

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: P894546

Luminaire Tested: 8TMB-12SL-RND-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-RND-UNV-L935
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

Summary

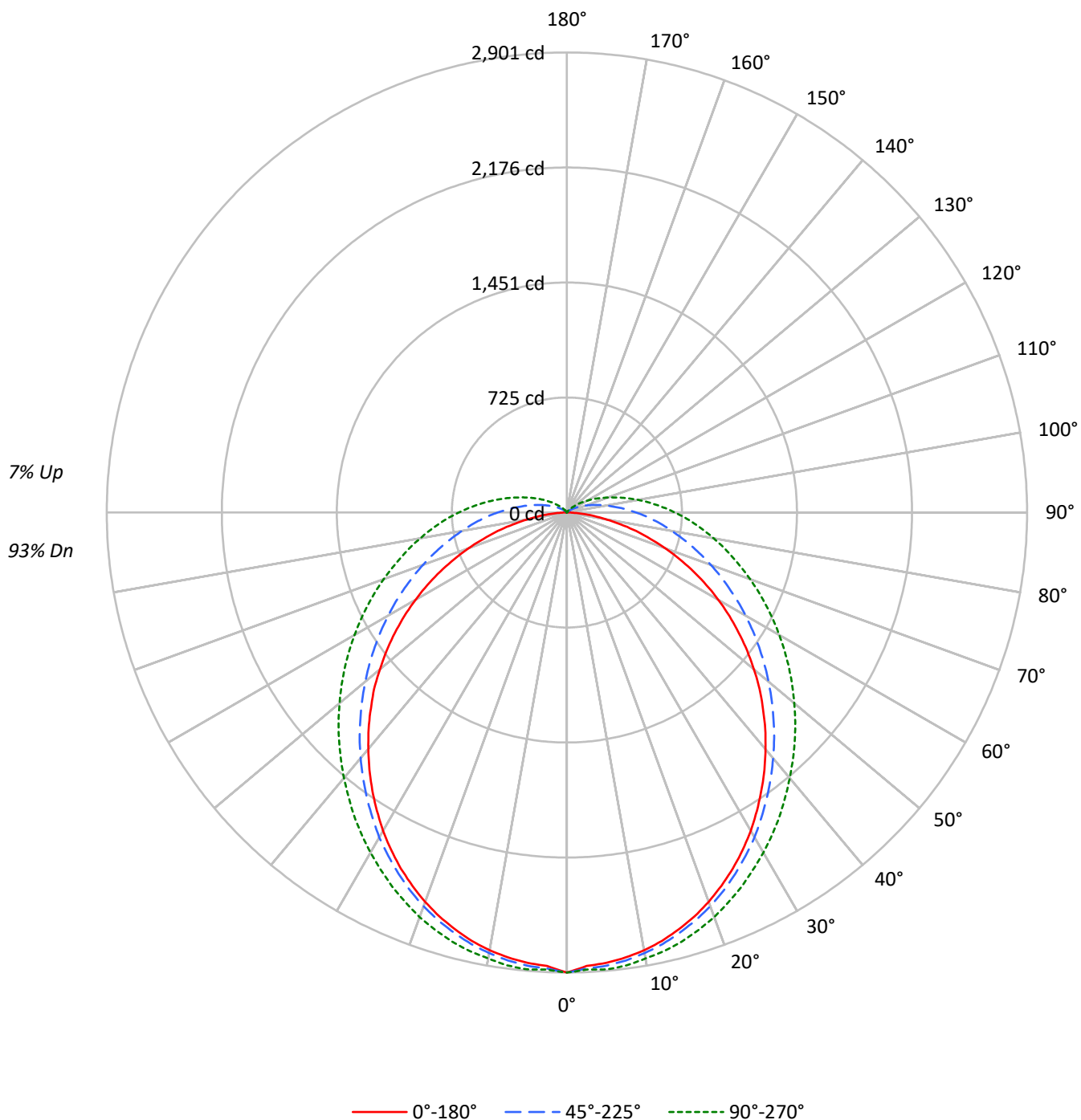
Lumens per Lamp: N/A
Luminaire Lumens: 9604.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: 8TMB-12SL-RND-UNV-L935

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10293	10293	10293
5°	10155	10220	10300
10°	10101	10166	10289
15°	9998	10081	10290
20°	9866	9977	10251
25°	9696	9838	10193
30°	9496	9691	10147
35°	9262	9518	10127
40°	9021	9368	10125
45°	8771	9238	10195
50°	8496	9160	10325
55°	8187	9142	10574
60°	7829	9230	10970
65°	7395	9472	11625
70°	6853	10009	12740
75°	6192	11141	14782
80°	5241	13729	19203
85°	4250	22366	32898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 60568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	2.9
10°-20°	781.7	8.1
20°-30°	1170.5	12.2
30°-40°	1395.7	14.5
40°-50°	1447.5	15.1
50°-60°	1342.9	14.0
60°-70°	1120.3	11.7
70°-80°	835.3	8.7
80°-90°	556.1	5.8
90°-100°	338.6	3.5
100°-110°	189.1	2.0
110°-120°	94.4	1.0
120°-130°	39.5	0.4
130°-140°	12.4	0.1
140°-150°	3.1	0.0
150°-160°	1.4	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	2226.6	23.2
0°-40°	3622.3	37.7
0°-60°	6412.6	66.8
0°-90°	8924.4	92.9
90°-120°	622.1	6.5
90°-150°	677.1	7.1
90°-180°	680.0	7.1
0°-180°	9604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2901	2901	2901	2901	2901	
5°	2851	2917	2869	2885	2892	271
15°	2722	2792	2744	2794	2801	767
25°	2477	2542	2513	2583	2604	1140
35°	2138	2195	2197	2306	2338	1338
45°	1748	1793	1841	1986	2032	1349
55°	1323	1369	1478	1650	1709	1183
65°	881	951	1128	1319	1385	872
75°	452	577	813	1010	1078	478
85°	104	286	549	738	808	117
90°	4	188	436	615	681	8
95°	0	116	336	504	563	0
105°	0	36	184	311	359	0
115°	2	9	86	175	209	2
125°	2	2	34	84	104	2
135°	2	2	9	30	39	2
145°	2	2	2	7	9	1
155°	4	4	2	2	2	2
165°	4	4	2	2	2	1
175°	4	4	4	2	0	0
180°	4	4	4	4	4	

TEST NUMBER: P894546

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1
2.5°	2862.5	2867.1	2907.9	2905.7	2898.8	2926.1	2932.9	2910.2	2873.9	2910.2	2878.4
5°	2851.2	2855.7	2896.6	2894.3	2887.5	2917.0	2919.3	2898.8	2862.5	2898.8	2869.3
7.5°	2830.7	2835.3	2876.1	2873.9	2869.3	2898.8	2896.6	2880.7	2842.1	2880.7	2848.9
10°	2803.5	2805.8	2848.9	2844.4	2842.1	2871.6	2864.8	2851.2	2812.6	2851.2	2821.7
12.5°	2767.2	2769.5	2812.6	2808.0	2808.0	2835.3	2826.2	2814.9	2776.3	2812.6	2787.6
15°	2721.8	2724.1	2764.9	2762.6	2762.6	2792.2	2778.5	2769.5	2733.1	2771.7	2744.5
