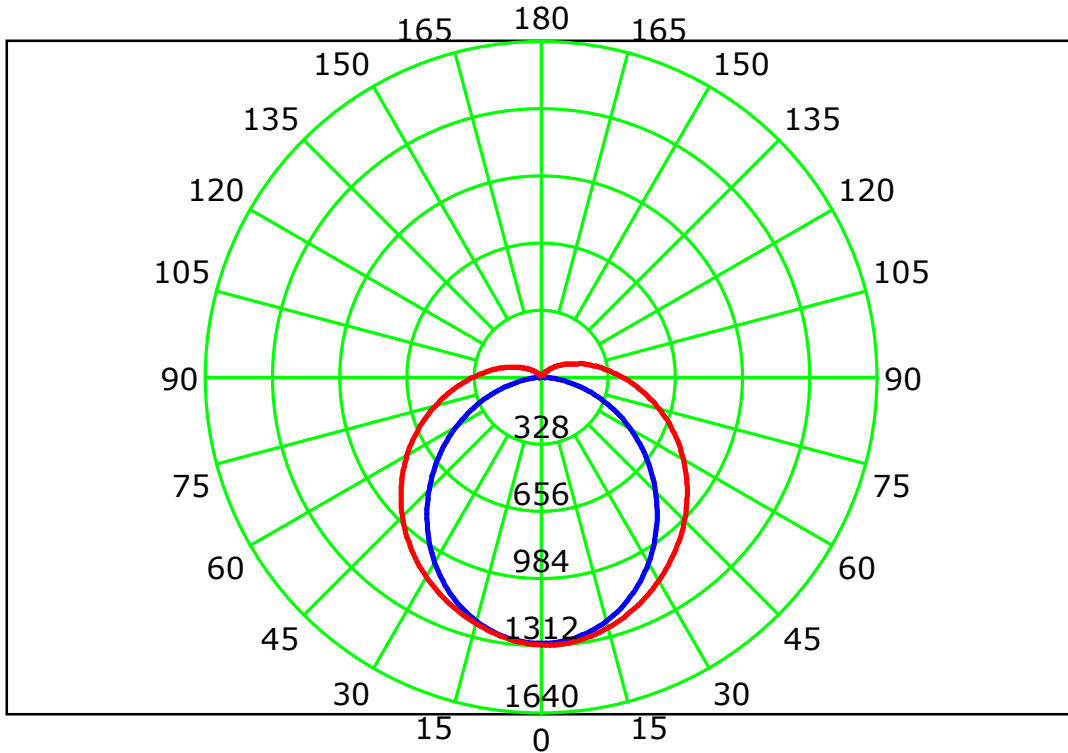
Humidity: 45-75

Inspector:

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Luminous Intensity Distribution Curve



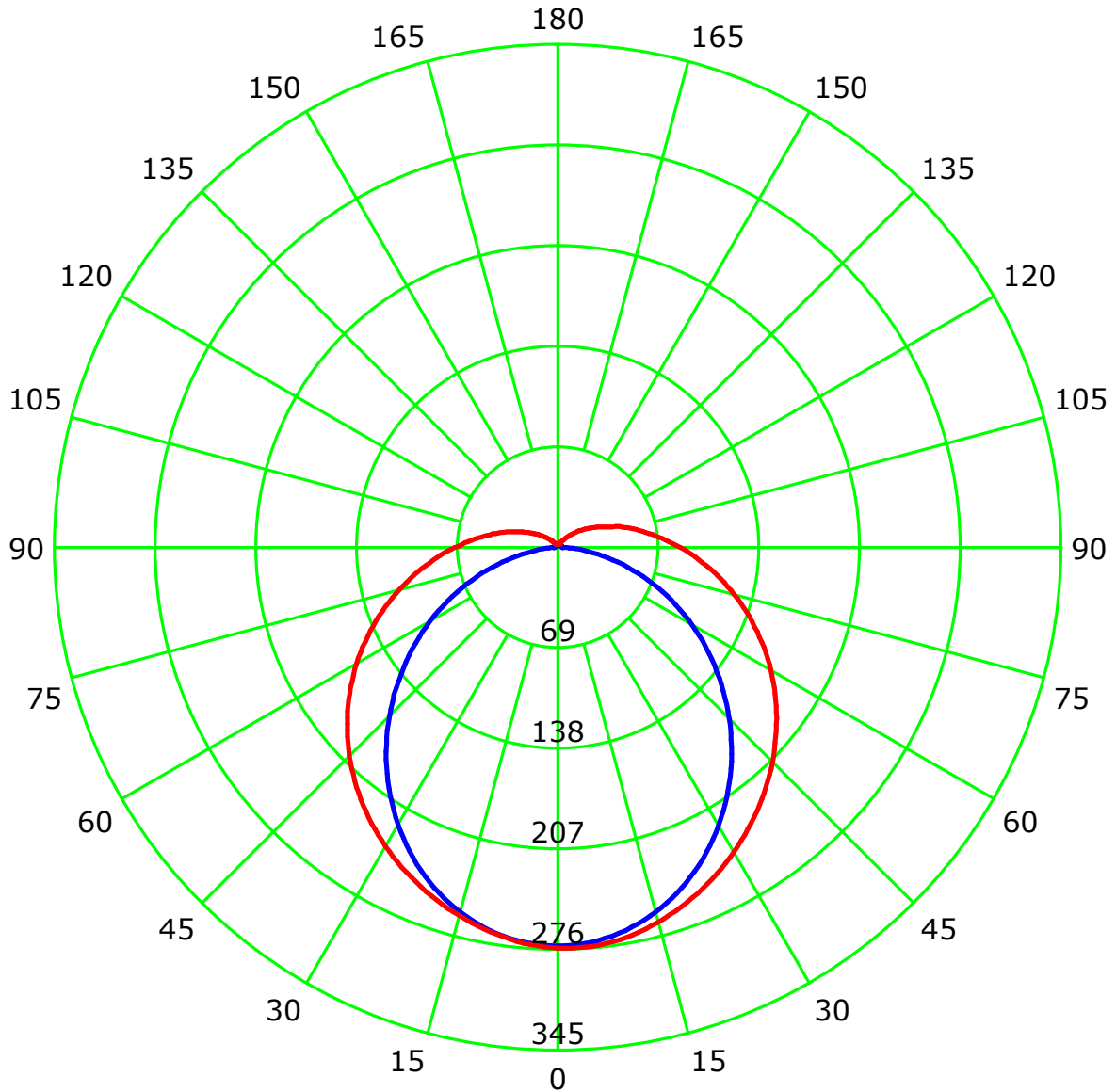
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Luminous Intensity Distribution Curve(cd/klm)



cd/klm
— C0-C180
— C90-C270

$\eta=100\%$
2835/3C1100S40D/2835/5000K

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
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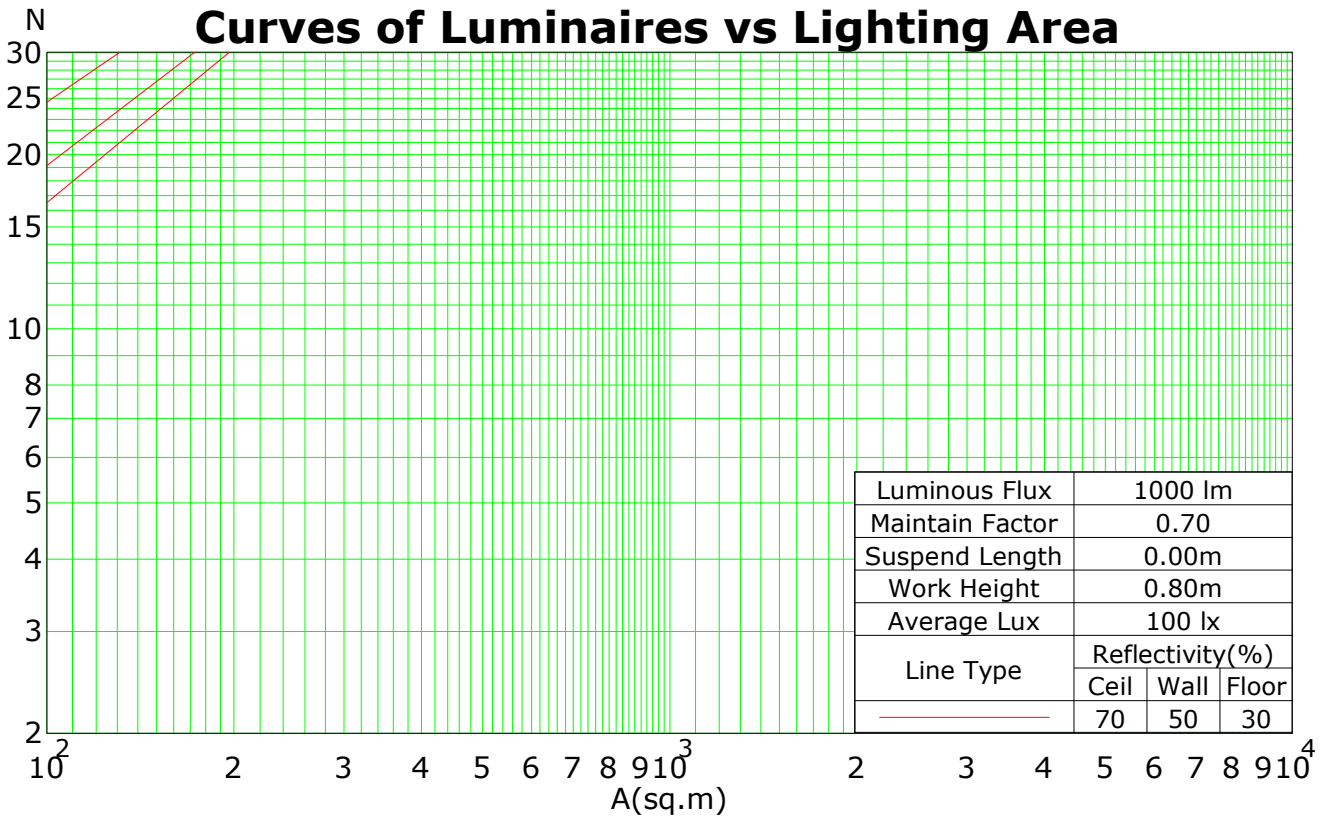
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Coefficients Of Utilization - Zonal Cavity Method

