

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: P895261

Luminaire Tested: 8TMB-8SL-RND-UNV-L830

Issue Date: 11/11/2024

**Test Information**

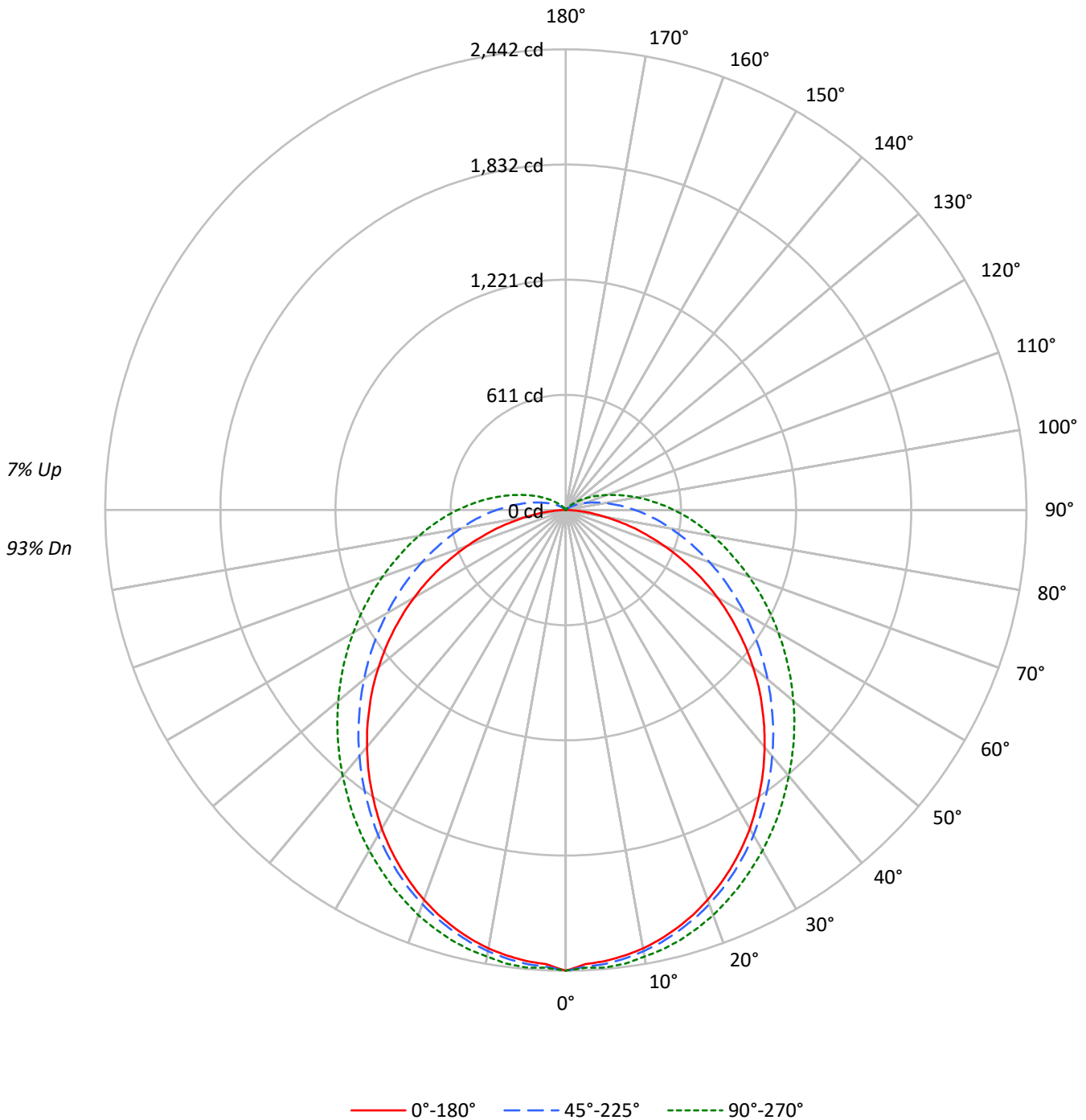
Test Method: LM-79-2019  
Report Number: P895261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-RND-UNV-L830  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8083.0 lumens  
Efficiency: N/A  
Efficacy: 135.6 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): 59.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 3.8  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P895261  
CATALOG NUMBER: 8TMB-8SL-RND-UNV-L830

