

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P894504

Luminaire Tested: 8TMB-12SL-FLTU-UNV-L850

Issue Date: 11/11/2024

**Test Information**

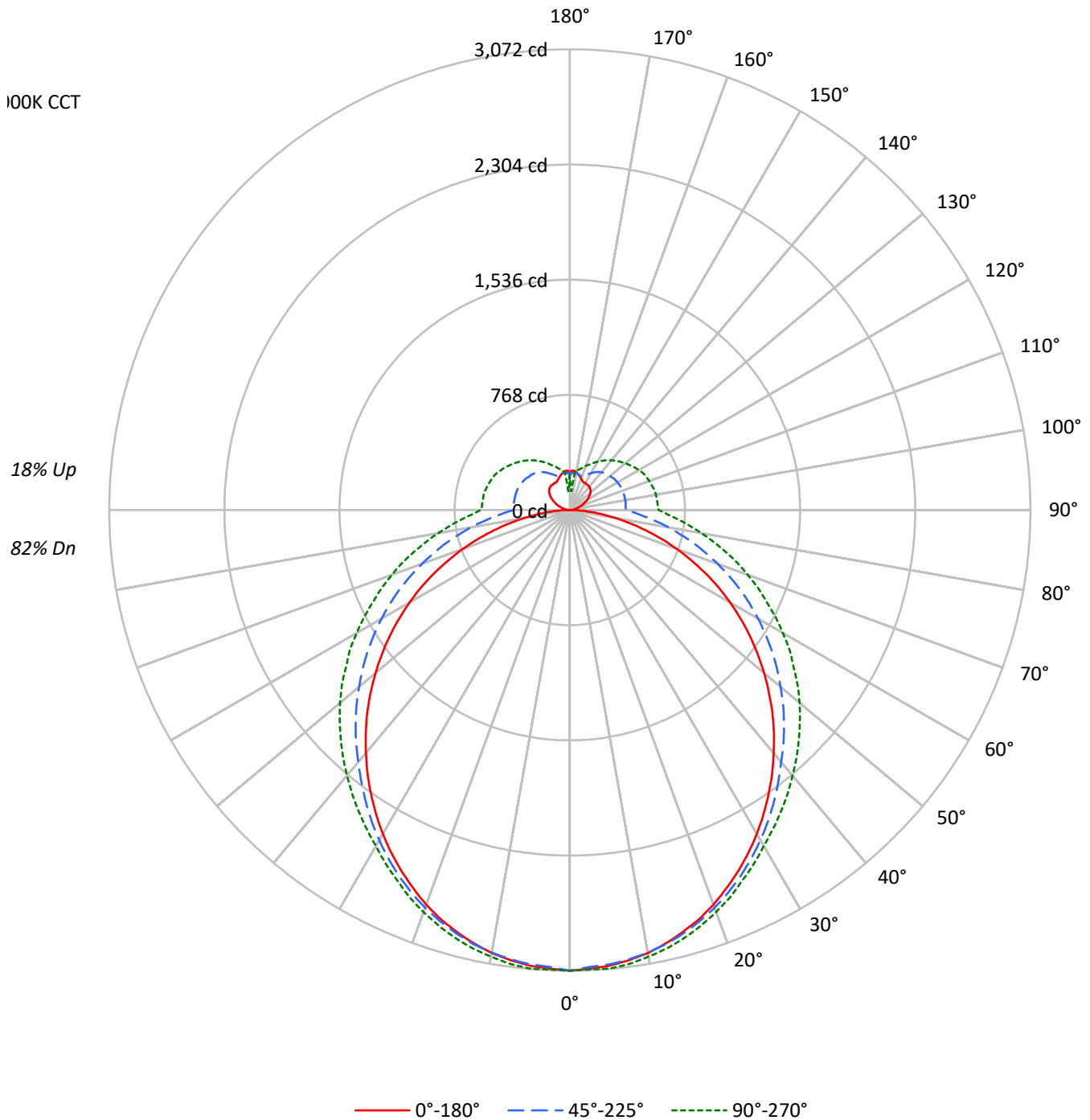
Test Method: LM-79-2019  
Report Number: P894504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-12SL-FLTU-UNV-L850  
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 50  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11614.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 88.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.53  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-12SL-FLTU-UNV-L850

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10900	10900	10900
5°	10837	10460	10432
10°	10756	10074	9936
15°	10623	9685	9463
20°	10473	9285	8982
25°	10276	8866	8495
30°	10067	8437	8051
35°	9834	8005	7685
40°	9588	7580	7335
45°	9343	7210	7003
50°	9057	6826	6680
55°	8750	6449	6319
60°	8381	6044	5976
65°	7941	5616	5588
70°	7359	5146	5228
75°	6553	4665	4838
80°	5492	4149	4438
85°	4136	3625	4073

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9343 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.5	2.5
10°-20°	828.6	7.1
20°-30°	1244.9	10.7
30°-40°	1494.8	12.9
40°-50°	1571.8	13.5
50°-60°	1476.8	12.7
60°-70°	1228.0	10.6
70°-80°	876.3	7.5
80°-90°	521.6	4.5
90°-100°	377.6	3.3
100°-110°	372.6	3.2
110°-120°	349.9	3.0
120°-130°	310.1	2.7
130°-140°	257.0	2.2
140°-150°	192.4	1.7
150°-160°	126.5	1.1
160°-170°	71.7	0.6
170°-180°	22.9	0.2
0°-30°	2364.0	20.4
0°-40°	3858.8	33.2
0°-60°	6907.4	59.5
0°-90°	9533.4	82.1
90°-120°	1100.1	9.5
90°-150°	1859.5	16.0
90°-180°	2081.0	17.9
0°-180°	11614.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	3050	3086	3041	3050	3069	289
15°	2912	2957	2923	2943	2954	822
25°	2657	2707	2693	2719	2724	1224
35°	2312	2365	2374	2432	2455	1446
45°	1911	1964	2020	2124	2160	1473
55°	1467	1526	1647	1782	1821	1311
65°	999	1080	1251	1408	1448	988
75°	525	642	856	1021	1074	557
85°	132	289	502	670	727	144
90°	0	166	373	536	592	9
95°	14	174	373	530	586	16
105°	53	194	376	525	575	57
115°	104	210	373	502	553	104
125°	157	224	362	471	508	140
135°	194	236	342	429	460	149
145°	205	230	309	382	404	129
155°	208	233	261	323	342	97
165°	238	252	244	247	286	67
175°	264	261	247	210	126	25
180°	230	230	230	230	230	



TEST NUMBER: P894504  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3060.9	3069.3	3072.1	3100.2	3088.9	3100.2	3080.5	3058.1	3052.5	3066.5	3049.7
