

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: P894430

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894430  
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-L835  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

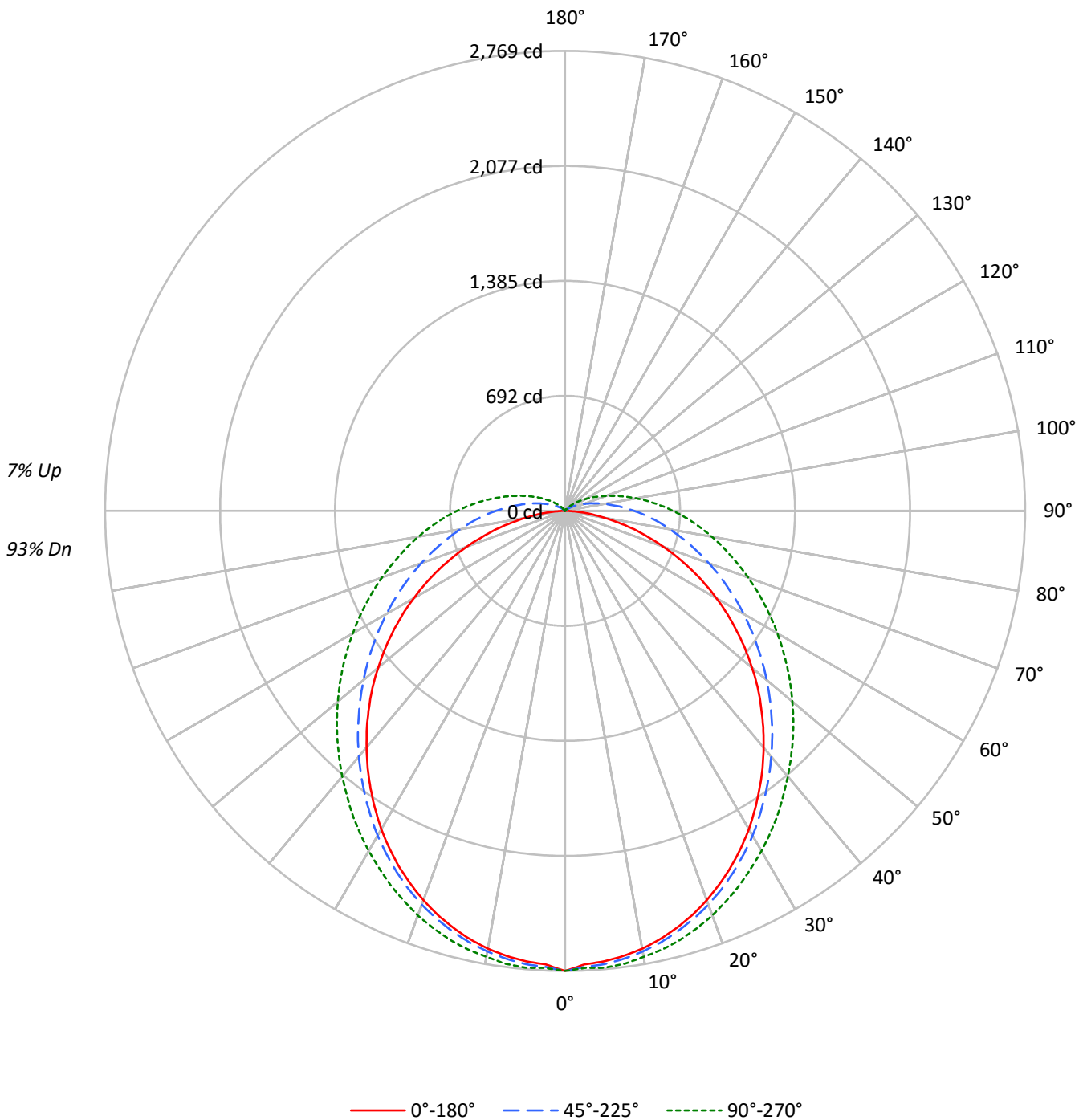
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9166.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 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): 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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### 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°	9824	9824	9824
5°	9692	9754	9831
10°	9640	9703	9820
15°	9542	9621	9821
20°	9416	9522	9784
25°	9254	9389	9729
30°	9063	9249	9684
35°	8840	9084	9666
40°	8610	8941	9664
45°	8371	8816	9730
50°	8108	8742	9854
55°	7814	8725	10092
60°	7472	8809	10470
65°	7057	9040	11096
70°	6541	9552	12159
75°	5910	10633	14108
80°	5002	13104	18326
85°	4059	21344	31400

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 57802 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	2.9
10°-20°	746.1	8.1
20°-30°	1117.1	12.2
30°-40°	1332.0	14.5
40°-50°	1381.5	15.1
50°-60°	1281.7	14.0
60°-70°	1069.2	11.7
70°-80°	797.2	8.7
80°-90°	530.8	5.8
90°-100°	323.1	3.5
100°-110°	180.4	2.0
110°-120°	90.1	1.0
120°-130°	37.7	0.4
130°-140°	11.9	0.1
140°-150°	2.9	0.0
150°-160°	1.3	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	2125.1	23.2
0°-40°	3457.1	37.7
0°-60°	6120.2	66.8
0°-90°	8517.3	92.9
90°-120°	593.7	6.5
90°-150°	646.2	7.1
90°-180°	649.0	7.1
0°-180°	9166.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2769	2769	2769	2769	2769	
5°	2721	2784	2738	2754	2760	258
15°	2598	2665	2619	2667	2674	732
25°	2364	2426	2398	2466	2485	1088
35°	2041	2095	2097	2201	2232	1277
45°	1668	1712	1757	1896	1939	1287
55°	1263	1306	1410	1575	1631	1129
65°	841	908	1077	1259	1322	832
75°	431	550	776	964	1029	456
85°	100	273	524	704	771	112
90°	4	180	416	587	650	7
95°	0	110	321	481	537	0
105°	0	35	176	297	342	0
115°	2	9	82	167	199	2
125°	2	2	32	80	100	2
135°	2	2	9	28	37	2
145°	2	2	2	6	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8
2.5°	2732.0	2736.3	2775.3	2773.1	2766.6	2792.6	2799.1	2777.5	2742.8	2777.5	2747.1
5°	2721.1	2725.5	2764.5	2762.3	2755.8	2784.0	2786.1	2766.6	2732.0	2766.6	2738.5
7.5°	2701.6	2706.0	2745.0	2742.8	2738.5	2766.6	2764.5	2749.3	2712.5	2749.3	2719.0
10°	2675.6	2677.8	2719.0	2714.6	2712.5	2740.6	2734.1	2721.1	2684.3	2721.1	2693.0
12.5°	2641.0	2643.2	2684.3	2680.0	2680.0	2706.0	2697.3	2686.5	2649.7	2684.3	2660.5
