

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: P894432

Luminaire Tested: 8TMB-10SL-RND-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894432
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-10SL-RND-UNV-L850
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

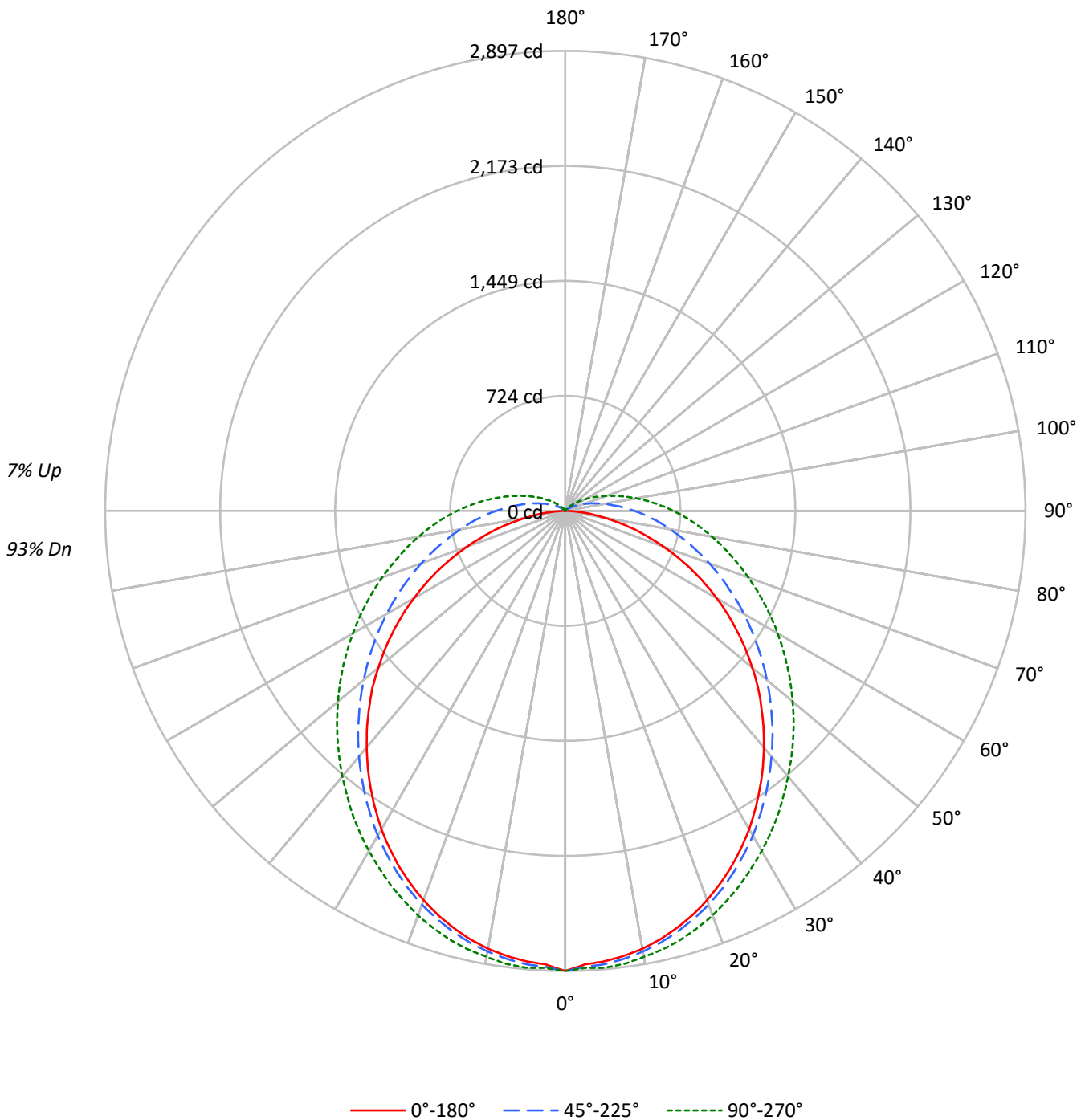
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9590.0 lumens
Efficiency: N/A
Efficacy: 137.0 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): 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

