

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: P894440

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

Issue Date: 11/11/2024

**Test Information**

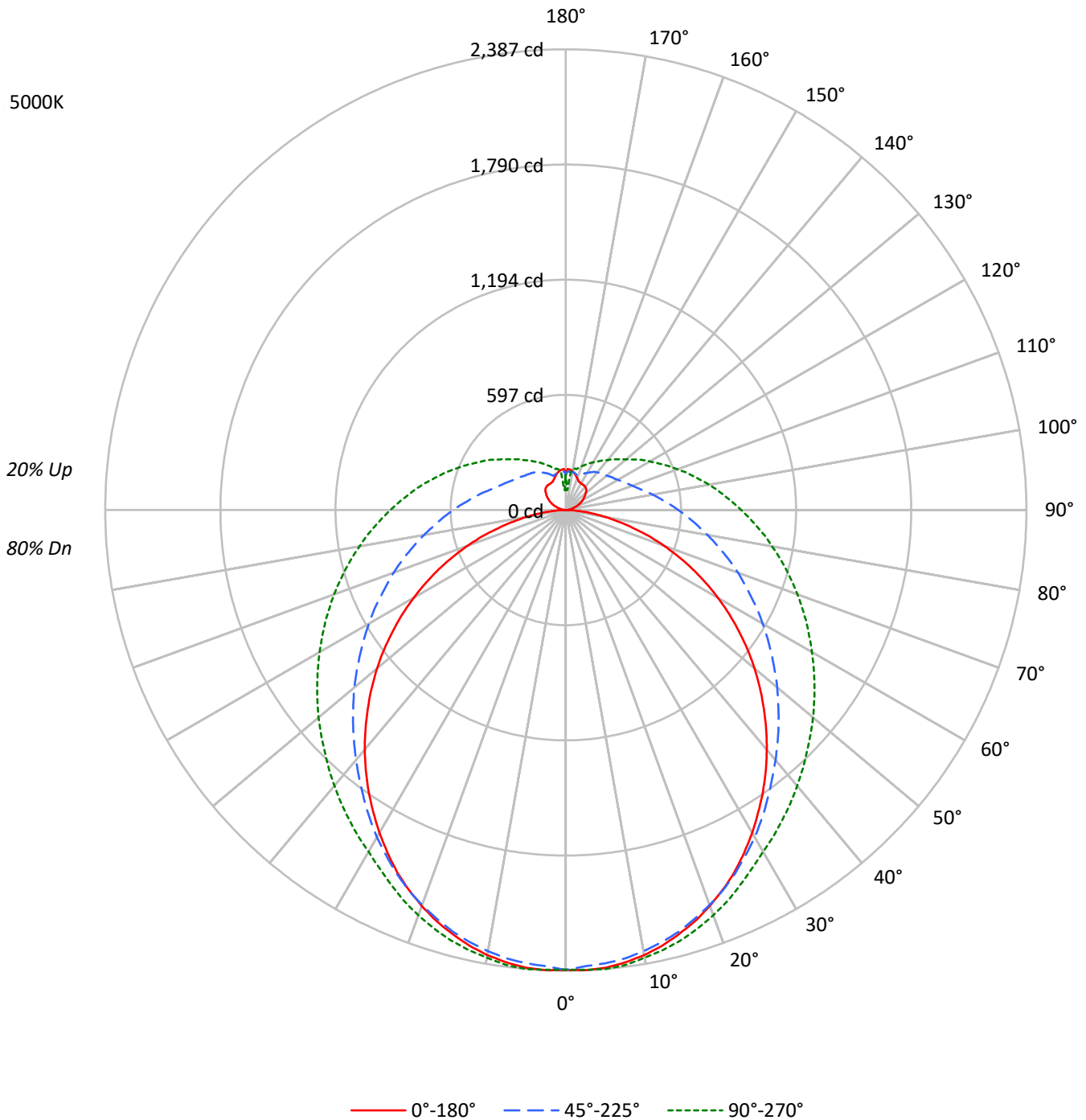
Test Method: LM-79-2019  
Report Number: P894440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-RNDU-UNV-L850  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10019.0 lumens  
Efficiency: N/A  
Efficacy: 143.1 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): 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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8452	8452	8452
5°	8457	8107	8111
10°	8396	7803	7737
15°	8292	7494	7390
20°	8164	7166	7035
25°	8004	6834	6679
30°	7794	6500	6363
35°	7578	6154	6130
40°	7345	5842	5918
45°	7093	5565	5731
50°	6831	5320	5585
55°	6528	5094	5458
60°	6186	4911	5364
65°	5766	4751	5310
70°	5243	4657	5293
75°	4529	4596	5316
80°	3670	4614	5400
85°	2558	4761	5577

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7093 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	2.2
10°-20°	642.6	6.4
20°-30°	964.8	9.6
30°-40°	1160.2	11.6
40°-50°	1229.2	12.3
50°-60°	1183.8	11.8
60°-70°	1047.7	10.5
70°-80°	859.3	8.6
80°-90°	666.8	6.7
90°-100°	517.5	5.2
100°-110°	410.1	4.1
110°-120°	326.7	3.3
120°-130°	259.5	2.6
130°-140°	202.6	2.0
140°-150°	149.1	1.5
150°-160°	98.6	1.0
160°-170°	56.8	0.6
170°-180°	18.2	0.2
0°-30°	1832.8	18.3
0°-40°	2993.0	29.9
0°-60°	5406.0	54.0
0°-90°	7979.8	79.6
90°-120°	1254.3	12.5
90°-150°	1865.6	18.6
90°-180°	2039.0	20.4
0°-180°	10019.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2382	2382	2382	2382	2382	
5°	2380	2382	2357	2375	2387	226
15°	2273	2276	2262	2296	2307	641
25°	2069	2076	2076	2128	2142	952
35°	1781	1804	1824	1920	1958	1114
45°	1450	1484	1559	1707	1768	1119
55°	1095	1149	1301	1494	1573	979
65°	725	825	1058	1280	1376	718
75°	363	544	843	1081	1181	388
85°	82	329	660	900	995	93
90°	2	258	582	816	909	6
95°	11	213	514	737	827	12
105°	41	172	406	603	682	44
115°	82	166	338	492	558	80
125°	118	172	295	406	456	105
135°	150	184	265	340	372	114
145°	159	181	240	292	310	99
155°	161	188	206	249	263	76
165°	190	202	195	195	220	53
175°	211	208	199	166	111	20
180°	184	184	184	184	184	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2386.6	2384.3	2388.8	2393.4	2407.0	2388.8	2397.9	2373.0	2375.2	2377.5	2366.2
