

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: P894384

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894384
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-L850
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

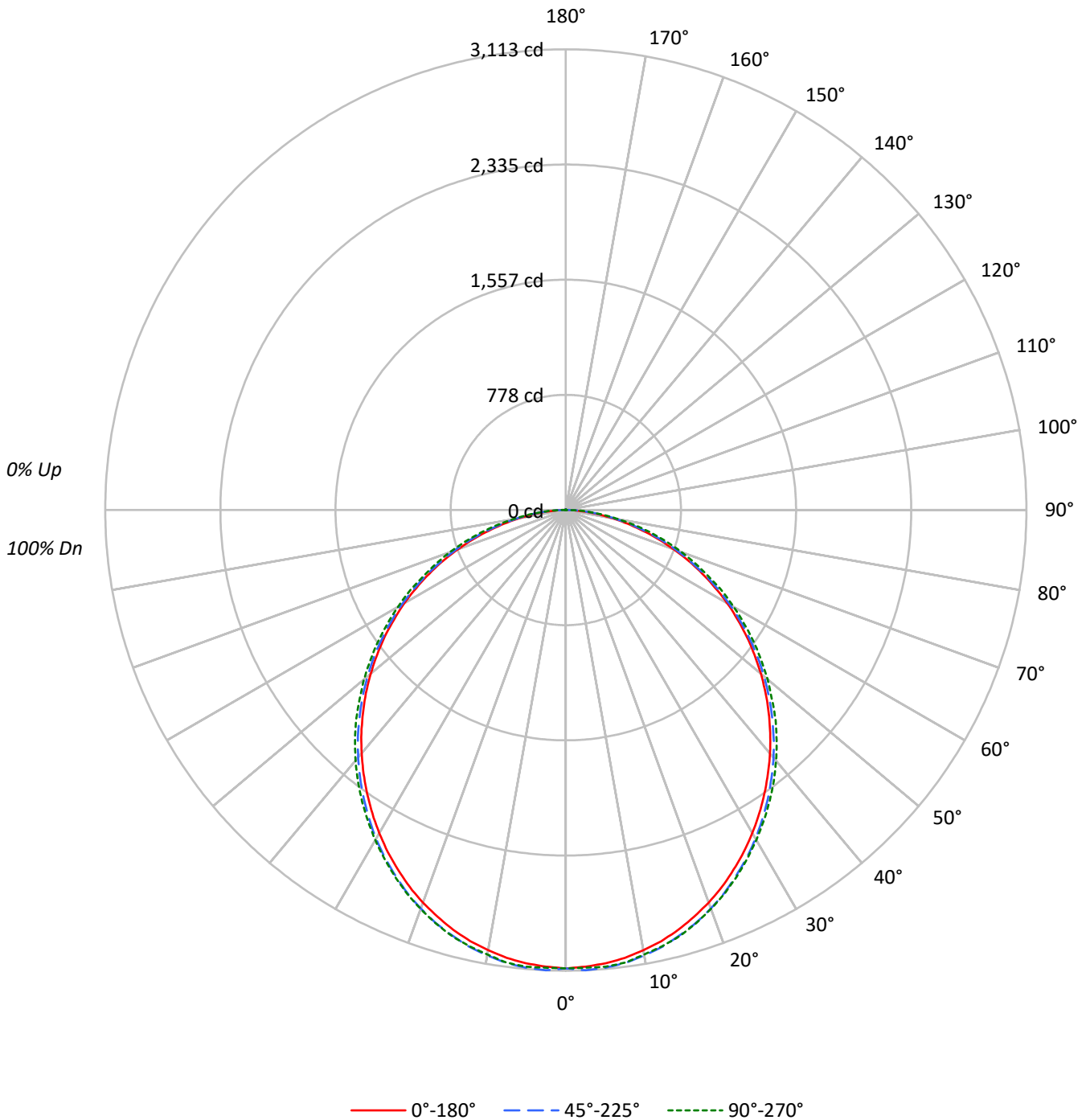
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8598.1 lumens
Efficiency: N/A
Efficacy: 122.8 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°	10990	10990	10990
5°	10951	11056	11032
10°	10881	11012	10988
15°	10786	10928	10944
20°	10659	10822	10830
25°	10501	10670	10697
30°	10330	10507	10553
35°	10136	10312	10401
40°	9946	10113	10240
45°	9728	9887	10058
50°	9500	9650	9825
55°	9243	9384	9580
60°	8946	9091	9300
65°	8548	8719	8947
70°	8045	8280	8656
75°	7399	7709	8206
80°	6532	7043	7413
85°	5630	6461	6925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10058 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	3.4
10°-20°	834.8	9.7
20°-30°	1251.0	14.5
30°-40°	1488.5	17.3
40°-50°	1527.4	17.8
50°-60°	1368.3	15.9
60°-70°	1039.7	12.1
70°-80°	604.3	7.0
80°-90°	181.3	2.1
90°-100°	4.3	0.1
100°-110°	0.8	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.0
130°-140°	0.9	0.0
140°-150°	1.4	0.0
150°-160°	1.1	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	2378.7	27.7
0°-40°	3867.3	45.0
0°-60°	6762.9	78.7
0°-90°	8588.3	99.9
90°-120°	5.1	0.1
90°-150°	7.8	0.1
90°-180°	10.0	0.1
0°-180°	8598.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3097	3097	3097	3097	3097	
5°	3075	3127	3104	3088	3097	292
15°	2936	2993	2975	2970	2979	828
25°	2682	2744	2726	2721	2732	1236
35°	2340	2397	2381	2388	2401	1464
45°	1939	1986	1970	1986	2004	1496
55°	1494	1530	1517	1535	1549	1335
65°	1018	1043	1038	1057	1066	1008
75°	540	560	562	583	599	572
85°	138	150	159	170	170	151
90°	2	9	9	16	14	10
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3
2.5°	3088.3	3083.7	3088.3	3086.0	3108.7	3135.9	3131.3	3110.9	3088.3	3095.1	3113.2
5°	3074.7	3072.4	3079.2	3074.7	3097.3	3126.8	3117.7	3099.6	3079.2	3086.0	3104.1
7.5°	3052.0	3052.0	3061.1	3056.5	3076.9	3106.4	3097.3	3081.5	3061.1	3067.9	3086.0
10°	3020.2	3022.5	3033.8	3027.0	3045.2	3076.9	3067.9	3052.0	3033.8	3038.4	3056.5
12.5°	2984.0	2984.0	2997.6	2990.8	3008.9	3038.4	3027.0	3015.7	2997.6	3002.1	3022.5
15°	2936.3	2938.6	2954.5	2947.7	2963.6	2993.0	2981.7	2972.6	2956.7	2959.0	2974.9
17.5°	2881.9	2888.7	2904.6	2897.8	2913.7	2943.1	2929.5	2920.5	2906.9	2909.1	2925.0
20°	2823.0	2829.8	2845.6	2841.1	2852.4	2881.9	2868.3	2863.8	2850.2	2852.4	2866.0
22.5°	2757.2	2764.0	2782.2	2777.6	2789.0	2818.4	2802.6	2800.3	2786.7	2789.0	2800.3
25°	2682.4	2691.5	2711.9	2707.3	2716.4	2743.6	2730.0	2725.5	2716.4	2716.4	2725.5
