

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: P894383

Luminaire Tested: 8TMB-10SL-FLT-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-FLT-UNV-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

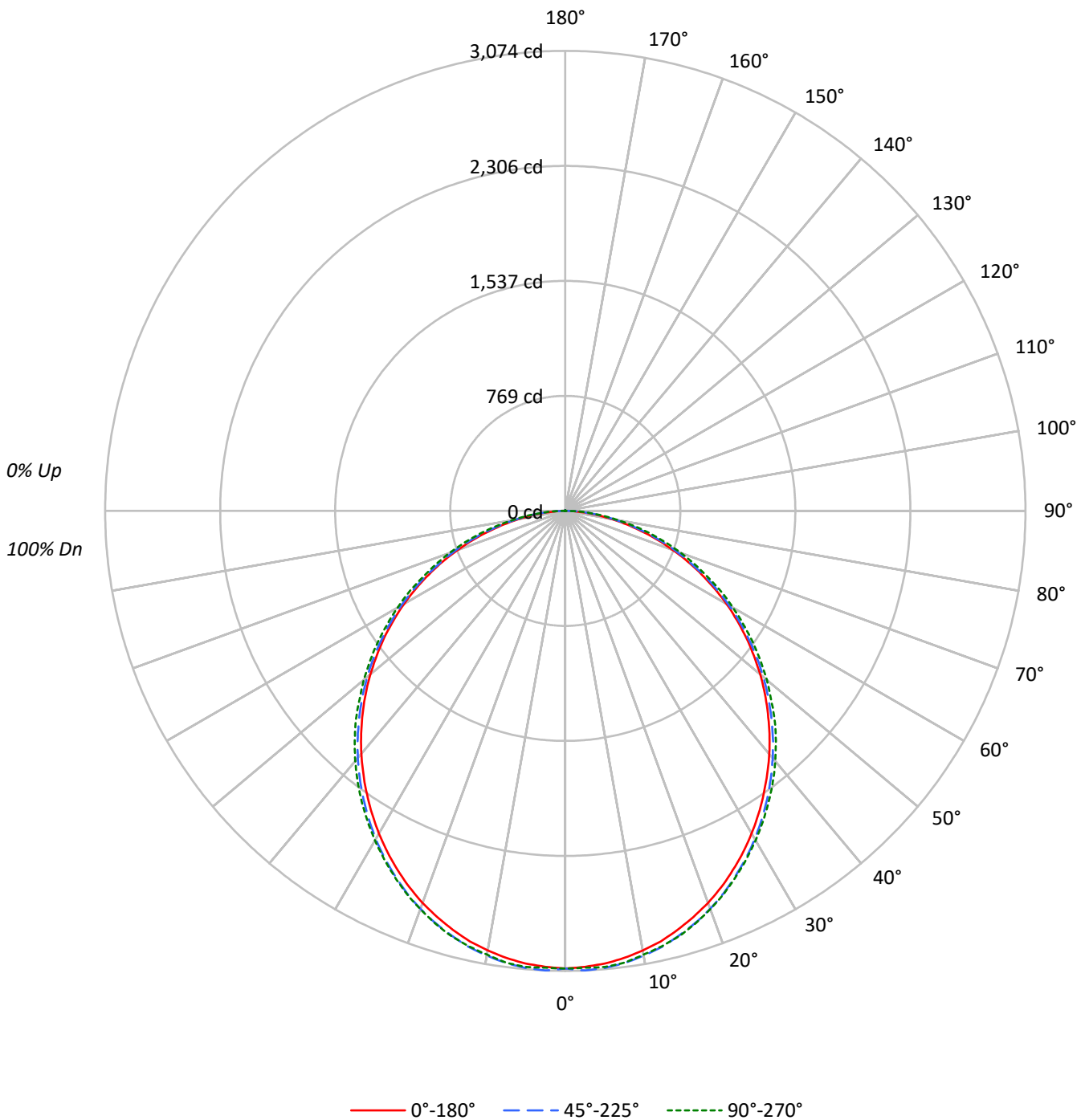
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8488.9 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10851	10851	10851
5°	10812	10916	10892
10°	10743	10873	10849
15°	10649	10789	10806
20°	10524	10685	10693
25°	10368	10535	10561
30°	10199	10374	10420
35°	10007	10182	10269
40°	9819	9986	10110
45°	9605	9762	9930
50°	9379	9527	9701
55°	9126	9265	9458
60°	8833	8976	9183
65°	8439	8608	8834
70°	7942	8175	8546
75°	7304	7611	8102
80°	6451	6953	7319
85°	5561	6379	6835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9930 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	3.4
10°-20°	824.2	9.7
20°-30°	1235.1	14.6
30°-40°	1469.7	17.3
40°-50°	1508.0	17.8
50°-60°	1351.0	15.9
60°-70°	1026.5	12.1
70°-80°	596.6	7.0
80°-90°	179.0	2.1
90°-100°	4.2	0.1
100°-110°	0.7	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.0
130°-140°	0.9	0.0
140°-150°	1.3	0.0
150°-160°	1.0	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	2348.6	27.7
0°-40°	3818.2	45.0
0°-60°	6677.2	78.7
0°-90°	8479.4	99.9
90°-120°	5.0	0.1
90°-150°	7.6	0.1
90°-180°	10.0	0.1
0°-180°	8488.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3058	3058	3058	3058	3058	
5°	3036	3087	3065	3049	3058	288
15°	2899	2955	2937	2933	2942	817
25°	2648	2709	2691	2686	2698	1220
35°	2310	2366	2351	2357	2371	1446
45°	1914	1961	1945	1961	1979	1477
55°	1475	1511	1498	1516	1529	1318
65°	1005	1030	1025	1043	1052	995
75°	533	553	555	575	591	565
85°	137	148	157	168	168	149
90°	2	9	9	16	13	9
95°	0	2	2	4	7	0
105°	0	0	0	2	2	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
135°	0	0	2	0	0	1
145°	2	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	4	4	4	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P894383
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1
2.5°	3049.1	3044.6	3049.1	3046.9	3069.3	3096.1	3091.6	3071.5	3049.1	3055.8	3073.7
5°	3035.7	3033.4	3040.2	3035.7	3058.1	3087.2	3078.2	3060.3	3040.2	3046.9	3064.8
7.5°	3013.3	3013.3	3022.2	3017.8	3037.9	3067.0	3058.1	3042.4	3022.2	3029.0	3046.9
10°	2981.9	2984.2	2995.4	2988.7	3006.6	3037.9	3029.0	3013.3	2995.4	2999.9	3017.8
12.5°	2946.1	2946.1	2959.6	2952.8	2970.8	2999.9	2988.7	2977.5	2959.6	2964.0	2984.2
15°	2899.1	2901.4	2917.0	2910.3	2926.0	2955.1	2943.9	2934.9	2919.3	2921.5	2937.2
17.5°	2845.4	2852.1	2867.8	2861.1	2876.7	2905.8	2892.4	2883.4	2870.0	2872.3	2887.9
20°	2787.2	2793.9	2809.6	2805.1	2816.3	2845.4	2832.0	2827.5	2814.0	2816.3	2829.7
