

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: P894502

Luminaire Tested: 8TMB-12SL-FLTU-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894502
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-L835
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 35
Light Source: -
Ballast/Driver: -

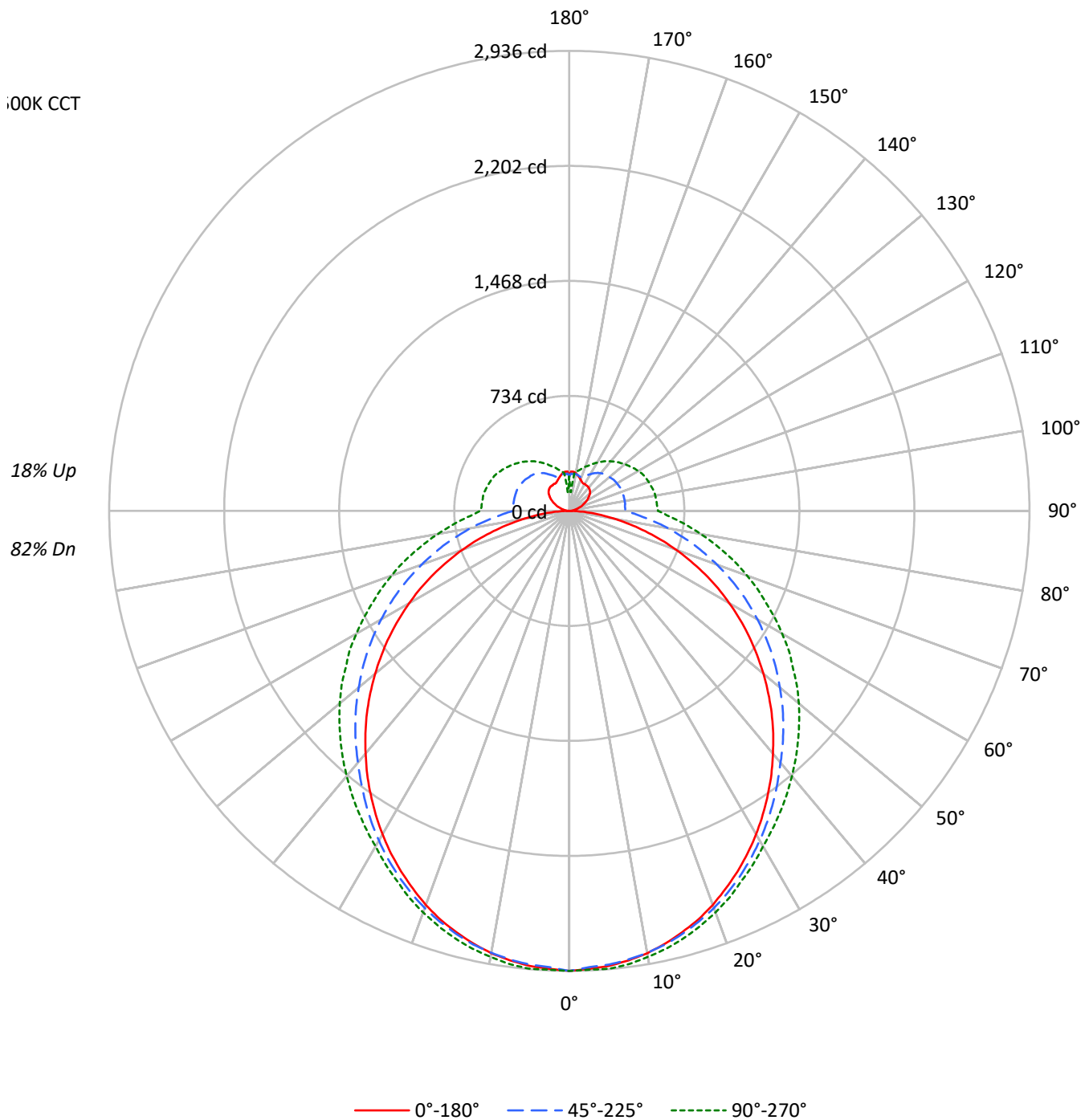
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11100.0 lumens
Efficiency: N/A
Efficacy: 125.0 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_{in}): 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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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°	10418	10418	10418
5°	10358	9997	9970
10°	10280	9628	9497
15°	10153	9256	9044
20°	10009	8874	8585
25°	9822	8474	8119
30°	9621	8064	7695
35°	9399	7651	7345
40°	9164	7245	7011
45°	8929	6890	6693
50°	8656	6524	6384
55°	8363	6164	6039
60°	8010	5776	5711
65°	7589	5368	5341
70°	7034	4918	4996
75°	6263	4458	4624
80°	5250	3966	4242
85°	3951	3465	3893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8929 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	2.5
10°-20°	791.9	7.1
20°-30°	1189.8	10.7
30°-40°	1428.7	12.9
40°-50°	1502.3	13.5
50°-60°	1411.5	12.7
60°-70°	1173.7	10.6
70°-80°	837.5	7.5
80°-90°	498.5	4.5
90°-100°	360.9	3.3
100°-110°	356.1	3.2
110°-120°	334.5	3.0
120°-130°	296.3	2.7
130°-140°	245.6	2.2
140°-150°	183.8	1.7
150°-160°	120.9	1.1
160°-170°	68.6	0.6
170°-180°	21.9	0.2
0°-30°	2259.4	20.4
0°-40°	3688.0	33.2
0°-60°	6601.7	59.5
0°-90°	9111.4	82.1
90°-120°	1051.4	9.5
90°-150°	1777.2	16.0
90°-180°	1989.0	17.9
0°-180°	11100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2936	2936	2936	2936	2936	
5°	2915	2950	2907	2915	2934	277
15°	2783	2826	2794	2813	2824	785
25°	2539	2588	2574	2598	2604	1170
35°	2210	2260	2268	2325	2346	1382
45°	1826	1877	1931	2030	2065	1408
55°	1402	1459	1574	1703	1740	1253
65°	955	1032	1196	1346	1384	944
75°	501	614	818	976	1027	533
85°	126	276	480	641	694	138
90°	0	158	357	512	566	9
95°	13	166	357	507	560	15
105°	51	185	359	501	550	54
115°	99	201	357	480	528	99
125°	150	214	346	450	485	134
135°	185	225	327	410	440	143
145°	196	220	295	365	386	123
155°	198	223	249	308	327	93
165°	228	241	233	236	274	64
175°	252	249	236	201	121	24
180°	220	220	220	220	220	



TEST NUMBER: P894502
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1
