

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: P895502

Luminaire Tested: 8TMB-SC3-RND-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895502
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-SC3-RND-UNV-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT, HI lum setting
Light Source: -
Ballast/Driver: -

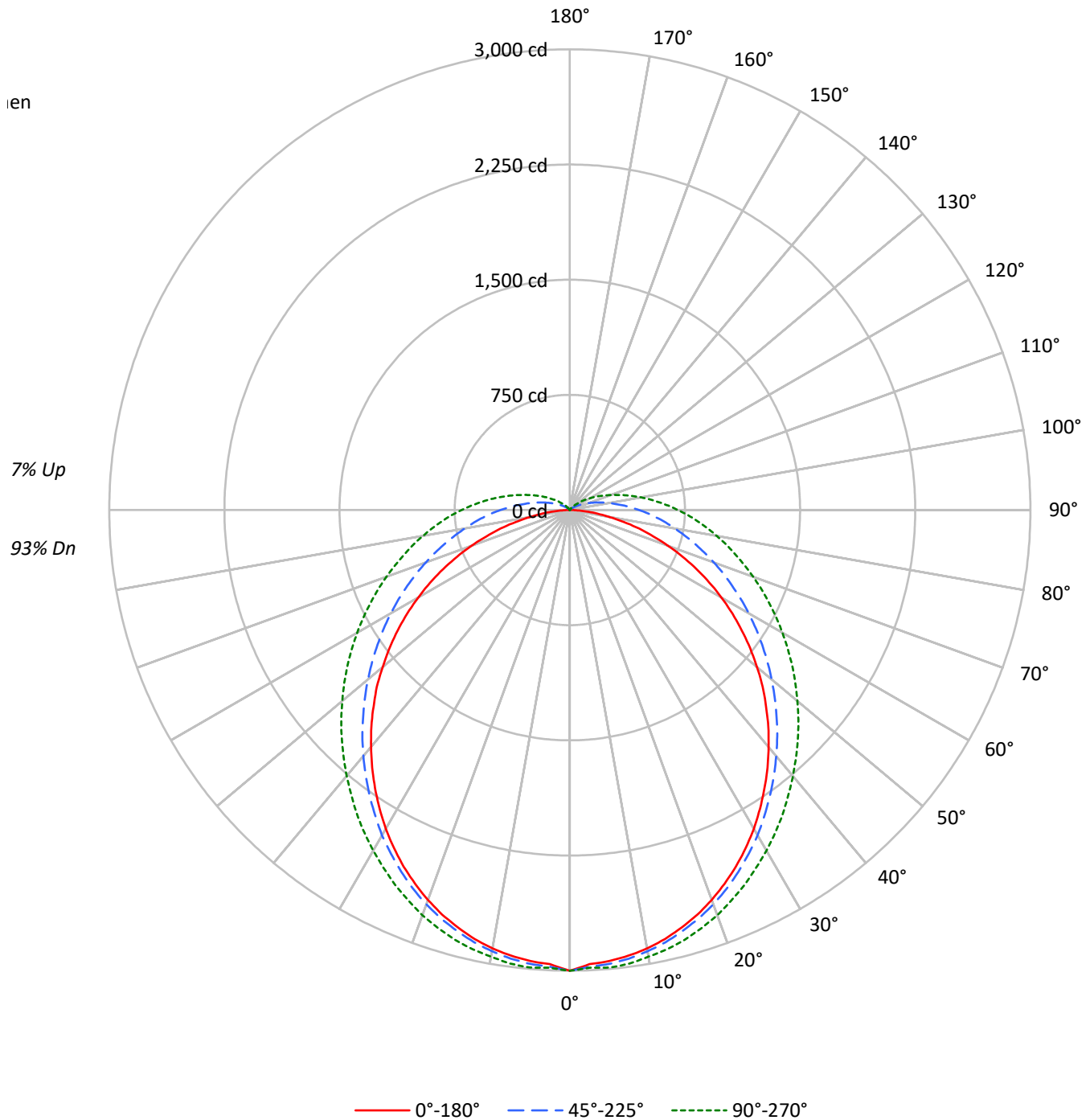
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9931.9 lumens
Efficiency: N/A
Efficacy: 97.9 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): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	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°	10645	10645	10645
5°	10502	10569	10652
10°	10446	10513	10640
15°	10339	10426	10641
20°	10203	10318	10601
25°	10027	10174	10542
30°	9820	10022	10493
35°	9579	9843	10474
40°	9329	9688	10471
45°	9070	9553	10543
50°	8786	9473	10678
55°	8466	9454	10935
60°	8096	9546	11345
65°	7648	9795	12023
70°	7087	10350	13175
75°	6405	11521	15287
80°	5421	14199	19859
85°	4397	23128	34022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 62634 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	2.9
10°-20°	808.4	8.1
20°-30°	1210.5	12.2
30°-40°	1443.3	14.5
40°-50°	1496.9	15.1
50°-60°	1388.8	14.0
60°-70°	1158.6	11.7
70°-80°	863.8	8.7
80°-90°	575.1	5.8
90°-100°	350.1	3.5
100°-110°	195.5	2.0
110°-120°	97.7	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°	2302.6	23.2
0°-40°	3746.0	37.7
0°-60°	6631.7	66.8
0°-90°	9229.1	92.9
90°-120°	643.3	6.5
90°-150°	700.1	7.0
90°-180°	703.0	7.1
0°-180°	9931.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	2949	3017	2967	2984	2991	280
15°	2815	2888	2838	2890	2897	794
25°	2561	2629	2599	2672	2693	1179
35°	2211	2270	2272	2385	2418	1383
45°	1808	1855	1904	2054	2101	1395
55°	1369	1416	1528	1707	1768	1223
65°	911	984	1167	1364	1432	902
75°	467	596	840	1045	1115	494
85°	108	296	568	763	836	121
90°	5	195	451	636	704	8
95°	0	120	347	521	582	0
105°	0	38	190	322	371	0
115°	2	9	89	181	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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2
2.5°	2960.3	2965.0	3007.2	3004.9	2997.8	3026.0	3033.1	3009.6	2972.0	3009.6	2976.7
5°	2948.6	2953.2	2995.5	2993.2	2986.1	3016.6	3019.0	2997.8	2960.3	2997.8	2967.3
