

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: P894554

Luminaire Tested: 8TMB-12SL-RNDU-UNV-L935

Issue Date: 11/11/2024

**Test Information**

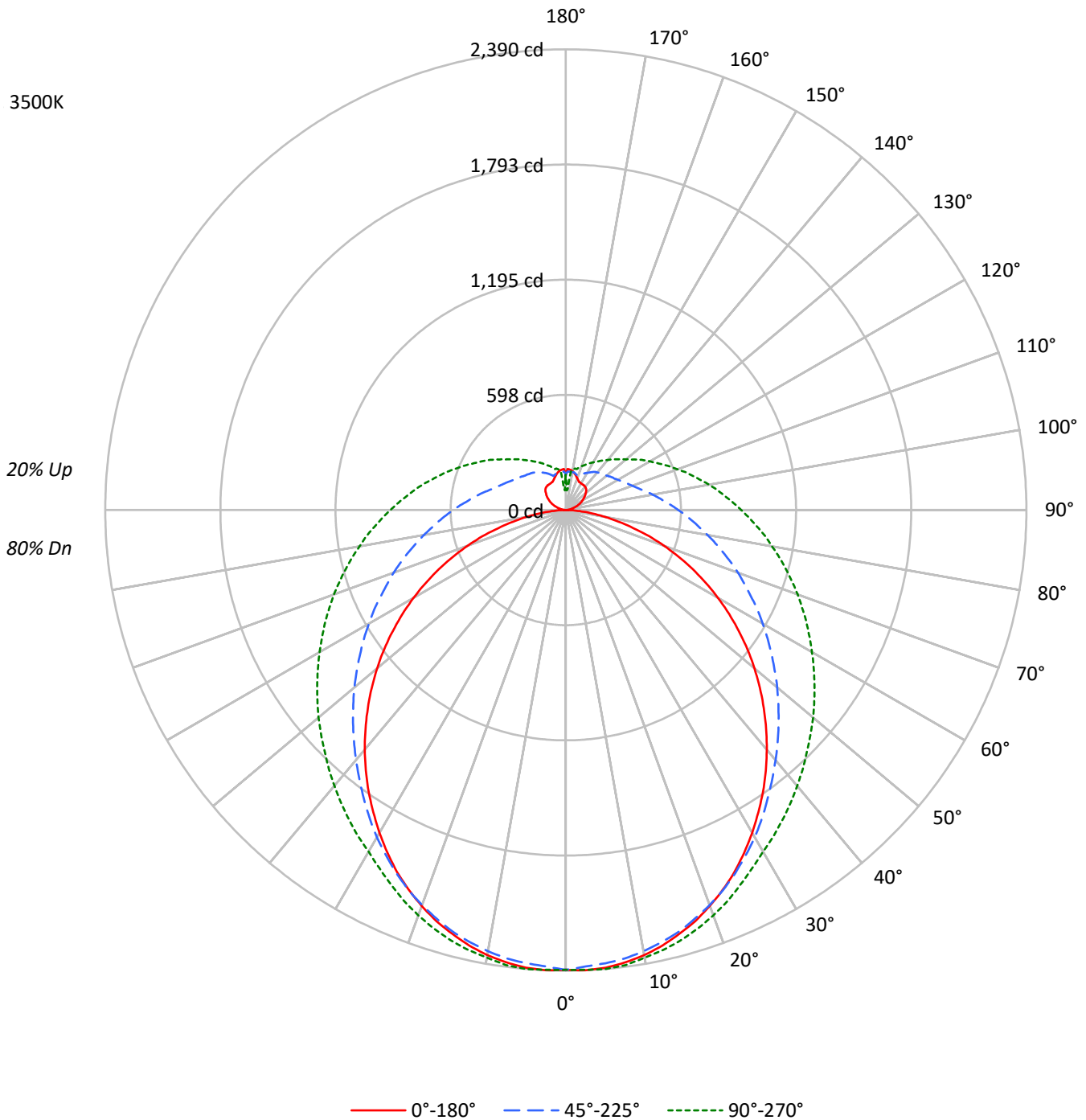
Test Method: LM-79-2019  
Report Number: P894554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-12SL-RNDU-UNV-L935  
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10033.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 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): 88.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.53  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-12SL-RNDU-UNV-L935

### 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
RCR																				
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80		
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	61		
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	49		
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	41		
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	34		
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	29		
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	26		
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	23		
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	20		
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	18		
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	16		

