

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: P894382

Luminaire Tested: 8TMB-10SL-FLT-UNV-L835

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894382  
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-L835  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

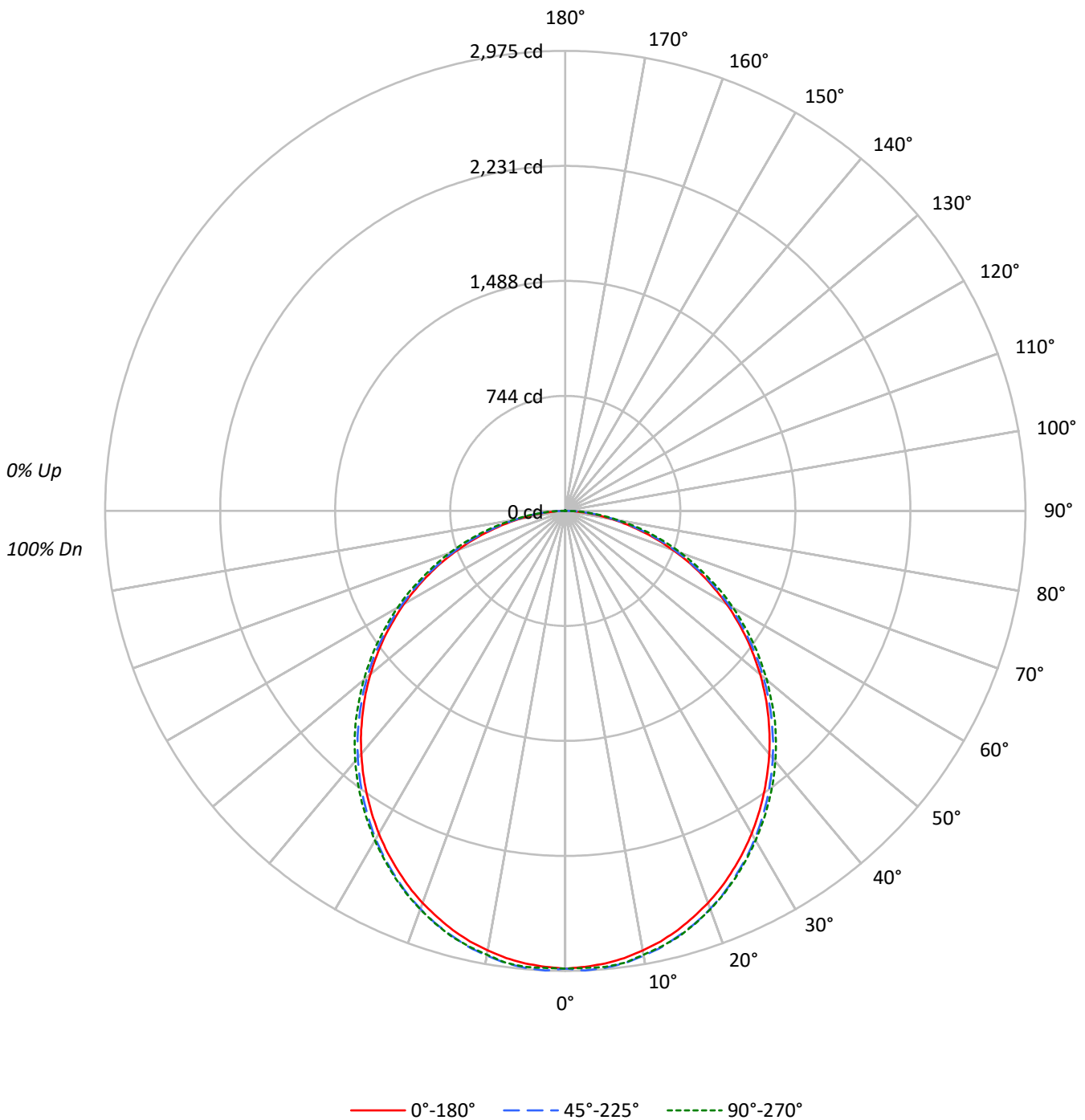
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8217.1 lumens  
Efficiency: N/A  
Efficacy: 117.4 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<sub>in</sub>): 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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CATALOG NUMBER: 8TMB-10SL-FLT-UNV-L835

### 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	100	100	100	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83	83	83	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	58	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50	50	50	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38	38	38	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30	30	30	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24	24	24	24