22.5°	2722.3	2729.0	2746.9	2742.4	2753.6	2782.7	2767.0	2764.8	2751.4	2753.6	2764.8
25°	2648.4	2657.3	2677.5	2673.0	2682.0	2708.8	2695.4	2690.9	2682.0	2682.0	2690.9
27.5°	2572.3	2581.2	2603.6	2596.9	2603.6	2632.7	2617.0	2614.8	2605.8	2605.8	2614.8
30°	2489.4	2498.4	2523.0	2516.3	2523.0	2547.6	2532.0	2534.2	2525.3	2525.3	2532.0
32.5°	2402.1	2408.8	2435.7	2431.2	2435.7	2460.3	2444.7	2446.9	2437.9	2440.2	2442.4
35°	2310.3	2317.1	2346.2	2341.7	2343.9	2366.3	2355.1	2355.1	2348.4	2346.2	2350.6
37.5°	2216.3	2223.0	2258.8	2247.7	2247.7	2270.0	2261.1	2261.1	2254.4	2252.1	2254.4
40°	2120.0	2124.5	2162.6	2151.4	2149.2	2169.3	2162.6	2162.6	2158.1	2153.6	2155.9
42.5°	2019.3	2026.0	2064.1	2055.1	2046.2	2068.6	2061.8	2064.1	2057.4	2052.9	2052.9
45°	1914.1	1920.8	1958.9	1954.4	1941.0	1961.1	1954.4	1958.9	1949.9	1945.4	1945.4
47.5°	1808.9	1817.8	1853.6	1846.9	1833.5	1853.6	1846.9	1851.4	1842.4	1838.0	1838.0
50°	1699.2	1708.1	1746.2	1735.0	1721.6	1741.7	1737.2	1739.5	1732.8	1728.3	1726.0
52.5°	1587.2	1598.4	1634.3	1620.8	1609.6	1627.5	1625.3	1627.5	1618.6	1616.3	1614.1
55°	1475.3	1486.5	1520.1	1504.4	1495.5	1511.1	1506.6	1511.1	1502.2	1499.9	1497.7
57.5°	1358.9	1370.1	1401.4	1385.8	1379.0	1392.5	1390.2	1392.5	1385.8	1383.5	1381.3
60°	1244.7	1253.7	1282.8	1267.1	1260.4	1273.8	1269.3	1276.1	1267.1	1267.1	1264.9
62.5°	1123.8	1135.0	1164.1	1146.2	1141.7	1152.9	1148.5	1155.2	1150.7	1146.2	1144.0
65°	1005.2	1011.9	1038.8	1023.1	1016.4	1029.8	1027.6	1032.0	1025.3	1027.6	1025.3
67.5°	886.5	891.0	917.9	900.0	895.5	908.9	911.2	908.9	904.4	906.7	904.4
70°	765.6	770.1	792.5	776.8	774.6	785.8	790.3	788.0	783.5	785.8	788.0
72.5°	649.2	651.5	671.6	658.2	655.9	669.4	669.4	669.4	669.4	669.4	673.8
75°	532.8	535.0	553.0	541.8	539.5	553.0	553.0	553.0	553.0	557.4	555.2
77.5°	420.9	418.6	436.5	429.8	425.4	438.8	438.8	441.0	445.5	450.0	443.3
80°	315.7	313.4	326.9	317.9	317.9	331.3	329.1	331.3	335.8	338.0	340.3
82.5°	221.6	217.2	228.3	226.1	223.9	235.1	237.3	235.1	241.8	244.0	244.0
85°	136.6	136.6	143.3	138.8	138.8	147.8	147.8	150.0	154.5	156.7	156.7
87.5°	64.9	62.7	69.4	67.2	64.9	71.6	71.6	73.9	76.1	78.4	76.1
90°	2.2	2.2	4.5	4.5	4.5	9.0	9.0	9.0	11.2	11.2	9.0
92.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5	4.5
95°	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	2.2
132.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0
135°	0.0	2.2	2.2	2.2	2.2	0.0	2.2	0.0	0.0	0.0	2.2
137.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
140°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
142.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
145°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
147.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