5°	3049.7	3058.1	3060.9	3088.9	3077.7	3086.1	3069.3	3046.8	3041.2	3058.1	3041.2
7.5°	3027.2	3035.6	3038.4	3069.3	3055.3	3066.5	3046.8	3024.4	3021.6	3038.4	3021.6
10°	2999.2	3007.6	3010.4	3038.4	3027.2	3038.4	3018.8	2996.3	2993.5	3013.2	2996.3
12.5°	2959.9	2968.3	2973.9	3002.0	2987.9	3002.0	2979.5	2957.1	2959.9	2976.7	2965.5
15°	2912.2	2923.4	2926.2	2954.3	2943.0	2957.1	2934.6	2912.2	2917.8	2934.6	2923.4
17.5°	2861.7	2872.9	2875.7	2901.0	2889.7	2906.6	2881.3	2861.7	2867.3	2884.1	2875.7
20°	2800.0	2811.2	2816.8	2842.0	2830.8	2847.7	2822.4	2805.6	2811.2	2830.8	2822.4
22.5°	2729.8	2746.7	2749.5	2777.5	2763.5	2780.3	2755.1	2741.0	2749.5	2769.1	2760.7
25°	2656.9	2673.7	2676.5	2704.6	2693.3	2707.4	2682.1	2668.1	2679.3	2699.0	2693.3
27.5°	2578.3	2595.2	2600.8	2626.0	2614.8	2631.6	2603.6	2595.2	2606.4	2626.0	2620.4
30°	2494.2	2511.0	2513.8	2539.0	2530.6	2547.5	2522.2	2511.0	2527.8	2547.5	2541.8
32.5°	2404.4	2421.2	2429.6	2452.1	2443.7	2457.7	2435.2	2429.6	2443.7	2463.3	2460.5
35°	2311.8	2328.6	2337.0	2362.3	2351.1	2365.1	2342.7	2337.0	2359.5	2373.5	2373.5
37.5°	2216.4	2233.2	2241.7	2266.9	2252.9	2269.7	2247.3	2244.5	2269.7	2283.7	2283.7
40°	2115.4	2135.0	2143.5	2165.9	2154.7	2168.7	2149.1	2151.9	2174.3	2191.2	2194.0
42.5°	2014.4	2034.0	2042.5	2067.7	2053.7	2067.7	2050.9	2053.7	2078.9	2095.8	2109.8
45°	1910.6	1927.4	1935.8	1963.9	1947.1	1963.9	1947.1	1952.7	1977.9	2003.2	2020.0
47.5°	1801.2	1818.0	1832.0	1854.5	1840.5	1854.5	1843.3	1851.7	1882.5	1907.8	1930.2
50°	1691.8	1708.6	1722.6	1742.3	1728.2	1747.9	1733.8	1745.1	1784.3	1809.6	1834.8
52.5°	1579.5	1593.6	1616.0	1627.2	1616.0	1638.5	1627.2	1644.1	1683.3	1714.2	1742.3
55°	1467.3	1481.3	1503.8	1512.2	1501.0	1526.2	1517.8	1540.3	1582.3	1616.0	1646.9
57.5°	1352.3	1366.3	1386.0	1394.4	1386.0	1414.0	1411.2	1436.5	1478.5	1515.0	1548.7
60°	1234.5	1248.5	1265.3	1273.7	1273.7	1301.8	1301.8	1332.6	1377.5	1411.2	1450.5
62.5°	1119.4	1127.8	1144.7	1155.9	1164.3	1192.4	1192.4	1226.0	1273.7	1313.0	1352.3
65°	998.8	1007.2	1021.2	1035.3	1049.3	1080.1	1083.0	1119.4	1167.1	1206.4	1251.3
67.5°	878.1	886.6	900.6	917.4	937.1	967.9	973.5	1012.8	1063.3	1108.2	1150.3
70°	760.3	763.1	779.9	802.4	824.8	855.7	864.1	906.2	959.5	1004.4	1049.3
72.5°	642.5	645.3	662.1	690.2	715.4	749.1	760.3	805.2	858.5	903.4	948.3