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

	0°	45°	90°
0°	8464	8464	8464
5°	8469	8119	8123
10°	8408	7814	7747
15°	8304	7504	7401
20°	8175	7175	7045
25°	8015	6844	6688
30°	7805	6509	6372
35°	7588	6162	6138
40°	7355	5850	5927
45°	7103	5573	5739
50°	6840	5328	5593
55°	6537	5102	5466
60°	6195	4918	5371
65°	5774	4757	5318
70°	5250	4664	5300
75°	4536	4602	5324
80°	3675	4621	5408
85°	2562	4768	5585

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7103 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.7	2.2
10°-20°	643.5	6.4
20°-30°	966.2	9.6
30°-40°	1161.8	11.6
40°-50°	1231.0	12.3
50°-60°	1185.4	11.8
60°-70°	1049.1	10.5
70°-80°	860.5	8.6
80°-90°	667.7	6.7
90°-100°	518.3	5.2
100°-110°	410.7	4.1
110°-120°	327.1	3.3
120°-130°	259.9	2.6
130°-140°	202.9	2.0
140°-150°	149.3	1.5
150°-160°	98.8	1.0
160°-170°	56.8	0.6
170°-180°	18.3	0.2
0°-30°	1835.4	18.3
0°-40°	2997.2	29.9
0°-60°	5413.6	54.0
0°-90°	7991.0	79.6
90°-120°	1256.1	12.5
90°-150°	1868.2	18.6
90°-180°	2042.0	20.4
0°-180°	10033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2383	2385	2360	2379	2390	226
15°	2276	2279	2265	2299	2310	642
25°	2072	2079	2079	2131	2145	953
35°	1784	1807	1827	1922	1961	1115
45°	1453	1487	1562	1709	1770	1121
55°	1096	1151	1303	1496	1575	981
65°	726	826	1060	1282	1378	719
75°	363	545	844	1083	1182	388
85°	82	329	660	901	996	93
90°	2	259	583	817	910	6
95°	11	213	515	738	828	12
105°	41	172	406	604	683	44
115°	82	166	338	492	558	80
125°	118	172	295	406	456	105
135°	150	184	266	340	372	114
145°	159	182	241	293	311	100
155°	161	188	206	250	263	76
165°	191	202	195	195	220	53
175°	211	209	200	166	111	20
180°	184	184	184	184	184	