2.5°	2925.4	2933.5	2936.1	2963.0	2952.2	2963.0	2944.2	2922.7	2917.4	2930.8	2914.7
5°	2914.7	2922.7	2925.4	2952.2	2941.5	2949.5	2933.5	2912.0	2906.6	2922.7	2906.6
7.5°	2893.2	2901.3	2904.0	2933.5	2920.0	2930.8	2912.0	2890.6	2887.9	2904.0	2887.9
10°	2866.4	2874.5	2877.1	2904.0	2893.2	2904.0	2885.2	2863.7	2861.1	2879.8	2863.7
12.5°	2828.9	2836.9	2842.3	2869.1	2855.7	2869.1	2847.7	2826.2	2828.9	2845.0	2834.2
15°	2783.3	2794.0	2796.7	2823.5	2812.8	2826.2	2804.7	2783.3	2788.7	2804.7	2794.0
17.5°	2735.0	2745.8	2748.4	2772.6	2761.8	2777.9	2753.8	2735.0	2740.4	2756.5	2748.4
20°	2676.0	2686.8	2692.1	2716.3	2705.5	2721.6	2697.5	2681.4	2686.8	2705.5	2697.5
22.5°	2609.0	2625.1	2627.8	2654.6	2641.2	2657.3	2633.1	2619.7	2627.8	2646.5	2638.5
25°	2539.3	2555.4	2558.1	2584.9	2574.1	2587.6	2563.4	2550.0	2560.7	2579.5	2574.1
27.5°	2464.2	2480.3	2485.7	2509.8	2499.1	2515.2	2488.3	2480.3	2491.0	2509.8	2504.4
30°	2383.8	2399.9	2402.5	2426.7	2418.6	2434.7	2410.6	2399.9	2415.9	2434.7	2429.4
32.5°	2298.0	2314.1	2322.1	2343.5	2335.5	2348.9	2327.5	2322.1	2335.5	2354.3	2351.6
35°	2209.5	2225.6	2233.6	2257.7	2247.0	2260.4	2239.0	2233.6	2255.1	2268.5	2268.5
37.5°	2118.3	2134.4	2142.4	2166.6	2153.2	2169.3	2147.8	2145.1	2169.3	2182.7	2182.7
40°	2021.8	2040.5	2048.6	2070.0	2059.3	2072.7	2054.0	2056.6	2078.1	2094.2	2096.9
42.5°	1925.2	1944.0	1952.1	1976.2	1962.8	1976.2	1960.1	1962.8	1986.9	2003.0	2016.4
45°	1826.0	1842.1	1850.2	1877.0	1860.9	1877.0	1860.9	1866.3	1890.4	1914.5	1930.6
47.5°	1721.5	1737.6	1751.0	1772.4	1759.0	1772.4	1761.7	1769.7	1799.2	1823.4	1844.8
50°	1616.9	1633.0	1646.4	1665.2	1651.7	1670.5	1657.1	1667.8	1705.4	1729.5	1753.6
52.5°	1509.6	1523.0	1544.5	1555.2	1544.5	1565.9	1555.2	1571.3	1608.8	1638.3	1665.2
55°	1402.4	1415.8	1437.2	1445.3	1434.6	1458.7	1450.6	1472.1	1512.3	1544.5	1574.0
57.5°	1292.4	1305.8	1324.6	1332.7	1324.6	1351.4	1348.7	1372.9	1413.1	1448.0	1480.1
60°	1179.8	1193.2	1209.3	1217.4	1217.4	1244.2	1244.2	1273.7	1316.6	1348.7	1386.3
62.5°	1069.9	1077.9	1094.0	1104.7	1112.8	1139.6	1139.6	1171.8	1217.4	1254.9	1292.4
65°	954.6	962.6	976.0	989.4	1002.8	1032.3	1035.0	1069.9	1115.5	1153.0	1195.9
67.5°	839.3	847.3	860.7	876.8	895.6	925.1	930.4	968.0	1016.3	1059.2	1099.4
70°	726.7	729.3	745.4	766.9	788.3	817.8	825.9	866.1	917.0	959.9	1002.8
72.5°	614.0	616.7	632.8	659.6	683.8	715.9	726.7	769.6	820.5	863.4	906.3
