

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: P895511

Luminaire Tested: 8TMB-SC3-RNDU-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

**Test Information**

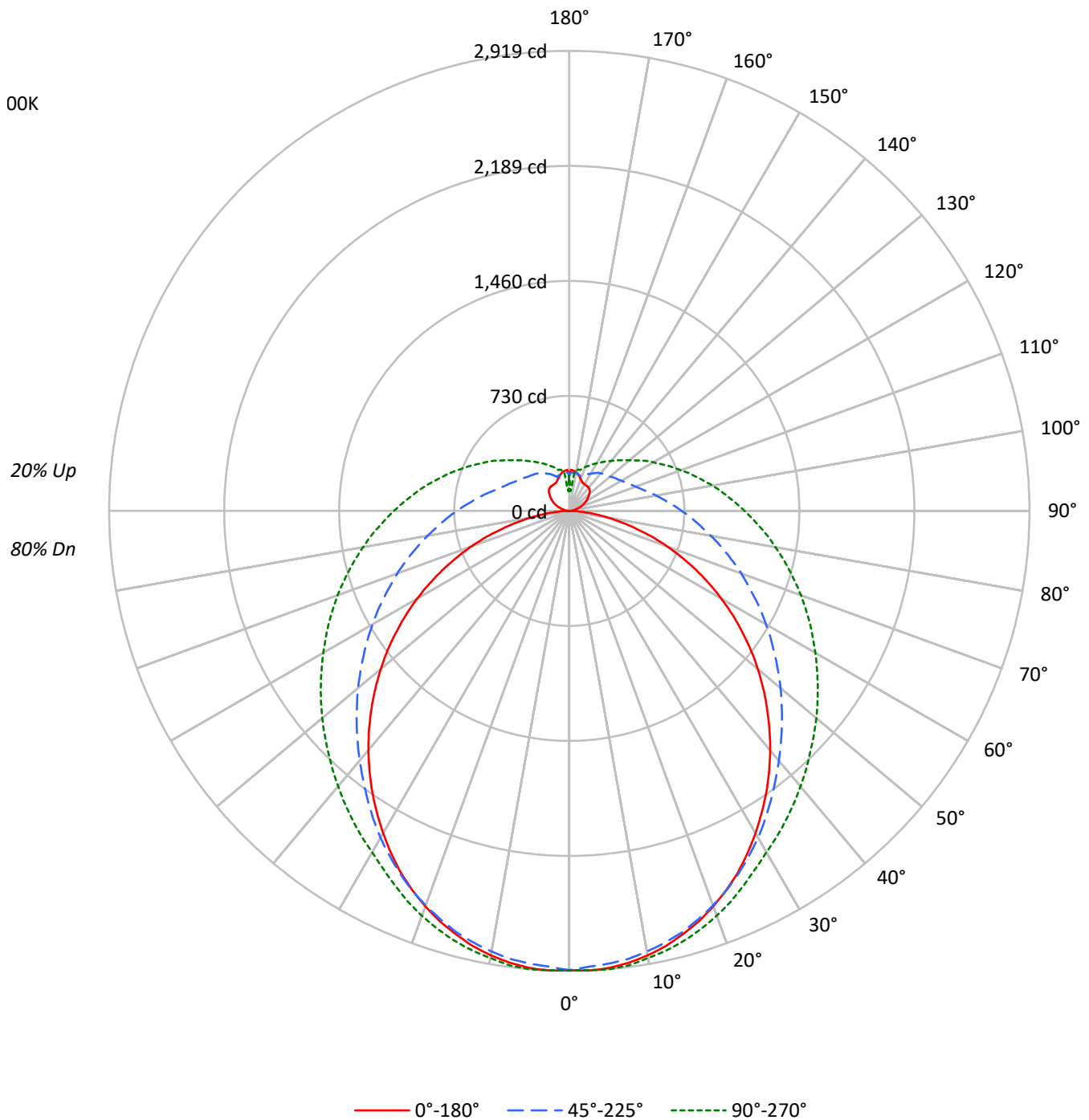
Test Method: LM-79-2019  
Report Number: P895511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-RNDU-UNV-CC83-HI-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 35  
CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12256.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')  
CIE Type: Semi-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

TEST NUMBER: P895511  
CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-HI-3500K

### Luminous Intensity Polar Plot







TEST NUMBER: P895511

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.7	2.2
10°-20°	786.1	6.4
20°-30°	1180.2	9.6
30°-40°	1419.2	11.6
40°-50°	1503.7	12.3
50°-60°	1448.1	11.8
60°-70°	1281.6	10.5
70°-80°	1051.2	8.6
80°-90°	815.7	6.7
90°-100°	633.1	5.2
100°-110°	501.6	4.1
110°-120°	399.6	3.3
120°-130°	317.4	2.6
130°-140°	247.9	2.0
140°-150°	182.4	1.5
150°-160°	120.6	1.0
160°-170°	69.4	0.6
170°-180°	22.3	0.2
0°-30°	2242.0	18.3
0°-40°	3661.3	29.9
0°-60°	6613.0	54.0
0°-90°	9761.5	79.6
90°-120°	1534.3	12.5
90°-150°	2282.1	18.6
90°-180°	2494.0	20.3
0°-180°	12256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2914	2914	2914	2914	2914	
5°	2911	2914	2883	2906	2919	276
15°	2781	2784	2767	2808	2822	784
25°	2531	2540	2540	2603	2620	1164
35°	2179	2207	2232	2348	2395	1362
45°	1774	1816	1908	2088	2162	1369
55°	1339	1406	1591	1827	1924	1198
65°	887	1009	1295	1566	1683	878
75°	444	665	1031	1322	1444	474
85°	100	402	807	1101	1217	114
90°	3	316	712	998	1112	8
95°	14	261	629	901	1012	15
105°	50	211	496	738	834	53
115°	100	202	413	602	682	98
125°	144	211	360	496	557	129
135°	183	225	324	416	455	140
145°	194	222	294	358	380	122
155°	197	230	252	305	322	93
165°	233	247	238	238	269	65
175°	258	255	244	202	136	24
180°	225	225	225	225	225	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	2919.4	2916.7	2922.2	2927.7	2944.4	2922.2	2933.3	2902.8	2905.6	2908.3	2894.5
5°	2911.1	2902.8	2911.1	2916.7	2930.5	2913.9	2925.0	2891.7	2894.5	2900.0	2883.4
7.5°	2891.7	2883.4	2888.9	2894.5	2908.3	2891.7	2905.6	2872.3	2877.8	2880.6	2866.8
10°	2864.0	2852.9	2858.4	2866.8	2877.8	2864.0	2875.1	2844.6	2847.3	2852.9	2839.0