7.5°	2927.4	2932.1	2974.4	2972.0	2967.3	2997.8	2995.5	2979.1	2939.2	2979.1	2946.2
10°	2899.3	2901.6	2946.2	2941.5	2939.2	2969.7	2962.6	2948.6	2908.6	2948.6	2918.0
12.5°	2861.7	2864.0	2908.6	2903.9	2903.9	2932.1	2922.7	2911.0	2871.1	2908.6	2882.8
15°	2814.7	2817.1	2859.3	2857.0	2857.0	2887.5	2873.4	2864.0	2826.5	2866.4	2838.2
17.5°	2763.1	2760.7	2805.3	2800.7	2805.3	2833.5	2814.7	2810.0	2774.8	2812.4	2788.9
20°	2702.1	2702.1	2742.0	2739.6	2746.7	2772.5	2749.0	2751.4	2716.1	2756.0	2732.6
22.5°	2634.0	2631.6	2671.5	2671.5	2678.6	2704.4	2678.6	2685.6	2650.4	2688.0	2669.2
25°	2561.2	2556.5	2596.4	2596.4	2608.2	2629.3	2601.1	2610.5	2577.6	2615.2	2598.8
27.5°	2481.4	2474.3	2514.2	2516.6	2526.0	2547.1	2516.6	2530.7	2500.2	2535.4	2523.6
30°	2396.9	2389.8	2429.7	2432.1	2443.8	2460.3	2429.7	2448.5	2420.3	2455.6	2446.2
32.5°	2305.3	2300.6	2338.2	2342.9	2354.6	2366.4	2338.2	2357.0	2333.5	2368.7	2359.3
35°	2211.4	2206.7	2241.9	2249.0	2260.7	2270.1	2239.6	2265.4	2244.3	2277.1	2272.4
37.5°	2115.2	2108.1	2145.7	2150.4	2164.5	2169.2	2141.0	2171.5	2152.7	2185.6	2183.2
40°	2014.2	2007.2	2044.7	2049.4	2063.5	2063.5	2040.0	2072.9	2058.8	2089.3	2091.7
42.5°	1913.3	1906.2	1939.1	1948.5	1960.2	1960.2	1936.7	1972.0	1962.6	1993.1	2000.1
45°	1807.6	1800.6	1831.1	1840.5	1854.6	1854.6	1831.1	1871.0	1864.0	1894.5	1903.9
47.5°	1704.3	1694.9	1723.1	1732.5	1746.6	1744.2	1725.5	1765.4	1763.0	1793.5	1810.0
50°	1591.7	1584.6	1612.8	1622.2	1638.6	1633.9	1619.8	1662.1	1662.1	1692.6	1716.1
52.5°	1481.3	1474.3	1502.4	1511.8	1525.9	1525.9	1511.8	1556.4	1563.5	1594.0	1622.2
55°	1368.6	1359.2	1387.4	1396.8	1413.2	1415.6	1403.8	1448.5	1462.5	1497.8	1528.3
57.5°	1256.0	1251.3	1274.7	1284.1	1305.3	1305.3	1298.2	1345.2	1363.9	1401.5	1436.7
60°	1140.9	1136.2	1157.4	1169.1	1192.6	1197.3	1192.6	1241.9	1267.7	1305.3	1345.2
62.5°	1025.9	1021.2	1042.3	1058.8	1084.6	1089.3	1091.6	1143.3	1171.4	1211.3	1256.0
65°	910.9	906.2	927.3	946.1	976.6	983.6	990.7	1044.7	1077.5	1119.8	1166.7
67.5°	795.8	793.5	814.6	838.1	870.9	880.3	892.1	948.4	986.0	1030.6	1082.2
70°	683.1	680.8	701.9	730.1	770.0	781.7	795.8	852.2	899.1	946.1	997.7
72.5°	570.5	572.8	596.3	629.1	673.8	685.5	704.3	763.0	814.6	863.9	917.9
75°	467.2	467.2	493.0	530.6	579.9	596.3	617.4	678.4	732.4	784.1	840.4