TEST NUMBER: P894554  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4
2.5°	2389.9	2387.6	2392.2	2396.7	2410.3	2392.2	2401.2	2376.3	2378.6	2380.8	2369.5
5°	2383.1	2376.3	2383.1	2387.6	2399.0	2385.4	2394.4	2367.2	2369.5	2374.0	2360.4
7.5°	2367.2	2360.4	2364.9	2369.5	2380.8	2367.2	2378.6	2351.3	2355.9	2358.1	2346.8
10°	2344.5	2335.4	2340.0	2346.8	2355.9	2344.5	2353.6	2328.6	2330.9	2335.4	2324.1
12.5°	2315.0	2305.9	2310.5	2315.0	2326.4	2315.0	2324.1	2299.1	2303.7	2308.2	2296.8
15°	2276.4	2267.3	2271.9	2276.4	2285.5	2278.7	2287.8	2262.8	2267.3	2276.4	2265.1
17.5°	2235.6	2221.9	2226.5	2233.3	2242.4	2237.8	2244.6	2224.2	2226.5	2235.6	2224.2
20°	2185.6	2172.0	2176.6	2183.4	2192.4	2190.2	2194.7	2176.6	2181.1	2192.4	2181.1
22.5°	2131.2	2117.5	2122.1	2131.2	2138.0	2138.0	2140.2	2126.6	2131.2	2142.5	2133.4
25°	2072.2	2058.5	2063.1	2072.2	2079.0	2079.0	2083.5	2069.9	2076.7	2088.0	2079.0
27.5°	2004.1	1997.3	1997.3	2006.3	2010.9	2015.4	2017.7	2006.3	2015.4	2026.8	2020.0
30°	1933.7	1924.6	1929.2	1940.5	1940.5	1949.6	1949.6	1940.5	1951.9	1965.5	1960.9
32.5°	1858.8	1852.0	1854.3	1867.9	1867.9	1879.2	1877.0	1872.4	1883.8	1899.7	1895.1
35°	1783.9	1777.1	1779.4	1793.0	1793.0	1806.6	1802.1	1802.1	1813.4	1831.6	1827.0
37.5°	1704.5	1699.9	1702.2	1715.8	1715.8	1729.4	1724.9	1727.2	1740.8	1761.2	1758.9
40°	1622.8	1618.2	1622.8	1634.1	1638.7	1650.0	1645.5	1650.0	1668.2	1686.3	1693.1
42.5°	1538.8	1536.5	1541.1	1552.4	1557.0	1568.3	1566.0	1572.8	1591.0	1618.2	1627.3
45°	1452.6	1452.6	1457.1	1468.4	1473.0	1486.6	1484.3	1493.4	1516.1	1545.6	1561.5
47.5°	1366.3	1368.6	1370.8	1384.5	1384.5	1407.2	1400.4	1414.0	1443.5	1477.5	1495.7
50°	1277.8	1282.3	1284.6	1295.9	1300.5	1320.9	1316.4	1339.1	1370.8	1407.2	1432.1
52.5°	1189.3	1193.8	1198.4	1207.4	1212.0	1236.9	1232.4	1261.9	1300.5	1339.1	1366.3
55°	1096.2	1105.3	1107.6	1118.9	1125.7	1150.7	1150.7	1184.7	1225.6	1268.7	1302.8
57.5°	1005.4	1014.5	1016.8	1030.4	1039.5	1069.0	1073.5	1112.1	1157.5	1200.6	1241.5
60°	912.4	923.7	926.0	939.6	955.5	987.3	994.1	1037.2	1087.1	1132.5	1180.2
62.5°	819.3	830.7	835.2	848.8	873.8	905.6	916.9	966.9	1019.1	1069.0	1121.2
65°	726.3	737.6	744.4	762.6	792.1	826.1	842.0	894.2	953.2	1005.4	1059.9
67.5°	633.2	646.8	655.9	678.6	717.2	753.5	769.4	828.4	889.7	946.4	1003.2
70°	542.4	556.1	567.4	596.9	642.3	678.6	699.0	762.6	826.1	887.4	951.0
72.5°	453.9	467.5	483.4	519.7	569.7	610.5	633.2	699.0	769.4	830.7	896.5
75°	363.1	379.0	397.2	447.1	503.9	544.7	569.7	640.0	712.7	773.9	844.3
77.5°	281.4	297.3	324.6	374.5	438.0	483.4	510.7	585.6	660.5	721.7	794.4
80°	206.5	222.4	258.7	313.2	379.0	422.1	456.2	533.4	610.5	674.1	746.7
82.5°	140.7	156.6	199.7	258.7	329.1	372.2	404.0	485.7	562.9	628.7	701.3
85°	81.7	104.4	149.8	213.3	286.0	329.1	360.9	444.8	519.7	585.6	660.5
87.5°	36.3	63.5	113.5	177.0	249.7	290.5	324.6	401.7	481.2	547.0	621.9
90°	2.3	36.3	88.5	149.8	220.2	258.7	290.5	367.7	442.6	510.7	583.3
92.5°	4.5	25.0	72.6	129.4	195.2	233.8	265.5	338.2	408.5	478.9	549.2
95°	11.3	25.0	63.5	115.8	177.0	213.3	242.8	313.2	379.0	447.1	515.2
97.5°	18.2	27.2	61.3	108.9	163.4	197.5	224.7	290.5	356.3	417.6	485.7
100°	25.0	34.0	61.3	104.4	154.3	186.1	211.1	272.4	333.6	390.4	458.5
102.5°	31.8	40.9	65.8	104.4	149.8	177.0	202.0	258.7	315.5	367.7	431.2
105°	40.9	47.7	70.4	104.4	145.3	172.5	192.9	245.1	299.6	349.5	406.3
107.5°	49.9	54.5	74.9	106.7	145.3	168.0	188.4	236.0	286.0	331.4	385.8
110°	61.3	63.5	81.7	111.2	145.3	165.7	183.8	229.2	274.6	317.7	367.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.4	70.4	88.5	115.8	145.3	165.7	181.6	222.4	265.5	304.1	351.8
115°	81.7	81.7	95.3	120.3	147.5	165.7	181.6	220.2	258.7	292.8	338.2
117.5°	90.8	90.8	104.4	124.8	152.1	168.0	181.6	215.6	251.9	283.7	324.6
120°	99.9	99.9	108.9	129.4	154.3	170.2	181.6	213.3	245.1	276.9	313.2
122.5°	108.9	108.9	115.8	136.2	156.6	170.2	181.6	211.1	240.6	267.8	301.9
125°	118.0	118.0	122.6	140.7	161.1	172.5	183.8	211.1	238.3	261.0	295.0
127.5°	127.1	124.8	131.6	147.5	163.4	174.8	186.1	211.1	233.8	256.5	286.0
130°	133.9	131.6	140.7	152.1	168.0	177.0	186.1	208.8	231.5	251.9	276.9
132.5°	143.0	138.4	149.8	154.3	172.5	181.6	188.4	208.8	229.2	247.4	272.4
135°	149.8	145.3	156.6	161.1	174.8	183.8	190.6	208.8	227.0	245.1	265.5
137.5°	154.3	152.1	163.4	168.0	177.0	186.1	192.9	208.8	224.7	240.6	261.0
140°	156.6	154.3	163.4	172.5	177.0	186.1	190.6	206.5	222.4	236.0	254.2