TEST NUMBER: P894432
CATALOG NUMBER: 8TMB-10SL-RND-UNV-L850

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10279	10279	10279
5°	10140	10205	10285
10°	10086	10151	10274
15°	9983	10067	10275
20°	9851	9963	10236
25°	9682	9824	10178
30°	9482	9677	10132
35°	9249	9504	10113
40°	9008	9355	10111
45°	8758	9224	10180
50°	8483	9147	10310
55°	8175	9128	10559
60°	7817	9217	10954
65°	7384	9458	11609
70°	6843	9994	12722
75°	6184	11125	14760
80°	5233	13710	19174
85°	4246	22334	32853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 60479 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	2.9
10°-20°	780.6	8.1
20°-30°	1168.8	12.2
30°-40°	1393.6	14.5
40°-50°	1445.4	15.1
50°-60°	1340.9	14.0
60°-70°	1118.7	11.7
70°-80°	834.1	8.7
80°-90°	555.3	5.8
90°-100°	338.1	3.5
100°-110°	188.8	2.0
110°-120°	94.3	1.0
120°-130°	39.4	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°	2223.4	23.2
0°-40°	3617.0	37.7
0°-60°	6403.3	66.8
0°-90°	8911.4	92.9
90°-120°	621.1	6.5
90°-150°	676.1	7.0
90°-180°	679.0	7.1
0°-180°	9590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2847	2913	2865	2881	2888	270
15°	2718	2788	2740	2790	2797	766
25°	2473	2539	2509	2580	2600	1139
35°	2135	2192	2194	2303	2335	1336
45°	1745	1791	1838	1983	2029	1347
55°	1322	1367	1476	1648	1707	1181
65°	880	950	1127	1317	1383	870
75°	451	576	812	1009	1077	477
85°	104	286	549	737	807	117
90°	4	188	435	614	680	8
95°	0	116	336	503	562	0
105°	0	36	184	310	358	0
115°	2	9	86	174	208	2
125°	2	2	34	84	104	2
135°	2	2	9	30	38	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: P894432
 CATALOG NUMBER: 8TMB-10SL-RND-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9
2.5°	2858.4	2862.9	2903.7	2901.4	2894.6	2921.8	2928.6	2906.0	2869.7	2906.0	2874.2
5°	2847.0	2851.6	2892.4	2890.1	2883.3	2912.8	2915.0	2894.6	2858.4	2894.6	2865.2
7.5°	2826.6	2831.2	2872.0	2869.7	2865.2	2894.6	2892.4	2876.5	2838.0	2876.5	2844.8
10°	2799.4	2801.7	2844.8	2840.2	2838.0	2867.4	2860.6	2847.0	2808.5	2847.0	2817.6
12.5°	2763.2	2765.4	2808.5	2804.0	2804.0	2831.2	2822.1	2810.8	2772.2	2808.5	2783.6
15°	2717.8	2720.1	2760.9	2758.6	2758.6	2788.1	2774.5	2765.4	2729.1	2767.7	2740.5
17.5°	2667.9	2665.7	2708.7	2704.2	2708.7	2735.9	2717.8	2713.3	2679.3	2715.5	2692.9
20°	2609.0	2609.0	2647.5	2645.3	2652.1	2677.0	2654.3	2656.6	2622.6	2661.1	2638.5
22.5°	2543.3	2541.0	2579.5	2579.5	2586.3	2611.3	2586.3	2593.1	2559.1	2595.4	2577.3
25°	2473.0	2468.5	2507.0	2507.0	2518.3	2538.7	2511.5	2520.6	2488.9	2525.1	2509.3