77.5°	361.5	361.5	392.0	439.0	493.0	509.4	535.2	598.6	657.3	709.0	765.3
80°	265.3	270.0	305.2	352.1	408.5	429.6	460.1	523.5	586.9	638.5	694.9
82.5°	180.8	187.8	225.4	279.4	335.7	356.8	387.3	455.4	518.8	572.8	631.5
85°	108.0	119.7	159.6	213.6	272.3	295.8	328.7	392.0	455.4	509.4	568.1
87.5°	49.3	65.7	108.0	162.0	218.3	244.1	272.3	333.4	396.7	450.7	511.8
90°	4.7	28.2	70.4	117.4	171.4	194.8	223.0	281.7	342.7	392.0	450.7
92.5°	0.0	11.7	42.3	84.5	131.5	154.9	180.8	237.1	291.1	340.4	396.7
95°	0.0	4.7	23.5	58.7	98.6	119.7	143.2	194.8	248.8	295.8	347.4
97.5°	0.0	2.3	14.1	39.9	72.8	91.6	112.7	159.6	208.9	253.5	300.5
100°	0.0	2.3	7.0	25.8	54.0	68.1	89.2	129.1	173.7	213.6	260.6
102.5°	0.0	0.0	4.7	16.4	39.9	51.6	68.1	103.3	143.2	180.8	223.0
105°	0.0	0.0	2.3	11.7	28.2	37.6	51.6	82.2	117.4	150.2	190.2
107.5°	0.0	0.0	2.3	7.0	18.8	28.2	39.9	63.4	93.9	124.4	159.6
110°	2.3	2.3	2.3	4.7	14.1	21.1	28.2	49.3	77.5	103.3	133.8



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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	37.6	61.0	82.2	110.3
115°	2.3	2.3	2.3	2.3	7.0	9.4	14.1	28.2	47.0	65.7	89.2
117.5°	2.3	2.3	2.3	2.3	4.7	7.0	9.4	21.1	35.2	51.6	72.8
120°	2.3	2.3	2.3	2.3	2.3	4.7	7.0	14.1	28.2	39.9	58.7
122.5°	2.3	2.3	2.3	2.3	2.3	4.7	4.7	11.7	21.1	30.5	44.6
125°	2.3	2.3	2.3	2.3	2.3	2.3	4.7	7.0	14.1	23.5	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°	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2
2.5°	2986.1	2993.2	3000.2	2981.4	2993.2	3014.3	3021.3	2993.2	3002.5	2983.8
5°	2976.7	2981.4	2990.8	2967.3	2983.8	3002.5	3014.3	2990.8	3004.9	2990.8
7.5°	2957.9	2962.6	2974.4	2950.9	2972.0	2988.5	3002.5	2979.1	2993.2	2979.1
10°	2929.8	2936.8	2953.2	2925.1	2950.9	2965.0	2979.1	2953.2	2967.3	2953.2
12.5°	2894.6	2906.3	2920.4	2894.6	2920.4	2932.1	2950.9	2925.1	2941.5	2929.8
15°	2852.3	2864.0	2882.8	2857.0	2889.9	2899.3	2918.0	2892.2	2908.6	2896.9
17.5°	2803.0	2817.1	2840.6	2810.0	2847.6	2854.6	2873.4	2850.0	2866.4	2854.6
20°	2746.7	2760.7	2784.2	2756.0	2793.6	2798.3	2819.4	2798.3	2814.7	2807.7
22.5°	2680.9	2697.4	2720.8	2695.0	2734.9	2734.9	2760.7	2739.6	2758.4	2751.4
25°	2612.8	2631.6	2657.5	2629.3	2671.5	2671.5	2699.7	2678.6	2697.4	2692.7
27.5°	2540.1	2561.2	2591.7	2563.5	2605.8	2603.5	2631.6	2612.8	2634.0	2626.9