142.5°	158.9	158.9	165.7	174.8	177.0	183.8	190.6	204.3	217.9	229.2	249.7
145°	158.9	158.9	165.7	177.0	179.3	181.6	186.1	199.7	211.1	222.4	240.6
147.5°	158.9	158.9	168.0	177.0	181.6	183.8	181.6	195.2	206.5	215.6	231.5
150°	158.9	158.9	168.0	177.0	183.8	186.1	183.8	190.6	199.7	208.8	222.4
152.5°	161.1	161.1	168.0	177.0	183.8	186.1	186.1	186.1	192.9	202.0	215.6
155°	161.1	163.4	168.0	181.6	186.1	188.4	188.4	188.4	186.1	195.2	206.5
157.5°	168.0	170.2	172.5	183.8	188.4	190.6	190.6	190.6	188.4	186.1	197.5
160°	174.8	177.0	179.3	188.4	192.9	195.2	195.2	195.2	190.6	188.4	188.4
162.5°	181.6	186.1	186.1	190.6	195.2	197.5	197.5	199.7	195.2	192.9	190.6
165°	190.6	192.9	192.9	195.2	199.7	202.0	199.7	202.0	199.7	197.5	195.2
167.5°	197.5	199.7	199.7	202.0	202.0	204.3	204.3	204.3	202.0	199.7	199.7
170°	204.3	206.5	206.5	206.5	206.5	206.5	206.5	206.5	204.3	199.7	199.7
172.5°	208.8	211.1	211.1	208.8	208.8	208.8	208.8	206.5	202.0	199.7	199.7
175°	211.1	213.3	213.3	211.1	208.8	208.8	208.8	206.5	202.0	199.7	199.7
177.5°	213.3	215.6	213.3	213.3	208.8	208.8	208.8	208.8	204.3	202.0	199.7
180°	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4
2.5°	2383.1	2355.9	2374.0	2376.3	2385.4	2376.3	2383.1	2376.3	2394.4	2387.6
5°	2374.0	2349.0	2364.9	2367.2	2378.6	2367.2	2378.6	2374.0	2396.7	2389.9
7.5°	2358.1	2337.7	2351.3	2353.6	2367.2	2355.9	2367.2	2362.7	2389.9	2380.8
10°	2335.4	2319.5	2333.2	2335.4	2349.0	2337.7	2346.8	2342.2	2371.7	2358.1
12.5°	2310.5	2296.8	2308.2	2310.5	2326.4	2315.0	2326.4	2321.8	2351.3	2337.7
15°	2274.2	2267.3	2278.7	2283.2	2299.1	2290.0	2301.4	2296.8	2328.6	2310.5
17.5°	2237.8	2233.3	2244.6	2249.2	2267.3	2256.0	2267.3	2262.8	2294.6	2276.4
20°	2192.4	2190.2	2201.5	2208.3	2224.2	2212.9	2226.5	2221.9	2256.0	2237.8
22.5°	2144.8	2144.8	2153.9	2160.7	2176.6	2167.5	2181.1	2178.8	2212.9	2194.7
25°	2092.6	2094.9	2103.9	2113.0	2131.2	2124.4	2135.7	2135.7	2167.5	2144.8
27.5°	2033.6	2044.9	2051.7	2063.1	2079.0	2072.2	2083.5	2085.8	2117.5	2094.9
30°	1972.3	1988.2	1995.0	2008.6	2022.2	2022.2	2033.6	2038.1	2069.9	2047.2
32.5°	1908.7	1926.9	1936.0	1954.1	1972.3	1972.3	1988.2	1995.0	2026.8	2006.3
35°	1845.2	1870.2	1881.5	1904.2	1922.4	1924.6	1940.5	1949.6	1981.4	1960.9
37.5°	1783.9	1815.7	1827.0	1854.3	1870.2	1874.7	1892.9	1904.2	1933.7	1915.6
40°	1720.4	1758.9	1772.6	1802.1	1815.7	1824.8	1842.9	1856.5	1883.8	1867.9
42.5°	1659.1	1702.2	1715.8	1747.6	1763.5	1772.6	1790.7	1808.9	1836.1	1820.2
45°	1597.8	1645.5	1661.4	1695.4	1709.0	1722.6	1743.1	1758.9	1783.9	1770.3
47.5°	1538.8	1588.7	1604.6	1640.9	1656.8	1672.7	1690.9	1713.6	1736.3	1722.6
50°	1477.5	1529.7	1550.1	1588.7	1602.3	1620.5	1643.2	1663.6	1686.3	1675.0
52.5°	1418.5	1473.0	1493.4	1534.3	1550.1	1568.3	1591.0	1613.7	1634.1	1625.0
55°	1355.0	1414.0	1436.7	1479.8	1495.7	1513.8	1538.8	1563.8	1581.9	1575.1
57.5°	1295.9	1357.2	1379.9	1427.6	1441.2	1463.9	1488.9	1516.1	1532.0	1525.2
60°	1236.9	1298.2	1325.5	1373.1	1389.0	1411.7	1436.7	1466.2	1479.8	1475.2
62.5°	1177.9	1241.5	1271.0	1320.9	1334.5	1359.5	1389.0	1414.0	1427.6	1425.3
65°	1123.5	1184.7	1218.8	1268.7	1282.3	1309.6	1336.8	1364.0	1377.7	1377.7
67.5°	1066.7	1132.5	1166.6	1218.8	1230.1	1259.6	1289.1	1316.4	1327.7	1327.7
70°	1014.5	1078.1	1116.6	1168.8	1180.2	1207.4	1239.2	1268.7	1277.8	1280.1
72.5°	962.3	1025.9	1066.7	1121.2	1132.5	1159.8	1189.3	1221.1	1227.9	1230.1
75°	912.4	975.9	1016.8	1071.3	1082.6	1109.8	1141.6	1171.1	1180.2	1182.5
77.5°	862.5	926.0	971.4	1023.6	1034.9	1062.2	1094.0	1123.5	1130.3	1134.8
80°	817.1	878.3	921.5	978.2	989.6	1016.8	1046.3	1075.8	1080.3	1087.1
82.5°	771.7	832.9	878.3	932.8	944.2	971.4	1000.9	1030.4	1034.9	1044.0
85°	728.5	789.8	835.2	887.4	901.0	926.0	957.8	985.0	989.6	996.4
87.5°	690.0	746.7	794.4	844.3	857.9	882.9	914.7	941.9	944.2	953.2
90°	649.1	705.8	753.5	803.4	817.1	839.8	871.5	898.8	903.3	910.1
92.5°	615.1	667.3	717.2	764.9	776.2	801.2	830.7	857.9	862.5	869.3
95°	578.8	631.0	680.9	726.3	737.6	762.6	789.8	817.1	821.6	828.4
97.5°	547.0	596.9	644.6	690.0	701.3	724.0	753.5	778.5	783.0	792.1
100°	517.5	565.1	615.1	655.9	667.3	690.0	717.2	742.2	746.7	755.8
102.5°	490.2	535.6	583.3	621.9	635.5	655.9	683.2	705.8	710.4	717.2
105°	465.3	508.4	553.8	590.1	603.7	624.1	649.1	671.8	676.3	683.2
107.5°	440.3	481.2	524.3	560.6	571.9	590.1	615.1	637.8	642.3	651.4
110°	417.6	458.5	499.3	533.4	547.0	560.6	585.6	606.0	610.5	617.3