5°	2379.8	2373.0	2379.8	2384.3	2395.6	2382.0	2391.1	2363.9	2366.2	2370.7	2357.1
7.5°	2363.9	2357.1	2361.6	2366.2	2377.5	2363.9	2375.2	2348.0	2352.6	2354.8	2343.5
10°	2341.2	2332.2	2336.7	2343.5	2352.6	2341.2	2350.3	2325.4	2327.6	2332.2	2320.8
12.5°	2311.8	2302.7	2307.2	2311.8	2323.1	2311.8	2320.8	2295.9	2300.4	2305.0	2293.6
15°	2273.2	2264.2	2268.7	2273.2	2282.3	2275.5	2284.6	2259.6	2264.2	2273.2	2261.9
17.5°	2232.4	2218.8	2223.4	2230.2	2239.2	2234.7	2241.5	2221.1	2223.4	2232.4	2221.1
20°	2182.6	2169.0	2173.5	2180.3	2189.4	2187.1	2191.7	2173.5	2178.1	2189.4	2178.1
22.5°	2128.2	2114.6	2119.1	2128.2	2135.0	2135.0	2137.3	2123.7	2128.2	2139.5	2130.5
25°	2069.3	2055.7	2060.2	2069.3	2076.1	2076.1	2080.6	2067.0	2073.8	2085.1	2076.1
27.5°	2001.3	1994.5	1994.5	2003.5	2008.1	2012.6	2014.9	2003.5	2012.6	2023.9	2017.1
30°	1931.0	1921.9	1926.5	1937.8	1937.8	1946.9	1946.9	1937.8	1949.1	1962.7	1958.2
32.5°	1856.2	1849.4	1851.7	1865.3	1865.3	1876.6	1874.3	1869.8	1881.1	1897.0	1892.5
35°	1781.4	1774.6	1776.9	1790.5	1790.5	1804.1	1799.6	1799.6	1810.9	1829.0	1824.5
37.5°	1702.1	1697.6	1699.8	1713.4	1713.4	1727.0	1722.5	1724.8	1738.4	1758.8	1756.5
40°	1620.5	1616.0	1620.5	1631.8	1636.4	1647.7	1643.2	1647.7	1665.8	1684.0	1690.8
42.5°	1536.6	1534.4	1538.9	1550.2	1554.8	1566.1	1563.8	1570.6	1588.8	1616.0	1625.0
45°	1450.5	1450.5	1455.1	1466.4	1470.9	1484.5	1482.3	1491.3	1514.0	1543.4	1559.3
47.5°	1364.4	1366.7	1368.9	1382.5	1382.5	1405.2	1398.4	1412.0	1441.5	1475.5	1493.6
50°	1276.0	1280.5	1282.8	1294.1	1298.7	1319.1	1314.5	1337.2	1368.9	1405.2	1430.1
52.5°	1187.6	1192.1	1196.7	1205.7	1210.3	1235.2	1230.7	1260.1	1298.7	1337.2	1364.4
55°	1094.7	1103.8	1106.0	1117.4	1124.2	1149.1	1149.1	1183.1	1223.9	1266.9	1300.9
57.5°	1004.0	1013.1	1015.4	1029.0	1038.0	1067.5	1072.0	1110.6	1155.9	1198.9	1239.7
60°	911.1	922.4	924.7	938.3	954.2	985.9	992.7	1035.8	1085.6	1131.0	1178.6
62.5°	818.2	829.5	834.1	847.7	872.6	904.3	915.6	965.5	1017.6	1067.5	1119.6
65°	725.3	736.6	743.4	761.5	791.0	825.0	840.9	893.0	951.9	1004.0	1058.4
67.5°	632.3	645.9	655.0	677.7	716.2	752.5	768.3	827.3	888.4	945.1	1001.8
70°	541.7	555.3	566.6	596.1	641.4	677.7	698.1	761.5	825.0	886.2	949.6
72.5°	453.3	466.9	482.8	519.0	568.9	609.7	632.3	698.1	768.3	829.5	895.2
75°	362.6	378.5	396.6	446.5	503.2	543.9	568.9	639.1	711.7	772.9	843.1
77.5°	281.0	296.9	324.1	374.0	437.4	482.8	510.0	584.7	659.5	720.7	793.3