75°	524.6	527.4	549.9	583.6	611.6	642.5	656.5	704.2	757.5	805.2	855.7
77.5°	412.4	418.0	440.5	474.1	507.8	544.3	558.3	606.0	664.9	709.8	757.5
80°	308.6	314.2	339.5	375.9	412.4	446.1	462.9	510.6	572.3	617.2	670.5
82.5°	213.2	221.6	252.5	291.8	328.3	364.7	381.6	426.4	482.6	533.1	583.6
85°	131.9	143.1	173.9	216.0	255.3	289.0	305.8	353.5	406.8	454.5	502.2
87.5°	61.7	78.6	109.4	151.5	193.6	221.6	241.3	289.0	339.5	387.2	434.9
90°	0.0	25.3	56.1	98.2	140.3	165.5	188.0	232.9	283.4	328.3	373.1
92.5°	5.6	28.1	61.7	101.0	143.1	168.3	190.8	235.7	283.4	328.3	373.1
95°	14.0	30.9	64.5	106.6	148.7	173.9	193.6	238.5	286.2	331.1	373.1
97.5°	25.3	39.3	72.9	112.2	154.3	176.8	199.2	244.1	289.0	333.9	375.9
100°	33.7	44.9	78.6	117.8	159.9	182.4	204.8	246.9	291.8	336.7	375.9
102.5°	42.1	56.1	87.0	123.4	165.5	188.0	207.6	249.7	294.6	336.7	375.9
105°	53.3	64.5	92.6	131.9	171.1	193.6	213.2	255.3	297.4	339.5	375.9
107.5°	64.5	72.9	101.0	137.5	176.8	196.4	216.0	258.1	300.2	339.5	375.9
110°	78.6	84.2	109.4	143.1	179.6	202.0	221.6	260.9	300.2	339.5	375.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	92.6	92.6	117.8	148.7	185.2	204.8	224.4	263.7	303.0	339.5	375.9
115°	103.8	106.6	126.3	154.3	190.8	210.4	227.3	263.7	303.0	339.5	373.1
117.5°	117.8	117.8	137.5	159.9	193.6	213.2	232.9	266.5	303.0	336.7	370.3
120°	131.9	129.1	145.9	168.3	199.2	216.0	235.7	269.3	303.0	336.7	367.5
122.5°	145.9	140.3	151.5	173.9	202.0	221.6	235.7	269.3	303.0	333.9	364.7
125°	157.1	151.5	159.9	182.4	207.6	224.4	238.5	269.3	303.0	331.1	361.9
127.5°	168.3	162.7	171.1	188.0	210.4	224.4	241.3	269.3	303.0	328.3	356.3
130°	179.6	171.1	182.4	193.6	216.0	227.3	241.3	269.3	300.2	325.4	350.7
132.5°	188.0	179.6	190.8	199.2	218.8	230.1	244.1	269.3	297.4	322.6	347.9
135°	193.6	185.2	199.2	204.8	224.4	235.7	246.9	269.3	294.6	319.8	342.3
137.5°	199.2	188.0	204.8	210.4	227.3	238.5	246.9	266.5	291.8	314.2	336.7
140°	202.0	193.6	210.4	216.0	224.4	235.7	246.9	263.7	286.2	308.6	328.3
142.5°	204.8	193.6	213.2	218.8	224.4	232.9	244.1	258.1	280.6	300.2	319.8
145°	204.8	196.4	213.2	218.8	224.4	230.1	238.5	255.3	272.1	289.0	308.6
147.5°	204.8	199.2	216.0	221.6	227.3	227.3	232.9	249.7	263.7	280.6	297.4
150°	207.6	199.2	216.0	221.6	230.1	230.1	232.9	241.3	258.1	269.3	283.4
152.5°	204.8	202.0	213.2	224.4	230.1	232.9	232.9	235.7	249.7	260.9	272.1
155°	207.6	207.6	216.0	230.1	232.9	232.9	235.7	232.9	238.5	249.7	260.9