27.5°	2605.3	2614.4	2637.0	2630.2	2637.0	2666.5	2650.6	2648.4	2639.3	2639.3	2648.4
30°	2521.4	2530.5	2555.4	2548.6	2555.4	2580.4	2564.5	2566.7	2557.7	2557.7	2564.5
32.5°	2433.0	2439.8	2467.0	2462.4	2467.0	2491.9	2476.0	2478.3	2469.2	2471.5	2473.8
35°	2340.0	2346.8	2376.3	2371.7	2374.0	2396.7	2385.4	2385.4	2378.5	2376.3	2380.8
37.5°	2244.8	2251.6	2287.9	2276.5	2276.5	2299.2	2290.1	2290.1	2283.3	2281.0	2283.3
40°	2147.3	2151.8	2190.4	2179.0	2176.7	2197.2	2190.4	2190.4	2185.8	2181.3	2183.5
42.5°	2045.2	2052.0	2090.6	2081.5	2072.4	2095.1	2088.3	2090.6	2083.8	2079.2	2079.2
45°	1938.7	1945.5	1984.0	1979.5	1965.9	1986.3	1979.5	1984.0	1974.9	1970.4	1970.4
47.5°	1832.1	1841.2	1877.4	1870.6	1857.0	1877.4	1870.6	1875.2	1866.1	1861.6	1861.6
50°	1721.0	1730.1	1768.6	1757.3	1743.7	1764.1	1759.5	1761.8	1755.0	1750.5	1748.2
52.5°	1607.6	1619.0	1655.2	1641.6	1630.3	1648.4	1646.2	1648.4	1639.4	1637.1	1634.8
55°	1494.2	1505.6	1539.6	1523.7	1514.7	1530.5	1526.0	1530.5	1521.5	1519.2	1516.9
57.5°	1376.3	1387.7	1419.4	1403.5	1396.7	1410.4	1408.1	1410.4	1403.5	1401.3	1399.0
60°	1260.7	1269.8	1299.2	1283.4	1276.6	1290.2	1285.6	1292.4	1283.4	1283.4	1281.1
62.5°	1138.3	1149.6	1179.1	1160.9	1156.4	1167.7	1163.2	1170.0	1165.5	1160.9	1158.7
65°	1018.1	1024.9	1052.1	1036.2	1029.4	1043.0	1040.8	1045.3	1038.5	1040.8	1038.5
67.5°	897.9	902.4	929.7	911.5	907.0	920.6	922.8	920.6	916.0	918.3	916.0
70°	775.5	780.0	802.7	786.8	784.5	795.9	800.4	798.1	793.6	795.9	798.1
72.5°	657.6	659.8	680.2	666.6	664.4	678.0	678.0	678.0	678.0	678.0	682.5
75°	539.7	541.9	560.1	548.7	546.5	560.1	560.1	560.1	560.1	564.6	562.3
77.5°	426.3	424.0	442.2	435.3	430.8	444.4	444.4	446.7	451.2	455.8	449.0
80°	319.7	317.4	331.0	322.0	322.0	335.6	333.3	335.6	340.1	342.4	344.7
82.5°	224.5	219.9	231.3	229.0	226.7	238.1	240.3	238.1	244.9	247.2	247.2
85°	138.3	138.3	145.1	140.6	140.6	149.7	149.7	151.9	156.5	158.7	158.7
87.5°	65.8	63.5	70.3	68.0	65.8	72.6	72.6	74.8	77.1	79.4	77.1
90°	2.3	2.3	4.5	4.5	4.5	9.1	9.1	9.1	11.3	11.3	9.1
92.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	4.5	4.5	4.5	4.5
95°	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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	2.3



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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	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	2.3
132.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0
135°	0.0	2.3	2.3	2.3	2.3	0.0	2.3	0.0	0.0	0.0	2.3
137.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
140°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
145°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	2.3	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	2.3
