

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: P894547

Luminaire Tested: 8TMB-12SL-RND-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894547
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-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

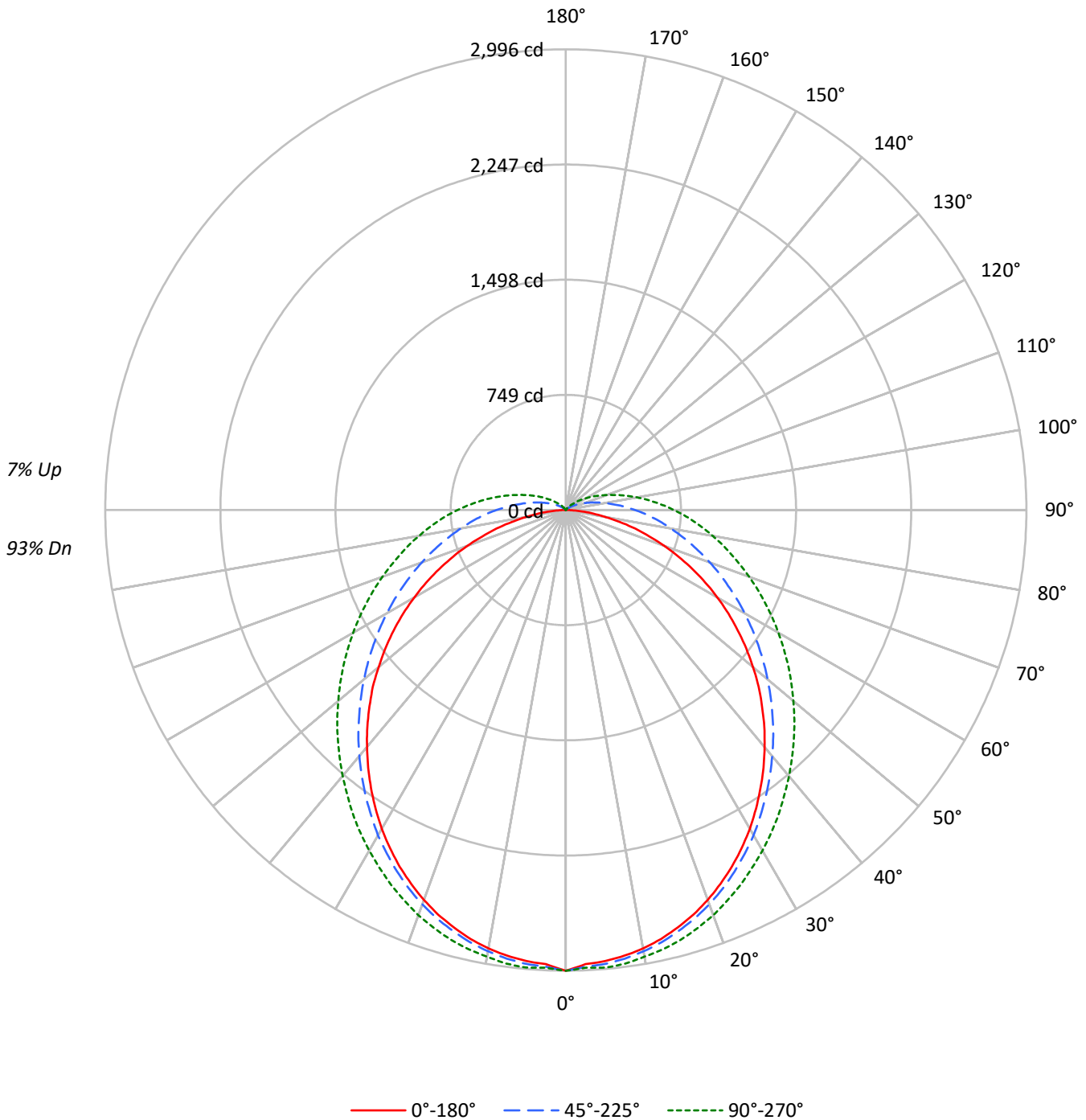
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9918.9 lumens
Efficiency: N/A
Efficacy: 111.7 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 (Ain): 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	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°	10631	10631	10631
5°	10488	10555	10638
10°	10432	10499	10626
15°	10326	10412	10627
20°	10189	10304	10587
25°	10014	10161	10528
30°	9807	10009	10479
35°	9566	9830	10460
40°	9317	9675	10458
45°	9059	9541	10529
50°	8774	9460	10664
55°	8455	9442	10921
60°	8085	9533	11330
65°	7637	9783	12007
70°	7077	10337	13158
75°	6397	11506	15266
80°	5413	14180	19832
85°	4389	23099	33977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 62553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	2.9
10°-20°	807.3	8.1
20°-30°	1208.9	12.2
30°-40°	1441.4	14.5
40°-50°	1495.0	15.1
50°-60°	1386.9	14.0
60°-70°	1157.0	11.7
70°-80°	862.7	8.7
80°-90°	574.4	5.8
90°-100°	349.7	3.5
100°-110°	195.2	2.0
110°-120°	97.5	1.0
120°-130°	40.8	0.4
130°-140°	12.8	0.1
140°-150°	3.2	0.0
150°-160°	1.4	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	2299.6	23.2
0°-40°	3741.1	37.7
0°-60°	6623.0	66.8
0°-90°	9217.0	92.9
90°-120°	642.5	6.5
90°-150°	699.2	7.0
90°-180°	702.0	7.1
0°-180°	9918.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2996	2996	2996	2996	2996	
5°	2945	3013	2963	2980	2987	280
15°	2811	2884	2834	2886	2893	793
25°	2558	2626	2595	2668	2689	1178
35°	2208	2267	2270	2382	2415	1381
45°	1805	1852	1901	2051	2098	1393
55°	1367	1414	1526	1704	1765	1222
65°	910	982	1165	1362	1430	900
75°	467	596	839	1043	1114	493
85°	108	295	567	762	835	121
90°	5	195	450	635	703	8
95°	0	120	347	520	581	0
105°	0	38	190	321	370	0
115°	2	9	89	180	216	2
125°	2	2	35	87	108	2
135°	2	2	9	30	40	2
145°	2	2	2	7	9	1
155°	5	5	2	2	2	2
165°	5	5	2	2	2	1
175°	5	5	5	2	0	0
180°	5	5	5	5	5	



TEST NUMBER: P894547
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3
2.5°	2956.4	2961.1	3003.3	3001.0	2993.9	3022.1	3029.1	3005.6	2968.1	3005.6	2972.8
5°	2944.7	2949.4	2991.6	2989.2	2982.2	3012.7	3015.0	2993.9	2956.4	2993.9	2963.4
7.5°	2923.6	2928.3	2970.5	2968.1	2963.4	2993.9	2991.6	2975.2	2935.3	2975.2	2942.3
10°	2895.5	2897.8	2942.3	2937.7	2935.3	2965.8	2958.8	2944.7	2904.8	2944.7	2914.2