12.5°	2827.9	2816.8	2822.4	2827.9	2841.8	2827.9	2839.0	2808.5	2814.1	2819.6	2805.8
15°	2780.8	2769.7	2775.3	2780.8	2791.9	2783.6	2794.7	2764.2	2769.7	2780.8	2766.9
17.5°	2730.9	2714.3	2719.8	2728.1	2739.2	2733.7	2742.0	2717.0	2719.8	2730.9	2717.0
20°	2669.9	2653.3	2658.8	2667.1	2678.2	2675.4	2681.0	2658.8	2664.4	2678.2	2664.4
22.5°	2603.4	2586.7	2592.3	2603.4	2611.7	2611.7	2614.5	2597.8	2603.4	2617.2	2606.1
25°	2531.3	2514.6	2520.2	2531.3	2539.6	2539.6	2545.1	2528.5	2536.8	2550.7	2539.6
27.5°	2448.1	2439.8	2439.8	2450.9	2456.4	2462.0	2464.7	2450.9	2462.0	2475.8	2467.5
30°	2362.2	2351.1	2356.6	2370.5	2370.5	2381.6	2381.6	2370.5	2384.3	2401.0	2395.4
32.5°	2270.7	2262.3	2265.1	2281.8	2281.8	2295.6	2292.8	2287.3	2301.2	2320.6	2315.0
35°	2179.2	2170.9	2173.6	2190.3	2190.3	2206.9	2201.4	2201.4	2215.2	2237.4	2231.9
37.5°	2082.1	2076.6	2079.4	2096.0	2096.0	2112.6	2107.1	2109.9	2126.5	2151.4	2148.7
40°	1982.3	1976.8	1982.3	1996.2	2001.7	2015.6	2010.1	2015.6	2037.8	2060.0	2068.3
42.5°	1879.7	1877.0	1882.5	1896.4	1901.9	1915.8	1913.0	1921.3	1943.5	1976.8	1987.9
45°	1774.4	1774.4	1779.9	1793.8	1799.3	1816.0	1813.2	1824.3	1852.0	1888.1	1907.5
47.5°	1669.0	1671.8	1674.6	1691.2	1691.2	1718.9	1710.6	1727.3	1763.3	1804.9	1827.1
50°	1560.9	1566.5	1569.2	1583.1	1588.6	1613.6	1608.0	1635.8	1674.6	1718.9	1749.4
52.5°	1452.8	1458.3	1463.9	1475.0	1480.5	1511.0	1505.5	1541.5	1588.6	1635.8	1669.0
55°	1339.1	1350.2	1353.0	1366.8	1375.2	1405.7	1405.7	1447.2	1497.1	1549.8	1591.4
57.5°	1228.2	1239.3	1242.1	1258.7	1269.8	1305.8	1311.4	1358.5	1414.0	1466.6	1516.6
60°	1114.5	1128.4	1131.2	1147.8	1167.2	1206.0	1214.3	1267.0	1328.0	1383.5	1441.7
62.5°	1000.9	1014.7	1020.3	1036.9	1067.4	1106.2	1120.1	1181.1	1244.8	1305.8	1369.6
65°	887.2	901.1	909.4	931.6	967.6	1009.2	1028.6	1092.4	1164.4	1228.2	1294.8
67.5°	773.5	790.2	801.2	829.0	876.1	920.5	939.9	1012.0	1086.8	1156.1	1225.4
70°	662.6	679.3	693.1	729.2	784.6	829.0	853.9	931.6	1009.2	1084.0	1161.7
72.5°	554.5	571.1	590.5	634.9	695.9	745.8	773.5	853.9	939.9	1014.7	1095.1
75°	443.6	463.0	485.2	546.2	615.5	665.4	695.9	781.8	870.6	945.4	1031.4
77.5°	343.8	363.2	396.5	457.5	535.1	590.5	623.8	715.3	806.8	881.7	970.4
80°	252.3	271.7	316.1	382.6	463.0	515.7	557.3	651.5	745.8	823.4	912.1
82.5°	171.9	191.3	244.0	316.1	402.0	454.7	493.5	593.3	687.6	768.0	856.7