TEST NUMBER: P894554  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	397.2	433.5	474.3	506.1	517.5	533.4	553.8	574.2	578.8	587.8
115°	379.0	413.1	453.9	483.4	492.5	506.1	528.8	547.0	551.5	558.3
117.5°	363.1	392.6	429.0	458.5	469.8	481.2	501.6	517.5	524.3	528.8
120°	349.5	376.8	408.5	435.8	449.4	458.5	476.6	492.5	499.3	503.9
122.5°	335.9	360.9	390.4	415.3	426.7	433.5	453.9	467.5	474.3	481.2
125°	324.6	347.3	374.5	394.9	406.3	413.1	431.2	444.8	451.7	456.2
127.5°	313.2	333.6	360.9	376.8	388.1	392.6	408.5	422.1	429.0	431.2
130°	301.9	322.3	345.0	360.9	369.9	376.8	390.4	399.5	406.3	408.5
132.5°	292.8	310.9	331.4	347.3	356.3	358.6	372.2	381.3	388.1	390.4
135°	286.0	299.6	320.0	333.6	340.4	345.0	356.3	363.1	369.9	372.2
137.5°	276.9	290.5	308.7	317.7	326.8	329.1	340.4	347.3	354.1	356.3
140°	270.1	281.4	297.3	306.4	315.5	315.5	324.6	331.4	338.2	338.2
142.5°	263.3	274.6	288.2	297.3	304.1	304.1	313.2	317.7	324.6	324.6
145°	254.2	265.5	279.2	286.0	292.8	292.8	299.6	304.1	310.9	310.9
147.5°	245.1	256.5	270.1	274.6	281.4	281.4	288.2	292.8	297.3	297.3
150°	233.8	242.8	258.7	265.5	272.4	272.4	276.9	281.4	286.0	286.0
152.5°	224.7	231.5	245.1	254.2	261.0	261.0	265.5	270.1	274.6	274.6
155°	213.3	220.2	231.5	242.8	249.7	251.9	256.5	258.7	263.3	263.3
157.5°	204.3	211.1	220.2	229.2	236.0	240.6	247.4	249.7	251.9	251.9
160°	192.9	197.5	206.5	215.6	222.4	227.0	238.3	240.6	242.8	242.8
162.5°	188.4	188.4	192.9	199.7	206.5	208.8	220.2	229.2	233.8	231.5
165°	190.6	188.4	188.4	190.6	195.2	197.5	204.3	217.9	222.4	220.2
167.5°	195.2	190.6	188.4	188.4	192.9	192.9	199.7	211.1	224.7	220.2
170°	195.2	188.4	183.8	183.8	186.1	186.1	190.6	197.5	211.1	213.3
172.5°	192.9	188.4	181.6	172.5	174.8	172.5	170.2	174.8	177.0	199.7
175°	195.2	188.4	181.6	170.2	165.7	158.9	147.5	138.4	136.2	111.2
177.5°	192.9	186.1	177.0	168.0	163.4	154.3	140.7	124.8	115.8	102.1
180°	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8