157.5°	213.2	218.8	218.8	232.9	238.5	238.5	241.3	238.5	235.7	238.5	249.7
160°	221.6	227.3	227.3	235.7	244.1	244.1	246.9	244.1	241.3	238.5	238.5
162.5°	230.1	235.7	235.7	238.5	246.9	249.7	252.5	249.7	246.9	241.3	238.5
165°	238.5	244.1	244.1	244.1	249.7	252.5	255.3	252.5	252.5	246.9	244.1
167.5°	246.9	252.5	252.5	249.7	252.5	255.3	258.1	255.3	255.3	252.5	246.9
170°	255.3	260.9	260.9	255.3	258.1	258.1	260.9	258.1	258.1	252.5	249.7
172.5°	260.9	266.5	263.7	260.9	260.9	260.9	260.9	258.1	255.3	249.7	249.7
175°	263.7	269.3	269.3	263.7	260.9	260.9	263.7	258.1	255.3	252.5	246.9
177.5°	263.7	269.3	269.3	263.7	263.7	260.9	263.7	260.9	260.9	255.3	249.7
180°	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3060.9	3058.1	3041.2	3060.9	3060.9	3055.3	3077.7	3074.9	3072.1	3066.5
5°	3049.7	3046.8	3030.0	3049.7	3049.7	3046.8	3069.3	3072.1	3074.9	3069.3
7.5°	3032.8	3030.0	3013.2	3032.8	3032.8	3030.0	3055.3	3058.1	3060.9	3052.5
10°	3007.6	3004.8	2987.9	3007.6	3010.4	3007.6	3027.2	3030.0	3035.6	3024.4
12.5°	2973.9	2973.9	2957.1	2976.7	2979.5	2976.7	2996.3	3002.0	3007.6	2993.5
15°	2931.8	2934.6	2920.6	2940.2	2943.0	2943.0	2962.7	2965.5	2973.9	2954.3
17.5°	2881.3	2886.9	2875.7	2895.3	2898.2	2901.0	2912.2	2920.6	2929.0	2906.6
20°	2828.0	2830.8	2822.4	2839.2	2844.8	2842.0	2856.1	2867.3	2875.7	2853.3
22.5°	2763.5	2766.3	2757.9	2774.7	2780.3	2783.1	2794.3	2808.4	2814.0	2794.3
25°	2690.5	2701.8	2696.2	2713.0	2718.6	2718.6	2729.8	2743.8	2752.3	2724.2
27.5°	2620.4	2634.4	2628.8	2645.7	2651.3	2654.1	2659.7	2676.5	2684.9	2659.7
30°	2541.8	2558.7	2555.9	2572.7	2578.3	2575.5	2586.7	2603.6	2614.8	2586.7
32.5°	2454.9	2477.3	2474.5	2497.0	2502.6	2505.4	2513.8	2536.2	2547.5	2522.2
35°	2370.7	2396.0	2398.8	2424.0	2432.4	2435.2	2446.5	2468.9	2480.1	2454.9
37.5°	2283.7	2317.4	2325.8	2351.1	2359.5	2362.3	2373.5	2398.8	2410.0	2384.7
40°	2199.6	2238.8	2250.1	2272.5	2280.9	2289.3	2297.8	2323.0	2337.0	2311.8
42.5°	2115.4	2157.5	2171.5	2194.0	2202.4	2210.8	2222.0	2250.1	2261.3	2238.8
45°	2028.4	2073.3	2090.1	2112.6	2123.8	2132.2	2143.5	2168.7	2182.7	2160.3
47.5°	1941.5	1986.3	2003.2	2028.4	2039.6	2050.9	2059.3	2090.1	2104.2	2081.7
50°	1848.9	1899.4	1919.0	1941.5	1958.3	1966.7	1977.9	2006.0	2020.0	2000.4
52.5°	1756.3	1809.6	1832.0	1854.5	1871.3	1885.3	1891.0	1921.8	1935.8	1916.2
55°	1660.9	1714.2	1739.5	1764.7	1781.5	1798.4	1804.0	1834.8	1848.9	1820.8