85°	99.8	127.5	183.0	260.6	349.3	402.0	440.8	543.4	634.9	715.3	806.8
87.5°	44.4	77.6	138.6	216.3	305.0	354.9	396.5	490.7	587.8	668.2	759.7
90°	2.8	44.4	108.1	183.0	268.9	316.1	354.9	449.1	540.6	623.8	712.5
92.5°	5.5	30.5	88.7	158.0	238.4	285.6	324.4	413.1	499.0	585.0	670.9
95°	13.9	30.5	77.6	141.4	216.3	260.6	296.7	382.6	463.0	546.2	629.4
97.5°	22.2	33.3	74.9	133.1	199.6	241.2	274.5	354.9	435.3	510.1	593.3
100°	30.5	41.6	74.9	127.5	188.5	227.3	257.8	332.7	407.6	476.9	560.0
102.5°	38.8	49.9	80.4	127.5	183.0	216.3	246.8	316.1	385.4	449.1	526.8
105°	49.9	58.2	85.9	127.5	177.4	210.7	235.7	299.4	366.0	427.0	496.3
107.5°	61.0	66.5	91.5	130.3	177.4	205.2	230.1	288.3	349.3	404.8	471.3
110°	74.9	77.6	99.8	135.9	177.4	202.4	224.6	280.0	335.5	388.1	449.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	85.9	85.9	108.1	141.4	177.4	202.4	221.8	271.7	324.4	371.5	429.7
115°	99.8	99.8	116.4	146.9	180.2	202.4	221.8	268.9	316.1	357.7	413.1
117.5°	110.9	110.9	127.5	152.5	185.8	205.2	221.8	263.4	307.7	346.6	396.5
120°	122.0	122.0	133.1	158.0	188.5	207.9	221.8	260.6	299.4	338.2	382.6
122.5°	133.1	133.1	141.4	166.3	191.3	207.9	221.8	257.8	293.9	327.2	368.7
125°	144.2	144.2	149.7	171.9	196.8	210.7	224.6	257.8	291.1	318.8	360.4
127.5°	155.3	152.5	160.8	180.2	199.6	213.5	227.3	257.8	285.6	313.3	349.3
130°	163.6	160.8	171.9	185.8	205.2	216.3	227.3	255.1	282.8	307.7	338.2
132.5°	174.7	169.1	183.0	188.5	210.7	221.8	230.1	255.1	280.0	302.2	332.7
135°	183.0	177.4	191.3	196.8	213.5	224.6	232.9	255.1	277.2	299.4	324.4
137.5°	188.5	185.8	199.6	205.2	216.3	227.3	235.7	255.1	274.5	293.9	318.8
140°	191.3	188.5	199.6	210.7	216.3	227.3	232.9	252.3	271.7	288.3	310.5
142.5°	194.1	194.1	202.4	213.5	216.3	224.6	232.9	249.5	266.2	280.0	305.0
145°	194.1	194.1	202.4	216.3	219.0	221.8	227.3	244.0	257.8	271.7	293.9
147.5°	194.1	194.1	205.2	216.3	221.8	224.6	221.8	238.4	252.3	263.4	282.8
150°	194.1	194.1	205.2	216.3	224.6	227.3	224.6	232.9	244.0	255.1	271.7
152.5°	196.8	196.8	205.2	216.3	224.6	227.3	227.3	227.3	235.7	246.8	263.4
155°	196.8	199.6	205.2	221.8	227.3	230.1	230.1	230.1	227.3	238.4	252.3
157.5°	205.2	207.9	210.7	224.6	230.1	232.9	232.9	232.9	230.1	227.3	241.2
160°	213.5	216.3	219.0	230.1	235.7	238.4	238.4	238.4	232.9	230.1	230.1
162.5°	221.8	227.3	227.3	232.9	238.4	241.2	241.2	244.0	238.4	235.7	232.9
