

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: P895266

Luminaire Tested: 8TMB-8SL-RND-UNV-L935

Issue Date: 11/11/2024

**Test Information**

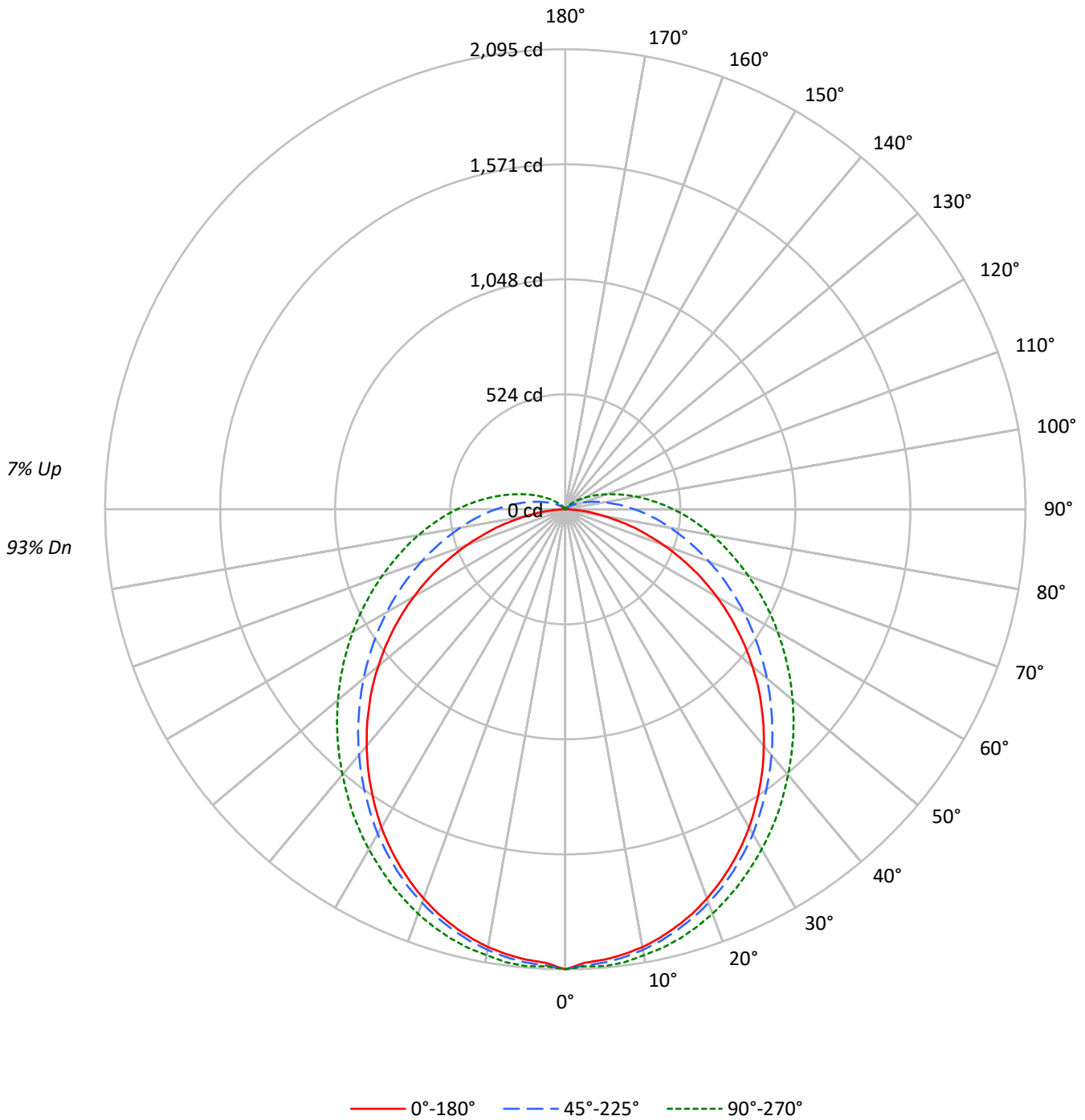
Test Method: LM-79-2019  
Report Number: P895266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-RND-UNV-L935  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6934.0 lumens  
Efficiency: N/A  
Efficacy: 116.3 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 (A<sub>in</sub>): 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: P895266  
CATALOG NUMBER: 8TMB-8SL-RND-UNV-L935