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	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	31	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	27	22	33	27	22	32	26	21	30	25	21	19

Spacing Criteria (0-180): 1.20
 Spacing Criteria (90-270): 1.30
 Spacing Criteria (Diagonal): 1.38



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 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

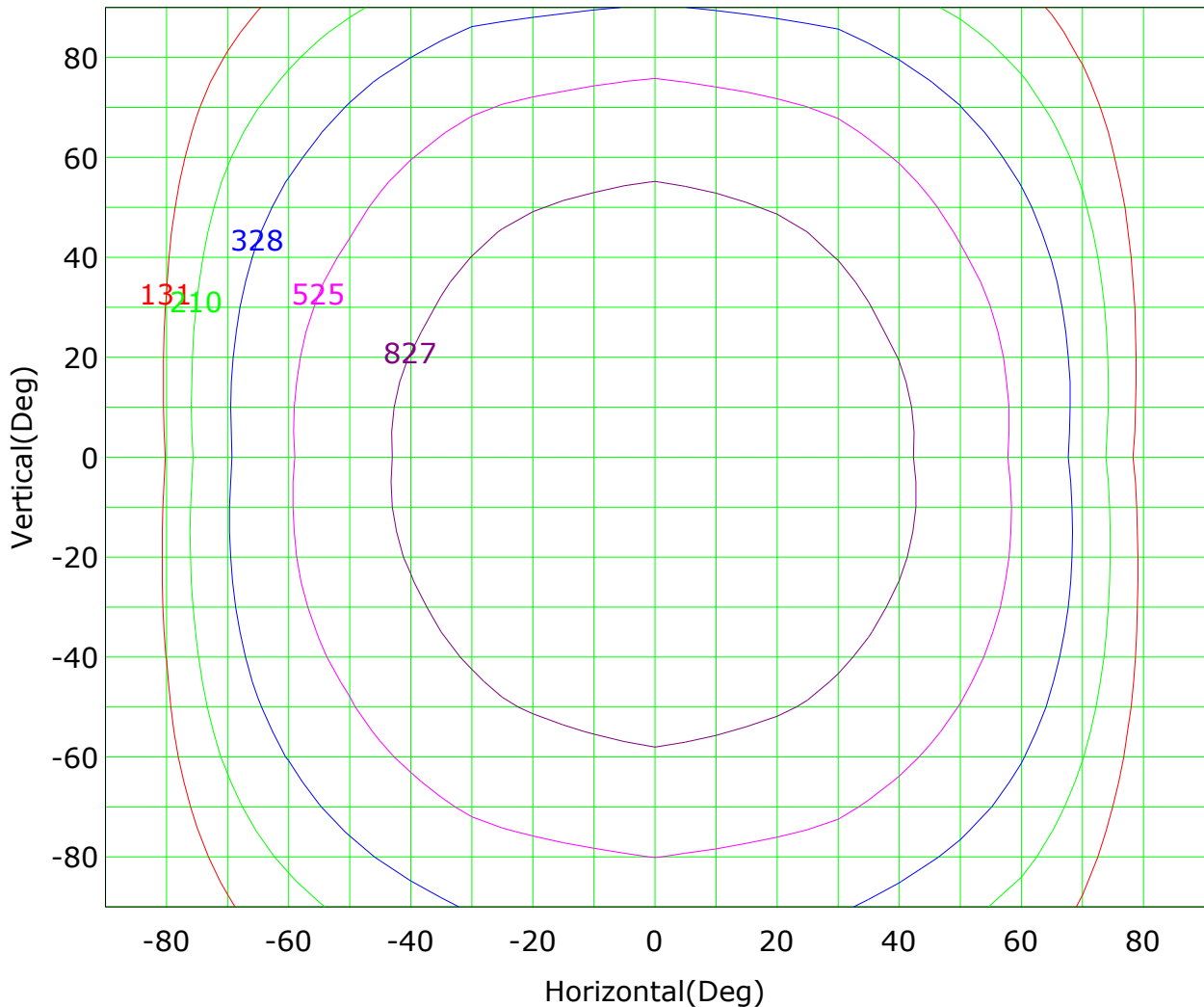
Gamma Plane (°):0.0-180.0:1.0
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 Distance: 8.690 m
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Isocandela (rectangle)



Imax (100%): 1313 cd

(10%): 131 cd	(16%): 210 cd
(25%): 328 cd	(40%): 525 cd
(63%): 827 cd	(100%): 1313 cd

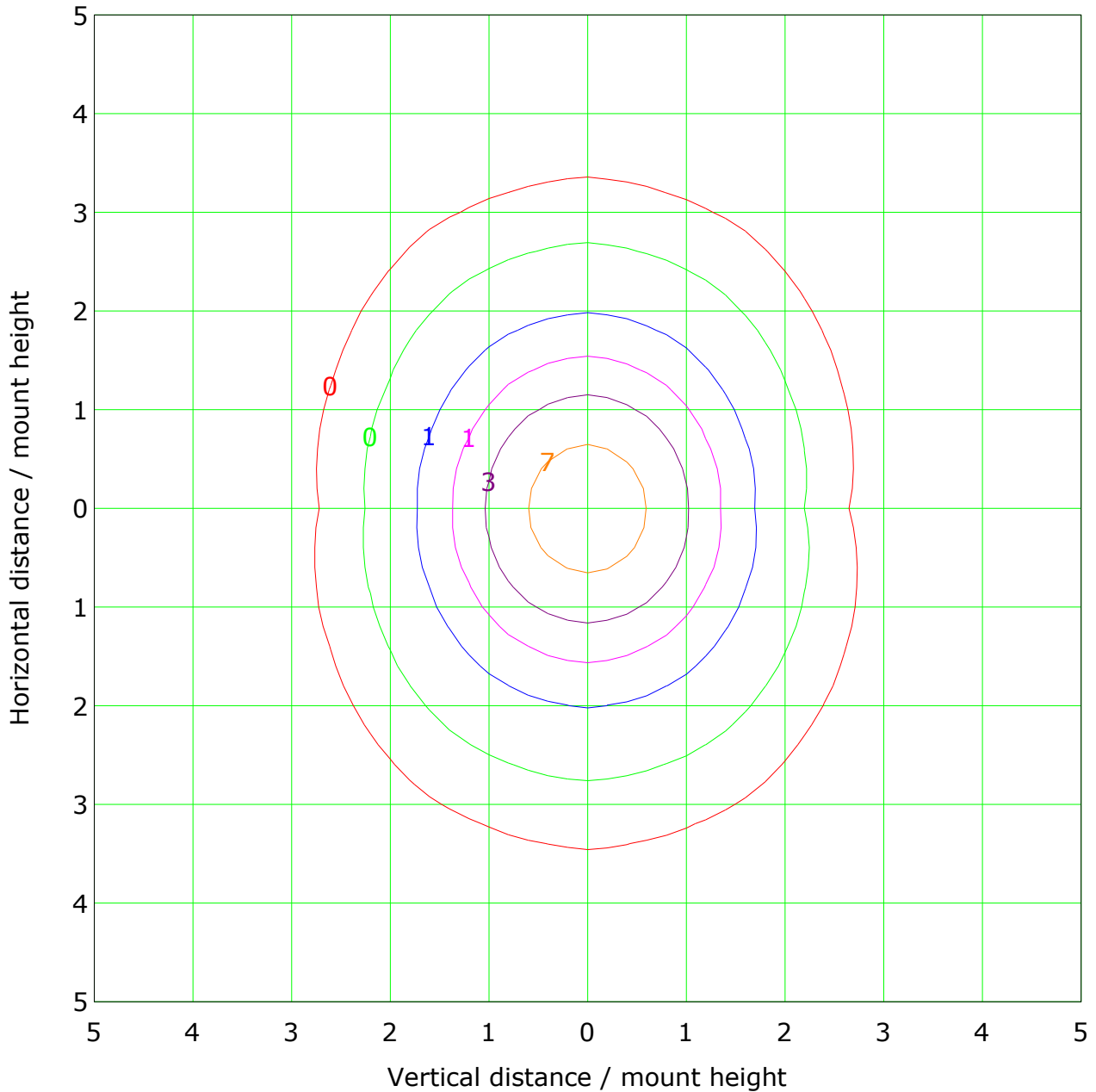
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Test Lab:
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Temperature: 25
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IsoLux Plot



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%):	6.6 lx
— (100%):	13.1 lx		