150°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
167.5°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2	2.2
170°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2	2.2
172.5°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2	2.2
175°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2	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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1	3058.1
2.5°	3046.9	3031.2	3024.5	3029.0	3060.3	3029.0	3062.5	3073.7	3033.4	3055.8
5°	3037.9	3022.2	3013.3	3017.8	3049.1	3020.0	3055.8	3069.3	3035.7	3058.1
7.5°	3020.0	3002.1	2997.6	3004.3	3031.2	3006.6	3042.4	3055.8	3022.2	3044.6
10°	2993.1	2977.5	2973.0	2979.7	3004.3	2979.7	3011.1	3022.2	2990.9	3011.1
12.5°	2959.6	2943.9	2939.4	2948.4	2970.8	2948.4	2979.7	2990.9	2959.6	2979.7
15°	2917.0	2901.4	2899.1	2912.5	2932.7	2912.5	2943.9	2952.8	2921.5	2941.7
17.5°	2865.5	2849.9	2852.1	2867.8	2883.4	2865.5	2894.6	2903.6	2874.5	2890.2
20°	2809.6	2791.7	2796.1	2809.6	2823.0	2805.1	2834.2	2843.1	2816.3	2832.0
22.5°	2744.6	2726.7	2731.2	2746.9	2755.8	2740.2	2767.0	2776.0	2753.6	2769.3
25°	2673.0	2657.3	2664.1	2679.7	2686.4	2673.0	2697.6	2704.3	2684.2	2697.6
27.5°	2601.4	2583.5	2592.4	2608.1	2612.6	2599.1	2623.8	2628.2	2608.1	2621.5
30°	2520.8	2502.9	2514.1	2532.0	2532.0	2523.0	2543.2	2547.6	2532.0	2543.2
32.5°	2431.2	2417.8	2431.2	2446.9	2444.7	2437.9	2458.1	2462.6	2449.1	2458.1
35°	2341.7	2330.5	2343.9	2359.6	2357.4	2350.6	2370.8	2373.0	2361.8	2370.8
37.5°	2249.9	2240.9	2254.4	2267.8	2263.3	2258.8	2276.8	2276.8	2270.0	2279.0
40°	2155.9	2146.9	2158.1	2173.8	2164.8	2164.8	2176.0	2180.5	2173.8	2182.7
42.5°	2057.4	2048.4	2061.8	2075.3	2066.3	2064.1	2077.5	2079.8	2075.3	2082.0
45°	1954.4	1945.4	1958.9	1970.1	1961.1	1961.1	1972.3	1972.3	1970.1	1979.0
47.5°	1849.2	1842.4	1853.6	1864.8	1855.9	1862.6	1862.6	1862.6	1867.1	1864.8
50°	1741.7	1735.0	1743.9	1757.4	1746.2	1748.4	1752.9	1752.9	1755.1	1757.4
52.5°	1629.8	1620.8	1629.8	1645.4	1629.8	1636.5	1638.7	1641.0	1647.7	1643.2
55°	1517.8	1508.9	1517.8	1531.3	1515.6	1524.6	1524.6	1526.8	1533.5	1529.0
57.5°	1401.4	1392.5	1405.9	1414.9	1399.2	1408.1	1408.1	1412.6	1417.1	1410.4
60°	1285.0	1278.3	1282.8	1298.4	1282.8	1291.7	1291.7	1291.7	1300.7	1294.0
62.5°	1166.4	1161.9	1166.4	1179.8	1164.1	1173.1	1170.8	1173.1	1182.0	1179.8
65°	1045.5	1041.0	1045.5	1058.9	1043.2	1052.2	1052.2	1054.4	1061.1	1052.2
67.5°	926.8	920.1	926.8	938.0	924.6	931.3	931.3	931.3	942.5	938.0
70°	805.9	801.5	805.9	817.1	805.9	810.4	810.4	810.4	821.6	823.8
72.5°	687.3	687.3	691.8	700.7	691.8	700.7	694.0	689.5	705.2	707.4
75°	570.9	573.1	575.3	584.3	575.3	584.3	579.8	575.3	588.8	591.0
77.5°	463.4	463.4	465.6	472.4	465.6	472.4	467.9	467.9	476.8	474.6