27.5°	2395.9	2389.1	2427.7	2429.9	2439.0	2459.4	2429.9	2443.5	2414.1	2448.1	2436.7
30°	2314.3	2307.5	2346.1	2348.3	2359.7	2375.5	2346.1	2364.2	2337.0	2371.0	2361.9
32.5°	2225.9	2221.4	2257.7	2262.2	2273.5	2284.9	2257.7	2275.8	2253.1	2287.1	2278.1
35°	2135.3	2130.7	2164.7	2171.5	2182.9	2191.9	2162.5	2187.4	2167.0	2198.7	2194.2
37.5°	2042.3	2035.5	2071.8	2076.3	2089.9	2094.5	2067.3	2096.7	2078.6	2110.3	2108.1
40°	1944.9	1938.1	1974.3	1978.9	1992.5	1992.5	1969.8	2001.5	1987.9	2017.4	2019.7
42.5°	1847.4	1840.6	1872.3	1881.4	1892.7	1892.7	1870.1	1904.1	1895.0	1924.5	1931.3
45°	1745.4	1738.6	1768.1	1777.1	1790.7	1790.7	1768.1	1806.6	1799.8	1829.3	1838.3
47.5°	1645.7	1636.6	1663.8	1672.9	1686.5	1684.2	1666.1	1704.6	1702.3	1731.8	1747.7
50°	1536.8	1530.0	1557.2	1566.3	1582.2	1577.6	1564.0	1604.8	1604.8	1634.3	1657.0
52.5°	1430.3	1423.5	1450.7	1459.8	1473.4	1473.4	1459.8	1502.8	1509.6	1539.1	1566.3
55°	1321.5	1312.4	1339.6	1348.7	1364.6	1366.8	1355.5	1398.6	1412.2	1446.2	1475.6
57.5°	1212.7	1208.2	1230.8	1239.9	1260.3	1260.3	1253.5	1298.8	1317.0	1353.2	1387.2
60°	1101.6	1097.1	1117.5	1128.8	1151.5	1156.0	1151.5	1199.1	1224.0	1260.3	1298.8
62.5°	990.6	986.0	1006.4	1022.3	1047.2	1051.8	1054.0	1103.9	1131.1	1169.6	1212.7
65°	879.5	875.0	895.4	913.5	943.0	949.8	956.6	1008.7	1040.4	1081.2	1126.6
67.5°	768.4	766.2	786.6	809.2	841.0	850.0	861.4	915.8	952.0	995.1	1045.0
70°	659.6	657.4	677.8	705.0	743.5	754.8	768.4	822.8	868.2	913.5	963.4
72.5°	550.8	553.1	575.8	607.5	650.6	661.9	680.0	736.7	786.6	834.2	886.3
75°	451.1	451.1	476.0	512.3	559.9	575.8	596.2	655.1	707.2	757.1	811.5
77.5°	349.1	349.1	378.5	423.9	476.0	491.9	516.8	578.0	634.7	684.6	739.0
80°	256.1	260.7	294.7	340.0	394.4	414.8	444.3	505.5	566.7	616.6	671.0
82.5°	174.5	181.3	217.6	269.7	324.1	344.5	374.0	439.7	500.9	553.1	609.8
85°	104.3	115.6	154.1	206.3	262.9	285.6	317.3	378.5	439.7	491.9	548.6
87.5°	47.6	63.5	104.3	156.4	210.8	235.7	262.9	321.9	383.1	435.2	494.1
90°	4.5	27.2	68.0	113.3	165.5	188.1	215.3	272.0	330.9	378.5	435.2
92.5°	0.0	11.3	40.8	81.6	126.9	149.6	174.5	228.9	281.1	328.7	383.1
95°	0.0	4.5	22.7	56.7	95.2	115.6	138.3	188.1	240.3	285.6	335.5
97.5°	0.0	2.3	13.6	38.5	70.3	88.4	108.8	154.1	201.7	244.8	290.1
100°	0.0	2.3	6.8	24.9	52.1	65.7	86.1	124.7	167.7	206.3	251.6
102.5°	0.0	0.0	4.5	15.9	38.5	49.9	65.7	99.7	138.3	174.5	215.3
105°	0.0	0.0	2.3	11.3	27.2	36.3	49.9	79.3	113.3	145.1	183.6
107.5°	0.0	0.0	2.3	6.8	18.1	27.2	38.5	61.2	90.7	120.1	154.1
110°	2.3	2.3	2.3	4.5	13.6	20.4	27.2	47.6	74.8	99.7	129.2