### 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°	8663	8663	8663
5°	8547	8601	8669
10°	8501	8556	8660
15°	8414	8485	8660
20°	8303	8397	8628
25°	8160	8280	8579
30°	7992	8156	8540
35°	7795	8011	8524
40°	7592	7885	8522
45°	7382	7775	8580
50°	7150	7709	8690
55°	6890	7694	8899
60°	6589	7768	9233
65°	6224	7972	9784
70°	5768	8424	10723
75°	5212	9377	12441
80°	4411	11555	16162
85°	3578	18820	27691

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 50978 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.9	2.9
10°-20°	657.9	8.1
20°-30°	985.1	12.2
30°-40°	1174.6	14.5
40°-50°	1218.2	15.1
50°-60°	1130.2	14.0
60°-70°	942.9	11.7
70°-80°	703.0	8.7
80°-90°	468.1	5.8
90°-100°	285.0	3.5
100°-110°	159.1	2.0
110°-120°	79.5	1.0
120°-130°	33.2	0.4
130°-140°	10.5	0.1
140°-150°	2.6	0.0
150°-160°	1.1	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	1874.0	23.2
0°-40°	3048.6	37.7
0°-60°	5397.1	66.8
0°-90°	7511.0	92.9
90°-120°	523.5	6.5
90°-150°	569.8	7.0
90°-180°	572.0	7.1
0°-180°	8083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2400	2455	2415	2428	2434	228
15°	2291	2350	2310	2352	2358	646
25°	2084	2140	2115	2174	2191	960
35°	1800	1848	1849	1941	1968	1126
45°	1471	1509	1549	1672	1710	1135
55°	1114	1152	1244	1389	1439	996
65°	741	800	950	1110	1165	734
75°	380	485	684	850	908	402
85°	88	241	462	621	680	99
90°	4	159	367	518	573	7
95°	0	97	283	424	474	0
105°	0	31	155	262	302	0
115°	2	8	73	147	176	2
125°	2	2	29	71	88	2
135°	2	2	8	25	32	1
145°	2	2	2	6	8	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	