75°	501.4	504.1	525.6	557.7	584.5	614.0	627.4	673.0	724.0	769.6	817.8
77.5°	394.2	399.5	421.0	453.2	485.3	520.2	533.6	579.2	635.5	678.4	724.0
80°	295.0	300.3	324.4	359.3	394.2	426.3	442.4	488.0	547.0	589.9	640.9
82.5°	203.8	211.8	241.3	278.9	313.7	348.6	364.7	407.6	461.2	509.5	557.7
85°	126.0	136.8	166.2	206.5	244.0	276.2	292.3	337.9	388.8	434.4	480.0
87.5°	59.0	75.1	104.6	144.8	185.0	211.8	230.6	276.2	324.4	370.0	415.6
90°	0.0	24.1	53.6	93.8	134.1	158.2	179.7	222.6	270.8	313.7	356.6
92.5°	5.4	26.8	59.0	96.5	136.8	160.9	182.3	225.2	270.8	313.7	356.6
95°	13.4	29.5	61.7	101.9	142.1	166.2	185.0	227.9	273.5	316.4	356.6
97.5°	24.1	37.5	69.7	107.3	147.5	168.9	190.4	233.3	276.2	319.1	359.3
100°	32.2	42.9	75.1	112.6	152.8	174.3	195.7	236.0	278.9	321.8	359.3
102.5°	40.2	53.6	83.1	118.0	158.2	179.7	198.4	238.6	281.5	321.8	359.3
105°	50.9	61.7	88.5	126.0	163.6	185.0	203.8	244.0	284.2	324.4	359.3
107.5°	61.7	69.7	96.5	131.4	168.9	187.7	206.5	246.7	286.9	324.4	359.3
110°	75.1	80.4	104.6	136.8	171.6	193.1	211.8	249.4	286.9	324.4	359.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88.5	88.5	112.6	142.1	177.0	195.7	214.5	252.1	289.6	324.4	359.3
115°	99.2	101.9	120.7	147.5	182.3	201.1	217.2	252.1	289.6	324.4	356.6
117.5°	112.6	112.6	131.4	152.8	185.0	203.8	222.6	254.7	289.6	321.8	353.9
120°	126.0	123.3	139.4	160.9	190.4	206.5	225.2	257.4	289.6	321.8	351.3
122.5°	139.4	134.1	144.8	166.2	193.1	211.8	225.2	257.4	289.6	319.1	348.6
125°	150.2	144.8	152.8	174.3	198.4	214.5	227.9	257.4	289.6	316.4	345.9
127.5°	160.9	155.5	163.6	179.7	201.1	214.5	230.6	257.4	289.6	313.7	340.5
130°	171.6	163.6	174.3	185.0	206.5	217.2	230.6	257.4	286.9	311.0	335.2
132.5°	179.7	171.6	182.3	190.4	209.1	219.9	233.3	257.4	284.2	308.4	332.5
135°	185.0	177.0	190.4	195.7	214.5	225.2	236.0	257.4	281.5	305.7	327.1
137.5°	190.4	179.7	195.7	201.1	217.2	227.9	236.0	254.7	278.9	300.3	321.8
140°	193.1	185.0	201.1	206.5	214.5	225.2	236.0	252.1	273.5	295.0	313.7
142.5°	195.7	185.0	203.8	209.1	214.5	222.6	233.3	246.7	268.1	286.9	305.7
145°	195.7	187.7	203.8	209.1	214.5	219.9	227.9	244.0	260.1	276.2	295.0
147.5°	195.7	190.4	206.5	211.8	217.2	217.2	222.6	238.6	252.1	268.1	284.2
150°	198.4	190.4	206.5	211.8	219.9	219.9	222.6	230.6	246.7	257.4	270.8
152.5°	195.7	193.1	203.8	214.5	219.9	222.6	222.6	225.2	238.6	249.4	260.1
155°	198.4	198.4	206.5	219.9	222.6	222.6	225.2	222.6	227.9	238.6	249.4