17.5°	2671.8	2669.6	2712.7	2708.2	2712.7	2739.9	2721.8	2717.2	2683.2	2719.5	2696.8
20°	2612.8	2612.8	2651.4	2649.1	2656.0	2680.9	2658.2	2660.5	2626.4	2665.0	2642.3
22.5°	2547.0	2544.7	2583.3	2583.3	2590.1	2615.1	2590.1	2596.9	2562.9	2599.2	2581.0
25°	2476.6	2472.1	2510.7	2510.7	2522.0	2542.5	2515.2	2524.3	2492.5	2528.8	2512.9
27.5°	2399.4	2392.6	2431.2	2433.5	2442.6	2463.0	2433.5	2447.1	2417.6	2451.6	2440.3
30°	2317.7	2310.9	2349.5	2351.8	2363.1	2379.0	2349.5	2367.7	2340.4	2374.5	2365.4
32.5°	2229.2	2224.6	2261.0	2265.5	2276.9	2288.2	2261.0	2279.1	2256.4	2290.5	2281.4
35°	2138.4	2133.8	2167.9	2174.7	2186.1	2195.1	2165.6	2190.6	2170.2	2201.9	2197.4
37.5°	2045.3	2038.5	2074.8	2079.4	2093.0	2097.5	2070.3	2099.8	2081.6	2113.4	2111.1
40°	1947.7	1940.9	1977.2	1981.7	1995.4	1995.4	1972.7	2004.4	1990.8	2020.3	2022.6
42.5°	1850.1	1843.3	1875.1	1884.1	1895.5	1895.5	1872.8	1906.8	1897.8	1927.3	1934.1
45°	1747.9	1741.1	1770.6	1779.7	1793.3	1793.3	1770.6	1809.2	1802.4	1831.9	1841.0
47.5°	1648.1	1639.0	1666.2	1675.3	1688.9	1686.6	1668.5	1707.1	1704.8	1734.3	1750.2
50°	1539.1	1532.3	1559.5	1568.6	1584.5	1580.0	1566.3	1607.2	1607.2	1636.7	1659.4
52.5°	1432.4	1425.6	1452.8	1461.9	1475.5	1475.5	1461.9	1505.0	1511.8	1541.4	1568.6
55°	1323.4	1314.4	1341.6	1350.7	1366.6	1368.8	1357.5	1400.6	1414.2	1448.3	1477.8
57.5°	1214.5	1209.9	1232.6	1241.7	1262.1	1262.1	1255.3	1300.7	1318.9	1355.2	1389.3
60°	1103.2	1098.7	1119.1	1130.5	1153.2	1157.7	1153.2	1200.9	1225.8	1262.1	1300.7
62.5°	992.0	987.5	1007.9	1023.8	1048.8	1053.3	1055.6	1105.5	1132.8	1171.3	1214.5
65°	880.8	876.2	896.7	914.8	944.3	951.1	958.0	1010.2	1042.0	1082.8	1128.2
67.5°	769.5	767.3	787.7	810.4	842.2	851.3	862.6	917.1	953.4	996.5	1046.5
70°	660.6	658.3	678.7	706.0	744.6	755.9	769.5	824.0	869.4	914.8	964.8
72.5°	551.6	553.9	576.6	608.4	651.5	662.9	681.0	737.8	787.7	835.4	887.6
75°	451.7	451.7	476.7	513.0	560.7	576.6	597.0	656.0	708.3	758.2	812.7
77.5°	349.6	349.6	379.1	424.5	476.7	492.6	517.6	578.9	635.6	685.6	740.0
80°	256.5	261.1	295.1	340.5	395.0	415.4	444.9	506.2	567.5	617.5	671.9
82.5°	174.8	181.6	217.9	270.1	324.6	345.0	374.6	440.4	501.7	553.9	610.6
85°	104.4	115.8	154.4	206.6	263.3	286.0	317.8	379.1	440.4	492.6	549.4
87.5°	47.7	63.6	104.4	156.6	211.1	236.1	263.3	322.3	383.6	435.8	494.9
90°	4.5	27.2	68.1	113.5	165.7	188.4	215.7	272.4	331.4	379.1	435.8
92.5°	0.0	11.4	40.9	81.7	127.1	149.8	174.8	229.3	281.5	329.2	383.6
95°	0.0	4.5	22.7	56.8	95.3	115.8	138.5	188.4	240.6	286.0	336.0