TEST NUMBER: P894554  
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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	14.38	15.69	15.02	16.35	17.12	18.00	19.31	18.64	19.98	20.74
	3H	15.72	16.92	16.38	17.60	18.40	20.95	22.15	21.61	22.83	23.63
	4H	16.13	17.26	16.80	17.95	18.77	22.46	23.60	23.13	24.29	25.10
	6H	16.34	17.40	17.03	18.10	18.93	24.07	25.13	24.76	25.83	26.66
	8H	16.37	17.39	17.07	18.11	18.94	24.92	25.94	25.62	26.66	27.49
	12H	16.38	17.35	17.08	18.07	18.93	25.87	26.84	26.57	27.55	28.42
4H	2H	15.53	16.67	16.21	17.36	18.17	18.31	19.45	18.99	20.14	20.95
	3H	17.17	18.15	17.86	18.87	19.71	21.50	22.48	22.19	23.20	24.03
	4H	17.74	18.64	18.45	19.37	20.23	23.18	24.08	23.88	24.80	25.67
	6H	18.08	18.88	18.80	19.63	20.50	25.00	25.80	25.72	26.55	27.41
	8H	18.16	18.91	18.88	19.65	20.54	25.97	26.72	26.70	27.47	28.35
	12H	18.18	18.87	18.93	19.64	20.53	27.06	27.74	27.81	28.51	29.40
8H	4H	18.85	19.60	19.57	20.35	21.23	23.35	24.10	24.07	24.85	25.73
	6H	19.46	20.10	20.21	20.89	21.77	25.34	25.99	26.10	26.77	27.66
	8H	19.65	20.23	20.42	21.02	21.92	26.46	27.04	27.23	27.83	28.73
	12H	19.77	20.28	20.53	21.06	22.02	27.74	28.26	28.51	29.04	29.99
12H	4H	19.21	19.90	19.96	20.67	21.56	23.34	24.03	24.09	24.80	25.69
	6H	19.99	20.57	20.76	21.36	22.26	25.37	25.95	26.14	26.74	27.64
	8H	20.32	20.84	21.09	21.62	22.57	26.55	27.07	27.32	27.85	28.81