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 CATALOG NUMBER: 8TMB-10SL-RND-UNV-L850

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	58.9	79.3	106.5
115°	2.3	2.3	2.3	2.3	6.8	9.1	13.6	27.2	45.3	63.5	86.1
117.5°	2.3	2.3	2.3	2.3	4.5	6.8	9.1	20.4	34.0	49.9	70.3
120°	2.3	2.3	2.3	2.3	2.3	4.5	6.8	13.6	27.2	38.5	56.7
122.5°	2.3	2.3	2.3	2.3	2.3	4.5	4.5	11.3	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	34.0
127.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	9.1	15.9	24.9
130°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	6.8	11.3	18.1
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°	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9	2896.9
2.5°	2883.3	2890.1	2896.9	2878.8	2890.1	2910.5	2917.3	2890.1	2899.2	2881.0
5°	2874.2	2878.8	2887.8	2865.2	2881.0	2899.2	2910.5	2887.8	2901.4	2887.8
7.5°	2856.1	2860.6	2872.0	2849.3	2869.7	2885.6	2899.2	2876.5	2890.1	2876.5
10°	2828.9	2835.7	2851.6	2824.4	2849.3	2862.9	2876.5	2851.6	2865.2	2851.6
12.5°	2794.9	2806.2	2819.8	2794.9	2819.8	2831.2	2849.3	2824.4	2840.2	2828.9
15°	2754.1	2765.4	2783.6	2758.6	2790.4	2799.4	2817.6	2792.6	2808.5	2797.2
17.5°	2706.5	2720.1	2742.8	2713.3	2749.6	2756.4	2774.5	2751.8	2767.7	2756.4
20°	2652.1	2665.7	2688.3	2661.1	2697.4	2701.9	2722.3	2701.9	2717.8	2711.0
22.5°	2588.6	2604.5	2627.1	2602.2	2640.7	2640.7	2665.7	2645.3	2663.4	2656.6
25°	2522.9	2541.0	2565.9	2538.7	2579.5	2579.5	2606.7	2586.3	2604.5	2599.9
27.5°	2452.6	2473.0	2502.5	2475.3	2516.1	2513.8	2541.0	2522.9	2543.3	2536.5
30°	2377.8	2400.5	2429.9	2407.3	2450.3	2445.8	2473.0	2457.1	2475.3	2473.0
32.5°	2296.2	2321.1	2357.4	2332.5	2375.5	2371.0	2405.0	2386.9	2409.5	2405.0
35°	2214.6	2241.8	2278.1	2255.4	2303.0	2296.2	2330.2	2314.3	2337.0	2334.7
37.5°	2130.7	2160.2	2196.5	2178.3	2223.7	2216.9	2253.1	2239.5	2264.5	2257.7
40°	2044.6	2074.1	2112.6	2096.7	2144.3	2135.3	2173.8	2162.5	2187.4	2182.9
42.5°	1958.5	1990.2	2028.7	2019.7	2065.0	2055.9	2094.5	2085.4	2110.3	2105.8
45°	1870.1	1904.1	1944.9	1935.8	1983.4	1974.3	2012.9	2006.1	2031.0	2028.7
47.5°	1781.7	1817.9	1858.7	1854.2	1899.5	1890.5	1931.3	1924.5	1949.4	1949.4
50°	1691.0	1731.8	1772.6	1770.3	1815.7	1806.6	1842.9	1842.9	1870.1	1867.8
52.5°	1600.3	1643.4	1686.5	1686.5	1731.8	1722.7	1763.5	1761.3	1788.5	1788.5
55°	1514.2	1552.7	1595.8	1604.8	1647.9	1634.3	1677.4	1681.9	1704.6	1706.9
57.5°	1428.0	1468.8	1511.9	1523.2	1564.0	1555.0	1595.8	1600.3	1623.0	1625.2
60°	1341.9	1380.4	1423.5	1439.4	1480.2	1471.1	1511.9	1516.4	1541.4	1543.6
62.5°	1255.8	1294.3	1341.9	1357.8	1396.3	1389.5	1432.6	1437.1	1459.8	1464.3
65°	1171.9	1212.7	1258.0	1280.7	1317.0	1307.9	1351.0	1355.5	1380.4	1382.7
67.5°	1090.3	1131.1	1176.4	1201.4	1235.4	1230.8	1271.6	1280.7	1301.1	1305.6
70°	1011.0	1051.8	1099.4	1124.3	1158.3	1156.0	1194.6	1201.4	1224.0	1226.3
72.5°	933.9	974.7	1022.3	1051.8	1081.2	1079.0	1117.5	1126.6	1149.2	1151.5
75°	859.1	902.2	947.5	979.2	1008.7	1006.4	1045.0	1054.0	1074.4	1076.7
77.5°	788.8	831.9	879.5	911.2	936.2	938.4	972.4	981.5	1001.9	1008.7
80°	723.1	763.9	809.2	843.2	865.9	870.4	902.2	913.5	929.4	938.4
82.5°	659.6	700.4	745.8	777.5	800.2	804.7	834.2	847.8	863.6	870.4
85°	598.4	639.2	682.3	716.3	736.7	739.0	768.4	782.0	795.6	807.0
87.5°	539.5	580.3	621.1	657.4	675.5	680.0	707.2	720.8	732.2	743.5
90°	480.5	521.3	562.2	596.2	614.3	616.6	646.0	659.6	671.0	680.0
92.5°	426.1	466.9	507.7	541.7	557.6	562.2	587.1	603.0	612.0	621.1
95°	374.0	414.8	451.1	487.3	503.2	510.0	532.7	546.3	557.6	562.2
97.5°	328.7	364.9	398.9	435.2	448.8	455.6	478.3	494.1	503.2	507.7
100°	285.6	319.6	351.3	385.3	398.9	405.7	426.1	439.7	448.8	455.6
102.5°	247.1	278.8	308.3	340.0	353.6	358.1	376.3	389.9	398.9	405.7
105°	213.1	242.5	269.7	299.2	310.5	317.3	333.2	344.5	353.6	358.1
107.5°	181.3	210.8	233.5	260.7	272.0	276.5	292.4	306.0	312.8	315.1
110°	154.1	179.1	201.7	224.4	238.0	242.5	256.1	267.5	274.3	276.5