97.5°	0.0	2.3	13.6	38.6	70.4	88.5	109.0	154.4	202.0	245.2	290.6
100°	0.0	2.3	6.8	25.0	52.2	65.8	86.3	124.9	168.0	206.6	252.0
102.5°	0.0	0.0	4.5	15.9	38.6	49.9	65.8	99.9	138.5	174.8	215.7
105°	0.0	0.0	2.3	11.4	27.2	36.3	49.9	79.5	113.5	145.3	183.9
107.5°	0.0	0.0	2.3	6.8	18.2	27.2	38.6	61.3	90.8	120.3	154.4
110°	2.3	2.3	2.3	4.5	13.6	20.4	27.2	47.7	74.9	99.9	129.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.3	2.3	2.3	2.3	9.1	13.6	20.4	36.3	59.0	79.5	106.7
115°	2.3	2.3	2.3	2.3	6.8	9.1	13.6	27.2	45.4	63.6	86.3
117.5°	2.3	2.3	2.3	2.3	4.5	6.8	9.1	20.4	34.1	49.9	70.4
120°	2.3	2.3	2.3	2.3	2.3	4.5	6.8	13.6	27.2	38.6	56.8
122.5°	2.3	2.3	2.3	2.3	2.3	4.5	4.5	11.4	20.4	29.5	43.1
125°	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	13.6	22.7	34.1
127.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	9.1	15.9	25.0
130°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	11.4	18.2
132.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	9.1	13.6
135°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	9.1
137.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	6.8
140°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5
145°	2.3	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	2.3	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
155°	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3
157.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3
160°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3
162.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3
165°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3
167.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3
170°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
172.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3
175°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
177.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1	2901.1
2.5°	2887.5	2894.3	2901.1	2883.0	2894.3	2914.7	2921.5	2894.3	2903.4	2885.2
5°	2878.4	2883.0	2892.0	2869.3	2885.2	2903.4	2914.7	2892.0	2905.7	2892.0
7.5°	2860.3	2864.8	2876.1	2853.4	2873.9	2889.8	2903.4	2880.7	2894.3	2880.7
10°	2833.0	2839.8	2855.7	2828.5	2853.4	2867.1	2880.7	2855.7	2869.3	2855.7
12.5°	2799.0	2810.3	2823.9	2799.0	2823.9	2835.3	2853.4	2828.5	2844.4	2833.0
15°	2758.1	2769.5	2787.6	2762.6	2794.4	2803.5	2821.7	2796.7	2812.6	2801.2
17.5°	2710.4	2724.1	2746.8	2717.2	2753.6	2760.4	2778.5	2755.8	2771.7	2760.4
20°	2656.0	2669.6	2692.3	2665.0	2701.4	2705.9	2726.3	2705.9	2721.8	2715.0
22.5°	2592.4	2608.3	2631.0	2606.0	2644.6	2644.6	2669.6	2649.1	2667.3	2660.5