157.5°	2.3	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	2.3
162.5°	2.3	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	2.3
167.5°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
170°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
172.5°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
175°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	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°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3	3097.3
2.5°	3086.0	3070.1	3063.3	3067.9	3099.6	3067.9	3101.9	3113.2	3072.4	3095.1
5°	3076.9	3061.1	3052.0	3056.5	3088.3	3058.8	3095.1	3108.7	3074.7	3097.3
7.5°	3058.8	3040.6	3036.1	3042.9	3070.1	3045.2	3081.5	3095.1	3061.1	3083.7
10°	3031.6	3015.7	3011.2	3018.0	3042.9	3018.0	3049.7	3061.1	3029.3	3049.7
12.5°	2997.6	2981.7	2977.2	2986.2	3008.9	2986.2	3018.0	3029.3	2997.6	3018.0
15°	2954.5	2938.6	2936.3	2949.9	2970.4	2949.9	2981.7	2990.8	2959.0	2979.4
17.5°	2902.3	2886.5	2888.7	2904.6	2920.5	2902.3	2931.8	2940.9	2911.4	2927.3
20°	2845.6	2827.5	2832.0	2845.6	2859.2	2841.1	2870.6	2879.7	2852.4	2868.3
22.5°	2779.9	2761.7	2766.3	2782.2	2791.2	2775.4	2802.6	2811.6	2789.0	2804.8
25°	2707.3	2691.5	2698.3	2714.1	2720.9	2707.3	2732.3	2739.1	2718.7	2732.3
27.5°	2634.8	2616.6	2625.7	2641.6	2646.1	2632.5	2657.4	2662.0	2641.6	2655.2
30°	2553.1	2535.0	2546.3	2564.5	2564.5	2555.4	2575.8	2580.4	2564.5	2575.8
32.5°	2462.4	2448.8	2462.4	2478.3	2476.0	2469.2	2489.7	2494.2	2480.6	2489.7
35°	2371.7	2360.4	2374.0	2389.9	2387.6	2380.8	2401.2	2403.5	2392.2	2401.2
37.5°	2278.8	2269.7	2283.3	2296.9	2292.4	2287.9	2306.0	2306.0	2299.2	2308.3
40°	2183.5	2174.5	2185.8	2201.7	2192.6	2192.6	2204.0	2208.5	2201.7	2210.8
42.5°	2083.8	2074.7	2088.3	2101.9	2092.9	2090.6	2104.2	2106.5	2101.9	2108.7
45°	1979.5	1970.4	1984.0	1995.4	1986.3	1986.3	1997.6	1997.6	1995.4	2004.4
47.5°	1872.9	1866.1	1877.4	1888.8	1879.7	1886.5	1886.5	1886.5	1891.0	1888.8
50°	1764.1	1757.3	1766.3	1779.9	1768.6	1770.9	1775.4	1775.4	1777.7	1779.9
52.5°	1650.7	1641.6	1650.7	1666.6	1650.7	1657.5	1659.8	1662.0	1668.8	1664.3
55°	1537.3	1528.3	1537.3	1550.9	1535.1	1544.1	1544.1	1546.4	1553.2	1548.7
57.5°	1419.4	1410.4	1424.0	1433.0	1417.2	1426.2	1426.2	1430.8	1435.3	1428.5
60°	1301.5	1294.7	1299.2	1315.1	1299.2	1308.3	1308.3	1308.3	1317.4	1310.6
62.5°	1181.3	1176.8	1181.3	1194.9	1179.1	1188.1	1185.9	1188.1	1197.2	1194.9
65°	1058.9	1054.4	1058.9	1072.5	1056.6	1065.7	1065.7	1068.0	1074.8	1065.7
67.5°	938.7	931.9	938.7	950.1	936.5	943.3	943.3	943.3	954.6	950.1
70°	816.3	811.7	816.3	827.6	816.3	820.8	820.8	820.8	832.2	834.4
72.5°	696.1	696.1	700.6	709.7	700.6	709.7	702.9	698.4	714.2	716.5