157.5°	203.8	209.1	209.1	222.6	227.9	227.9	230.6	227.9	225.2	227.9	238.6
160°	211.8	217.2	217.2	225.2	233.3	233.3	236.0	233.3	230.6	227.9	227.9
162.5°	219.9	225.2	225.2	227.9	236.0	238.6	241.3	238.6	236.0	230.6	227.9
165°	227.9	233.3	233.3	233.3	238.6	241.3	244.0	241.3	241.3	236.0	233.3
167.5°	236.0	241.3	241.3	238.6	241.3	244.0	246.7	244.0	244.0	241.3	236.0
170°	244.0	249.4	249.4	244.0	246.7	246.7	249.4	246.7	246.7	241.3	238.6
172.5°	249.4	254.7	252.1	249.4	249.4	249.4	249.4	246.7	244.0	238.6	238.6
175°	252.1	257.4	257.4	252.1	249.4	249.4	252.1	246.7	244.0	241.3	236.0
177.5°	252.1	257.4	257.4	252.1	249.4	249.4	252.1	249.4	249.4	244.0	238.6
180°	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1
2.5°	2925.4	2922.7	2906.6	2925.4	2925.4	2920.0	2941.5	2938.8	2936.1	2930.8
5°	2914.7	2912.0	2895.9	2914.7	2914.7	2912.0	2933.5	2936.1	2938.8	2933.5
7.5°	2898.6	2895.9	2879.8	2898.6	2898.6	2895.9	2920.0	2922.7	2925.4	2917.4
10°	2874.5	2871.8	2855.7	2874.5	2877.1	2874.5	2893.2	2895.9	2901.3	2890.6
12.5°	2842.3	2842.3	2826.2	2845.0	2847.7	2845.0	2863.7	2869.1	2874.5	2861.1
15°	2802.1	2804.7	2791.3	2810.1	2812.8	2812.8	2831.6	2834.2	2842.3	2823.5
17.5°	2753.8	2759.2	2748.4	2767.2	2769.9	2772.6	2783.3	2791.3	2799.4	2777.9
20°	2702.9	2705.5	2697.5	2713.6	2718.9	2716.3	2729.7	2740.4	2748.4	2727.0
22.5°	2641.2	2643.9	2635.8	2651.9	2657.3	2660.0	2670.7	2684.1	2689.4	2670.7
25°	2571.5	2582.2	2576.8	2592.9	2598.3	2598.3	2609.0	2622.4	2630.5	2603.6
27.5°	2504.4	2517.8	2512.5	2528.6	2533.9	2536.6	2542.0	2558.1	2566.1	2542.0
30°	2429.4	2445.4	2442.8	2458.8	2464.2	2461.5	2472.3	2488.3	2499.1	2472.3
32.5°	2346.2	2367.7	2365.0	2386.4	2391.8	2394.5	2402.5	2424.0	2434.7	2410.6
35°	2265.8	2289.9	2292.6	2316.7	2324.8	2327.5	2338.2	2359.6	2370.4	2346.2
37.5°	2182.7	2214.8	2222.9	2247.0	2255.1	2257.7	2268.5	2292.6	2303.3	2279.2
40°	2102.2	2139.8	2150.5	2171.9	2180.0	2188.0	2196.1	2220.2	2233.6	2209.5
42.5°	2021.8	2062.0	2075.4	2096.9	2104.9	2112.9	2123.7	2150.5	2161.2	2139.8
45°	1938.7	1981.6	1997.6	2019.1	2029.8	2037.9	2048.6	2072.7	2086.1	2064.7
47.5°	1855.5	1898.4	1914.5	1938.7	1949.4	1960.1	1968.2	1997.6	2011.1	1989.6
50°	1767.0	1815.3	1834.1	1855.5	1871.6	1879.7	1890.4	1917.2	1930.6	1911.8
52.5°	1678.6	1729.5	1751.0	1772.4	1788.5	1801.9	1807.3	1836.8	1850.2	1831.4
55°	1587.4	1638.3	1662.5	1686.6	1702.7	1718.8	1724.1	1753.6	1767.0	1740.2