25°	2526.6	2544.7	2569.7	2542.5	2583.3	2583.3	2610.6	2590.1	2608.3	2603.7
27.5°	2456.2	2476.6	2506.1	2478.9	2519.7	2517.5	2544.7	2526.6	2547.0	2540.2
30°	2381.3	2404.0	2433.5	2410.8	2453.9	2449.4	2476.6	2460.7	2478.9	2476.6
32.5°	2299.6	2324.5	2360.8	2335.9	2379.0	2374.5	2408.5	2390.4	2413.1	2408.5
35°	2217.8	2245.1	2281.4	2258.7	2306.4	2299.6	2333.6	2317.7	2340.4	2338.1
37.5°	2133.8	2163.4	2199.7	2181.5	2226.9	2220.1	2256.4	2242.8	2267.8	2261.0
40°	2047.6	2077.1	2115.7	2099.8	2147.5	2138.4	2177.0	2165.6	2190.6	2186.1
42.5°	1961.3	1993.1	2031.7	2022.6	2068.0	2058.9	2097.5	2088.4	2113.4	2108.9
45°	1872.8	1906.8	1947.7	1938.6	1986.3	1977.2	2015.8	2009.0	2034.0	2031.7
47.5°	1784.3	1820.6	1861.4	1856.9	1902.3	1893.2	1934.1	1927.3	1952.2	1952.2
50°	1693.5	1734.3	1775.2	1772.9	1818.3	1809.2	1845.5	1845.5	1872.8	1870.5
52.5°	1602.7	1645.8	1688.9	1688.9	1734.3	1725.2	1766.1	1763.8	1791.1	1791.1
55°	1516.4	1555.0	1598.1	1607.2	1650.3	1636.7	1679.8	1684.4	1707.1	1709.3
57.5°	1430.1	1471.0	1514.1	1525.5	1566.3	1557.3	1598.1	1602.7	1625.4	1627.6
60°	1343.9	1382.5	1425.6	1441.5	1482.3	1473.3	1514.1	1518.7	1543.6	1545.9
62.5°	1257.6	1296.2	1343.9	1359.8	1398.3	1391.5	1434.7	1439.2	1461.9	1466.4
65°	1173.6	1214.5	1259.9	1282.6	1318.9	1309.8	1352.9	1357.5	1382.5	1384.7
67.5°	1091.9	1132.8	1178.2	1203.1	1237.2	1232.6	1273.5	1282.6	1303.0	1307.5
70°	1012.4	1053.3	1101.0	1125.9	1160.0	1157.7	1196.3	1203.1	1225.8	1228.1
72.5°	935.3	976.1	1023.8	1053.3	1082.8	1080.5	1119.1	1128.2	1150.9	1153.2
75°	860.3	903.5	948.9	980.7	1010.2	1007.9	1046.5	1055.6	1076.0	1078.3
77.5°	790.0	833.1	880.8	912.6	937.5	939.8	973.8	982.9	1003.4	1010.2
80°	724.1	765.0	810.4	844.5	867.2	871.7	903.5	914.8	930.7	939.8
82.5°	660.6	701.4	746.8	778.6	801.3	805.9	835.4	849.0	864.9	871.7
85°	599.3	640.2	683.3	717.3	737.8	740.0	769.5	783.2	796.8	808.1
87.5°	540.3	581.1	622.0	658.3	676.5	681.0	708.3	721.9	733.2	744.6
90°	481.2	522.1	563.0	597.0	615.2	617.5	647.0	660.6	671.9	681.0
92.5°	426.8	467.6	508.5	542.5	558.4	563.0	587.9	603.8	612.9	622.0
95°	374.6	415.4	451.7	488.1	503.9	510.8	533.5	547.1	558.4	563.0
97.5°	329.2	365.5	399.5	435.8	449.5	456.3	479.0	494.9	503.9	508.5
100°	286.0	320.1	351.9	385.9	399.5	406.3	426.8	440.4	449.5	456.3
102.5°	247.4	279.2	308.7	340.5	354.1	358.7	376.8	390.4	399.5	406.3
105°	213.4	242.9	270.1	299.6	311.0	317.8	333.7	345.0	354.1	358.7
107.5°	181.6	211.1	233.8	261.1	272.4	276.9	292.8	306.5	313.3	315.5
110°	154.4	179.3	202.0	224.7	238.4	242.9	256.5	267.9	274.7	276.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	129.4	152.1	172.5	193.0	204.3	208.8	222.5	233.8	238.4	240.6