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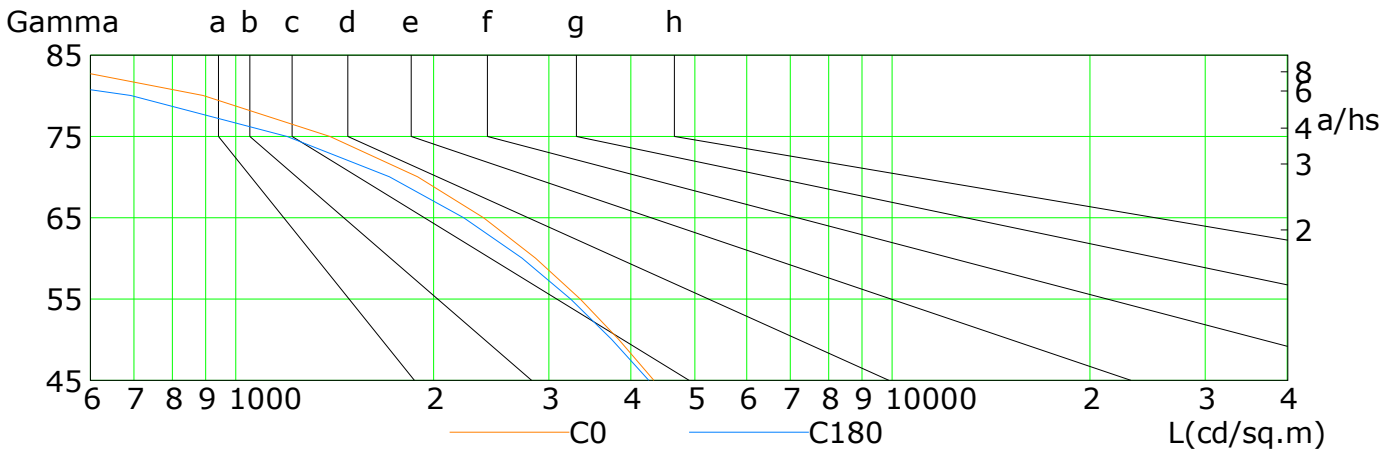
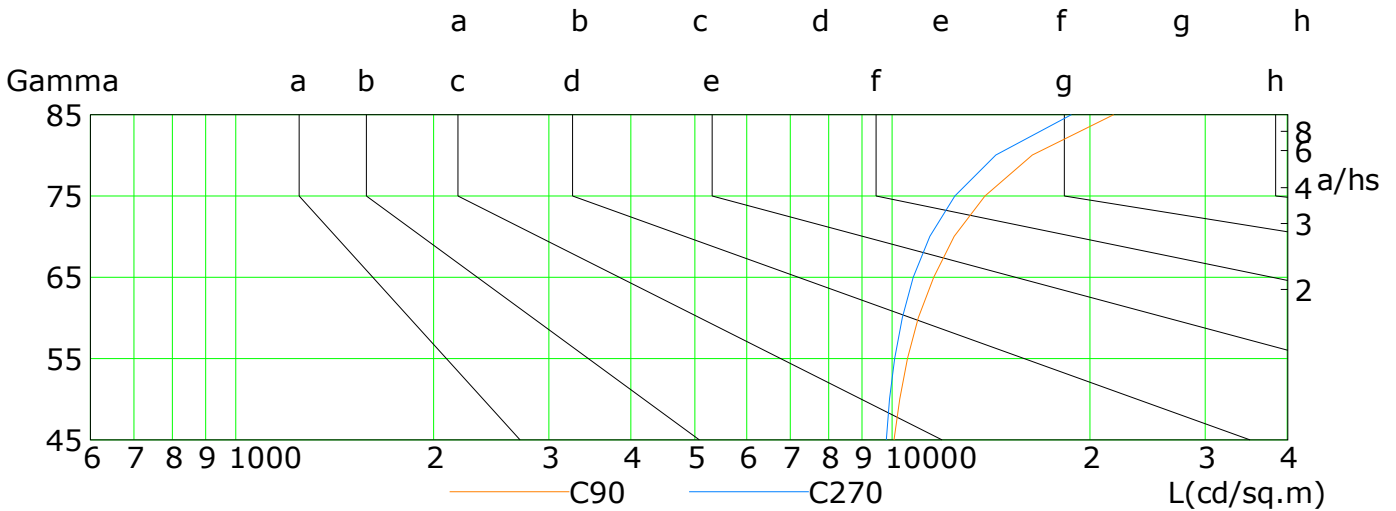
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Lum Limit Curve

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	4333	3832	3347	2864	2383	1892	1393	892	434
C90	10072	10266	10554	10957	11553	12434	13842	16355	21723
C180	4258	3740	3234	2732	2223	1714	1196	693	279
C270	9786	9909	10090	10370	10768	11405	12460	14386	18731

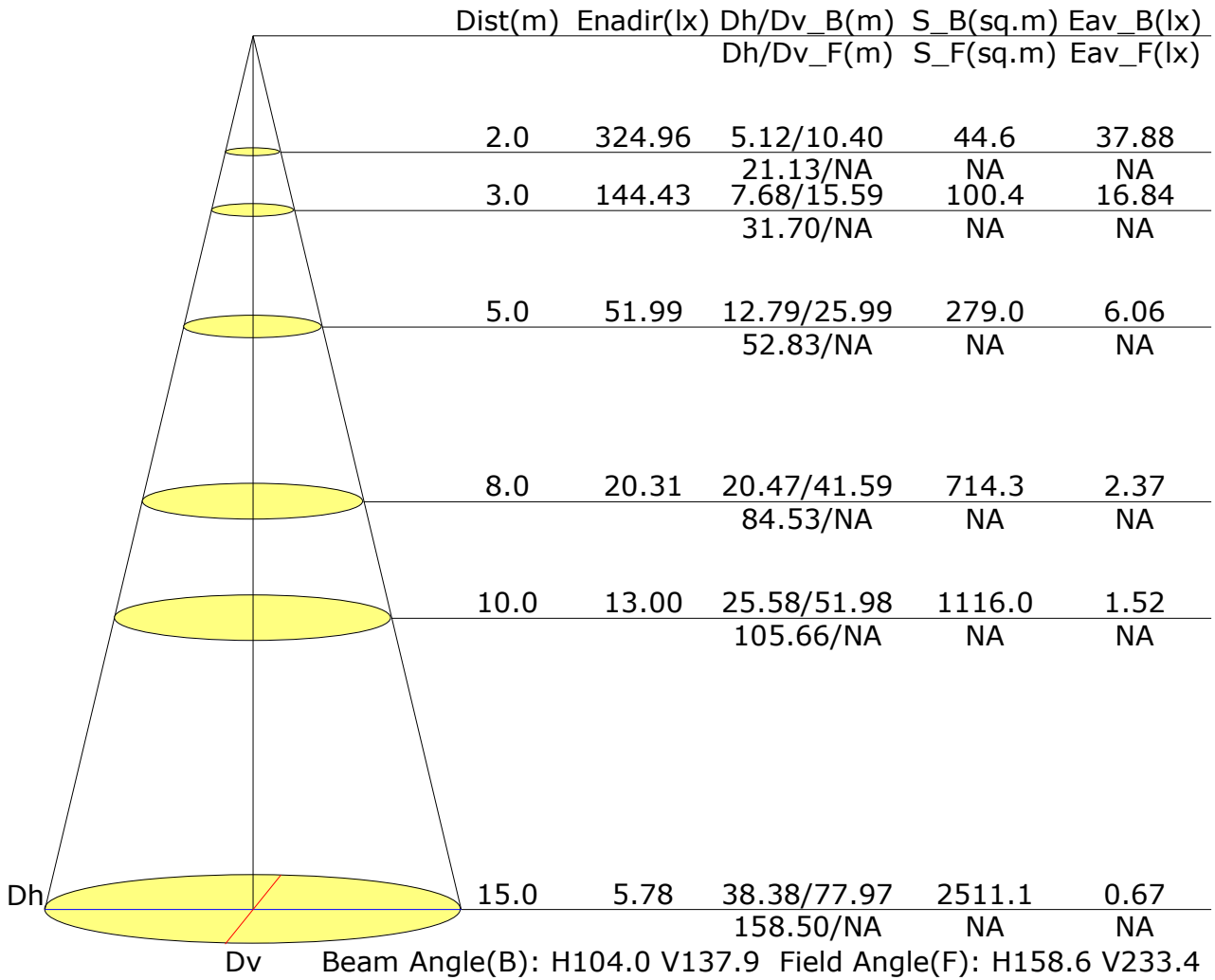
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Illuminance at a Distance



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

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

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Area Flux Table

Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.1	0.7	1.9	3.5	5.5	7.7	9.6	10.8	11.8	11.8	10.9	9.7	7.8	5.5	3.5	1.9	0.8	0.1	103.7	101.2	
0.0	3.0	0.1	0.9	2.3	4.5	7.2	10.1	12.8	14.6	15.9	15.9	14.7	12.9	10.3	7.3	4.6	2.4	0.9	0.2	137.6	136.0	
		0.1	1.0	2.9	5.6	9.0	12.8	16.2	18.7	20.3	20.4	18.8	16.4	12.9	9.1	5.7	3.0	1.1	0.2	174.2	173.2	
		0.2	1.2	3.4	6.7	10.8	15.3	19.6	22.7	24.7	24.7	22.8	19.8	15.5	11.0	6.8	3.6	1.3	0.2	210.5	209.7	
		0.2	1.4	4.0	7.8	12.5	17.8	22.8	26.5	28.7	28.7	26.6	23.0	18.0	12.7	7.9	4.2	1.5	0.2	244.2	243.6	
		0.2	1.5	4.5	8.8	14.0	19.9	25.5	29.7	32.1	32.2	29.9	25.7	20.1	14.2	9.0	4.7	1.7	0.2	273.8	273.3	
		0.2	1.6	4.8	9.6	15.4	21.6	27.7	32.4	35.0	35.1	32.6	27.9	21.9	15.6	9.8	5.1	1.8	0.2	298.4	297.9	
		0.2	1.6	5.0	10.1	16.4	23.1	29.4	34.5	37.3	37.4	34.8	29.7	23.3	16.6	10.4	5.3	1.8	0.2	317.2	316.8	
		0.2	1.6	5.0	10.3	16.8	23.9	30.6	35.8	38.8	39.0	36.0	30.7	24.1	17.0	10.6	5.4	1.8	0.2	327.8	327.4	
		0.2	1.6	5.1	10.3	16.9	24.1	30.9	36.3	39.3	39.1	36.1	30.9	24.2	17.1	10.6	5.4	1.9	0.2	330.1	329.6	
		0.2	1.7	5.1	10.3	16.8	23.7	30.2	35.3	38.1	38.0	35.1	30.0	23.6	16.8	10.5	5.4	1.9	0.2	323.0	322.6	
		0.2	1.7	5.0	10.0	16.0	22.5	28.6	33.3	35.8	35.7	33.1	28.4	22.3	15.9	10.1	5.2	1.8	0.2	305.9	305.5	
		0.2	1.6	4.7	9.3	14.8	20.8	26.4	30.6	32.9	32.9	30.5	26.2	20.6	14.7	9.3	4.9	1.8	0.2	282.4	281.9	
		0.2	1.5	4.3	8.4	13.4	18.8	23.8	27.4	29.6	29.5	27.3	23.6	18.6	13.2	8.4	4.4	1.6	0.2	254.4	253.9	
		0.2	1.3	3.8	7.4	11.8	16.5	20.9	23.9	25.8	25.8	23.8	20.7	16.3	11.6	7.3	3.9	1.4	0.2	222.8	222.2	
		0.2	1.2	3.3	6.4	10.0	14.0	17.7	20.2	21.8	21.8	20.1	17.5	13.9	9.9	6.3	3.3	1.2	0.2	188.9	188.0	
		0.2	1.0	2.7	5.2	8.2	11.5	14.4	16.3	17.7	17.7	16.2	14.3	11.4	8.1	5.2	2.8	1.1	0.2	154.0	152.8	
		0.1	0.9	2.2	4.2	6.5	9.0	11.2	12.6	13.7	13.7	12.6	11.1	8.9	6.4	4.1	2.2	0.9	0.2	120.3	118.6	
		0.1	0.9	2.2	4.2	6.5	9.0	11.2	12.6	13.7	13.7	12.6	11.1	8.9	6.4	4.1	2.2	0.9	0.2	120.3	118.6	
		3.0	23.9	70.3	138.3	221.9	313.1	398.2	461.8	499.3	4462.1	398.5	313.6	222.8	140.1	73.1	26.4	3.7	4269			
		0.0	19.2	69.9	138.3	221.9	313.1	398.2	461.8	499.3	4462.1	398.5	313.6	222.8	140.1	72.8	23.1	0.1	4254			