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

	0°	45°	90°
0°	10503	10503	10503
5°	10466	10566	10543
10°	10399	10524	10501
15°	10308	10444	10459
20°	10187	10342	10350
25°	10036	10197	10223
30°	9873	10041	10086
35°	9686	9855	9940
40°	9505	9666	9786
45°	9297	9449	9612
50°	9079	9222	9390
55°	8834	8968	9155
60°	8550	8688	8888
65°	8169	8333	8551
70°	7688	7913	8272
75°	7070	7367	7843
80°	6242	6731	7084
85°	5382	6176	6615

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9612 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.9	3.4
10°-20°	797.8	9.7
20°-30°	1195.6	14.5
30°-40°	1422.6	17.3
40°-50°	1459.7	17.8
50°-60°	1307.7	15.9
60°-70°	993.6	12.1
70°-80°	577.5	7.0
80°-90°	173.3	2.1
90°-100°	4.1	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°	2273.3	27.7
0°-40°	3695.9	45.0
0°-60°	6463.3	78.7
0°-90°	8207.7	99.9
90°-120°	4.9	0.1
90°-150°	7.4	0.1
90°-180°	9.0	0.1
0°-180°	8217.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2960	2960	2960	2960	2960	
5°	2938	2988	2967	2951	2960	279
15°	2806	2860	2843	2839	2847	791
25°	2564	2622	2605	2600	2611	1181
35°	2236	2290	2275	2282	2295	1399
45°	1853	1898	1883	1898	1916	1430
55°	1428	1463	1450	1467	1480	1276
65°	973	997	992	1010	1018	963
75°	516	535	537	557	572	547
85°	132	143	152	162	162	144
90°	2	9	9	15	13	9
95°	0	2	2	4	6	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1
2.5°	2951.4	2947.1	2951.4	2949.2	2970.9	2996.9	2992.6	2973.1	2951.4	2957.9	2975.2
5°	2938.4	2936.2	2942.7	2938.4	2960.1	2988.2	2979.6	2962.2	2942.7	2949.2	2966.6
7.5°	2916.7	2916.7	2925.4	2921.1	2940.6	2968.7	2960.1	2944.9	2925.4	2931.9	2949.2
10°	2886.4	2888.6	2899.4	2892.9	2910.2	2940.6	2931.9	2916.7	2899.4	2903.7	2921.1
12.5°	2851.7	2851.7	2864.7	2858.2	2875.6	2903.7	2892.9	2882.1	2864.7	2869.1	2888.6
15°	2806.2	2808.4	2823.6	2817.1	2832.2	2860.4	2849.6	2840.9	2825.7	2827.9	2843.1
17.5°	2754.2	2760.7	2775.9	2769.4	2784.6	2812.7	2799.7	2791.1	2778.1	2780.2	2795.4
20°	2697.9	2704.4	2719.5	2715.2	2726.0	2754.2	2741.2	2736.9	2723.9	2726.0	2739.0
22.5°	2635.0	2641.5	2658.9	2654.5	2665.4	2693.5	2678.4	2676.2	2663.2	2665.4	2676.2
25°	2563.5	2572.2	2591.7	2587.4	2596.0	2622.0	2609.0	2604.7	2596.0	2596.0	2604.7
27.5°	2489.8	2498.5	2520.2	2513.7	2520.2	2548.4	2533.2	2531.0	2522.4	2522.4	2531.0
30°	2409.7	2418.3	2442.2	2435.7	2442.2	2466.0	2450.8	2453.0	2444.3	2444.3	2450.8
32.5°	2325.2	2331.7	2357.7	2353.3	2357.7	2381.5	2366.3	2368.5	2359.8	2362.0	2364.2
35°	2236.3	2242.8	2271.0	2266.6	2268.8	2290.5	2279.7	2279.7	2273.1	2271.0	2275.3
37.5°	2145.3	2151.8	2186.5	2175.6	2175.6	2197.3	2188.6	2188.6	2182.1	2180.0	2182.1
40°	2052.1	2056.5	2093.3	2082.5	2080.3	2099.8	2093.3	2093.3	2089.0	2084.6	2086.8
42.5°	1954.6	1961.1	1997.9	1989.3	1980.6	2002.3	1995.8	1997.9	1991.4	1987.1	1987.1
45°	1852.8	1859.3	1896.1	1891.8	1878.8	1898.3	1891.8	1896.1	1887.4	1883.1	1883.1
47.5°	1750.9	1759.6	1794.2	1787.7	1774.7	1794.2	1787.7	1792.1	1783.4	1779.1	1779.1
50°	1644.7	1653.4	1690.2	1679.4	1666.4	1685.9	1681.6	1683.7	1677.2	1672.9	1670.7
52.5°	1536.4	1547.2	1581.9	1568.9	1558.1	1575.4	1573.2	1575.4	1566.7	1564.6	1562.4
55°	1428.0	1438.9	1471.4	1456.2	1447.5	1462.7	1458.4	1462.7	1454.0	1451.9	1449.7
57.5°	1315.3	1326.2	1356.5	1341.4	1334.9	1347.9	1345.7	1347.9	1341.4	1339.2	1337.0
60°	1204.8	1213.5	1241.7	1226.5	1220.0	1233.0	1228.7	1235.2	1226.5	1226.5	1224.3
62.5°	1087.8	1098.7	1126.8	1109.5	1105.2	1116.0	1111.7	1118.2	1113.8	1109.5	1107.3
65°	973.0	979.5	1005.5	990.3	983.8	996.8	994.6	999.0	992.5	994.6	992.5
67.5°	858.1	862.5	888.5	871.1	866.8	879.8	882.0	879.8	875.5	877.6	875.5
70°	741.1	745.4	767.1	751.9	749.8	760.6	764.9	762.8	758.4	760.6	762.8
72.5°	628.4	630.6	650.1	637.1	634.9	647.9	647.9	647.9	647.9	647.9	652.3