15°	2597.7	2599.8	2638.8	2636.7	2636.7	2664.8	2651.8	2643.2	2608.5	2645.3	2619.3
17.5°	2550.0	2547.8	2589.0	2584.7	2589.0	2615.0	2597.7	2593.3	2560.8	2595.5	2573.8
20°	2493.7	2493.7	2530.5	2528.3	2534.8	2558.7	2537.0	2539.2	2506.7	2543.5	2521.8
22.5°	2430.8	2428.7	2465.5	2465.5	2472.0	2495.8	2472.0	2478.5	2446.0	2480.7	2463.3
25°	2363.7	2359.3	2396.2	2396.2	2407.0	2426.5	2400.5	2409.2	2378.8	2413.5	2398.3
27.5°	2290.0	2283.5	2320.3	2322.5	2331.2	2350.7	2322.5	2335.5	2307.3	2339.8	2329.0
30°	2212.0	2205.5	2242.3	2244.5	2255.3	2270.5	2242.3	2259.7	2233.7	2266.2	2257.5
32.5°	2127.5	2123.2	2157.9	2162.2	2173.0	2183.8	2157.9	2175.2	2153.5	2186.0	2177.3
35°	2040.9	2036.5	2069.0	2075.5	2086.4	2095.0	2066.9	2090.7	2071.2	2101.5	2097.2
37.5°	1952.0	1945.5	1980.2	1984.5	1997.5	2001.9	1975.9	2004.0	1986.7	2017.0	2014.9
40°	1858.9	1852.4	1887.0	1891.4	1904.4	1904.4	1882.7	1913.0	1900.0	1928.2	1930.4
42.5°	1765.7	1759.2	1789.5	1798.2	1809.0	1809.0	1787.4	1819.9	1811.2	1839.4	1845.9
45°	1668.2	1661.7	1689.9	1698.5	1711.5	1711.5	1689.9	1726.7	1720.2	1748.4	1757.0
47.5°	1572.9	1564.2	1590.2	1598.9	1611.9	1609.7	1592.4	1629.2	1627.1	1655.2	1670.4
50°	1468.9	1462.4	1488.4	1497.1	1512.2	1507.9	1494.9	1533.9	1533.9	1562.1	1583.7
52.5°	1367.1	1360.6	1386.6	1395.2	1408.2	1408.2	1395.2	1436.4	1442.9	1471.1	1497.1
55°	1263.1	1254.4	1280.4	1289.1	1304.2	1306.4	1295.6	1336.7	1349.7	1382.2	1410.4
57.5°	1159.1	1154.8	1176.4	1185.1	1204.6	1204.6	1198.1	1241.4	1258.7	1293.4	1325.9
60°	1052.9	1048.6	1068.1	1078.9	1100.6	1104.9	1100.6	1146.1	1169.9	1204.6	1241.4
62.5°	946.8	942.4	961.9	977.1	1000.9	1005.3	1007.4	1055.1	1081.1	1117.9	1159.1
65°	840.6	836.3	855.8	873.1	901.3	907.8	914.3	964.1	994.4	1033.4	1076.8
67.5°	734.4	732.3	751.8	773.4	803.8	812.4	823.3	875.3	909.9	951.1	998.8
70°	630.5	628.3	647.8	673.8	710.6	721.5	734.4	786.4	829.8	873.1	920.8
72.5°	526.5	528.6	550.3	580.6	621.8	632.6	650.0	704.1	751.8	797.3	847.1
75°	431.1	431.1	455.0	489.6	535.1	550.3	569.8	626.1	676.0	723.6	775.6
77.5°	333.6	333.6	361.8	405.1	455.0	470.1	494.0	552.5	606.6	654.3	706.3
80°	244.8	249.1	281.6	325.0	377.0	396.5	424.6	483.1	541.6	589.3	641.3
82.5°	166.8	173.3	208.0	257.8	309.8	329.3	357.5	420.3	478.8	528.6	582.8
85°	99.7	110.5	147.3	197.2	251.3	273.0	303.3	361.8	420.3	470.1	524.3
87.5°	45.5	60.7	99.7	149.5	201.5	225.3	251.3	307.6	366.1	416.0	472.3
90°	4.3	26.0	65.0	108.3	158.2	179.8	205.8	260.0	316.3	361.8	416.0
92.5°	0.0	10.8	39.0	78.0	121.3	143.0	166.8	218.8	268.6	314.1	366.1
95°	0.0	4.3	21.7	54.2	91.0	110.5	132.2	179.8	229.7	273.0	320.6
97.5°	0.0	2.2	13.0	36.8	67.2	84.5	104.0	147.3	192.8	234.0	277.3