TEST NUMBER: P895261  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2409.2	2413.0	2447.4	2445.5	2439.8	2462.7	2468.4	2449.3	2418.7	2449.3	2422.6
5°	2399.6	2403.5	2437.8	2435.9	2430.2	2455.0	2456.9	2439.8	2409.2	2439.8	2414.9
7.5°	2382.4	2386.3	2420.6	2418.7	2414.9	2439.8	2437.8	2424.5	2392.0	2424.5	2397.7
10°	2359.5	2361.4	2397.7	2393.9	2392.0	2416.8	2411.1	2399.6	2367.2	2399.6	2374.8
12.5°	2328.9	2330.9	2367.2	2363.3	2363.3	2386.3	2378.6	2369.1	2336.6	2367.2	2346.1
15°	2290.7	2292.6	2327.0	2325.1	2325.1	2350.0	2338.5	2330.9	2300.3	2332.8	2309.8
17.5°	2248.7	2246.8	2283.1	2279.3	2283.1	2306.0	2290.7	2286.9	2258.3	2288.8	2269.7
20°	2199.0	2199.0	2231.5	2229.6	2235.3	2256.3	2237.2	2239.1	2210.5	2243.0	2223.9
22.5°	2143.6	2141.7	2174.2	2174.2	2179.9	2200.9	2179.9	2185.7	2157.0	2187.6	2172.3
25°	2084.4	2080.6	2113.1	2113.1	2122.6	2139.8	2116.9	2124.5	2097.8	2128.3	2115.0
27.5°	2019.4	2013.7	2046.2	2048.1	2055.7	2072.9	2048.1	2059.6	2034.7	2063.4	2053.8
30°	1950.7	1944.9	1977.4	1979.3	1988.9	2002.2	1977.4	1992.7	1969.8	1998.4	1990.8
32.5°	1876.1	1872.3	1902.9	1906.7	1916.3	1925.8	1902.9	1918.2	1899.1	1927.7	1920.1
35°	1799.7	1795.9	1824.6	1830.3	1839.8	1847.5	1822.6	1843.7	1826.5	1853.2	1849.4
37.5°	1721.4	1715.7	1746.2	1750.0	1761.5	1765.3	1742.4	1767.2	1752.0	1778.7	1776.8
40°	1639.2	1633.5	1664.1	1667.9	1679.4	1679.4	1660.3	1687.0	1675.5	1700.4	1702.3
42.5°	1557.1	1551.4	1578.1	1585.7	1595.3	1595.3	1576.2	1604.8	1597.2	1622.0	1627.8
45°	1471.1	1465.4	1490.2	1497.9	1509.3	1509.3	1490.2	1522.7	1517.0	1541.8	1549.4
47.5°	1387.0	1379.4	1402.3	1410.0	1421.4	1419.5	1404.2	1436.7	1434.8	1459.6	1473.0
50°	1295.3	1289.6	1312.5	1320.2	1333.6	1329.7	1318.3	1352.7	1352.7	1377.5	1396.6
52.5°	1205.5	1199.8	1222.7	1230.4	1241.8	1241.8	1230.4	1266.7	1272.4	1297.3	1320.2
55°	1113.8	1106.2	1129.1	1136.8	1150.1	1152.1	1142.5	1178.8	1190.3	1218.9	1243.8
57.5°	1022.1	1018.3	1037.4	1045.1	1062.3	1062.3	1056.5	1094.7	1110.0	1140.6	1169.2
60°	928.5	924.7	941.9	951.4	970.6	974.4	970.6	1010.7	1031.7	1062.3	1094.7
62.5°	834.9	831.1	848.3	861.7	882.7	886.5	888.4	930.4	953.4	985.8	1022.1
65°	741.3	737.5	754.7	769.9	794.8	800.5	806.2	850.2	876.9	911.3	949.5
67.5°	647.7	645.8	663.0	682.1	708.8	716.5	726.0	771.9	802.4	838.7	880.8
70°	556.0	554.1	571.2	594.2	626.7	636.2	647.7	693.5	731.7	769.9	812.0
72.5°	464.3	466.2	485.3	512.0	548.3	557.9	573.2	620.9	663.0	703.1	747.0
75°	380.2	380.2	401.2	431.8	471.9	485.3	502.5	552.1	596.1	638.1	684.0
77.5°	294.2	294.2	319.1	357.3	401.2	414.6	435.6	487.2	534.9	577.0	622.8
80°	215.9	219.7	248.4	286.6	332.4	349.6	374.5	426.0	477.6	519.7	565.5
82.5°	147.1	152.8	183.4	227.4	273.2	290.4	315.2	370.6	422.2	466.2	513.9
85°	87.9	97.4	129.9	173.9	221.6	240.7	267.5	319.1	370.6	414.6	462.3
87.5°	40.1	53.5	87.9	131.8	177.7	198.7	221.6	271.3	322.9	366.8	416.5
90°	3.8	22.9	57.3	95.5	139.5	158.6	181.5	229.3	278.9	319.1	366.8
92.5°	0.0	9.6	34.4	68.8	107.0	126.1	147.1	193.0	236.9	277.0	322.9
95°	0.0	3.8	19.1	47.8	80.2	97.4	116.5	158.6	202.5	240.7	282.8
97.5°	0.0	1.9	11.5	32.5	59.2	74.5	91.7	129.9	170.0	206.3	244.5
100°	0.0	1.9	5.7	21.0	43.9	55.4	72.6	105.1	141.4	173.9	212.1
102.5°	0.0	0.0	3.8	13.4	32.5	42.0	55.4	84.1	116.5	147.1	181.5
105°	0.0	0.0	1.9	9.6	22.9	30.6	42.0	66.9	95.5	122.3	154.8
107.5°	0.0	0.0	1.9	5.7	15.3	22.9	32.5	51.6	76.4	101.3	129.9
110°	1.9	1.9	1.9	3.8	11.5	17.2	22.9	40.1	63.0	84.1	108.9