57.5°	1565.5	1621.6	1646.9	1674.9	1689.0	1708.6	1717.0	1745.1	1759.1	1739.5
60°	1470.1	1523.4	1554.3	1579.5	1599.2	1616.0	1621.6	1652.5	1666.5	1641.3
62.5°	1371.9	1428.0	1458.9	1487.0	1503.8	1523.4	1531.8	1559.9	1571.1	1545.9
65°	1270.9	1327.0	1360.7	1386.0	1408.4	1425.2	1430.8	1461.7	1472.9	1447.7
67.5°	1169.9	1226.0	1262.5	1290.6	1310.2	1329.8	1335.5	1366.3	1377.5	1357.9
70°	1071.7	1127.8	1164.3	1198.0	1212.0	1231.6	1240.1	1268.1	1279.3	1262.5
72.5°	973.5	1029.6	1068.9	1102.6	1116.6	1136.3	1147.5	1169.9	1186.8	1172.7
75°	878.1	934.3	973.5	1007.2	1021.2	1040.9	1052.1	1074.5	1085.8	1074.5
77.5°	785.6	841.7	878.1	911.8	928.6	945.5	956.7	979.1	993.2	981.9
80°	695.8	751.9	788.4	819.2	836.1	852.9	864.1	889.4	900.6	892.2
82.5°	611.6	664.9	704.2	735.1	751.9	768.7	779.9	802.4	816.4	805.2
85°	535.9	589.2	625.6	656.5	670.5	687.4	698.6	721.0	732.3	726.6
87.5°	462.9	510.6	552.7	583.6	597.6	614.4	628.4	645.3	659.3	650.9
90°	406.8	448.9	488.2	519.0	535.9	552.7	569.5	586.4	597.6	592.0
92.5°	409.6	448.9	485.4	513.4	530.3	547.1	563.9	583.6	592.0	586.4
95°	409.6	448.9	485.4	513.4	530.3	547.1	563.9	583.6	592.0	586.4
97.5°	409.6	448.9	485.4	513.4	530.3	547.1	563.9	583.6	592.0	583.6
100°	409.6	448.9	485.4	513.4	530.3	544.3	561.1	580.8	589.2	583.6
102.5°	409.6	448.9	482.6	510.6	527.4	541.5	558.3	577.9	586.4	580.8
105°	409.6	446.1	482.6	507.8	524.6	538.7	555.5	572.3	580.8	575.1
107.5°	406.8	443.3	476.9	505.0	519.0	533.1	549.9	566.7	575.1	569.5
110°	406.8	440.5	474.1	499.4	513.4	527.4	544.3	561.1	569.5	563.9





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	404.0	437.7	471.3	493.8	507.8	521.8	535.9	555.5	563.9	558.3
115°	401.2	434.9	465.7	488.2	502.2	513.4	530.3	549.9	555.5	552.7
117.5°	398.4	429.3	460.1	482.6	496.6	507.8	521.8	538.7	547.1	544.3
120°	395.6	423.6	454.5	474.1	488.2	499.4	510.6	527.4	535.9	530.3
122.5°	390.0	418.0	448.9	468.5	479.8	491.0	502.2	516.2	524.6	521.8
125°	384.4	412.4	440.5	460.1	471.3	479.8	491.0	505.0	510.6	507.8
127.5°	378.8	406.8	432.1	448.9	462.9	471.3	479.8	493.8	499.4	496.6
130°	373.1	398.4	423.6	440.5	451.7	460.1	468.5	482.6	485.4	485.4
132.5°	367.5	390.0	415.2	432.1	443.3	448.9	457.3	468.5	474.1	471.3
135°	361.9	381.6	406.8	420.8	429.3	437.7	446.1	457.3	460.1	460.1
137.5°	353.5	373.1	395.6	409.6	418.0	423.6	432.1	443.3	446.1	446.1
140°	345.1	364.7	384.4	395.6	406.8	412.4	418.0	429.3	432.1	432.1