100°	0.0	2.2	6.5	23.8	49.8	62.8	82.3	119.2	160.3	197.2	240.5
102.5°	0.0	0.0	4.3	15.2	36.8	47.7	62.8	95.3	132.2	166.8	205.8
105°	0.0	0.0	2.2	10.8	26.0	34.7	47.7	75.8	108.3	138.7	175.5
107.5°	0.0	0.0	2.2	6.5	17.3	26.0	36.8	58.5	86.7	114.8	147.3
110°	2.2	2.2	2.2	4.3	13.0	19.5	26.0	45.5	71.5	95.3	123.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.2	2.2	2.2	2.2	8.7	13.0	19.5	34.7	56.3	75.8	101.8
115°	2.2	2.2	2.2	2.2	6.5	8.7	13.0	26.0	43.3	60.7	82.3
117.5°	2.2	2.2	2.2	2.2	4.3	6.5	8.7	19.5	32.5	47.7	67.2
120°	2.2	2.2	2.2	2.2	2.2	4.3	6.5	13.0	26.0	36.8	54.2
122.5°	2.2	2.2	2.2	2.2	2.2	4.3	4.3	10.8	19.5	28.2	41.2
125°	2.2	2.2	2.2	2.2	2.2	2.2	4.3	6.5	13.0	21.7	32.5
127.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.3	6.5	8.7	15.2	23.8
130°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	6.5	10.8	17.3
132.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	6.5	8.7	13.0
135°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	6.5	8.7
137.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3	6.5
140°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3
142.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3
145°	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
147.5°	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
150°	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
152.5°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	2.2	2.2
155°	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	2.2
157.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2
160°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2
162.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2
165°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2
167.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2
170°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
172.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2
175°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8	2768.8
2.5°	2755.8	2762.3	2768.8	2751.5	2762.3	2781.8	2788.3	2762.3	2771.0	2753.6
5°	2747.1	2751.5	2760.1	2738.5	2753.6	2771.0	2781.8	2760.1	2773.1	2760.1
7.5°	2729.8	2734.1	2745.0	2723.3	2742.8	2758.0	2771.0	2749.3	2762.3	2749.3
10°	2703.8	2710.3	2725.5	2699.5	2723.3	2736.3	2749.3	2725.5	2738.5	2725.5
12.5°	2671.3	2682.1	2695.1	2671.3	2695.1	2706.0	2723.3	2699.5	2714.6	2703.8
15°	2632.3	2643.2	2660.5	2636.7	2667.0	2675.6	2693.0	2669.1	2684.3	2673.5
17.5°	2586.8	2599.8	2621.5	2593.3	2628.0	2634.5	2651.8	2630.2	2645.3	2634.5
20°	2534.8	2547.8	2569.5	2543.5	2578.2	2582.5	2602.0	2582.5	2597.7	2591.2