TEST NUMBER: P895261  
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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.9	1.9	1.9	1.9	7.6	11.5	17.2	30.6	49.7	66.9	89.8
115°	1.9	1.9	1.9	1.9	5.7	7.6	11.5	22.9	38.2	53.5	72.6
117.5°	1.9	1.9	1.9	1.9	3.8	5.7	7.6	17.2	28.7	42.0	59.2
120°	1.9	1.9	1.9	1.9	1.9	3.8	5.7	11.5	22.9	32.5	47.8
122.5°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	9.6	17.2	24.8	36.3
125°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	11.5	19.1	28.7
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	7.6	13.4	21.0
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	9.6	15.3
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	7.6	11.5
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	7.6
137.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7
140°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8
145°	1.9	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
150°	1.9	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
152.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
155°	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
157.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9
160°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9
162.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9
165°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9
167.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9
170°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
172.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9
175°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
177.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
180°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2430.2	2435.9	2441.7	2426.4	2435.9	2453.1	2458.9	2435.9	2443.6	2428.3
5°	2422.6	2426.4	2434.0	2414.9	2428.3	2443.6	2453.1	2434.0	2445.5	2434.0
7.5°	2407.3	2411.1	2420.6	2401.5	2418.7	2432.1	2443.6	2424.5	2435.9	2424.5
10°	2384.3	2390.1	2403.5	2380.5	2401.5	2413.0	2424.5	2403.5	2414.9	2403.5
12.5°	2355.7	2365.2	2376.7	2355.7	2376.7	2386.3	2401.5	2380.5	2393.9	2384.3
15°	2321.3	2330.9	2346.1	2325.1	2351.9	2359.5	2374.8	2353.8	2367.2	2357.6
17.5°	2281.2	2292.6	2311.7	2286.9	2317.5	2323.2	2338.5	2319.4	2332.8	2323.2
20°	2235.3	2246.8	2265.9	2243.0	2273.5	2277.4	2294.6	2277.4	2290.7	2285.0
22.5°	2181.8	2195.2	2214.3	2193.3	2225.8	2225.8	2246.8	2229.6	2244.9	2239.1
25°	2126.4	2141.7	2162.7	2139.8	2174.2	2174.2	2197.1	2179.9	2195.2	2191.4
27.5°	2067.2	2084.4	2109.2	2086.3	2120.7	2118.8	2141.7	2126.4	2143.6	2137.9
30°	2004.2	2023.3	2048.1	2029.0	2065.3	2061.5	2084.4	2071.0	2086.3	2084.4
32.5°	1935.4	1956.4	1987.0	1965.9	2002.2	1998.4	2027.1	2011.8	2030.9	2027.1
35°	1866.6	1889.5	1920.1	1901.0	1941.1	1935.4	1964.0	1950.7	1969.8	1967.9
37.5°	1795.9	1820.7	1851.3	1836.0	1874.2	1868.5	1899.1	1887.6	1908.6	1902.9
40°	1723.3	1748.1	1780.6	1767.2	1807.4	1799.7	1832.2	1822.6	1843.7	1839.8
42.5°	1650.7	1677.4	1709.9	1702.3	1740.5	1732.9	1765.3	1757.7	1778.7	1774.9
45°	1576.2	1604.8	1639.2	1631.6	1671.7	1664.1	1696.6	1690.8	1711.8	1709.9
47.5°	1501.7	1532.2	1566.6	1562.8	1601.0	1593.4	1627.8	1622.0	1643.1	1643.1
50°	1425.3	1459.6	1494.0	1492.1	1530.3	1522.7	1553.3	1553.3	1576.2	1574.3
52.5°	1348.8	1385.1	1421.4	1421.4	1459.6	1452.0	1486.4	1484.5	1507.4	1507.4
55°	1276.2	1308.7	1345.0	1352.7	1389.0	1377.5	1413.8	1417.6	1436.7	1438.6
57.5°	1203.6	1238.0	1274.3	1283.9	1318.3	1310.6	1345.0	1348.8	1367.9	1369.9
60°	1131.0	1163.5	1199.8	1213.2	1247.6	1239.9	1274.3	1278.1	1299.2	1301.1
62.5°	1058.4	1090.9	1131.0	1144.4	1176.9	1171.2	1207.5	1211.3	1230.4	1234.2
65°	987.7	1022.1	1060.3	1079.5	1110.0	1102.4	1138.7	1142.5	1163.5	1165.4
67.5°	919.0	953.4	991.6	1012.6	1041.2	1037.4	1071.8	1079.5	1096.6	1100.5
70°	852.1	886.5	926.6	947.6	976.3	974.4	1006.9	1012.6	1031.7	1033.6
72.5°	787.1	821.5	861.7	886.5	911.3	909.4	941.9	949.5	968.6	970.6
75°	724.1	760.4	798.6	825.4	850.2	848.3	880.8	888.4	905.6	907.5
77.5°	664.9	701.2	741.3	768.0	789.1	791.0	819.6	827.3	844.5	850.2
80°	609.5	643.9	682.1	710.7	729.8	733.6	760.4	769.9	783.3	791.0
82.5°	556.0	590.4	628.6	655.3	674.4	678.2	703.1	714.5	727.9	733.6
85°	504.4	538.8	575.1	603.7	620.9	622.8	647.7	659.1	670.6	680.2
87.5°	454.7	489.1	523.5	554.1	569.3	573.2	596.1	607.5	617.1	626.7
90°	405.0	439.4	473.8	502.5	517.8	519.7	544.5	556.0	565.5	573.2
92.5°	359.2	393.6	428.0	456.6	470.0	473.8	494.8	508.2	515.8	523.5
95°	315.2	349.6	380.2	410.8	424.1	429.9	449.0	460.4	470.0	473.8
97.5°	277.0	307.6	336.3	366.8	378.3	384.0	403.1	416.5	424.1	428.0
100°	240.7	269.4	296.1	324.8	336.3	342.0	359.2	370.6	378.3	384.0
102.5°	208.2	235.0	259.8	286.6	298.0	301.9	317.1	328.6	336.3	342.0
105°	179.6	204.4	227.4	252.2	261.7	267.5	280.8	290.4	298.0	301.9
107.5°	152.8	177.7	196.8	219.7	229.3	233.1	246.5	257.9	263.7	265.6
110°	129.9	150.9	170.0	189.1	200.6	204.4	215.9	225.4	231.2	233.1