165°	232.9	235.7	235.7	238.4	244.0	246.8	244.0	246.8	244.0	241.2	238.4
167.5°	241.2	244.0	244.0	246.8	246.8	249.5	249.5	249.5	246.8	244.0	244.0
170°	249.5	252.3	252.3	252.3	252.3	252.3	252.3	252.3	249.5	244.0	244.0
172.5°	255.1	257.8	257.8	255.1	255.1	255.1	255.1	252.3	246.8	244.0	244.0
175°	257.8	260.6	260.6	257.8	255.1	255.1	255.1	252.3	246.8	244.0	244.0
177.5°	260.6	263.4	260.6	260.6	255.1	255.1	255.1	255.1	249.5	246.8	244.0
180°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	2911.1	2877.8	2900.0	2902.8	2913.9	2902.8	2911.1	2902.8	2925.0	2916.7
5°	2900.0	2869.5	2888.9	2891.7	2905.6	2891.7	2905.6	2900.0	2927.7	2919.4
7.5°	2880.6	2855.7	2872.3	2875.1	2891.7	2877.8	2891.7	2886.2	2919.4	2908.3
10°	2852.9	2833.5	2850.1	2852.9	2869.5	2855.7	2866.8	2861.2	2897.2	2880.6
12.5°	2822.4	2805.8	2819.6	2822.4	2841.8	2827.9	2841.8	2836.3	2872.3	2855.7
15°	2778.0	2769.7	2783.6	2789.1	2808.5	2797.4	2811.3	2805.8	2844.6	2822.4
17.5°	2733.7	2728.1	2742.0	2747.5	2769.7	2755.9	2769.7	2764.2	2803.0	2780.8
20°	2678.2	2675.4	2689.3	2697.6	2717.0	2703.2	2719.8	2714.3	2755.9	2733.7
22.5°	2620.0	2620.0	2631.1	2639.4	2658.8	2647.7	2664.4	2661.6	2703.2	2681.0
25°	2556.2	2559.0	2570.1	2581.2	2603.4	2595.0	2608.9	2608.9	2647.7	2620.0
27.5°	2484.1	2498.0	2506.3	2520.2	2539.6	2531.3	2545.1	2547.9	2586.7	2559.0
30°	2409.3	2428.7	2437.0	2453.7	2470.3	2470.3	2484.1	2489.7	2528.5	2500.8
32.5°	2331.7	2353.8	2364.9	2387.1	2409.3	2409.3	2428.7	2437.0	2475.8	2450.9
35°	2254.0	2284.5	2298.4	2326.1	2348.3	2351.1	2370.5	2381.6	2420.4	2395.4
37.5°	2179.2	2218.0	2231.9	2265.1	2284.5	2290.1	2312.3	2326.1	2362.2	2340.0
40°	2101.5	2148.7	2165.3	2201.4	2218.0	2229.1	2251.3	2267.9	2301.2	2281.8
42.5°	2026.7	2079.4	2096.0	2134.8	2154.2	2165.3	2187.5	2209.7	2242.9	2223.5
45°	1951.8	2010.1	2029.5	2071.0	2087.7	2104.3	2129.3	2148.7	2179.2	2162.5
47.5°	1879.7	1940.7	1960.1	2004.5	2023.9	2043.3	2065.5	2093.2	2121.0	2104.3
50°	1804.9	1868.7	1893.6	1940.7	1957.4	1979.6	2007.3	2032.2	2060.0	2046.1
52.5°	1732.8	1799.3	1824.3	1874.2	1893.6	1915.8	1943.5	1971.2	1996.2	1985.1
55°	1655.2	1727.3	1755.0	1807.7	1827.1	1849.2	1879.7	1910.2	1932.4	1924.1
57.5°	1583.1	1657.9	1685.7	1743.9	1760.5	1788.3	1818.8	1852.0	1871.4	1863.1
60°	1511.0	1585.9	1619.1	1677.4	1696.8	1724.5	1755.0	1791.0	1807.7	1802.1
62.5°	1438.9	1516.6	1552.6	1613.6	1630.2	1660.7	1696.8	1727.3	1743.9	1741.1