22.5°	2474.2	2489.3	2511.0	2487.2	2524.0	2524.0	2547.8	2528.3	2545.7	2539.2
25°	2411.3	2428.7	2452.5	2426.5	2465.5	2465.5	2491.5	2472.0	2489.3	2485.0
27.5°	2344.2	2363.7	2391.8	2365.8	2404.8	2402.7	2428.7	2411.3	2430.8	2424.3
30°	2272.7	2294.3	2322.5	2300.8	2342.0	2337.7	2363.7	2348.5	2365.8	2363.7
32.5°	2194.7	2218.5	2253.2	2229.3	2270.5	2266.2	2298.7	2281.3	2303.0	2298.7
35°	2116.7	2142.7	2177.3	2155.7	2201.2	2194.7	2227.2	2212.0	2233.7	2231.5
37.5°	2036.5	2064.7	2099.4	2082.0	2125.4	2118.9	2153.5	2140.5	2164.4	2157.9
40°	1954.2	1982.4	2019.2	2004.0	2049.5	2040.9	2077.7	2066.9	2090.7	2086.4
42.5°	1871.9	1902.2	1939.0	1930.4	1973.7	1965.0	2001.9	1993.2	2017.0	2012.7
45°	1787.4	1819.9	1858.9	1850.2	1895.7	1887.0	1923.9	1917.4	1941.2	1939.0
47.5°	1702.9	1737.5	1776.5	1772.2	1815.5	1806.9	1845.9	1839.4	1863.2	1863.2
50°	1616.2	1655.2	1694.2	1692.0	1735.4	1726.7	1761.4	1761.4	1787.4	1785.2
52.5°	1529.6	1570.7	1611.9	1611.9	1655.2	1646.6	1685.6	1683.4	1709.4	1709.4
55°	1447.2	1484.1	1525.2	1533.9	1575.1	1562.1	1603.2	1607.6	1629.2	1631.4
57.5°	1364.9	1403.9	1445.1	1455.9	1494.9	1486.2	1525.2	1529.6	1551.2	1553.4
60°	1282.6	1319.4	1360.6	1375.7	1414.7	1406.1	1445.1	1449.4	1473.2	1475.4
62.5°	1200.3	1237.1	1282.6	1297.7	1334.6	1328.1	1369.2	1373.6	1395.2	1399.6
65°	1120.1	1159.1	1202.4	1224.1	1258.7	1250.1	1291.2	1295.6	1319.4	1321.6
67.5°	1042.1	1081.1	1124.4	1148.3	1180.8	1176.4	1215.4	1224.1	1243.6	1247.9
70°	966.3	1005.3	1050.8	1074.6	1107.1	1104.9	1141.8	1148.3	1169.9	1172.1
72.5°	892.6	931.6	977.1	1005.3	1033.4	1031.3	1068.1	1076.8	1098.4	1100.6
75°	821.1	862.3	905.6	935.9	964.1	961.9	998.8	1007.4	1026.9	1029.1
77.5°	753.9	795.1	840.6	870.9	894.8	896.9	929.4	938.1	957.6	964.1
80°	691.1	730.1	773.4	805.9	827.6	831.9	862.3	873.1	888.3	896.9
82.5°	630.5	669.5	712.8	743.1	764.8	769.1	797.3	810.3	825.4	831.9
85°	572.0	611.0	652.1	684.6	704.1	706.3	734.4	747.4	760.4	771.3
87.5°	515.6	554.6	593.6	628.3	645.6	650.0	676.0	689.0	699.8	710.6
90°	459.3	498.3	537.3	569.8	587.1	589.3	617.5	630.5	641.3	650.0
92.5°	407.3	446.3	485.3	517.8	533.0	537.3	561.1	576.3	585.0	593.6
95°	357.5	396.5	431.1	465.8	481.0	487.5	509.1	522.1	533.0	537.3
97.5°	314.1	348.8	381.3	416.0	429.0	435.5	457.1	472.3	481.0	485.3
100°	273.0	305.5	335.8	368.3	381.3	387.8	407.3	420.3	429.0	435.5
102.5°	236.2	266.5	294.6	325.0	338.0	342.3	359.6	372.6	381.3	387.8
105°	203.7	231.8	257.8	286.0	296.8	303.3	318.5	329.3	338.0	342.3
107.5°	173.3	201.5	223.2	249.1	260.0	264.3	279.5	292.5	299.0	301.1
110°	147.3	171.2	192.8	214.5	227.5	231.8	244.8	255.6	262.1	264.3