TEST NUMBER: P895261  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	108.9	128.0	145.2	162.4	171.9	175.8	187.2	196.8	200.6	202.5
115°	89.8	108.9	122.3	139.5	147.1	150.9	160.5	170.0	171.9	175.8
117.5°	72.6	89.8	103.2	116.5	124.2	128.0	135.6	143.3	147.1	149.0
120°	59.2	72.6	84.1	97.4	103.2	107.0	114.6	122.3	124.2	126.1
122.5°	47.8	59.2	68.8	80.2	86.0	89.8	95.5	101.3	103.2	105.1
125°	36.3	47.8	55.4	65.0	70.7	72.6	78.3	84.1	86.0	87.9
127.5°	28.7	36.3	43.9	51.6	55.4	57.3	63.0	66.9	68.8	70.7
130°	21.0	26.7	32.5	40.1	43.9	45.9	49.7	53.5	55.4	55.4
132.5°	15.3	21.0	24.8	30.6	32.5	34.4	38.2	42.0	42.0	43.9
135°	9.6	13.4	17.2	21.0	24.8	24.8	28.7	30.6	32.5	32.5
137.5°	7.6	9.6	11.5	15.3	17.2	19.1	19.1	22.9	22.9	22.9
140°	5.7	7.6	7.6	9.6	11.5	13.4	13.4	15.3	15.3	15.3
142.5°	3.8	5.7	5.7	7.6	7.6	9.6	9.6	9.6	11.5	11.5
145°	3.8	3.8	3.8	5.7	5.7	5.7	5.7	7.6	7.6	7.6
147.5°	1.9	1.9	3.8	3.8	3.8	3.8	3.8	5.7	5.7	5.7
150°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8
152.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
170°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
177.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
180°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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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	17.79	19.33	18.26	19.78	20.27	19.36	20.90	19.83	21.35	21.84
	3H	19.47	20.87	19.95	21.34	21.86	21.99	23.39	22.47	23.86	24.38
	4H	20.06	21.39	20.57	21.88	22.42	23.30	24.63	23.80	25.11	25.65
	6H	20.46	21.70	20.98	22.20	22.76	24.70	25.94	25.22	26.44	27.00
	8H	20.58	21.77	21.11	22.29	22.85	25.45	26.64	25.98	27.16	27.72
	12H	20.65	21.79	21.19	22.31	22.90	26.30	27.44	26.84	27.96	28.55
4H	2H	18.72	20.05	19.22	20.53	21.07	19.91	21.24	20.42	21.73	22.27
	3H	20.70	21.83	21.21	22.36	22.92	22.83	23.96	23.34	24.49	25.05
	4H	21.47	22.51	22.01	23.05	23.65	24.35	25.39	24.89	25.93	26.53
	6H	22.05	22.97	22.61	23.54	24.15	26.00	26.92	26.55	27.48	28.09
	8H	22.23	23.10	22.80	23.66	24.29	26.88	27.74	27.44	28.31	28.93
	12H	22.36	23.15	22.94	23.74	24.37	27.88	28.67	28.46	29.26	29.89
8H	4H	22.35	23.22	22.91	23.78	24.40	24.71	25.58	25.28	26.14	26.77
	6H	23.23	23.97	23.83	24.57	25.20	26.61	27.35	27.21	27.96	28.59
	8H	23.58	24.25	24.19	24.86	25.50	27.70	28.36	28.30	28.98	29.62
	12H	23.85	24.45	24.46	25.05	25.76	28.96	29.56	29.57	30.16	30.87
12H	4H	22.63	23.42	23.21	24.01	24.64	24.76	25.54	25.34	26.14	26.76
	6H	23.68	24.35	24.29	24.96	25.60	26.72	27.39	27.33	28.01	28.65
	8H	24.20	24.79	24.81	25.40	26.11	27.92	28.52	28.53	29.12	29.83