80°	206.2	222.1	258.4	312.8	378.5	421.6	455.6	532.6	609.7	673.1	745.7
82.5°	140.5	156.4	199.4	258.4	328.6	371.7	403.4	485.0	562.1	627.8	700.3
85°	81.6	104.3	149.6	213.0	285.6	328.6	360.4	444.2	519.0	584.7	659.5
87.5°	36.3	63.5	113.3	176.8	249.3	290.1	324.1	401.2	480.5	546.2	621.0
90°	2.3	36.3	88.4	149.6	219.8	258.4	290.1	367.2	442.0	510.0	582.5
92.5°	4.5	24.9	72.5	129.2	194.9	233.4	265.2	337.7	408.0	478.2	548.5
95°	11.3	24.9	63.5	115.6	176.8	213.0	242.5	312.8	378.5	446.5	514.5
97.5°	18.1	27.2	61.2	108.8	163.2	197.2	224.4	290.1	355.8	417.0	485.0
100°	24.9	34.0	61.2	104.3	154.1	185.8	210.8	272.0	333.2	389.8	457.8
102.5°	31.7	40.8	65.7	104.3	149.6	176.8	201.7	258.4	315.0	367.2	430.6
105°	40.8	47.6	70.3	104.3	145.1	172.2	192.6	244.8	299.2	349.0	405.7
107.5°	49.9	54.4	74.8	106.5	145.1	167.7	188.1	235.7	285.6	330.9	385.3
110°	61.2	63.5	81.6	111.1	145.1	165.5	183.6	228.9	274.2	317.3	367.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.3	70.3	88.4	115.6	145.1	165.5	181.3	222.1	265.2	303.7	351.3
115°	81.6	81.6	95.2	120.1	147.3	165.5	181.3	219.8	258.4	292.4	337.7
117.5°	90.7	90.7	104.3	124.7	151.9	167.7	181.3	215.3	251.6	283.3	324.1
120°	99.7	99.7	108.8	129.2	154.1	170.0	181.3	213.0	244.8	276.5	312.8
122.5°	108.8	108.8	115.6	136.0	156.4	170.0	181.3	210.8	240.2	267.4	301.4
125°	117.9	117.9	122.4	140.5	160.9	172.2	183.6	210.8	238.0	260.6	294.6
127.5°	126.9	124.7	131.5	147.3	163.2	174.5	185.8	210.8	233.4	256.1	285.6
130°	133.7	131.5	140.5	151.9	167.7	176.8	185.8	208.5	231.2	251.6	276.5
132.5°	142.8	138.3	149.6	154.1	172.2	181.3	188.1	208.5	228.9	247.0	272.0
135°	149.6	145.1	156.4	160.9	174.5	183.6	190.4	208.5	226.6	244.8	265.2
137.5°	154.1	151.9	163.2	167.7	176.8	185.8	192.6	208.5	224.4	240.2	260.6
140°	156.4	154.1	163.2	172.2	176.8	185.8	190.4	206.2	222.1	235.7	253.8
142.5°	158.7	158.7	165.5	174.5	176.8	183.6	190.4	204.0	217.6	228.9	249.3
145°	158.7	158.7	165.5	176.8	179.0	181.3	185.8	199.4	210.8	222.1	240.2
147.5°	158.7	158.7	167.7	176.8	181.3	183.6	181.3	194.9	206.2	215.3	231.2
150°	158.7	158.7	167.7	176.8	183.6	185.8	183.6	190.4	199.4	208.5	222.1
152.5°	160.9	160.9	167.7	176.8	183.6	185.8	185.8	185.8	192.6	201.7	215.3
155°	160.9	163.2	167.7	181.3	185.8	188.1	188.1	188.1	185.8	194.9	206.2
157.5°	167.7	170.0	172.2	183.6	188.1	190.4	190.4	190.4	188.1	185.8	197.2