75°	515.7	517.9	535.2	524.4	522.2	535.2	535.2	535.2	535.2	539.6	537.4
77.5°	407.4	405.2	422.6	416.1	411.7	424.7	424.7	426.9	431.2	435.6	429.1
80°	305.5	303.4	316.4	307.7	307.7	320.7	318.5	320.7	325.0	327.2	329.4
82.5°	214.5	210.2	221.0	218.9	216.7	227.5	229.7	227.5	234.0	236.2	236.2
85°	132.2	132.2	138.7	134.4	134.4	143.0	143.0	145.2	149.5	151.7	151.7
87.5°	62.8	60.7	67.2	65.0	62.8	69.3	69.3	71.5	73.7	75.8	73.7
90°	2.2	2.2	4.3	4.3	4.3	8.7	8.7	8.7	10.8	10.8	8.7
92.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	4.3	4.3	4.3	4.3
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°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	2.2	2.2
170°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	2.2	2.2
172.5°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	2.2	2.2
175°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2	4.3	4.3
177.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1	2960.1
2.5°	2949.2	2934.1	2927.6	2931.9	2962.2	2931.9	2964.4	2975.2	2936.2	2957.9
5°	2940.6	2925.4	2916.7	2921.1	2951.4	2923.2	2957.9	2970.9	2938.4	2960.1
7.5°	2923.2	2905.9	2901.6	2908.1	2934.1	2910.2	2944.9	2957.9	2925.4	2947.1
10°	2897.2	2882.1	2877.7	2884.2	2908.1	2884.2	2914.6	2925.4	2895.1	2914.6
12.5°	2864.7	2849.6	2845.2	2853.9	2875.6	2853.9	2884.2	2895.1	2864.7	2884.2
15°	2823.6	2808.4	2806.2	2819.2	2838.7	2819.2	2849.6	2858.2	2827.9	2847.4
17.5°	2773.7	2758.6	2760.7	2775.9	2791.1	2773.7	2801.9	2810.6	2782.4	2797.6
20°	2719.5	2702.2	2706.5	2719.5	2732.5	2715.2	2743.4	2752.0	2726.0	2741.2
22.5°	2656.7	2639.4	2643.7	2658.9	2667.5	2652.4	2678.4	2687.0	2665.4	2680.5
25°	2587.4	2572.2	2578.7	2593.9	2600.4	2587.4	2611.2	2617.7	2598.2	2611.2
27.5°	2518.0	2500.7	2509.3	2524.5	2528.9	2515.9	2539.7	2544.0	2524.5	2537.5
30°	2440.0	2422.7	2433.5	2450.8	2450.8	2442.2	2461.7	2466.0	2450.8	2461.7
32.5°	2353.3	2340.3	2353.3	2368.5	2366.3	2359.8	2379.3	2383.7	2370.7	2379.3
35°	2266.6	2255.8	2268.8	2284.0	2281.8	2275.3	2294.8	2297.0	2286.2	2294.8
37.5°	2177.8	2169.1	2182.1	2195.1	2190.8	2186.5	2203.8	2203.8	2197.3	2206.0
40°	2086.8	2078.1	2089.0	2104.1	2095.5	2095.5	2106.3	2110.6	2104.1	2112.8
42.5°	1991.4	1982.8	1995.8	2008.8	2000.1	1997.9	2010.9	2013.1	2008.8	2015.3
45°	1891.8	1883.1	1896.1	1906.9	1898.3	1898.3	1909.1	1909.1	1906.9	1915.6
47.5°	1789.9	1783.4	1794.2	1805.1	1796.4	1802.9	1802.9	1802.9	1807.3	1805.1
50°	1685.9	1679.4	1688.1	1701.1	1690.2	1692.4	1696.7	1696.7	1698.9	1701.1
52.5°	1577.6	1568.9	1577.6	1592.7	1577.6	1584.1	1586.2	1588.4	1594.9	1590.6
55°	1469.2	1460.5	1469.2	1482.2	1467.0	1475.7	1475.7	1477.9	1484.4	1480.0
57.5°	1356.5	1347.9	1360.9	1369.5	1354.4	1363.0	1363.0	1367.4	1371.7	1365.2
60°	1243.8	1237.3	1241.7	1256.8	1241.7	1250.3	1250.3	1250.3	1259.0	1252.5
62.5°	1129.0	1124.7	1129.0	1142.0	1126.8	1135.5	1133.3	1135.5	1144.2	1142.0
65°	1012.0	1007.6	1012.0	1025.0	1009.8	1018.5	1018.5	1020.6	1027.1	1018.5
67.5°	897.1	890.6	897.1	908.0	895.0	901.5	901.5	901.5	912.3	908.0
70°	780.1	775.8	780.1	790.9	780.1	784.4	784.4	784.4	795.3	797.4
72.5°	665.3	665.3	669.6	678.3	669.6	678.3	671.8	667.4	682.6	684.8
75°	552.6	554.7	556.9	565.6	556.9	565.6	561.2	556.9	569.9	572.1
77.5°	448.6	448.6	450.7	457.2	450.7	457.2	452.9	452.9	461.6	459.4
80°	342.4	342.4	344.5	351.0	344.5	351.0	346.7	346.7	355.4	346.7
82.5°	249.2	249.2	249.2	255.7	251.4	255.7	253.5	249.2	260.0	251.4
85°	160.4	162.5	162.5	164.7	162.5	164.7	164.7	162.5	169.0	162.5
87.5°	82.3	82.3	82.3	84.5	82.3	82.3	84.5	82.3	86.7	84.5
90°	15.2	13.0	13.0	17.3	15.2	15.2	17.3	13.0	15.2	13.0
92.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.7	8.7
95°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	6.5
97.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3
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