12.5°	2857.9	2860.3	2904.8	2900.1	2900.1	2928.3	2918.9	2907.2	2867.3	2904.8	2879.0
15°	2811.1	2813.4	2855.6	2853.3	2853.3	2883.7	2869.7	2860.3	2822.8	2862.6	2834.5
17.5°	2759.5	2757.1	2801.7	2797.0	2801.7	2829.8	2811.1	2806.4	2771.2	2808.7	2785.3
20°	2698.5	2698.5	2738.4	2736.0	2743.1	2768.9	2745.4	2747.8	2712.6	2752.4	2729.0
22.5°	2630.5	2628.2	2668.0	2668.0	2675.1	2700.9	2675.1	2682.1	2646.9	2684.5	2665.7
25°	2557.8	2553.2	2593.0	2593.0	2604.7	2625.8	2597.7	2607.1	2574.3	2611.8	2595.4
27.5°	2478.1	2471.1	2511.0	2513.3	2522.7	2543.8	2513.3	2527.4	2496.9	2532.1	2520.3
30°	2393.7	2386.7	2426.6	2428.9	2440.6	2457.0	2426.6	2445.3	2417.2	2452.3	2443.0
32.5°	2302.3	2297.6	2335.1	2339.8	2351.5	2363.3	2335.1	2353.9	2330.4	2365.6	2356.2
35°	2208.5	2203.8	2239.0	2246.0	2257.8	2267.1	2236.7	2262.4	2241.3	2274.2	2269.5
37.5°	2112.4	2105.4	2142.9	2147.6	2161.6	2166.3	2138.2	2168.7	2149.9	2182.7	2180.4
40°	2011.6	2004.5	2042.1	2046.7	2060.8	2060.8	2037.4	2070.2	2056.1	2086.6	2088.9
42.5°	1910.8	1903.7	1936.6	1945.9	1957.7	1957.7	1934.2	1969.4	1960.0	1990.5	1997.5
45°	1805.3	1798.2	1828.7	1838.1	1852.2	1852.2	1828.7	1868.6	1861.5	1892.0	1901.4
47.5°	1702.1	1692.7	1720.9	1730.2	1744.3	1742.0	1723.2	1763.1	1760.7	1791.2	1807.6
50°	1589.6	1582.5	1610.7	1620.0	1636.5	1631.8	1617.7	1659.9	1659.9	1690.4	1713.8
52.5°	1479.4	1472.3	1500.5	1509.9	1523.9	1523.9	1509.9	1554.4	1561.4	1591.9	1620.0
55°	1366.8	1357.5	1385.6	1395.0	1411.4	1413.7	1402.0	1446.6	1460.6	1495.8	1526.3
57.5°	1254.3	1249.6	1273.1	1282.4	1303.5	1303.5	1296.5	1343.4	1362.2	1399.7	1434.8
60°	1139.4	1134.7	1155.8	1167.6	1191.0	1195.7	1191.0	1240.2	1266.0	1303.5	1343.4
62.5°	1024.5	1019.9	1041.0	1057.4	1083.2	1087.8	1090.2	1141.8	1169.9	1209.8	1254.3
65°	909.7	905.0	926.1	944.8	975.3	982.3	989.4	1043.3	1076.1	1118.3	1165.2
67.5°	794.8	792.4	813.5	837.0	869.8	879.2	890.9	947.2	984.7	1029.2	1080.8
70°	682.2	679.9	701.0	729.1	769.0	780.7	794.8	851.1	897.9	944.8	996.4
72.5°	569.7	572.1	595.5	628.3	672.9	684.6	703.3	762.0	813.5	862.8	916.7
75°	466.6	466.6	492.3	529.9	579.1	595.5	616.6	677.6	731.5	783.1	839.3
77.5°	361.1	361.1	391.5	438.4	492.3	508.8	534.5	597.8	656.5	708.0	764.3
80°	264.9	269.6	304.8	351.7	407.9	429.0	459.5	522.8	586.1	637.7	694.0
82.5°	180.5	187.6	225.1	279.0	335.3	356.4	386.8	454.8	518.1	572.1	630.7
85°	107.8	119.6	159.4	213.3	272.0	295.4	328.2	391.5	454.8	508.8	567.4
87.5°	49.2	65.6	107.8	161.8	218.0	243.8	272.0	332.9	396.2	450.1	511.1
90°	4.7	28.1	70.3	117.2	171.1	194.6	222.7	281.3	342.3	391.5	450.1
92.5°	0.0	11.7	42.2	84.4	131.3	154.7	180.5	236.8	290.7	340.0	396.2