115°	106.7	129.4	145.3	165.7	174.8	179.3	190.7	202.0	204.3	208.8
117.5°	86.3	106.7	122.6	138.5	147.6	152.1	161.2	170.3	174.8	177.1
120°	70.4	86.3	99.9	115.8	122.6	127.1	136.2	145.3	147.6	149.8
122.5°	56.8	70.4	81.7	95.3	102.2	106.7	113.5	120.3	122.6	124.9
125°	43.1	56.8	65.8	77.2	84.0	86.3	93.1	99.9	102.2	104.4
127.5°	34.1	43.1	52.2	61.3	65.8	68.1	74.9	79.5	81.7	84.0
130°	25.0	31.8	38.6	47.7	52.2	54.5	59.0	63.6	65.8	65.8
132.5°	18.2	25.0	29.5	36.3	38.6	40.9	45.4	49.9	49.9	52.2
135°	11.4	15.9	20.4	25.0	29.5	29.5	34.1	36.3	38.6	38.6
137.5°	9.1	11.4	13.6	18.2	20.4	22.7	22.7	27.2	27.2	27.2
140°	6.8	9.1	9.1	11.4	13.6	15.9	15.9	18.2	18.2	18.2
142.5°	4.5	6.8	6.8	9.1	9.1	11.4	11.4	11.4	13.6	13.6
145°	4.5	4.5	4.5	6.8	6.8	6.8	6.8	9.1	9.1	9.1
147.5°	2.3	2.3	4.5	4.5	4.5	4.5	4.5	6.8	6.8	6.8
150°	2.3	2.3	2.3	2.3	2.3	4.5	4.5	4.5	4.5	4.5
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
170°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
172.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
175°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0
177.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

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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	18.39	19.92	18.86	20.38	20.87	19.96	21.50	20.43	21.95	22.44
	3H	20.06	21.47	20.55	21.93	22.46	22.59	23.99	23.07	24.46	24.98
	4H	20.66	21.99	21.17	22.48	23.02	23.90	25.23	24.40	25.71	26.25
	6H	21.06	22.30	21.58	22.80	23.36	25.30	26.54	25.82	27.04	27.60
	8H	21.18	22.37	21.71	22.89	23.45	26.05	27.24	26.58	27.76	28.32
	12H	21.25	22.39	21.79	22.91	23.50	26.90	28.04	27.44	28.56	29.15
4H	2H	19.32	20.65	19.82	21.13	21.67	20.51	21.84	21.02	22.33	22.87
	3H	21.29	22.43	21.81	22.96	23.52	23.43	24.56	23.94	25.09	25.65
	4H	22.07	23.11	22.61	23.65	24.24	24.95	25.99	25.49	26.53	27.13
	6H	22.65	23.57	23.21	24.14	24.74	26.59	27.51	27.15	28.08	28.69
	8H	22.83	23.70	23.39	24.26	24.89	27.48	28.34	28.04	28.91	29.53
	12H	22.96	23.75	23.54	24.34	24.96	28.48	29.27	29.06	29.86	30.49
8H	4H	22.95	23.82	23.51	24.38	25.00	25.31	26.18	25.87	26.74	27.36
	6H	23.83	24.57	24.42	25.17	25.80	27.21	27.95	27.81	28.56	29.18
	8H	24.18	24.84	24.79	25.46	26.10	28.30	28.96	28.90	29.58	30.22
	12H	24.45	25.05	25.06	25.65	26.36	29.56	30.16	30.17	30.76	31.47
12H	4H	23.23	24.01	23.81	24.61	25.23	25.35	26.14	25.94	26.73	27.36
	6H	24.28	24.95	24.89	25.56	26.20	27.32	27.99	27.93	28.61	29.25
	8H	24.80	25.39	25.41	26.00	26.70	28.52	29.11	29.13	29.72	30.43