80°	353.7	353.7	356.0	362.7	356.0	362.7	358.2	358.2	367.1	358.2
82.5°	257.5	257.5	257.5	264.2	259.7	264.2	261.9	257.5	268.6	259.7
85°	165.7	167.9	167.9	170.1	167.9	170.1	170.1	167.9	174.6	167.9
87.5°	85.1	85.1	85.1	87.3	85.1	85.1	87.3	85.1	89.5	87.3
90°	15.7	13.4	13.4	17.9	15.7	15.7	17.9	13.4	15.7	13.4
92.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	9.0	9.0
95°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.7
97.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5
100°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
102.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
105°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	2.2	2.2
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.2	2.2	2.2	2.2	0.0	2.2	0.0	0.0	0.0	0.0
140°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
142.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0
145°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
147.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
150°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
167.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
170°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
172.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
175°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
177.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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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	19.79	21.43	20.16	21.74	22.06	19.93	21.56	20.29	21.88	22.20
	3H	21.61	23.09	21.99	23.42	23.79	21.76	23.24	22.14	23.57	23.93
	4H	22.27	23.67	22.67	24.02	24.40	22.47	23.86	22.87	24.21	24.59
	6H	22.73	24.02	23.14	24.39	24.78	23.02	24.32	23.44	24.68	25.08
	8H	22.87	24.10	23.29	24.49	24.90	23.22	24.45	23.64	24.85	25.25
	12H	22.96	24.15	23.39	24.53	24.96	23.36	24.55	23.79	24.93	25.36
4H	2H	20.42	21.82	20.82	22.17	22.55	20.53	21.93	20.93	22.28	22.66
	3H	22.47	23.64	22.88	24.04	24.44	22.60	23.77	23.01	24.17	24.57
	4H	23.26	24.32	23.69	24.74	25.17	23.44	24.51	23.88	24.92	25.36
	6H	23.83	24.76	24.29	25.21	25.66	24.14	25.06	24.59	25.51	25.96
	8H	24.02	24.89	24.49	25.34	25.80	24.38	25.25	24.84	25.69	26.16
	12H	24.17	24.95	24.65	25.43	25.90	24.58	25.36	25.06	25.83	26.31
8H	4H	23.59	24.46	24.05	24.90	25.37	23.75	24.62	24.21	25.07	25.53
	6H	24.29	25.01	24.79	25.50	25.98	24.58	25.30	25.07	25.79	26.27
	8H	24.55	25.20	25.06	25.71	26.20	24.91	25.56	25.42	26.07	26.56
	12H	24.77	25.35	25.28	25.84	26.40	25.19	25.77	25.70	26.26	26.82
12H	4H	23.63	24.41	24.11	24.89	25.36	23.79	24.57	24.27	25.04	25.52
	6H	24.36	25.01	24.87	25.52	26.01	24.64	25.29	25.15	25.79	26.28
	8H	24.69	25.26	25.19	25.75	26.32	25.03	25.61	25.54	26.10	26.66