95°	0.0	4.7	23.4	58.6	98.5	119.6	143.0	194.6	248.5	295.4	347.0
97.5°	0.0	2.3	14.1	39.9	72.7	91.4	112.5	159.4	208.7	253.2	300.1
100°	0.0	2.3	7.0	25.8	53.9	68.0	89.1	128.9	173.5	213.3	260.2
102.5°	0.0	0.0	4.7	16.4	39.9	51.6	68.0	103.2	143.0	180.5	222.7
105°	0.0	0.0	2.3	11.7	28.1	37.5	51.6	82.1	117.2	150.0	189.9
107.5°	0.0	0.0	2.3	7.0	18.8	28.1	39.9	63.3	93.8	124.3	159.4
110°	2.3	2.3	2.3	4.7	14.1	21.1	28.1	49.2	77.4	103.2	133.6



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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	9.4	14.1	21.1	37.5	61.0	82.1	110.2
115°	2.3	2.3	2.3	2.3	7.0	9.4	14.1	28.1	46.9	65.6	89.1
117.5°	2.3	2.3	2.3	2.3	4.7	7.0	9.4	21.1	35.2	51.6	72.7
120°	2.3	2.3	2.3	2.3	2.3	4.7	7.0	14.1	28.1	39.9	58.6
122.5°	2.3	2.3	2.3	2.3	2.3	4.7	4.7	11.7	21.1	30.5	44.5
125°	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	14.1	23.4	35.2
127.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	9.4	16.4	25.8
130°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	11.7	18.8
132.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	9.4	14.1
135°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	9.4
137.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	4.7	7.0
140°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	4.7
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7
145°	2.3	4.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	2.3	4.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	4.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	2.3
155°	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3
157.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3
160°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3
162.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3
165°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3
167.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3
170°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
172.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3
175°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
177.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
180°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3	2996.3
2.5°	2982.2	2989.2	2996.3	2977.5	2989.2	3010.3	3017.4	2989.2	2998.6	2979.9
5°	2972.8	2977.5	2986.9	2963.4	2979.9	2998.6	3010.3	2986.9	3001.0	2986.9
7.5°	2954.1	2958.8	2970.5	2947.0	2968.1	2984.5	2998.6	2975.2	2989.2	2975.2
10°	2925.9	2933.0	2949.4	2921.2	2947.0	2961.1	2975.2	2949.4	2963.4	2949.4
12.5°	2890.8	2902.5	2916.6	2890.8	2916.6	2928.3	2947.0	2921.2	2937.7	2925.9