30°	2462.6	2486.1	2516.6	2493.1	2537.7	2533.0	2561.2	2544.8	2563.5	2561.2
32.5°	2378.1	2403.9	2441.5	2415.7	2460.3	2455.6	2490.8	2472.0	2495.5	2490.8
35°	2293.6	2321.7	2359.3	2335.8	2385.1	2378.1	2413.3	2396.9	2420.3	2418.0
37.5°	2206.7	2237.2	2274.8	2256.0	2303.0	2295.9	2333.5	2319.4	2345.2	2338.2
40°	2117.5	2148.0	2187.9	2171.5	2220.8	2211.4	2251.3	2239.6	2265.4	2260.7
42.5°	2028.3	2061.2	2101.1	2091.7	2138.6	2129.2	2169.2	2159.8	2185.6	2180.9
45°	1936.7	1972.0	2014.2	2004.8	2054.1	2044.7	2084.6	2077.6	2103.4	2101.1
47.5°	1845.2	1882.8	1925.0	1920.3	1967.3	1957.9	2000.1	1993.1	2018.9	2018.9
50°	1751.3	1793.5	1835.8	1833.5	1880.4	1871.0	1908.6	1908.6	1936.7	1934.4
52.5°	1657.4	1702.0	1746.6	1746.6	1793.5	1784.2	1826.4	1824.1	1852.2	1852.2
55°	1568.2	1608.1	1652.7	1662.1	1706.7	1692.6	1737.2	1741.9	1765.4	1767.7
57.5°	1479.0	1521.2	1565.8	1577.6	1619.8	1610.4	1652.7	1657.4	1680.9	1683.2
60°	1389.8	1429.7	1474.3	1490.7	1533.0	1523.6	1565.8	1570.5	1596.3	1598.7
62.5°	1300.6	1340.5	1389.8	1406.2	1446.1	1439.1	1483.7	1488.4	1511.8	1516.5
65°	1213.7	1256.0	1302.9	1326.4	1363.9	1354.5	1399.2	1403.8	1429.7	1432.0
67.5°	1129.2	1171.4	1218.4	1244.2	1279.4	1274.7	1317.0	1326.4	1347.5	1352.2
70°	1047.0	1089.3	1138.6	1164.4	1199.6	1197.3	1237.2	1244.2	1267.7	1270.0
72.5°	967.2	1009.5	1058.8	1089.3	1119.8	1117.4	1157.4	1166.7	1190.2	1192.6
75°	889.7	934.3	981.3	1014.2	1044.7	1042.3	1082.2	1091.6	1112.7	1115.1
77.5°	817.0	861.6	910.9	943.7	969.5	971.9	1007.1	1016.5	1037.6	1044.7
80°	748.9	791.1	838.1	873.3	896.8	901.5	934.3	946.1	962.5	971.9
82.5°	683.1	725.4	772.4	805.2	828.7	833.4	863.9	878.0	894.4	901.5
85°	619.8	662.0	706.6	741.8	763.0	765.3	795.8	809.9	824.0	835.7
87.5°	558.7	601.0	643.2	680.8	699.6	704.3	732.4	746.5	758.3	770.0
90°	497.7	539.9	582.2	617.4	636.2	638.5	669.1	683.1	694.9	704.3
92.5°	441.3	483.6	525.9	561.1	577.5	582.2	608.0	624.5	633.8	643.2
95°	387.3	429.6	467.2	504.7	521.2	528.2	551.7	565.8	577.5	582.2
97.5°	340.4	378.0	413.2	450.7	464.8	471.9	495.3	511.8	521.2	525.9
100°	295.8	331.0	363.9	399.1	413.2	420.2	441.3	455.4	464.8	471.9
102.5°	255.9	288.8	319.3	352.1	366.2	370.9	389.7	403.8	413.2	420.2
105°	220.7	251.2	279.4	309.9	321.6	328.7	345.1	356.8	366.2	370.9
107.5°	187.8	218.3	241.8	270.0	281.7	286.4	302.8	316.9	324.0	326.3