Horizontal plane

C Plane (°):0.0-360.0: 30.0
 Test Lab:
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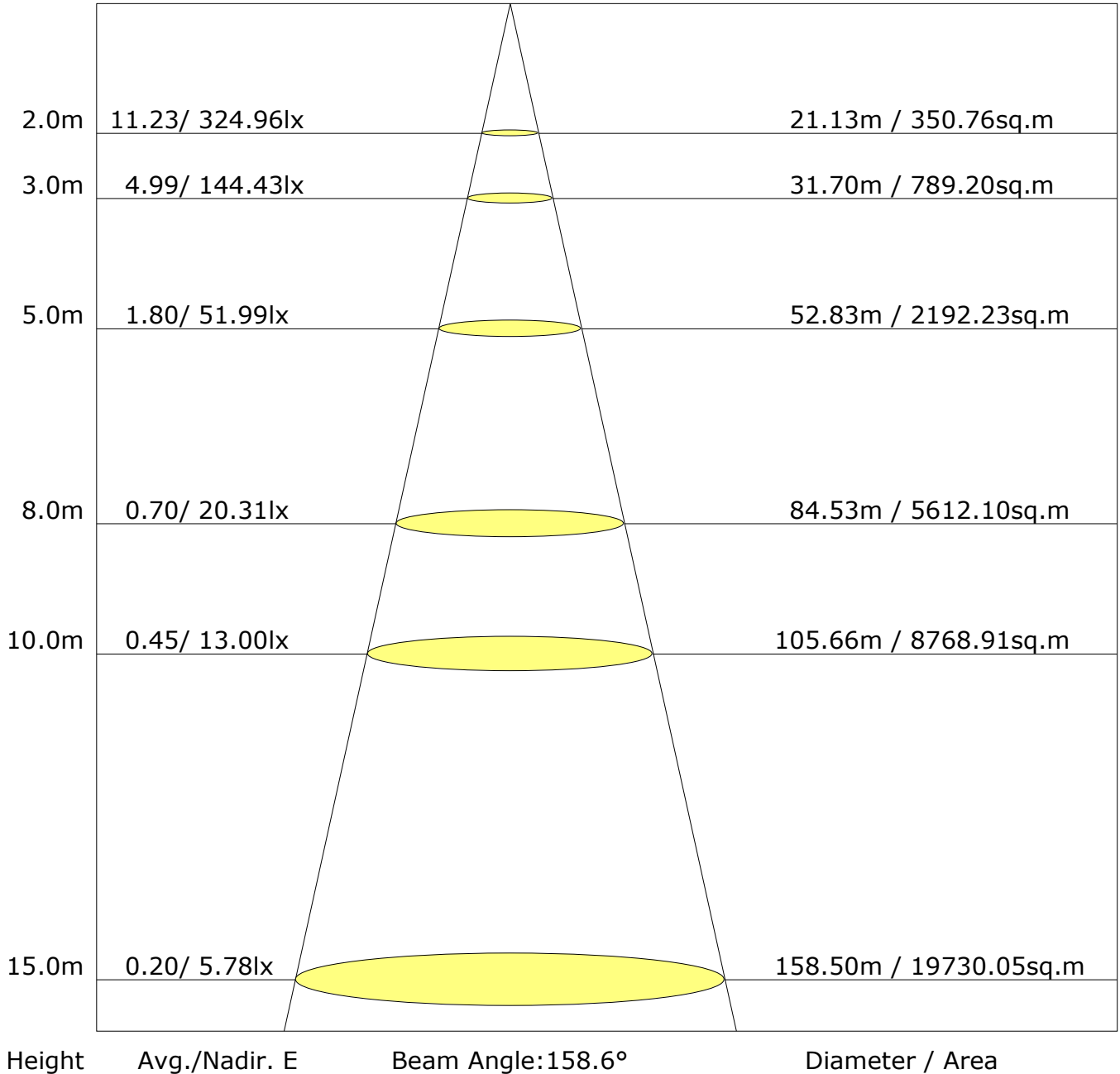
Gamma Plane (°):0.0-180.0:1.0
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The Average Illuminance Effective Figure

Flux Out: 3940.54lm



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UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	11.1	12.6	11.7	13.1	13.7	11.6	13.1	12.2	13.6	14.2
3H	12.9	14.3	13.4	14.8	15.4	13.8	15.2	14.3	15.7	16.3
4H	13.6	14.9	14.1	15.4	16.0	14.8	16.1	15.3	16.6	17.2
6H	14.1	15.3	14.6	15.8	16.5	15.7	16.9	16.3	17.5	18.1
8H	14.2	15.4	14.8	16.0	16.6	16.1	17.3	16.7	17.9	18.5
12H	14.3	15.5	14.9	16.0	16.7	16.5	17.6	17.1	18.2	18.9
X=4H Y=2H	11.8	13.1	12.3	13.6	14.2	12.2	13.5	12.7	14.0	14.6
3H	13.7	14.9	14.3	15.4	16.1	14.6	15.8	15.2	16.3	17.0
4H	14.5	15.6	15.1	16.2	16.8	15.8	16.8	16.4	17.4	18.1
6H	15.2	16.1	15.8	16.7	17.4	16.9	17.8	17.5	18.4	19.1
8H	15.4	16.3	16.0	16.9	17.6	17.4	18.3	18.0	18.9	19.5
12H	15.6	16.3	16.2	17.0	17.7	17.9	18.7	18.5	19.3	20.0
X=8H Y=4H	15.0	15.9	15.6	16.5	17.1	16.1	17.0	16.7	17.6	18.3
6H	15.8	16.5	16.4	17.2	17.9	17.4	18.2	18.1	18.8	19.5
8H	16.1	16.8	16.8	17.5	18.2	18.1	18.7	18.7	19.4	20.1
12H	16.4	17.0	17.1	17.6	18.4	18.7	19.3	19.4	20.0	20.7
X=12H Y=4H	15.1	15.9	15.7	16.5	17.2	16.2	16.9	16.8	17.6	18.3
6H	16.0	16.6	16.6	17.3	18.0	17.5	18.2	18.2	18.8	19.6
8H	16.4	17.0	17.0	17.6	18.4	18.2	18.8	18.9	19.5	20.2

Calculate in accordance with CIE 190:2010

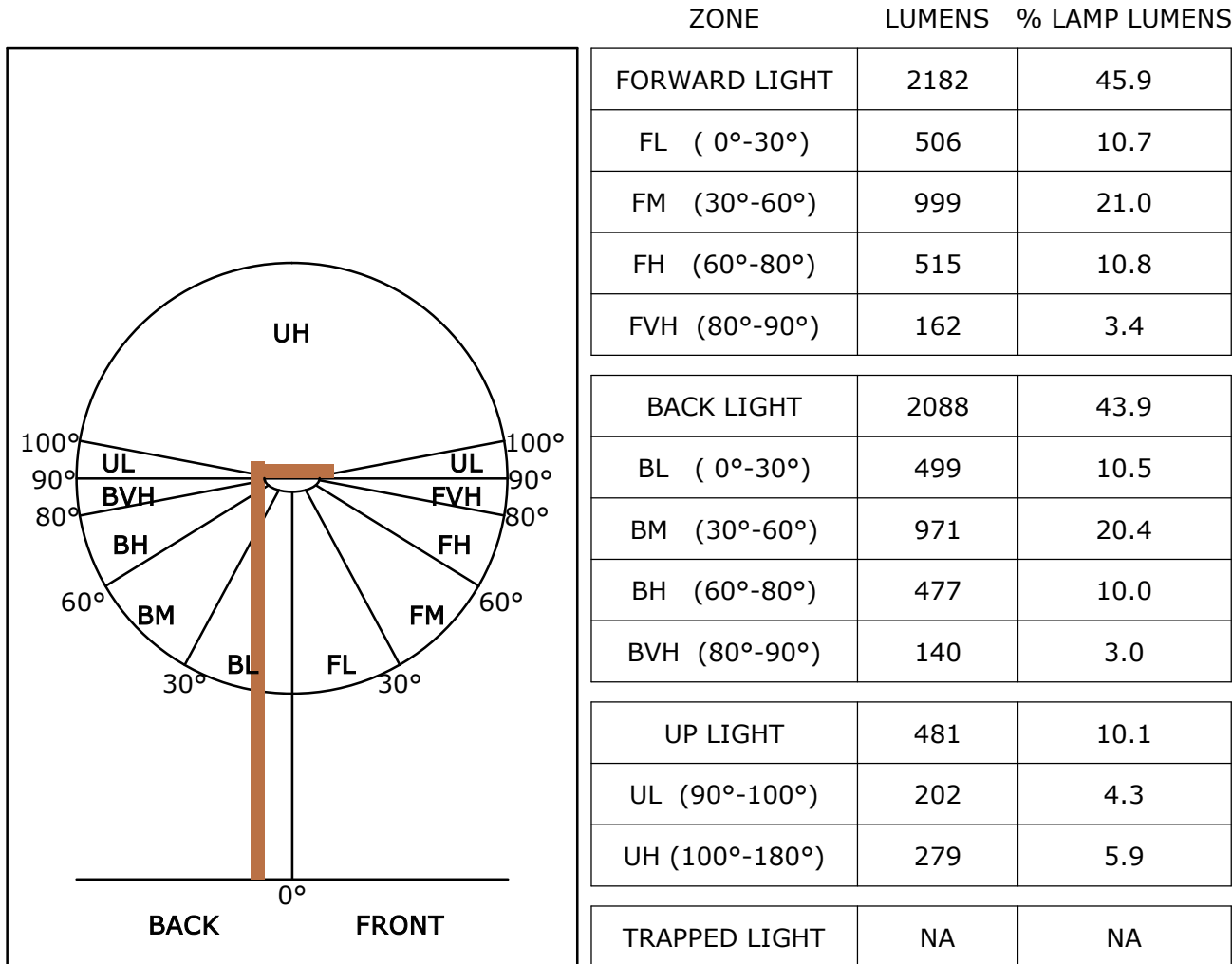
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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 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	0.92	
	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	
<p>Rating:40W 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	0.99	0.86	0.74	0.66	0.54	0.46	0.40	0.32	0.26	
	0.30		0.83	0.73	0.65	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	0.62	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	
<p>Rating:40W 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:

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
<p>Rating:40W 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:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
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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	1306.0	1.2	1.2	0.03	0.03
1.0-2.0	1305.4	3.7	5.0	0.08	0.11
2.0-3.0	1304.3	6.2	11.2	0.13	0.24
3.0-4.0	1302.6	8.7	20.0	0.18	0.42
4.0-5.0	1300.4	11.2	31.1	0.24	0.66
5.0-6.0	1297.6	13.6	44.8	0.29	0.94
6.0-7.0	1294.2	16.1	60.8	0.34	1.28
7.0-8.0	1290.3	18.5	79.3	0.39	1.67
8.0-9.0	1285.9	20.8	100.2	0.44	2.11
9.0-10.0	1281.0	23.2	123.3	0.49	2.60
10.0-11.0	1275.5	25.5	148.8	0.54	3.13
11.0-12.0	1269.7	27.8	176.6	0.58	3.72
12.0-13.0	1263.3	30.0	206.6	0.63	4.35
13.0-14.0	1256.5	32.2	238.7	0.68	5.03
14.0-15.0	1249.3	34.3	273.0	0.72	5.75
15.0-16.0	1241.6	36.4	309.4	0.77	6.51
16.0-17.0	1233.6	38.4	347.9	0.81	7.32
17.0-18.0	1225.2	40.4	388.3	0.85	8.17
18.0-19.0	1216.4	42.3	430.6	0.89	9.06
19.0-20.0	1207.2	44.2	474.8	0.93	9.99
20.0-21.0	1197.7	46.0	520.8	0.97	10.96
21.0-22.0	1187.8	47.7	568.5	1.00	11.97
22.0-23.0	1177.6	49.4	617.9	1.04	13.01
23.0-24.0	1167.1	51.0	669.0	1.07	14.08
24.0-25.0	1156.2	52.6	721.5	1.11	15.19
25.0-26.0	1145.0	54.1	775.6	1.14	16.33
26.0-27.0	1133.6	55.5	831.1	1.17	17.49
27.0-28.0	1121.8	56.8	887.9	1.20	18.69
28.0-29.0	1109.8	58.1	945.9	1.22	19.91
29.0-30.0	1097.5	59.3	1005.2	1.25	21.16
30.0-31.0	1085.0	60.4	1065.6	1.27	22.43
31.0-32.0	1072.2	61.4	1127.0	1.29	23.72
32.0-33.0	1059.2	62.4	1189.4	1.31	25.04
33.0-34.0	1045.9	63.3	1252.7	1.33	26.37
34.0-35.0	1032.5	64.1	1316.9	1.35	27.72
35.0-36.0	1018.8	64.9	1381.7	1.37	29.08

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

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

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Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	1004.9	65.5	1447.3	1.38	30.46
37.0-38.0	990.9	66.1	1513.4	1.39	31.86
38.0-39.0	976.7	66.7	1580.1	1.40	33.26
39.0-40.0	962.3	67.1	1647.2	1.41	34.67
40.0-41.0	947.8	67.5	1714.7	1.42	36.09
41.0-42.0	933.0	67.8	1782.5	1.43	37.52
42.0-43.0	918.2	68.0	1850.5	1.43	38.95
43.0-44.0	903.2	68.2	1918.7	1.44	40.39
44.0-45.0	888.0	68.3	1987.0	1.44	41.83
45.0-46.0	872.8	68.3	2055.2	1.44	43.26
46.0-47.0	857.5	68.2	2123.5	1.44	44.70
47.0-48.0	842.0	68.1	2191.5	1.43	46.13
48.0-49.0	826.5	67.9	2259.4	1.43	47.56
49.0-50.0	810.9	67.6	2327.0	1.42	48.98
50.0-51.0	795.1	67.3	2394.3	1.42	50.40
51.0-52.0	779.3	66.9	2461.2	1.41	51.81
52.0-53.0	763.5	66.4	2527.6	1.40	53.21
53.0-54.0	747.7	65.9	2593.5	1.39	54.59
54.0-55.0	731.8	65.3	2658.9	1.38	55.97
55.0-56.0	715.8	64.7	2723.6	1.36	57.33
56.0-57.0	699.8	64.0	2787.5	1.35	58.68
57.0-58.0	683.8	63.2	2850.8	1.33	60.01
58.0-59.0	667.9	62.4	2913.2	1.31	61.32
59.0-60.0	651.9	61.6	2974.8	1.30	62.62
60.0-61.0	635.9	60.7	3035.5	1.28	63.90
61.0-62.0	619.8	59.7	3095.3	1.26	65.15
62.0-63.0	603.9	58.7	3154.0	1.24	66.39
63.0-64.0	587.9	57.7	3211.7	1.21	67.60
64.0-65.0	571.9	56.6	3268.3	1.19	68.80
65.0-66.0	556.1	55.5	3323.8	1.17	69.96
66.0-67.0	540.2	54.3	3378.1	1.14	71.11
67.0-68.0	524.5	53.1	3431.3	1.12	72.23
68.0-69.0	508.8	51.9	3483.2	1.09	73.32
69.0-70.0	493.2	50.7	3533.8	1.07	74.39
70.0-71.0	477.7	49.4	3583.2	1.04	75.42
71.0-72.0	462.3	48.1	3631.3	1.01	76.44