160°	174.5	176.8	179.0	188.1	192.6	194.9	194.9	194.9	190.4	188.1	188.1
162.5°	181.3	185.8	185.8	190.4	194.9	197.2	197.2	199.4	194.9	192.6	190.4
165°	190.4	192.6	192.6	194.9	199.4	201.7	199.4	201.7	199.4	197.2	194.9
167.5°	197.2	199.4	199.4	201.7	201.7	204.0	204.0	204.0	201.7	199.4	199.4
170°	204.0	206.2	206.2	206.2	206.2	206.2	206.2	206.2	204.0	199.4	199.4
172.5°	208.5	210.8	210.8	208.5	208.5	208.5	208.5	206.2	201.7	199.4	199.4
175°	210.8	213.0	213.0	210.8	208.5	208.5	208.5	206.2	201.7	199.4	199.4
177.5°	213.0	215.3	213.0	213.0	208.5	208.5	208.5	208.5	204.0	201.7	199.4
180°	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2379.8	2352.6	2370.7	2373.0	2382.0	2373.0	2379.8	2373.0	2391.1	2384.3
5°	2370.7	2345.8	2361.6	2363.9	2375.2	2363.9	2375.2	2370.7	2393.4	2386.6
7.5°	2354.8	2334.4	2348.0	2350.3	2363.9	2352.6	2363.9	2359.4	2386.6	2377.5
10°	2332.2	2316.3	2329.9	2332.2	2345.8	2334.4	2343.5	2339.0	2368.4	2354.8
12.5°	2307.2	2293.6	2305.0	2307.2	2323.1	2311.8	2323.1	2318.6	2348.0	2334.4
15°	2271.0	2264.2	2275.5	2280.0	2295.9	2286.8	2298.2	2293.6	2325.4	2307.2
17.5°	2234.7	2230.2	2241.5	2246.0	2264.2	2252.8	2264.2	2259.6	2291.4	2273.2
20°	2189.4	2187.1	2198.5	2205.3	2221.1	2209.8	2223.4	2218.8	2252.8	2234.7
22.5°	2141.8	2141.8	2150.9	2157.7	2173.5	2164.5	2178.1	2175.8	2209.8	2191.7
25°	2089.7	2091.9	2101.0	2110.1	2128.2	2121.4	2132.7	2132.7	2164.5	2141.8
27.5°	2030.7	2042.1	2048.9	2060.2	2076.1	2069.3	2080.6	2082.9	2114.6	2091.9
30°	1969.5	1985.4	1992.2	2005.8	2019.4	2019.4	2030.7	2035.3	2067.0	2044.3
32.5°	1906.1	1924.2	1933.3	1951.4	1969.5	1969.5	1985.4	1992.2	2023.9	2003.5
35°	1842.6	1867.6	1878.9	1901.5	1919.7	1921.9	1937.8	1946.9	1978.6	1958.2
37.5°	1781.4	1813.2	1824.5	1851.7	1867.6	1872.1	1890.2	1901.5	1931.0	1912.9
40°	1718.0	1756.5	1770.1	1799.6	1813.2	1822.2	1840.4	1854.0	1881.1	1865.3
42.5°	1656.8	1699.8	1713.4	1745.2	1761.0	1770.1	1788.2	1806.4	1833.6	1817.7
45°	1595.6	1643.2	1659.0	1693.0	1706.6	1720.2	1740.6	1756.5	1781.4	1767.8
47.5°	1536.6	1586.5	1602.4	1638.6	1654.5	1670.4	1688.5	1711.2	1733.8	1720.2
50°	1475.5	1527.6	1548.0	1586.5	1600.1	1618.2	1640.9	1661.3	1684.0	1672.6
52.5°	1416.5	1470.9	1491.3	1532.1	1548.0	1566.1	1588.8	1611.4	1631.8	1622.8
55°	1353.1	1412.0	1434.7	1477.7	1493.6	1511.7	1536.6	1561.6	1579.7	1572.9
57.5°	1294.1	1355.3	1378.0	1425.6	1439.2	1461.9	1486.8	1514.0	1529.9	1523.1