57.5°	1496.2	1549.9	1574.0	1600.8	1614.2	1633.0	1641.0	1667.8	1681.2	1662.5
60°	1405.1	1456.0	1485.5	1509.6	1528.4	1544.5	1549.9	1579.3	1592.8	1568.6
62.5°	1311.2	1364.8	1394.3	1421.1	1437.2	1456.0	1464.0	1490.9	1501.6	1477.5
65°	1214.7	1268.3	1300.5	1324.6	1346.1	1362.2	1367.5	1397.0	1407.7	1383.6
67.5°	1118.1	1171.8	1206.6	1233.4	1252.2	1271.0	1276.3	1305.8	1316.6	1297.8
70°	1024.3	1077.9	1112.8	1145.0	1158.4	1177.1	1185.2	1212.0	1222.7	1206.6
72.5°	930.4	984.1	1021.6	1053.8	1067.2	1086.0	1096.7	1118.1	1134.2	1120.8
75°	839.3	892.9	930.4	962.6	976.0	994.8	1005.5	1027.0	1037.7	1027.0
77.5°	750.8	804.4	839.3	871.5	887.5	903.6	914.4	935.8	949.2	938.5
80°	665.0	718.6	753.5	783.0	799.1	815.1	825.9	850.0	860.7	852.7
82.5°	584.5	635.5	673.0	702.5	718.6	734.7	745.4	766.9	780.3	769.6
85°	512.1	563.1	598.0	627.4	640.9	656.9	667.7	689.1	699.8	694.5
87.5°	442.4	488.0	528.2	557.7	571.1	587.2	600.6	616.7	630.1	622.1
90°	388.8	429.0	466.6	496.1	512.1	528.2	544.3	560.4	571.1	565.8
92.5°	391.5	429.0	463.9	490.7	506.8	522.9	539.0	557.7	565.8	560.4
95°	391.5	429.0	463.9	490.7	506.8	522.9	539.0	557.7	565.8	560.4
97.5°	391.5	429.0	463.9	490.7	506.8	522.9	539.0	557.7	565.8	557.7
100°	391.5	429.0	463.9	490.7	506.8	520.2	536.3	555.1	563.1	557.7
102.5°	391.5	429.0	461.2	488.0	504.1	517.5	533.6	552.4	560.4	555.1
105°	391.5	426.3	461.2	485.3	501.4	514.8	530.9	547.0	555.1	549.7
107.5°	388.8	423.7	455.8	482.7	496.1	509.5	525.6	541.6	549.7	544.3
110°	388.8	421.0	453.2	477.3	490.7	504.1	520.2	536.3	544.3	539.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	386.1	418.3	450.5	471.9	485.3	498.7	512.1	530.9	539.0	533.6
115°	383.4	415.6	445.1	466.6	480.0	490.7	506.8	525.6	530.9	528.2
117.5°	380.8	410.3	439.8	461.2	474.6	485.3	498.7	514.8	522.9	520.2
120°	378.1	404.9	434.4	453.2	466.6	477.3	488.0	504.1	512.1	506.8
122.5°	372.7	399.5	429.0	447.8	458.5	469.2	480.0	493.4	501.4	498.7
125°	367.4	394.2	421.0	439.8	450.5	458.5	469.2	482.7	488.0	485.3
127.5°	362.0	388.8	412.9	429.0	442.4	450.5	458.5	471.9	477.3	474.6
130°	356.6	380.8	404.9	421.0	431.7	439.8	447.8	461.2	463.9	463.9
132.5°	351.3	372.7	396.8	412.9	423.7	429.0	437.1	447.8	453.2	450.5
135°	345.9	364.7	388.8	402.2	410.3	418.3	426.3	437.1	439.8	439.8
137.5°	337.9	356.6	378.1	391.5	399.5	404.9	412.9	423.7	426.3	426.3
140°	329.8	348.6	367.4	378.1	388.8	394.2	399.5	410.3	412.9	412.9