65°	1372.4	1447.2	1488.8	1549.8	1566.5	1599.7	1633.0	1666.3	1682.9	1682.9
67.5°	1303.1	1383.5	1425.1	1488.8	1502.7	1538.7	1574.8	1608.0	1621.9	1621.9
70°	1239.3	1316.9	1364.1	1427.8	1441.7	1475.0	1513.8	1549.8	1560.9	1563.7
72.5°	1175.5	1253.2	1303.1	1369.6	1383.5	1416.7	1452.8	1491.6	1499.9	1502.7
75°	1114.5	1192.2	1242.1	1308.6	1322.5	1355.7	1394.6	1430.6	1441.7	1444.5
77.5°	1053.5	1131.2	1186.6	1250.4	1264.3	1297.5	1336.3	1372.4	1380.7	1386.2
80°	998.1	1073.0	1125.6	1194.9	1208.8	1242.1	1278.1	1314.2	1319.7	1328.0
82.5°	942.6	1017.5	1073.0	1139.5	1153.4	1186.6	1222.7	1258.7	1264.3	1275.3
85°	890.0	964.8	1020.3	1084.0	1100.7	1131.2	1170.0	1203.3	1208.8	1217.1
87.5°	842.8	912.1	970.4	1031.4	1048.0	1078.5	1117.3	1150.6	1153.4	1164.4
90°	792.9	862.2	920.5	981.5	998.1	1025.8	1064.6	1097.9	1103.4	1111.8
92.5°	751.3	815.1	876.1	934.3	948.2	978.7	1014.7	1048.0	1053.5	1061.9
95°	707.0	770.8	831.7	887.2	901.1	931.6	964.8	998.1	1003.6	1012.0
97.5°	668.2	729.2	787.4	842.8	856.7	884.4	920.5	951.0	956.5	967.6
100°	632.1	690.3	751.3	801.2	815.1	842.8	876.1	906.6	912.1	923.2
102.5°	598.9	654.3	712.5	759.7	776.3	801.2	834.5	862.2	867.8	876.1
105°	568.4	621.0	676.5	720.8	737.5	762.4	792.9	820.7	826.2	834.5
107.5°	537.9	587.8	640.4	684.8	698.7	720.8	751.3	779.1	784.6	795.7
110°	510.1	560.0	609.9	651.5	668.2	684.8	715.3	740.3	745.8	754.1





TEST NUMBER: P895511  
 CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	485.2	529.5	579.4	618.3	632.1	651.5	676.5	701.4	707.0	718.1
115°	463.0	504.6	554.5	590.5	601.6	618.3	646.0	668.2	673.7	682.0
117.5°	443.6	479.6	524.0	560.0	573.9	587.8	612.7	632.1	640.4	646.0
120°	427.0	460.2	499.0	532.3	549.0	560.0	582.2	601.6	609.9	615.5
122.5°	410.3	440.8	476.9	507.4	521.2	529.5	554.5	571.1	579.4	587.8
125°	396.5	424.2	457.5	482.4	496.3	504.6	526.8	543.4	551.7	557.3
127.5°	382.6	407.6	440.8	460.2	474.1	479.6	499.0	515.7	524.0	526.8
130°	368.7	393.7	421.4	440.8	451.9	460.2	476.9	488.0	496.3	499.0
132.5°	357.7	379.8	404.8	424.2	435.3	438.1	454.7	465.8	474.1	476.9
135°	349.3	366.0	390.9	407.6	415.9	421.4	435.3	443.6	451.9	454.7
137.5°	338.2	354.9	377.1	388.1	399.2	402.0	415.9	424.2	432.5	435.3
140°	329.9	343.8	363.2	374.3	385.4	385.4	396.5	404.8	413.1	413.1
142.5°	321.6	335.5	352.1	363.2	371.5	371.5	382.6	388.1	396.5	396.5