TEST NUMBER: P894430  
 CATALOG NUMBER: 8TMB-10SL-RND-UNV-L835

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	123.5	145.2	164.7	184.2	195.0	199.3	212.3	223.2	227.5	229.7
115°	101.8	123.5	138.7	158.2	166.8	171.2	182.0	192.8	195.0	199.3
117.5°	82.3	101.8	117.0	132.2	140.8	145.2	153.8	162.5	166.8	169.0
120°	67.2	82.3	95.3	110.5	117.0	121.3	130.0	138.7	140.8	143.0
122.5°	54.2	67.2	78.0	91.0	97.5	101.8	108.3	114.8	117.0	119.2
125°	41.2	54.2	62.8	73.7	80.2	82.3	88.8	95.3	97.5	99.7
127.5°	32.5	41.2	49.8	58.5	62.8	65.0	71.5	75.8	78.0	80.2
130°	23.8	30.3	36.8	45.5	49.8	52.0	56.3	60.7	62.8	62.8
132.5°	17.3	23.8	28.2	34.7	36.8	39.0	43.3	47.7	47.7	49.8
135°	10.8	15.2	19.5	23.8	28.2	28.2	32.5	34.7	36.8	36.8
137.5°	8.7	10.8	13.0	17.3	19.5	21.7	21.7	26.0	26.0	26.0
140°	6.5	8.7	8.7	10.8	13.0	15.2	15.2	17.3	17.3	17.3
142.5°	4.3	6.5	6.5	8.7	8.7	10.8	10.8	10.8	13.0	13.0
145°	4.3	4.3	4.3	6.5	6.5	6.5	6.5	8.7	8.7	8.7
147.5°	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	6.5	6.5
150°	2.2	2.2	2.2	2.2	2.2	4.3	4.3	4.3	4.3	4.3
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	0.0
177.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
180°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



TEST NUMBER: P894430  
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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	18.23	19.76	18.70	20.22	20.71	19.80	21.33	20.27	21.79	22.28
	3H	19.90	21.31	20.39	21.77	22.30	22.42	23.83	22.91	24.29	24.82
	4H	20.50	21.83	21.00	22.32	22.86	23.73	25.06	24.24	25.55	26.09
	6H	20.90	22.14	21.42	22.64	23.19	25.14	26.38	25.66	26.88	27.43
	8H	21.02	22.20	21.54	22.73	23.29	25.89	27.08	26.42	27.60	28.16
	12H	21.09	22.23	21.63	22.75	23.34	26.74	27.88	27.27	28.39	28.99
4H	2H	19.15	20.48	19.66	20.97	21.51	20.35	21.68	20.85	22.16	22.70
	3H	21.13	22.27	21.65	22.80	23.36	23.26	24.40	23.78	24.93	25.49
	4H	21.91	22.95	22.45	23.49	24.08	24.79	25.83	25.33	26.37	26.96
	6H	22.49	23.41	23.04	23.97	24.58	26.43	27.35	26.99	27.92	28.53
	8H	22.67	23.54	23.23	24.10	24.72	27.31	28.18	27.88	28.74	29.37
	12H	22.79	23.58	23.38	24.18	24.80	28.32	29.10	28.90	29.70	30.32
8H	4H	22.79	23.65	23.35	24.22	24.84	25.15	26.02	25.71	26.58	27.20
	6H	23.67	24.41	24.26	25.01	25.64	27.05	27.79	27.65	28.39	29.02
	8H	24.02	24.68	24.62	25.30	25.94	28.13	28.80	28.74	29.42	30.06
	12H	24.29	24.88	24.90	25.49	26.19	29.40	29.99	30.01	30.60	31.31
12H	4H	23.06	23.85	23.65	24.44	25.07	25.19	25.98	25.78	26.57	27.20
	6H	24.12	24.78	24.72	25.40	26.04	27.16	27.83	27.77	28.44	29.08
	8H	24.64	25.23	25.24	25.84	26.54	28.36	28.95	28.97	29.56	30.26