60°	1235.2	1296.4	1323.6	1371.2	1387.1	1409.7	1434.7	1464.1	1477.7	1473.2
62.5°	1176.3	1239.7	1269.2	1319.1	1332.7	1357.6	1387.1	1412.0	1425.6	1423.3
65°	1121.9	1183.1	1217.1	1266.9	1280.5	1307.7	1334.9	1362.1	1375.7	1375.7
67.5°	1065.2	1131.0	1165.0	1217.1	1228.4	1257.9	1287.3	1314.5	1325.9	1325.9
70°	1013.1	1076.6	1115.1	1167.2	1178.6	1205.7	1237.5	1266.9	1276.0	1278.3
72.5°	961.0	1024.4	1065.2	1119.6	1131.0	1158.2	1187.6	1219.3	1226.1	1228.4
75°	911.1	974.6	1015.4	1069.8	1081.1	1108.3	1140.0	1169.5	1178.6	1180.8
77.5°	861.2	924.7	970.0	1022.2	1033.5	1060.7	1092.4	1121.9	1128.7	1133.2
80°	815.9	877.1	920.2	976.8	988.2	1015.4	1044.8	1074.3	1078.8	1085.6
82.5°	770.6	831.8	877.1	931.5	942.8	970.0	999.5	1029.0	1033.5	1042.6
85°	727.5	788.7	834.1	886.2	899.8	924.7	956.4	983.6	988.2	995.0
87.5°	689.0	745.7	793.3	843.1	856.7	881.6	913.4	940.6	942.8	951.9
90°	648.2	704.9	752.5	802.3	815.9	838.6	870.3	897.5	902.0	908.8
92.5°	614.2	666.3	716.2	763.8	775.1	800.1	829.5	856.7	861.2	868.0
95°	577.9	630.1	679.9	725.3	736.6	761.5	788.7	815.9	820.5	827.3
97.5°	546.2	596.1	643.7	689.0	700.3	723.0	752.5	777.4	781.9	791.0
100°	516.7	564.3	614.2	655.0	666.3	689.0	716.2	741.1	745.7	754.7
102.5°	489.6	534.9	582.5	621.0	634.6	655.0	682.2	704.9	709.4	716.2
105°	464.6	507.7	553.0	589.3	602.9	623.3	648.2	670.9	675.4	682.2
107.5°	439.7	480.5	523.5	559.8	571.1	589.3	614.2	636.9	641.4	650.5
110°	417.0	457.8	498.6	532.6	546.2	559.8	584.7	605.1	609.7	616.5





TEST NUMBER: P894440  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	396.6	432.9	473.7	505.4	516.7	532.6	553.0	573.4	577.9	587.0
115°	378.5	412.5	453.3	482.8	491.8	505.4	528.1	546.2	550.7	557.5
117.5°	362.6	392.1	428.4	457.8	469.2	480.5	500.9	516.7	523.5	528.1
120°	349.0	376.2	408.0	435.2	448.8	457.8	476.0	491.8	498.6	503.2
122.5°	335.4	360.4	389.8	414.8	426.1	432.9	453.3	466.9	473.7	480.5
125°	324.1	346.8	374.0	394.4	405.7	412.5	430.6	444.2	451.0	455.6
127.5°	312.8	333.2	360.4	376.2	387.6	392.1	408.0	421.6	428.4	430.6
130°	301.4	321.8	344.5	360.4	369.4	376.2	389.8	398.9	405.7	408.0
132.5°	292.4	310.5	330.9	346.8	355.8	358.1	371.7	380.8	387.6	389.8
135°	285.6	299.2	319.6	333.2	340.0	344.5	355.8	362.6	369.4	371.7
137.5°	276.5	290.1	308.2	317.3	326.4	328.6	340.0	346.8	353.6	355.8
140°	269.7	281.0	296.9	306.0	315.0	315.0	324.1	330.9	337.7	337.7
142.5°	262.9	274.2	287.8	296.9	303.7	303.7	312.8	317.3	324.1	324.1