15°	2848.6	2860.3	2879.0	2853.3	2886.1	2895.5	2914.2	2888.4	2904.8	2893.1
17.5°	2799.3	2813.4	2836.8	2806.4	2843.9	2850.9	2869.7	2846.2	2862.6	2850.9
20°	2743.1	2757.1	2780.6	2752.4	2790.0	2794.6	2815.7	2794.6	2811.1	2804.0
22.5°	2677.4	2693.8	2717.3	2691.5	2731.3	2731.3	2757.1	2736.0	2754.8	2747.8
25°	2609.4	2628.2	2654.0	2625.8	2668.0	2668.0	2696.2	2675.1	2693.8	2689.1
27.5°	2536.7	2557.8	2588.3	2560.2	2602.4	2600.0	2628.2	2609.4	2630.5	2623.5
30°	2459.4	2482.8	2513.3	2489.9	2534.4	2529.7	2557.8	2541.4	2560.2	2557.8
32.5°	2375.0	2400.8	2438.3	2412.5	2457.0	2452.3	2487.5	2468.8	2492.2	2487.5
35°	2290.6	2318.7	2356.2	2332.8	2382.0	2375.0	2410.1	2393.7	2417.2	2414.8
37.5°	2203.8	2234.3	2271.8	2253.1	2300.0	2292.9	2330.4	2316.4	2342.2	2335.1
40°	2114.7	2145.2	2185.1	2168.7	2217.9	2208.5	2248.4	2236.7	2262.4	2257.8
42.5°	2025.6	2058.5	2098.3	2088.9	2135.8	2126.5	2166.3	2156.9	2182.7	2178.0
45°	1934.2	1969.4	2011.6	2002.2	2051.4	2042.1	2081.9	2074.9	2100.7	2098.3
47.5°	1842.8	1880.3	1922.5	1917.8	1964.7	1955.3	1997.5	1990.5	2016.3	2016.3
50°	1749.0	1791.2	1833.4	1831.1	1877.9	1868.6	1906.1	1906.1	1934.2	1931.9
52.5°	1655.2	1699.8	1744.3	1744.3	1791.2	1781.8	1824.0	1821.7	1849.8	1849.8
55°	1566.1	1606.0	1650.5	1659.9	1704.5	1690.4	1734.9	1739.6	1763.1	1765.4
57.5°	1477.0	1519.2	1563.8	1575.5	1617.7	1608.3	1650.5	1655.2	1678.7	1681.0
60°	1387.9	1427.8	1472.3	1488.8	1531.0	1521.6	1563.8	1568.5	1594.3	1596.6
62.5°	1298.9	1338.7	1387.9	1404.4	1444.2	1437.2	1481.7	1486.4	1509.9	1514.5
65°	1212.1	1254.3	1301.2	1324.6	1362.2	1352.8	1397.3	1402.0	1427.8	1430.1
67.5°	1127.7	1169.9	1216.8	1242.6	1277.8	1273.1	1315.3	1324.6	1345.7	1350.4
70°	1045.6	1087.8	1137.1	1162.9	1198.0	1195.7	1235.6	1242.6	1266.0	1268.4
72.5°	965.9	1008.1	1057.4	1087.8	1118.3	1116.0	1155.8	1165.2	1188.7	1191.0
75°	888.6	933.1	980.0	1012.8	1043.3	1041.0	1080.8	1090.2	1111.3	1113.6
77.5°	815.9	860.4	909.7	942.5	968.3	970.6	1005.8	1015.2	1036.3	1043.3
80°	747.9	790.1	837.0	872.2	895.6	900.3	933.1	944.8	961.2	970.6
82.5°	682.2	724.5	771.3	804.2	827.6	832.3	862.8	876.8	893.3	900.3
85°	618.9	661.1	705.7	740.9	762.0	764.3	794.8	808.9	822.9	834.6
87.5°	558.0	600.2	642.4	679.9	698.7	703.3	731.5	745.6	757.3	769.0
90°	497.0	539.2	581.4	616.6	635.4	637.7	668.2	682.2	694.0	703.3
92.5°	440.8	483.0	525.2	560.3	576.7	581.4	607.2	623.6	633.0	642.4
95°	386.8	429.0	466.6	504.1	520.5	527.5	551.0	565.0	576.7	581.4
97.5°	340.0	377.5	412.6	450.1	464.2	471.2	494.7	511.1	520.5	525.2
100°	295.4	330.6	363.4	398.6	412.6	419.7	440.8	454.8	464.2	471.2
102.5°	255.6	288.4	318.9	351.7	365.7	370.4	389.2	403.3	412.6	419.7