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

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

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Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	447.1	46.8	3678.0	0.98	77.42
73.0-74.0	432.0	45.4	3723.5	0.96	78.38
74.0-75.0	417.1	44.1	3767.5	0.93	79.31
75.0-76.0	402.3	42.7	3810.2	0.90	80.20
76.0-77.0	387.6	41.3	3851.6	0.87	81.07
77.0-78.0	373.3	40.0	3891.5	0.84	81.92
78.0-79.0	359.2	38.6	3930.1	0.81	82.73
79.0-80.0	345.4	37.2	3967.4	0.78	83.51
80.0-81.0	331.8	35.9	4003.3	0.76	84.27
81.0-82.0	318.6	34.6	4037.8	0.73	84.99
82.0-83.0	305.7	33.2	4071.1	0.70	85.69
83.0-84.0	293.2	31.9	4103.0	0.67	86.37
84.0-85.0	281.1	30.7	4133.7	0.65	87.01
85.0-86.0	269.5	29.5	4163.1	0.62	87.63
86.0-87.0	258.4	28.3	4191.4	0.60	88.23
87.0-88.0	247.9	27.2	4218.6	0.57	88.80
88.0-89.0	237.9	26.1	4244.7	0.55	89.35
89.0-90.0	228.5	25.1	4269.7	0.53	89.88
90.0-91.0	219.6	24.1	4293.8	0.51	90.38
91.0-92.0	211.2	23.2	4317.0	0.49	90.87
92.0-93.0	203.2	22.3	4339.2	0.47	91.34
93.0-94.0	195.4	21.4	4360.6	0.45	91.79
94.0-95.0	187.8	20.5	4381.1	0.43	92.22
95.0-96.0	180.4	19.7	4400.8	0.41	92.64
96.0-97.0	173.3	18.9	4419.7	0.40	93.03
97.0-98.0	166.3	18.1	4437.8	0.38	93.41
98.0-99.0	159.6	17.3	4455.1	0.36	93.78
99.0-100.0	153.1	16.6	4471.7	0.35	94.13
100.0-101.0	146.8	15.8	4487.5	0.33	94.46
101.0-102.0	140.6	15.1	4502.6	0.32	94.78
102.0-103.0	134.7	14.4	4517.0	0.30	95.08
103.0-104.0	128.9	13.7	4530.8	0.29	95.37
104.0-105.0	123.1	13.1	4543.8	0.28	95.65
105.0-106.0	117.1	12.4	4556.2	0.26	95.91
106.0-107.0	111.3	11.7	4567.9	0.25	96.15
107.0-108.0	105.5	11.0	4579.0	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	99.8	10.4	4589.3	0.22	96.60
109.0-110.0	94.5	9.8	4599.1	0.21	96.81
110.0-111.0	89.5	9.2	4608.3	0.19	97.00
111.0-112.0	84.9	8.7	4617.0	0.18	97.19
112.0-113.0	80.8	8.2	4625.2	0.17	97.36
113.0-114.0	76.9	7.7	4632.9	0.16	97.52
114.0-115.0	73.2	7.3	4640.2	0.15	97.67
115.0-116.0	69.7	6.9	4647.1	0.15	97.82
116.0-117.0	66.4	6.5	4653.6	0.14	97.96
117.0-118.0	63.2	6.2	4659.8	0.13	98.09
118.0-119.0	60.2	5.8	4665.6	0.12	98.21
119.0-120.0	57.4	5.5	4671.0	0.12	98.32
120.0-121.0	54.6	5.2	4676.2	0.11	98.43
121.0-122.0	51.9	4.8	4681.0	0.10	98.53
122.0-123.0	49.3	4.6	4685.6	0.10	98.63
123.0-124.0	46.8	4.3	4689.9	0.09	98.72
124.0-125.0	44.4	4.0	4693.9	0.08	98.80
125.0-126.0	42.1	3.8	4697.6	0.08	98.88
126.0-127.0	39.8	3.5	4701.2	0.07	98.96
127.0-128.0	37.7	3.3	4704.4	0.07	99.03
128.0-129.0	35.7	3.1	4707.5	0.06	99.09
129.0-130.0	33.8	2.9	4710.4	0.06	99.15
130.0-131.0	31.9	2.7	4713.0	0.06	99.21
131.0-132.0	30.1	2.5	4715.5	0.05	99.26
132.0-133.0	28.5	2.3	4717.8	0.05	99.31
133.0-134.0	26.9	2.1	4719.9	0.05	99.35
134.0-135.0	25.4	2.0	4721.9	0.04	99.39
135.0-136.0	24.0	1.8	4723.8	0.04	99.43
136.0-137.0	22.7	1.7	4725.5	0.04	99.47
137.0-138.0	21.5	1.6	4727.1	0.03	99.50
138.0-139.0	20.3	1.5	4728.6	0.03	99.53
139.0-140.0	19.3	1.4	4729.9	0.03	99.56
140.0-141.0	18.3	1.3	4731.2	0.03	99.59
141.0-142.0	17.4	1.2	4732.4	0.03	99.61
142.0-143.0	16.7	1.1	4733.5	0.02	99.64
143.0-144.0	16.0	1.0	4734.6	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	15.4	1.0	4735.5	0.02	99.68
145.0-146.0	14.9	0.9	4736.5	0.02	99.70
146.0-147.0	14.4	0.9	4737.3	0.02	99.72
147.0-148.0	14.0	0.8	4738.2	0.02	99.74
148.0-149.0	13.7	0.8	4738.9	0.02	99.75
149.0-150.0	13.4	0.7	4739.7	0.02	99.77
150.0-151.0	13.2	0.7	4740.4	0.02	99.78
151.0-152.0	13.1	0.7	4741.1	0.01	99.80
152.0-153.0	13.0	0.7	4741.7	0.01	99.81
153.0-154.0	12.9	0.6	4742.4	0.01	99.82
154.0-155.0	12.9	0.6	4743.0	0.01	99.84
155.0-156.0	12.9	0.6	4743.6	0.01	99.85
156.0-157.0	12.9	0.6	4744.1	0.01	99.86
157.0-158.0	12.9	0.5	4744.7	0.01	99.87
158.0-159.0	13.0	0.5	4745.2	0.01	99.88
159.0-160.0	13.0	0.5	4745.7	0.01	99.89
160.0-161.0	13.0	0.5	4746.2	0.01	99.90
161.0-162.0	13.0	0.5	4746.6	0.01	99.91
162.0-163.0	13.1	0.4	4747.1	0.01	99.92
163.0-164.0	13.1	0.4	4747.5	0.01	99.93
164.0-165.0	13.1	0.4	4747.8	0.01	99.94
165.0-166.0	13.2	0.4	4748.2	0.01	99.95
166.0-167.0	13.2	0.3	4748.5	0.01	99.95
167.0-168.0	13.2	0.3	4748.9	0.01	99.96
168.0-169.0	13.3	0.3	4749.1	0.01	99.97
169.0-170.0	13.3	0.3	4749.4	0.01	99.97
170.0-171.0	13.3	0.2	4749.7	0.01	99.98
171.0-172.0	13.3	0.2	4749.9	0.00	99.98
172.0-173.0	13.3	0.2	4750.1	0.00	99.99
173.0-174.0	13.3	0.2	4750.2	0.00	99.99
174.0-175.0	13.4	0.1	4750.4	0.00	99.99
175.0-176.0	13.4	0.1	4750.5	0.00	100.00
176.0-177.0	13.3	0.1	4750.6	0.00	100.00
177.0-178.0	13.3	0.1	4750.6	0.00	100.00
178.0-179.0	13.3	0.0	4750.7	0.00	100.00
179.0-180.0	13.3	0.0	4750.7	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	1299.8	1301.6	1304.7	1307.5	1310.6	1312.4	1299.8	1301.6	1304.7	1307.5
G1.0	1299.5	1301.8	1305.4	1308.3	1311.2	1312.6	1299.6	1300.7	1303.5	1306.3
G2.0	1298.6	1301.5	1305.6	1308.5	1311.2	1312.3	1298.7	1299.2	1301.7	1304.5
G3.0	1297.1	1300.6	1305.2	1308.3	1310.7	1311.3	1297.2	1297.2	1299.3	1302.2
G4.0	1294.9	1299.1	1304.3	1307.6	1309.7	1309.8	1295.0	1294.5	1296.4	1299.4
G5.0	1292.0	1297.1	1302.9	1306.3	1308.1	1307.7	1292.3	1291.4	1293.1	1296.1
G6.0	1288.9	1294.4	1301.0	1304.5	1306.0	1305.1	1289.1	1287.5	1289.1	1292.3
G7.0	1284.8	1291.2	1298.4	1302.1	1303.3	1301.6	1284.9	1283.3	1284.9	1288.2
G8.0	1280.3	1287.4	1295.3	1299.2	1300.0	1297.8	1280.4	1278.3	1280.1	1283.6
G9.0	1275.1	1283.0	1291.6	1295.6	1296.2	1293.4	1275.4	1272.8	1274.8	1278.9
G10.0	1269.4	1278.1	1287.3	1291.6	1292.0	1288.4	1269.7	1266.6	1269.3	1273.7
G11.0	1263.0	1272.6	1282.6	1287.2	1287.1	1282.8	1263.4	1260.2	1263.5	1268.4
G12.0	1256.3	1266.6	1277.5	1282.5	1281.7	1276.8	1256.3	1253.0	1257.2	1262.8
G13.0	1248.8	1259.8	1271.5	1277.3	1276.0	1269.9	1248.9	1245.6	1250.7	1256.9
G14.0	1241.1	1252.6	1265.6	1271.7	1269.9	1262.6	1240.9	1237.2	1243.9	1250.8
G15.0	1232.3	1245.0	1258.9	1265.8	1263.3	1254.9	1232.2	1228.9	1236.8	1244.4
G16.0	1223.4	1236.7	1252.1	1259.6	1256.5	1246.8	1223.3	1220.0	1229.1	1238.0
G17.0	1213.8	1228.0	1244.8	1253.2	1249.1	1237.8	1213.9	1210.3	1221.6	1231.3
G18.0	1203.8	1218.6	1237.1	1246.5	1241.5	1228.8	1203.2	1200.4	1213.7	1224.5
G19.0	1193.4	1209.0	1229.2	1239.6	1233.7	1218.8	1192.5	1190.3	1205.7	1217.4
G20.0	1182.5	1198.5	1221.0	1232.4	1225.3	1208.6	1181.5	1179.1	1196.8	1210.0
G21.0	1170.9	1188.4	1212.1	1224.9	1216.5	1198.1	1169.8	1168.5	1188.3	1202.5
G22.0	1158.8	1176.9	1203.1	1217.3	1207.9	1186.6	1157.3	1157.0	1179.3	1194.6
G23.0	1146.5	1165.9	1194.0	1209.1	1198.5	1175.3	1144.7	1145.2	1170.1	1186.6
G24.0	1133.8	1153.8	1184.5	1201.3	1189.5	1163.6	1131.8	1132.7	1160.4	1178.5
G25.0	1120.6	1141.7	1174.8	1192.7	1179.9	1151.1	1117.7	1120.4	1150.6	1169.9
G26.0	1106.7	1129.1	1164.9	1184.3	1169.8	1138.6	1104.0	1106.9	1140.8	1161.6
G27.0	1092.9	1116.2	1155.0	1175.5	1159.7	1125.9	1089.5	1094.2	1130.2	1153.1
G28.0	1078.2	1102.6	1144.3	1166.7	1149.4	1112.4	1074.6	1080.2	1119.9	1144.0
G29.0	1063.8	1089.4	1133.8	1157.3	1138.9	1099.2	1059.2	1066.9	1108.9	1134.8
G30.0	1048.4	1075.2	1123.0	1147.7	1128.1	1085.1	1044.4	1052.7	1098.3	1125.8
G31.0	1032.7	1061.5	1111.9	1138.1	1117.1	1071.0	1028.0	1037.9	1086.9	1116.4
G32.0	1016.6	1046.4	1100.6	1128.4	1105.9	1056.6	1011.8	1023.2	1076.3	1106.7
G33.0	1001.7	1032.4	1088.9	1118.5	1094.4	1042.3	995.2	1008.0	1064.1	1096.8
G34.0	984.9	1016.8	1077.3	1108.5	1082.7	1027.0	978.3	993.1	1052.7	1086.6
G35.0	968.2	1002.2	1065.6	1098.7	1070.8	1012.2	960.7	977.6	1041.1	1076.2
G36.0	951.2	986.4	1053.1	1088.2	1058.7	996.4	943.9	962.2	1029.2	1065.8

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

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

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table (Continue 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	934.4	971.2	1040.9	1077.8	1046.9	981.1	925.7	946.2	1016.5	1055.1
G38.0	916.7	955.4	1028.9	1067.3	1034.4	965.0	908.4	930.4	1004.5	1044.2
G39.0	899.9	939.5	1016.5	1057.2	1022.2	949.5	890.2	913.4	991.3	1032.9
G40.0	881.3	923.5	1004.0	1046.1	1009.8	933.1	871.9	897.4	978.9	1021.8
G41.0	863.8	907.2	991.4	1035.4	997.2	917.2	853.4	880.9	965.8	1010.0
G42.0	845.3	890.5	978.7	1024.0	984.8	900.8	834.3	864.3	952.6	998.3
G43.0	827.8	874.4	966.1	1013.2	972.3	884.3	815.5	847.5	939.3	986.2
G44.0	809.2	857.7	952.8	1001.4	959.3	867.6	796.8	830.6	926.1	974.0
G45.0	790.5	840.9	940.2	990.0	946.1	851.1	776.8	813.6	912.2	961.8
G46.0	771.7	824.8	926.9	978.2	932.8	834.6	758.3	796.4	898.6	949.3
G47.0	752.9	807.9	913.9	966.3	920.2	817.6	738.8	779.3	884.3	936.3
G48.0	734.4	790.9	900.5	954.3	906.5	800.9	719.3	762.2	870.5	923.7
G49.0	715.0	774.3	887.0	942.1	893.4	783.9	699.7	745.3	856.0	910.3
G50.0	696.4	756.9	873.4	929.9	879.8	766.7	679.6	728.5	842.4	897.5
G51.0	677.7	739.7	859.7	917.7	866.2	749.6	659.8	710.9	827.4	884.0
G52.0	658.1	723.1	846.0	905.2	852.5	732.5	640.5	693.5	813.2	870.5
G53.0	640.1	706.3	832.4	892.8	838.9	715.7	620.6	675.8	798.9	856.8
G54.0	620.3	688.9	818.5	880.3	824.7	698.2	600.6	658.8	784.3	843.5
G55.0	601.4	672.7	804.8	867.4	811.4	682.0	580.9	641.4	769.2	829.2
G56.0	581.6	655.3	790.1	854.3	797.0	665.0	560.9	624.8	754.4	815.8
G57.0	562.7	638.9	776.8	841.5	783.3	648.1	540.9	606.5	739.9	801.1
G58.0	543.3	622.2	762.7	828.4	769.0	631.2	521.4	590.1	725.4	787.1
G59.0	524.3	605.4	749.2	815.1	755.2	614.7	500.9	573.0	710.6	772.7
G60.0	504.7	589.1	734.7	801.7	741.2	597.8	481.4	556.4	695.7	758.7
G61.0	485.9	572.5	720.6	788.6	727.1	581.6	460.9	538.7	680.4	743.9
G62.0	466.5	555.8	706.5	775.1	713.3	564.6	441.3	522.1	665.8	729.2
G63.0	447.2	539.9	693.1	761.6	699.2	548.9	420.8	505.3	650.7	714.7
G64.0	427.1	523.7	678.8	748.1	684.9	532.3	401.6	488.9	636.0	699.3
G65.0	408.5	507.4	664.6	734.5	670.9	515.8	381.1	472.4	620.7	684.7
G66.0	389.5	491.8	650.5	720.4	656.7	499.6	361.3	456.1	605.8	670.1
G67.0	369.8	475.9	636.4	707.2	642.6	483.2	342.5	439.6	591.2	655.2
G68.0	350.6	460.1	622.7	693.0	628.4	467.6	322.3	424.0	576.5	640.6
G69.0	331.4	444.5	608.7	679.4	614.6	451.9	302.8	408.3	561.3	625.4
G70.0	312.8	429.5	595.0	665.4	600.5	436.6	283.3	393.1	546.7	610.4
G71.0	293.7	413.8	581.0	651.7	586.7	421.2	264.0	377.7	532.4	595.5
G72.0	275.2	399.5	567.4	637.7	572.6	406.3	244.3	362.6	517.8	580.4
G73.0	256.0	384.6	553.3	623.7	559.0	391.3	225.7	347.7	503.8	565.7