142.5°	336.7	353.5	373.1	384.4	395.6	398.4	406.8	415.2	418.0	418.0
145°	325.4	345.1	361.9	373.1	381.6	384.4	392.8	401.2	401.2	404.0
147.5°	311.4	328.3	350.7	359.1	367.5	370.3	378.8	384.4	387.2	387.2
150°	297.4	314.2	333.9	347.9	356.3	359.1	361.9	370.3	370.3	373.1
152.5°	283.4	297.4	317.0	331.1	342.3	345.1	347.9	353.5	353.5	356.3
155°	269.3	280.6	297.4	311.4	322.6	328.3	333.9	339.5	339.5	342.3
157.5°	258.1	269.3	283.4	294.6	303.0	311.4	319.8	325.4	325.4	325.4
160°	244.1	252.5	266.5	274.9	286.2	291.8	305.8	311.4	311.4	314.2
162.5°	235.7	238.5	246.9	255.3	263.7	269.3	283.4	297.4	297.4	300.2
165°	238.5	235.7	238.5	241.3	246.9	249.7	258.1	277.8	283.4	286.2
167.5°	244.1	235.7	235.7	235.7	241.3	241.3	249.7	260.9	280.6	274.9
170°	244.1	235.7	230.1	230.1	232.9	230.1	235.7	244.1	255.3	266.5
172.5°	246.9	238.5	230.1	218.8	221.6	218.8	213.2	213.2	216.0	252.5
175°	244.1	238.5	227.3	213.2	210.4	202.0	185.2	171.1	162.7	126.3
177.5°	241.3	232.9	224.4	213.2	207.6	199.2	179.6	157.1	134.7	129.1
180°	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1	230.1



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		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	16.01	17.33	16.62	17.96	18.68	18.64	19.96	19.25	20.59	21.31
	3H	17.41	18.61	18.04	19.25	20.01	21.10	22.30	21.73	22.94	23.70
	4H	17.84	18.98	18.49	19.63	20.40	22.27	23.40	22.91	24.06	24.83
	6H	18.07	19.13	18.74	19.80	20.58	23.45	24.50	24.11	25.17	25.95
	8H	18.12	19.13	18.79	19.82	20.60	24.04	25.05	24.71	25.74	26.52
	12H	18.13	19.10	18.81	19.78	20.59	24.67	25.64	25.35	26.32	27.14
4H	2H	16.91	18.05	17.56	18.70	19.47	18.98	20.12	19.63	20.77	21.54
	3H	18.53	19.50	19.20	20.19	20.98	21.64	22.61	22.31	23.30	24.09
	4H	19.09	19.97	19.77	20.67	21.49	22.96	23.84	23.64	24.54	25.36
	6H	19.42	20.20	20.12	20.92	21.75	24.31	25.09	25.01	25.81	26.64
	8H	19.50	20.23	20.20	20.95	21.79	25.00	25.73	25.70	26.45	27.29
	12H	19.53	20.19	20.25	20.94	21.78	25.75	26.42	26.48	27.16	28.01
8H	4H	19.75	20.48	20.45	21.20	22.04	23.11	23.84	23.81	24.56	25.40
	6H	20.25	20.87	20.99	21.63	22.47	24.60	25.22	25.34	25.98	26.82
	8H	20.41	20.96	21.15	21.73	22.58	25.41	25.97	26.16	26.73	27.59
	12H	20.50	20.99	21.25	21.74	22.66	26.32	26.82	27.07	27.57	28.49
12H	4H	19.92	20.58	20.65	21.33	22.17	23.10	23.76	23.82	24.50	25.35
	6H	20.52	21.08	21.26	21.84	22.69	24.62	25.17	25.36	25.94	26.79
	8H	20.75	21.25	21.50	22.00	22.92	25.48	25.97	26.23	26.73	27.64