110°	159.6	185.5	208.9	232.4	246.5	251.2	265.3	277.0	284.1	286.4



TEST NUMBER: P895502

CATALOG NUMBER: 8TMB-SC3-RND-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	133.8	157.3	178.4	199.5	211.3	216.0	230.1	241.8	246.5	248.8
115°	110.3	133.8	150.2	171.4	180.8	185.5	197.2	208.9	211.3	216.0
117.5°	89.2	110.3	126.8	143.2	152.6	157.3	166.7	176.1	180.8	183.1
120°	72.8	89.2	103.3	119.7	126.8	131.5	140.9	150.2	152.6	154.9
122.5°	58.7	72.8	84.5	98.6	105.6	110.3	117.4	124.4	126.8	129.1
125°	44.6	58.7	68.1	79.8	86.9	89.2	96.3	103.3	105.6	108.0
127.5°	35.2	44.6	54.0	63.4	68.1	70.4	77.5	82.2	84.5	86.9
130°	25.8	32.9	39.9	49.3	54.0	56.3	61.0	65.7	68.1	68.1
132.5°	18.8	25.8	30.5	37.6	39.9	42.3	47.0	51.6	51.6	54.0
135°	11.7	16.4	21.1	25.8	30.5	30.5	35.2	37.6	39.9	39.9
137.5°	9.4	11.7	14.1	18.8	21.1	23.5	23.5	28.2	28.2	28.2
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: P895502
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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	18.98	20.50	20.99	20.07	21.61	20.55	22.07	22.56
	3H	20.18	21.58	20.66	22.05	22.58	22.70	24.10	23.18	24.57	25.10
	4H	20.78	22.11	21.28	22.59	23.14	24.01	25.34	24.52	25.83	26.37
	6H	21.18	22.42	21.69	22.92	23.47	25.42	26.66	25.93	27.16	27.71
	8H	21.29	22.48	21.82	23.00	23.57	26.17	27.35	26.70	27.88	28.44
	12H	21.37	22.51	21.91	23.03	23.62	27.02	28.16	27.55	28.67	29.27
4H	2H	19.43	20.76	19.94	21.25	21.79	20.63	21.96	21.13	22.44	22.98
	3H	21.41	22.55	21.93	23.08	23.64	23.54	24.68	24.06	25.21	25.77
	4H	22.19	23.23	22.72	23.77	24.36	25.07	26.11	25.60	26.65	27.24
	6H	22.77	23.69	23.32	24.25	24.86	26.71	27.63	27.27	28.20	28.80
	8H	22.95	23.82	23.51	24.38	25.00	27.59	28.46	28.15	29.02	29.64
	12H	23.07	23.86	23.66	24.45	25.08	28.60	29.38	29.18	29.98	30.60
8H	4H	23.07	23.93	23.63	24.50	25.12	25.43	26.30	25.99	26.86	27.48
	6H	23.95	24.68	24.54	25.29	25.92	27.33	28.07	27.92	28.67	29.30
	8H	24.30	24.96	24.90	25.58	26.22	28.41	29.08	29.02	29.70	30.34
	12H	24.57	25.16	25.17	25.77	26.47	29.68	30.27	30.29	30.88	31.58
12H	4H	23.34	24.13	23.93	24.72	25.35	25.47	26.26	26.05	26.85	27.48
	6H	24.40	25.06	25.00	25.68	26.32	27.44	28.11	28.05	28.72	29.36
	8H	24.92	25.51	25.52	26.12	26.82	28.64	29.23	29.24	29.84	30.54