105°	220.4	250.9	279.0	309.5	321.2	328.2	344.6	356.4	365.7	370.4
107.5°	187.6	218.0	241.5	269.6	281.3	286.0	302.4	316.5	323.5	325.9
110°	159.4	185.2	208.7	232.1	246.2	250.9	264.9	276.7	283.7	286.0



TEST NUMBER: P894547
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	133.6	157.1	178.2	199.3	211.0	215.7	229.8	241.5	246.2	248.5
115°	110.2	133.6	150.0	171.1	180.5	185.2	196.9	208.7	211.0	215.7
117.5°	89.1	110.2	126.6	143.0	152.4	157.1	166.5	175.8	180.5	182.9
120°	72.7	89.1	103.2	119.6	126.6	131.3	140.7	150.0	152.4	154.7
122.5°	58.6	72.7	84.4	98.5	105.5	110.2	117.2	124.3	126.6	128.9
125°	44.5	58.6	68.0	79.7	86.7	89.1	96.1	103.2	105.5	107.8
127.5°	35.2	44.5	53.9	63.3	68.0	70.3	77.4	82.1	84.4	86.7
130°	25.8	32.8	39.9	49.2	53.9	56.3	61.0	65.6	68.0	68.0
132.5°	18.8	25.8	30.5	37.5	39.9	42.2	46.9	51.6	51.6	53.9
135°	11.7	16.4	21.1	25.8	30.5	30.5	35.2	37.5	39.9	39.9
137.5°	9.4	11.7	14.1	18.8	21.1	23.4	23.4	28.1	28.1	28.1
140°	7.0	9.4	9.4	11.7	14.1	16.4	16.4	18.8	18.8	18.8
142.5°	4.7	7.0	7.0	9.4	9.4	11.7	11.7	11.7	14.1	14.1
145°	4.7	4.7	4.7	7.0	7.0	7.0	7.0	9.4	9.4	9.4
147.5°	2.3	2.3	4.7	4.7	4.7	4.7	4.7	7.0	7.0	7.0
150°	2.3	2.3	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



TEST NUMBER: P894547
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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	18.50	20.04	18.97	20.49	20.98	20.07	21.61	20.54	22.06	22.55
	3H	20.18	21.58	20.66	22.05	22.57	22.70	24.10	23.18	24.57	25.09
	4H	20.77	22.11	21.28	22.59	23.13	24.01	25.34	24.51	25.82	26.36
	6H	21.17	22.41	21.69	22.91	23.47	25.41	26.65	25.93	27.15	27.71
	8H	21.29	22.48	21.82	23.00	23.56	26.16	27.35	26.69	27.87	28.43
	12H	21.37	22.51	21.90	23.02	23.61	27.01	28.15	27.55	28.67	29.26
4H	2H	19.43	20.76	19.93	21.24	21.78	20.62	21.95	21.13	22.44	22.98
	3H	21.41	22.54	21.92	23.07	23.63	23.54	24.67	24.06	25.20	25.77
	4H	22.18	23.22	22.72	23.76	24.36	25.06	26.10	25.60	26.64	27.24
	6H	22.76	23.68	23.32	24.25	24.86	26.71	27.63	27.26	28.19	28.80
	8H	22.95	23.81	23.51	24.38	25.00	27.59	28.45	28.15	29.02	29.64
	12H	23.07	23.86	23.65	24.45	25.08	28.59	29.38	29.17	29.97	30.60
8H	4H	23.06	23.93	23.62	24.49	25.11	25.42	26.29	25.99	26.86	27.48
	6H	23.94	24.68	24.54	25.29	25.91	27.33	28.06	27.92	28.67	29.30
	8H	24.29	24.96	24.90	25.57	26.21	28.41	29.07	29.01	29.69	30.33
	12H	24.56	25.16	25.17	25.76	26.47	29.67	30.27	30.28	30.87	31.58
12H	4H	23.34	24.13	23.92	24.72	25.35	25.47	26.25	26.05	26.85	27.47
	6H	24.39	25.06	25.00	25.68	26.32	27.44	28.10	28.04	28.72	29.36
	8H	24.91	25.51	25.52	26.11	26.82	28.63	29.23	29.24	29.83	30.54