75°	578.2	580.5	582.7	591.8	582.7	591.8	587.3	582.7	596.3	598.6
77.5°	469.4	469.4	471.6	478.4	471.6	478.4	473.9	473.9	483.0	480.7
80°	358.3	358.3	360.5	367.3	360.5	367.3	362.8	362.8	371.9	362.8
82.5°	260.8	260.8	260.8	267.6	263.0	267.6	265.3	260.8	272.1	263.0
85°	167.8	170.1	170.1	172.3	170.1	172.3	172.3	170.1	176.9	170.1
87.5°	86.2	86.2	86.2	88.4	86.2	86.2	88.4	86.2	90.7	88.4
90°	15.9	13.6	13.6	18.1	15.9	15.9	18.1	13.6	15.9	13.6
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1
95°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.8
97.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5
100°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
102.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
105°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	2.3	2.3
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	2.3	0.0	0.0	0.0	2.3



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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	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.3	2.3	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°	2.3	2.3	2.3	2.3	0.0	2.3	0.0	0.0	0.0	0.0
140°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0
145°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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	2.3
177.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P894384
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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	19.83	21.47	20.20	21.79	22.10	19.97	21.61	20.34	21.92	22.24
	3H	21.66	23.14	22.04	23.47	23.83	21.80	23.28	22.18	23.61	23.98
	4H	22.32	23.71	22.72	24.06	24.44	22.51	23.91	22.91	24.26	24.63
	6H	22.77	24.07	23.18	24.43	24.83	23.07	24.36	23.48	24.73	25.12
	8H	22.91	24.15	23.34	24.54	24.94	23.26	24.50	23.69	24.89	25.29
	12H	23.01	24.19	23.44	24.58	25.01	23.40	24.59	23.84	24.97	25.41
4H	2H	20.47	21.86	20.87	22.21	22.59	20.58	21.97	20.98	22.32	22.70
	3H	22.51	23.68	22.92	24.08	24.48	22.64	23.82	23.05	24.22	24.62
	4H	23.30	24.36	23.74	24.78	25.22	23.49	24.55	23.92	24.96	25.40
	6H	23.88	24.81	24.33	25.25	25.71	24.18	25.11	24.64	25.55	26.01
	8H	24.07	24.94	24.53	25.38	25.85	24.43	25.30	24.89	25.74	26.21
	12H	24.21	24.99	24.69	25.47	25.94	24.62	25.40	25.10	25.88	26.35
8H	4H	23.63	24.50	24.09	24.95	25.41	23.80	24.67	24.26	25.11	25.58
	6H	24.33	25.06	24.83	25.55	26.03	24.62	25.35	25.12	25.84	26.31
	8H	24.60	25.25	25.11	25.76	26.24	24.95	25.60	25.46	26.11	26.60
	12H	24.81	25.39	25.32	25.88	26.44	25.24	25.81	25.74	26.30	26.87
12H	4H	23.68	24.46	24.16	24.93	25.41	23.83	24.61	24.31	25.09	25.56
	6H	24.40	25.06	24.92	25.56	26.05	24.68	25.33	25.19	25.84	26.33
	8H	24.73	25.31	25.24	25.80	26.36	25.07	25.65	25.58	26.14	26.70