145°	253.8	265.2	278.8	285.6	292.4	292.4	299.2	303.7	310.5	310.5
147.5°	244.8	256.1	269.7	274.2	281.0	281.0	287.8	292.4	296.9	296.9
150°	233.4	242.5	258.4	265.2	272.0	272.0	276.5	281.0	285.6	285.6
152.5°	224.4	231.2	244.8	253.8	260.6	260.6	265.2	269.7	274.2	274.2
155°	213.0	219.8	231.2	242.5	249.3	251.6	256.1	258.4	262.9	262.9
157.5°	204.0	210.8	219.8	228.9	235.7	240.2	247.0	249.3	251.6	251.6
160°	192.6	197.2	206.2	215.3	222.1	226.6	238.0	240.2	242.5	242.5
162.5°	188.1	188.1	192.6	199.4	206.2	208.5	219.8	228.9	233.4	231.2
165°	190.4	188.1	188.1	190.4	194.9	197.2	204.0	217.6	222.1	219.8
167.5°	194.9	190.4	188.1	188.1	192.6	192.6	199.4	210.8	224.4	219.8
170°	194.9	188.1	183.6	183.6	185.8	185.8	190.4	197.2	210.8	213.0
172.5°	192.6	188.1	181.3	172.2	174.5	172.2	170.0	174.5	176.8	199.4
175°	194.9	188.1	181.3	170.0	165.5	158.7	147.3	138.3	136.0	111.1
177.5°	192.6	185.8	176.8	167.7	163.2	154.1	140.5	124.7	115.6	102.0
180°	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6	183.6



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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	14.37	15.68	15.01	16.35	17.12	17.99	19.30	18.64	19.97	20.74
	3H	15.72	16.92	16.37	17.59	18.39	20.95	22.15	21.60	22.82	23.62
	4H	16.12	17.26	16.79	17.95	18.76	22.46	23.60	23.13	24.28	25.10
	6H	16.34	17.40	17.02	18.09	18.92	24.07	25.13	24.75	25.82	26.65
	8H	16.37	17.39	17.07	18.11	18.94	24.92	25.93	25.61	26.65	27.49
	12H	16.37	17.35	17.08	18.06	18.92	25.86	26.84	26.57	27.55	28.41
4H	2H	15.53	16.67	16.20	17.35	18.17	18.31	19.45	18.98	20.14	20.95
	3H	17.17	18.15	17.86	18.87	19.70	21.49	22.47	22.18	23.19	24.03
	4H	17.74	18.64	18.44	19.36	20.22	23.17	24.07	23.88	24.80	25.66
	6H	18.08	18.87	18.80	19.62	20.49	24.99	25.79	25.71	26.54	27.41
	8H	18.15	18.90	18.88	19.65	20.53	25.97	26.72	26.69	27.47	28.35
	12H	18.18	18.86	18.92	19.63	20.52	27.05	27.74	27.80	28.51	29.40
8H	4H	18.84	19.59	19.57	20.34	21.23	23.34	24.09	24.07	24.84	25.73
	6H	19.45	20.09	20.21	20.88	21.76	25.34	25.98	26.09	26.77	27.65
	8H	19.65	20.23	20.41	21.01	21.91	26.46	27.04	27.22	27.82	28.72
	12H	19.76	20.28	20.53	21.06	22.01	27.74	28.25	28.51	29.03	29.99
12H	4H	19.21	19.89	19.96	20.66	21.55	23.34	24.02	24.09	24.79	25.68
	6H	19.99	20.57	20.75	21.35	22.25	25.37	25.95	26.13	26.73	27.63
	8H	20.32	20.83	21.09	21.61	22.57	26.55	27.07	27.32	27.85	28.80