TEST NUMBER: P894382  
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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



TEST NUMBER: P894382  
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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	19.68	21.31	20.04	21.63	21.95	19.81	21.45	20.18	21.77	22.08
	3H	21.50	22.98	21.88	23.31	23.67	21.65	23.13	22.02	23.46	23.82
	4H	22.16	23.56	22.56	23.91	24.28	22.35	23.75	22.75	24.10	24.48
	6H	22.61	23.91	23.03	24.27	24.67	22.91	24.21	23.32	24.57	24.97
	8H	22.75	23.99	23.18	24.38	24.78	23.11	24.34	23.53	24.73	25.13
	12H	22.85	24.03	23.28	24.42	24.85	23.25	24.43	23.68	24.82	25.25
4H	2H	20.31	21.71	20.71	22.06	22.44	20.42	21.81	20.82	22.16	22.54
	3H	22.35	23.52	22.76	23.92	24.33	22.49	23.66	22.90	24.06	24.46
	4H	23.15	24.21	23.58	24.62	25.06	23.33	24.39	23.76	24.81	25.25
	6H	23.72	24.65	24.18	25.09	25.55	24.02	24.95	24.48	25.39	25.85
	8H	23.91	24.78	24.37	25.22	25.69	24.27	25.14	24.73	25.58	26.05
	12H	24.05	24.84	24.54	25.31	25.78	24.46	25.24	24.94	25.72	26.19
8H	4H	23.47	24.34	23.94	24.79	25.26	23.64	24.51	24.10	24.95	25.42
	6H	24.18	24.90	24.67	25.39	25.87	24.47	25.19	24.96	25.68	26.16
	8H	24.44	25.09	24.95	25.60	26.09	24.80	25.45	25.31	25.95	26.44
	12H	24.66	25.23	25.16	25.72	26.29	25.08	25.65	25.59	26.15	26.71
12H	4H	23.52	24.30	24.00	24.78	25.25	23.67	24.45	24.15	24.93	25.40
	6H	24.25	24.90	24.76	25.41	25.89	24.52	25.17	25.03	25.68	26.17
	8H	24.57	25.15	25.08	25.64	26.20	24.92	25.49	25.42	25.98	26.55