145°	310.5	324.4	341.0	349.3	357.7	357.7	366.0	371.5	379.8	379.8
147.5°	299.4	313.3	329.9	335.5	343.8	343.8	352.1	357.7	363.2	363.2
150°	285.6	296.7	316.1	324.4	332.7	332.7	338.2	343.8	349.3	349.3
152.5°	274.5	282.8	299.4	310.5	318.8	318.8	324.4	329.9	335.5	335.5
155°	260.6	268.9	282.8	296.7	305.0	307.7	313.3	316.1	321.6	321.6
157.5°	249.5	257.8	268.9	280.0	288.3	293.9	302.2	305.0	307.7	307.7
160°	235.7	241.2	252.3	263.4	271.7	277.2	291.1	293.9	296.7	296.7
162.5°	230.1	230.1	235.7	244.0	252.3	255.1	268.9	280.0	285.6	282.8
165°	232.9	230.1	230.1	232.9	238.4	241.2	249.5	266.2	271.7	268.9
167.5°	238.4	232.9	230.1	230.1	235.7	235.7	244.0	257.8	274.5	268.9
170°	238.4	230.1	224.6	224.6	227.3	227.3	232.9	241.2	257.8	260.6
172.5°	235.7	230.1	221.8	210.7	213.5	210.7	207.9	213.5	216.3	244.0
175°	238.4	230.1	221.8	207.9	202.4	194.1	180.2	169.1	166.3	135.9
177.5°	235.7	227.3	216.3	205.2	199.6	188.5	171.9	152.5	141.4	124.8
180°	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6



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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	15.07	16.38	15.71	17.05	17.82	18.69	20.00	19.34	20.67	21.44
	3H	16.42	17.62	17.07	18.29	19.09	21.65	22.85	22.30	23.52	24.32
	4H	16.82	17.96	17.49	18.65	19.46	23.16	24.30	23.83	24.98	25.80
	6H	17.04	18.10	17.72	18.79	19.62	24.77	25.83	25.45	26.52	27.35
	8H	17.07	18.09	17.77	18.81	19.64	25.62	26.64	26.31	27.35	28.19
	12H	17.07	18.05	17.78	18.76	19.62	26.56	27.54	27.27	28.25	29.11
4H	2H	16.23	17.37	16.90	18.05	18.87	19.01	20.15	19.69	20.84	21.65
	3H	17.87	18.85	18.56	19.57	20.40	22.19	23.17	22.88	23.89	24.73
	4H	18.44	19.34	19.14	20.06	20.92	23.87	24.77	24.58	25.50	26.36
	6H	18.78	19.57	19.50	20.32	21.19	25.69	26.49	26.41	27.24	28.11
	8H	18.85	19.60	19.58	20.35	21.23	26.67	27.42	27.39	28.17	29.05
	12H	18.88	19.56	19.63	20.33	21.22	27.75	28.44	28.50	29.21	30.10
8H	4H	19.54	20.30	20.27	21.04	21.93	24.04	24.80	24.77	25.54	26.43
	6H	20.15	20.79	20.91	21.58	22.47	26.04	26.68	26.79	27.47	28.35
	8H	20.35	20.93	21.11	21.71	22.61	27.16	27.74	27.92	28.52	29.42
	12H	20.46	20.98	21.23	21.76	22.71	28.44	28.95	29.21	29.73	30.69
12H	4H	19.91	20.59	20.66	21.36	22.25	24.04	24.72	24.79	25.49	26.38
	6H	20.69	21.27	21.45	22.05	22.95	26.07	26.65	26.83	27.44	28.33
	8H	21.02	21.53	21.79	22.31	23.27	27.25	27.77	28.02	28.55	29.50