TEST NUMBER: P894432
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	129.2	151.9	172.3	192.7	204.0	208.5	222.1	233.5	238.0	240.3
115°	106.5	129.2	145.1	165.5	174.5	179.1	190.4	201.7	204.0	208.5
117.5°	86.1	106.5	122.4	138.3	147.3	151.9	160.9	170.0	174.5	176.8
120°	70.3	86.1	99.7	115.6	122.4	126.9	136.0	145.1	147.3	149.6
122.5°	56.7	70.3	81.6	95.2	102.0	106.5	113.3	120.1	122.4	124.7
125°	43.1	56.7	65.7	77.1	83.9	86.1	92.9	99.7	102.0	104.3
127.5°	34.0	43.1	52.1	61.2	65.7	68.0	74.8	79.3	81.6	83.9
130°	24.9	31.7	38.5	47.6	52.1	54.4	58.9	63.5	65.7	65.7
132.5°	18.1	24.9	29.5	36.3	38.5	40.8	45.3	49.9	49.9	52.1
135°	11.3	15.9	20.4	24.9	29.5	29.5	34.0	36.3	38.5	38.5
137.5°	9.1	11.3	13.6	18.1	20.4	22.7	22.7	27.2	27.2	27.2
140°	6.8	9.1	9.1	11.3	13.6	15.9	15.9	18.1	18.1	18.1
142.5°	4.5	6.8	6.8	9.1	9.1	11.3	11.3	11.3	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



TEST NUMBER: P894432
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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	18.38	19.92	18.85	20.38	20.86	19.95	21.49	20.42	21.95	22.43
	3H	20.06	21.46	20.54	21.93	22.46	22.58	23.98	23.06	24.45	24.98
	4H	20.66	21.99	21.16	22.47	23.01	23.89	25.22	24.39	25.71	26.25
	6H	21.06	22.30	21.57	22.79	23.35	25.30	26.54	25.81	27.03	27.59
	8H	21.17	22.36	21.70	22.88	23.44	26.04	27.23	26.57	27.75	28.32
	12H	21.25	22.39	21.78	22.90	23.50	26.90	28.04	27.43	28.55	29.14
4H	2H	19.31	20.64	19.82	21.13	21.67	20.51	21.84	21.01	22.32	22.86
	3H	21.29	22.43	21.81	22.95	23.52	23.42	24.56	23.94	25.09	25.65
	4H	22.07	23.11	22.60	23.64	24.24	24.95	25.99	25.48	26.53	27.12
	6H	22.65	23.57	23.20	24.13	24.74	26.59	27.51	27.15	28.07	28.68
	8H	22.83	23.69	23.39	24.26	24.88	27.47	28.34	28.03	28.90	29.52
	12H	22.95	23.74	23.54	24.33	24.96	28.47	29.26	29.06	29.85	30.48
8H	4H	22.94	23.81	23.51	24.38	25.00	25.31	26.17	25.87	26.74	27.36
	6H	23.83	24.56	24.42	25.17	25.80	27.21	27.95	27.80	28.55	29.18
	8H	24.17	24.84	24.78	25.46	26.10	28.29	28.96	28.90	29.57	30.21
	12H	24.45	25.04	25.05	25.65	26.35	29.56	30.15	30.16	30.76	31.46
12H	4H	23.22	24.01	23.81	24.60	25.23	25.35	26.14	25.93	26.73	27.36
	6H	24.28	24.94	24.88	25.56	26.20	27.32	27.98	27.92	28.60	29.24
	8H	24.79	25.39	25.40	25.99	26.70	28.51	29.11	29.12	29.71	30.42