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

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

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	238.3	370.0	539.9	609.8	545.0	377.2	206.9	333.4	488.8	550.5
G75.0	220.1	356.1	526.3	595.8	531.3	362.5	189.0	318.9	474.9	536.4
G76.0	201.7	341.8	512.8	582.0	517.4	348.3	170.6	305.2	460.8	521.4
G77.0	184.0	328.1	499.3	568.3	504.2	334.0	153.0	291.3	446.6	506.8
G78.0	166.7	314.9	486.3	554.6	490.8	320.4	136.0	278.0	432.9	492.5
G79.0	149.8	301.1	473.0	541.0	476.9	306.7	119.4	265.1	419.3	478.4
G80.0	133.3	288.5	460.3	527.4	464.3	294.2	103.5	252.8	405.9	463.9
G81.0	117.0	275.9	447.1	513.7	450.4	280.9	89.0	240.5	393.0	450.6
G82.0	101.7	263.9	434.5	500.7	438.1	268.4	74.4	228.6	380.0	436.5
G83.0	87.2	251.4	421.7	487.3	424.9	256.4	61.5	217.4	367.9	423.0
G84.0	73.6	239.9	409.4	474.0	412.5	244.6	49.3	206.2	354.9	409.5
G85.0	60.6	228.5	397.1	460.6	400.3	233.1	39.0	195.9	343.1	397.2
G86.0	49.1	217.7	385.0	448.3	387.9	222.1	30.0	185.5	331.1	384.6
G87.0	38.7	207.3	373.5	435.5	375.8	211.3	23.3	176.0	320.0	372.2
G88.0	30.0	197.0	361.8	423.3	364.5	200.9	18.2	166.6	308.8	360.1
G89.0	23.1	187.2	350.6	411.2	352.8	191.3	15.7	157.9	297.7	348.2
G90.0	18.2	177.9	339.3	399.0	341.8	181.7	15.1	149.0	286.8	336.8
G91.0	15.5	169.1	328.4	387.3	330.3	172.4	14.8	140.9	276.3	325.6
G92.0	14.9	160.6	317.9	375.8	319.8	163.8	14.6	133.1	266.2	314.5
G93.0	14.7	152.2	307.5	364.3	308.9	155.4	14.4	125.6	256.2	304.0
G94.0	14.5	144.9	297.0	353.4	298.9	147.6	14.3	118.2	246.4	293.2
G95.0	14.4	137.1	287.2	342.4	288.5	140.0	14.1	111.5	237.3	283.1
G96.0	14.2	130.2	277.4	331.9	278.7	133.0	13.9	104.6	227.8	272.8
G97.0	14.1	123.4	268.0	321.1	269.1	126.0	13.8	98.2	218.9	263.1
G98.0	13.9	117.2	258.8	310.9	259.6	119.4	13.6	91.9	209.9	253.4
G99.0	13.8	110.9	249.6	301.0	250.7	113.1	13.5	85.9	201.4	244.1
G100.0	13.6	105.2	241.0	291.3	241.7	107.1	13.3	80.4	193.0	235.1
G101.0	13.5	99.6	232.2	281.8	232.6	101.2	13.2	74.8	184.9	226.1
G102.0	13.4	94.2	223.7	272.5	224.4	95.9	13.0	69.7	176.8	217.6
G103.0	13.3	89.1	215.6	263.0	215.8	90.5	12.9	64.8	169.0	209.0
G104.0	13.1	84.2	207.7	254.4	207.8	85.7	12.8	60.0	161.1	200.6
G105.0	13.0	79.7	200.0	245.3	199.8	80.8	12.6	56.0	150.1	192.7
G106.0	12.9	75.3	192.1	236.8	192.3	76.3	12.5	52.1	138.5	184.5
G107.0	12.8	71.2	184.6	228.3	183.8	72.0	12.4	48.6	129.5	176.5
G108.0	12.7	67.2	173.8	220.2	172.1	67.8	12.3	45.3	122.0	166.3
G109.0	12.6	63.2	161.4	212.2	161.6	63.9	12.1	42.0	116.6	158.3
G110.0	12.5	59.4	151.6	202.4	152.6	60.1	12.0	38.5	111.0	151.2

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

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

FACTORY DIRECT LIGHTING

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	12.4	55.2	143.6	191.0	145.8	55.9	11.9	35.4	105.6	144.8
G112.0	12.3	51.0	138.2	182.9	139.9	51.7	11.8	32.3	100.3	138.4
G113.0	12.2	47.1	132.8	175.8	134.1	47.9	11.7	29.6	95.1	132.2
G114.0	12.1	43.7	127.3	169.0	128.6	44.4	11.6	27.5	90.1	126.1
G115.0	12.0	40.6	122.0	162.2	122.9	41.3	11.5	25.7	85.1	120.2
G116.0	11.9	38.0	116.8	155.8	117.6	38.6	11.4	24.0	80.5	114.6
G117.0	11.9	35.7	111.9	149.6	112.2	36.2	11.3	22.5	76.1	108.9
G118.0	11.8	33.5	107.1	143.4	107.2	33.9	11.2	21.1	72.2	103.5
G119.0	11.7	31.5	102.6	137.5	102.0	31.8	11.2	19.7	68.7	98.4
G120.0	11.6	29.6	98.0	131.5	97.4	29.8	11.1	18.4	65.3	93.3
G121.0	11.5	27.8	93.4	125.7	93.0	27.9	11.0	17.3	62.0	88.5
G122.0	11.5	26.2	88.9	120.1	88.5	26.1	10.9	16.1	58.6	83.9
G123.0	11.4	24.7	84.6	114.7	84.0	24.6	10.9	15.1	55.4	79.6
G124.0	11.4	23.3	80.3	109.3	79.7	23.1	10.8	14.2	52.3	75.3
G125.0	11.3	22.0	76.2	104.2	75.6	21.8	10.8	13.4	49.1	71.2
G126.0	11.3	20.7	72.1	99.1	71.5	20.5	10.7	12.9	46.1	67.2
G127.0	11.2	19.6	68.0	94.2	67.6	19.2	10.7	12.6	43.1	63.4
G128.0	11.2	18.5	63.9	89.6	63.7	18.1	10.6	12.3	40.3	59.7
G129.0	11.1	17.5	60.1	84.9	60.0	17.0	10.6	12.2	37.4	56.1
G130.0	11.1	16.6	56.4	80.3	56.1	16.1	10.6	12.1	34.7	52.7
G131.0	11.1	15.7	52.9	75.9	52.6	15.2	10.6	12.0	32.2	49.2
G132.0	11.0	14.9	49.6	71.7	49.1	14.4	10.6	12.0	29.8	46.0
G133.0	11.0	14.3	46.5	67.6	45.9	13.9	10.5	11.9	27.6	42.8
G134.0	11.0	13.7	43.4	63.6	42.8	13.5	10.5	11.9	25.6	39.8
G135.0	10.9	13.2	40.5	59.7	39.8	13.1	10.5	11.9	23.6	36.9
G136.0	10.9	12.8	37.7	55.8	37.0	12.9	10.5	11.8	21.9	34.3
G137.0	10.9	12.5	35.2	52.3	34.6	12.7	10.6	11.8	20.1	31.7
G138.0	10.9	12.3	32.8	48.8	32.3	12.7	10.6	11.8	18.6	29.3
G139.0	10.9	12.3	30.7	45.5	30.1	12.6	10.6	11.7	17.2	26.9
G140.0	10.9	12.2	28.6	42.2	28.1	12.6	10.6	11.7	16.0	24.8
G141.0	10.9	12.1	26.7	39.1	26.1	12.5	10.6	11.7	15.0	22.7
G142.0	10.9	12.0	24.8	36.4	24.3	12.5	10.6	11.7	14.3	20.8
G143.0	11.0	12.0	23.0	33.8	22.5	12.5	10.7	11.7	13.9	19.0
G144.0	11.0	11.9	21.3	31.3	20.9	12.4	10.8	11.8	13.7	17.6
G145.0	11.0	11.9	19.8	29.0	19.4	12.5	10.8	11.8	13.6	16.2
G146.0	11.1	11.9	18.3	26.7	18.0	12.5	10.9	11.9	13.5	15.3
G147.0	11.1	11.9	17.0	24.6	16.8	12.5	11.0	11.9	13.5	14.8