142.5°	321.8	337.9	356.6	367.4	378.1	380.8	388.8	396.8	399.5	399.5
145°	311.0	329.8	345.9	356.6	364.7	367.4	375.4	383.4	383.4	386.1
147.5°	297.6	313.7	335.2	343.2	351.3	353.9	362.0	367.4	370.0	370.0
150°	284.2	300.3	319.1	332.5	340.5	343.2	345.9	353.9	353.9	356.6
152.5°	270.8	284.2	303.0	316.4	327.1	329.8	332.5	337.9	337.9	340.5
155°	257.4	268.1	284.2	297.6	308.4	313.7	319.1	324.4	324.4	327.1
157.5°	246.7	257.4	270.8	281.5	289.6	297.6	305.7	311.0	311.0	311.0
160°	233.3	241.3	254.7	262.8	273.5	278.9	292.3	297.6	297.6	300.3
162.5°	225.2	227.9	236.0	244.0	252.1	257.4	270.8	284.2	284.2	286.9
165°	227.9	225.2	227.9	230.6	236.0	238.6	246.7	265.5	270.8	273.5
167.5°	233.3	225.2	225.2	225.2	230.6	230.6	238.6	249.4	268.1	262.8
170°	233.3	225.2	219.9	219.9	222.6	219.9	225.2	233.3	244.0	254.7
172.5°	236.0	227.9	219.9	209.1	211.8	209.1	203.8	203.8	206.5	241.3
175°	233.3	227.9	217.2	203.8	201.1	193.1	177.0	163.6	155.5	120.7
177.5°	230.6	222.6	214.5	203.8	198.4	190.4	171.6	150.2	128.7	123.3
180°	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9



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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	15.85	17.17	16.47	17.80	18.52	18.48	19.80	19.09	20.43	21.15
	3H	17.25	18.45	17.88	19.10	19.85	20.94	22.14	21.57	22.78	23.54
	4H	17.68	18.82	18.33	19.47	20.24	22.11	23.25	22.76	23.90	24.67
	6H	17.92	18.97	18.58	19.64	20.42	23.29	24.35	23.95	25.01	25.80
	8H	17.96	18.97	18.63	19.66	20.45	23.88	24.89	24.55	25.58	26.37
	12H	17.97	18.94	18.65	19.62	20.44	24.51	25.48	25.19	26.16	26.98
4H	2H	16.75	17.89	17.40	18.54	19.31	18.82	19.96	19.47	20.62	21.38
	3H	18.37	19.34	19.04	20.03	20.82	21.49	22.45	22.15	23.15	23.93
	4H	18.93	19.81	19.61	20.51	21.33	22.80	23.69	23.48	24.38	25.20
	6H	19.27	20.05	19.97	20.77	21.59	24.15	24.93	24.85	25.65	26.48
	8H	19.34	20.07	20.05	20.79	21.63	24.84	25.58	25.55	26.29	27.14
	12H	19.37	20.04	20.10	20.78	21.63	25.60	26.26	26.32	27.00	27.85
8H	4H	19.59	20.32	20.30	21.04	21.88	22.95	23.68	23.65	24.40	25.24
	6H	20.10	20.71	20.83	21.47	22.32	24.44	25.06	25.18	25.82	26.67
	8H	20.25	20.81	21.00	21.57	22.43	25.25	25.81	26.00	26.57	27.43
	12H	20.34	20.83	21.09	21.59	22.50	26.17	26.66	26.91	27.41	28.33
12H	4H	19.76	20.43	20.49	21.17	22.02	22.94	23.60	23.67	24.35	25.19
	6H	20.36	20.92	21.11	21.68	22.54	24.46	25.02	25.21	25.78	26.64
	8H	20.60	21.09	21.34	21.84	22.76	25.32	25.82	26.07	26.57	27.49