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

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

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table (Continue 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	11.2	11.9	15.9	22.5	15.7	12.5	11.1	12.0	13.4	14.4
G149.0	11.2	12.0	15.0	20.7	14.9	12.5	11.2	12.0	13.4	14.3
G150.0	11.4	12.0	14.3	18.9	14.4	12.6	11.3	12.1	13.3	14.2
G151.0	11.5	12.0	13.8	17.5	13.9	12.6	11.4	12.2	13.3	14.1
G152.0	11.6	12.1	13.6	16.3	13.8	12.7	11.5	12.3	13.3	14.0
G153.0	11.6	12.2	13.5	15.3	13.7	12.7	11.6	12.3	13.2	13.9
G154.0	11.8	12.3	13.4	14.6	13.7	12.8	11.7	12.4	13.2	13.8
G155.0	11.9	12.4	13.3	14.2	13.6	12.9	11.8	12.4	13.2	13.7
G156.0	11.9	12.5	13.2	14.1	13.6	12.9	11.9	12.5	13.2	13.6
G157.0	12.0	12.6	13.2	14.0	13.6	12.9	12.0	12.6	13.2	13.6
G158.0	12.1	12.7	13.1	13.9	13.6	13.0	12.0	12.6	13.2	13.6
G159.0	12.2	12.7	13.1	13.9	13.6	13.1	12.1	12.7	13.2	13.5
G160.0	12.3	12.8	13.1	13.8	13.6	13.1	12.2	12.7	13.2	13.5
G161.0	12.4	12.9	13.1	13.8	13.6	13.1	12.3	12.8	13.2	13.5
G162.0	12.4	12.9	13.1	13.8	13.6	13.2	12.4	12.9	13.2	13.4
G163.0	12.5	12.9	13.1	13.7	13.6	13.2	12.5	12.9	13.2	13.4
G164.0	12.6	13.0	13.2	13.7	13.6	13.3	12.6	12.9	13.3	13.4
G165.0	12.7	13.0	13.2	13.7	13.6	13.3	12.6	13.0	13.3	13.4
G166.0	12.8	13.1	13.3	13.7	13.6	13.3	12.7	13.0	13.3	13.4
G167.0	12.9	13.1	13.3	13.7	13.6	13.4	12.8	13.0	13.3	13.4
G168.0	12.9	13.1	13.3	13.7	13.6	13.4	12.9	13.0	13.3	13.5
G169.0	12.9	13.2	13.3	13.7	13.6	13.4	12.9	13.0	13.4	13.5
G170.0	13.0	13.2	13.3	13.7	13.6	13.5	13.0	13.1	13.4	13.5
G171.0	13.1	13.2	13.3	13.7	13.6	13.5	13.0	13.1	13.4	13.4
G172.0	13.1	13.3	13.3	13.7	13.6	13.5	13.1	13.1	13.3	13.4
G173.0	13.2	13.3	13.3	13.7	13.6	13.5	13.1	13.2	13.3	13.4
G174.0	13.2	13.3	13.3	13.7	13.6	13.5	13.2	13.2	13.3	13.4
G175.0	13.3	13.3	13.4	13.7	13.6	13.5	13.2	13.2	13.3	13.4
G176.0	13.3	13.3	13.3	13.7	13.5	13.5	13.3	13.2	13.3	13.3
G177.0	13.3	13.3	13.3	13.7	13.5	13.4	13.3	13.2	13.3	13.2
G178.0	13.4	13.3	13.3	13.6	13.4	13.4	13.4	13.2	13.2	13.2
G179.0	13.4	13.3	13.2	13.5	13.4	13.4	13.4	13.2	13.2	13.5
G180.0	13.4	13.3	13.2	13.5	13.3	13.4	13.4	13.2	13.2	13.5

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

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

FACTORY DIRECT LIGHTING

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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1310.6	1312.4	1299.8							
G1.0	1309.6	1311.6	1299.5							
G2.0	1307.9	1310.2	1298.6							
G3.0	1305.8	1308.2	1297.1							
G4.0	1303.0	1305.6	1294.9							
G5.0	1299.8	1302.5	1292.0							
G6.0	1295.9	1298.7	1288.9							
G7.0	1291.7	1294.5	1284.8							
G8.0	1287.1	1289.6	1280.3							
G9.0	1281.7	1284.0	1275.1							
G10.0	1276.4	1278.0	1269.4							
G11.0	1270.4	1271.4	1263.0							
G12.0	1264.3	1264.4	1256.3							
G13.0	1257.6	1256.8	1248.8							
G14.0	1250.8	1248.5	1241.1							
G15.0	1243.9	1240.2	1232.3							
G16.0	1236.3	1230.8	1223.4							
G17.0	1228.5	1221.5	1213.8							
G18.0	1220.7	1211.6	1203.8							
G19.0	1212.3	1201.4	1193.4							
G20.0	1203.8	1190.4	1182.5							
G21.0	1195.1	1179.5	1170.9							
G22.0	1186.2	1167.7	1158.8							
G23.0	1176.9	1156.1	1146.5							
G24.0	1167.4	1143.5	1133.8							
G25.0	1157.7	1130.5	1120.6							
G26.0	1147.9	1117.8	1106.7							
G27.0	1137.3	1104.1	1092.9							
G28.0	1126.7	1090.6	1078.2							
G29.0	1115.9	1076.6	1063.8							
G30.0	1105.0	1062.5	1048.4							
G31.0	1094.1	1048.0	1032.7							
G32.0	1082.8	1033.2	1016.6							
G33.0	1071.0	1018.2	1001.7							
G34.0	1059.6	1003.3	984.9							
G35.0	1047.8	987.3	968.2							
G36.0	1035.9	971.9	951.2							

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

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

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Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1023.3	955.7	934.4							
G38.0	1011.3	939.8	916.7							
G39.0	998.3	922.8	899.9							
G40.0	985.9	907.0	881.3							
G41.0	973.1	890.5	863.8							
G42.0	960.0	873.3	845.3							
G43.0	946.4	856.5	827.8							
G44.0	933.2	839.5	809.2							
G45.0	918.9	822.4	790.5							
G46.0	905.5	805.2	771.7							
G47.0	891.1	788.3	752.9							
G48.0	877.7	771.1	734.4							
G49.0	863.5	753.4	715.0							
G50.0	849.2	736.5	696.4							
G51.0	834.8	718.7	677.7							
G52.0	820.1	701.4	658.1							
G53.0	805.8	684.0	640.1							
G54.0	791.4	666.9	620.3							
G55.0	776.3	649.8	601.4							
G56.0	761.9	632.3	581.6							
G57.0	747.5	614.2	562.7							
G58.0	732.6	597.3	543.3							
G59.0	717.0	580.2	524.3							
G60.0	702.7	563.4	504.7							
G61.0	687.2	546.0	485.9							
G62.0	672.5	529.4	466.5							
G63.0	657.4	512.4	447.2							
G64.0	641.9	496.0	427.1							
G65.0	627.6	479.7	408.5							
G66.0	612.4	463.1	389.5							
G67.0	597.8	446.5	369.8							
G68.0	583.3	430.8	350.6							
G69.0	568.2	414.3	331.4							
G70.0	553.0	398.9	312.8							
G71.0	538.7	383.4	293.7							
G72.0	524.3	368.1	275.2							
G73.0	509.7	353.4	256.0							

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 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	495.2	338.6	238.3							
G75.0	480.9	324.5	220.1							
G76.0	466.7	310.0	201.7							
G77.0	452.7	296.2	184.0							
G78.0	438.8	282.7	166.7							
G79.0	425.1	269.8	149.8							
G80.0	411.9	256.7	133.3							
G81.0	398.5	244.5	117.0							
G82.0	385.3	232.4	101.7							
G83.0	372.7	221.0	87.2							
G84.0	360.2	209.5	73.6							
G85.0	347.9	199.2	60.6							
G86.0	335.6	188.4	49.1							
G87.0	324.2	178.6	38.7							
G88.0	312.7	169.1	30.0							
G89.0	301.8	159.9	23.1							
G90.0	290.5	151.1	18.2							
G91.0	280.1	142.9	15.5							
G92.0	269.9	135.1	14.9							
G93.0	259.7	127.4	14.7							
G94.0	250.0	119.9	14.5							
G95.0	240.4	113.1	14.4							
G96.0	230.8	105.9	14.2							
G97.0	221.8	99.7	14.1							
G98.0	212.9	93.4	13.9							
G99.0	204.0	87.6	13.8							
G100.0	195.6	81.8	13.6							
G101.0	187.4	76.3	13.5							
G102.0	179.5	71.0	13.4							
G103.0	171.7	66.1	13.3							
G104.0	163.8	61.3	13.1							
G105.0	155.2	57.0	13.0							
G106.0	142.8	53.0	12.9							
G107.0	133.4	49.4	12.8							
G108.0	124.9	45.8	12.7							
G109.0	118.9	42.2	12.6							
G110.0	113.4	38.5	12.5							

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:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	107.8	35.3	12.4							
G112.0	102.3	32.5	12.3							
G113.0	96.9	29.9	12.2							
G114.0	91.9	27.8	12.1							
G115.0	87.2	25.9	12.0							
G116.0	82.7	24.3	11.9							
G117.0	78.4	22.7	11.9							
G118.0	74.2	21.2	11.8							
G119.0	70.4	19.8	11.7							
G120.0	66.7	18.6	11.6							
G121.0	63.0	17.3	11.5							
G122.0	59.5	16.2	11.5							
G123.0	56.0	15.2	11.4							
G124.0	52.5	14.3	11.4							
G125.0	49.1	13.6	11.3							
G126.0	45.9	13.0	11.3							
G127.0	42.9	12.7	11.2							
G128.0	40.1	12.5	11.2							
G129.0	37.3	12.4	11.1							
G130.0	34.8	12.3	11.1							
G131.0	32.4	12.2	11.1							
G132.0	30.1	12.1	11.0							
G133.0	28.0	12.0	11.0							
G134.0	26.0	11.9	11.0							
G135.0	24.0	11.9	10.9							
G136.0	22.2	11.8	10.9							
G137.0	20.5	11.8	10.9							
G138.0	18.9	11.7	10.9							
G139.0	17.4	11.6	10.9							
G140.0	16.3	11.6	10.9							
G141.0	15.1	11.6	10.9							
G142.0	14.4	11.6	10.9							
G143.0	14.0	11.6	11.0							
G144.0	13.8	11.6	11.0							
G145.0	13.6	11.7	11.0							
G146.0	13.5	11.7	11.1							
G147.0	13.5	11.8	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:

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table (Continue 9)

Unit: cd

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