### 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°	7432	7432	7432
5°	7332	7378	7437
10°	7293	7340	7428
15°	7218	7279	7429
20°	7123	7203	7401
25°	7000	7103	7360
30°	6856	6997	7326
35°	6687	6872	7312
40°	6513	6764	7310
45°	6332	6670	7361
50°	6134	6613	7455
55°	5911	6600	7634
60°	5652	6664	7920
65°	5339	6839	8394
70°	4947	7227	9199
75°	4472	8043	10672
80°	3784	9912	13864
85°	3070	16146	23754

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 43730 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.1	2.9
10°-20°	564.4	8.1
20°-30°	845.1	12.2
30°-40°	1007.7	14.5
40°-50°	1045.1	15.1
50°-60°	969.6	14.0
60°-70°	808.8	11.7
70°-80°	603.1	8.7
80°-90°	401.5	5.8
90°-100°	244.5	3.5
100°-110°	136.5	2.0
110°-120°	68.2	1.0
120°-130°	28.5	0.4
130°-140°	9.0	0.1
140°-150°	2.2	0.0
150°-160°	1.0	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	1607.6	23.2
0°-40°	2615.2	37.7
0°-60°	4629.9	66.8
0°-90°	6443.3	92.9
90°-120°	449.1	6.5
90°-150°	488.8	7.0
90°-180°	491.0	7.1
0°-180°	6934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2058	2106	2072	2083	2088	195
15°	1965	2016	1982	2018	2022	554
25°	1788	1836	1814	1865	1880	823
35°	1544	1585	1586	1665	1688	966
45°	1262	1295	1329	1434	1467	974
55°	956	988	1067	1192	1234	854
65°	636	687	815	952	1000	629
75°	326	416	587	729	778	345
85°	75	206	397	533	584	85
90°	3	136	315	444	492	6
95°	0	84	243	364	406	0
105°	0	26	133	224	259	0
115°	2	7	62	126	151	2
125°	2	2	25	61	75	1
135°	2	2	7	21	28	1
145°	2	2	2	5	7	1
155°	3	3	2	2	2	1
165°	3	3	2	2	2	1
175°	3	3	3	2	0	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2066.7	2070.0	2099.5	2097.9	2092.9	2112.6	2117.5	2101.1	2074.9	2101.1	2078.2
5°	2058.5	2061.8	2091.3	2089.7	2084.7	2106.1	2107.7	2092.9	2066.7	2092.9	2071.6
7.5°	2043.8	2047.1	2076.6	2074.9	2071.6	2092.9	2091.3	2079.8	2052.0	2079.8	2056.9
10°	2024.1	2025.7	2056.9	2053.6	2052.0	2073.3	2068.4	2058.5	2030.7	2058.5	2037.2
12.5°	1997.9	1999.5	2030.7	2027.4	2027.4	2047.1	2040.5	2032.3	2004.4	2030.7	2012.6
15°	1965.1	1966.7	1996.2	1994.6	1994.6	2015.9	2006.1	1999.5	1973.3	2001.2	1981.5
17.5°	1929.0	1927.4	1958.5	1955.3	1958.5	1978.2	1965.1	1961.8	1937.2	1963.5	1947.1
20°	1886.4	1886.4	1914.3	1912.7	1917.6	1935.6	1919.2	1920.9	1896.3	1924.1	1907.7
22.5°	1838.9	1837.3	1865.1	1865.1	1870.0	1888.1	1870.0	1875.0	1850.4	1876.6	1863.5
25°	1788.1	1784.8	1812.7	1812.7	1820.9	1835.6	1816.0	1822.5	1799.6	1825.8	1814.3
27.5°	1732.4	1727.5	1755.3	1757.0	1763.5	1778.3	1757.0	1766.8	1745.5	1770.1	1761.9
30°	1673.4	1668.5	1696.3	1698.0	1706.1	1717.6	1696.3	1709.4	1689.8	1714.3	1707.8
32.5°	1609.5	1606.2	1632.4	1635.7	1643.9	1652.1	1632.4	1645.5	1629.1	1653.7	1647.1
35°	1543.9	1540.6	1565.2	1570.1	1578.3	1584.9	1563.6	1581.6	1566.8	1589.8	1586.5
37.5°	1476.7	1471.8	1498.0	1501.3	1511.1	1514.4	1494.7	1516.0	1502.9	1525.9	1524.2
40°	1406.2	1401.3	1427.5	1430.8	1440.6	1440.6	1424.2	1447.2	1437.4	1458.7	1460.3
42.5°	1335.7	1330.8	1353.8	1360.3	1368.5	1368.5	1352.1	1376.7	1370.2	1391.5	1396.4
45°	1262.0	1257.1	1278.4	1284.9	1294.8	1294.8	1278.4	1306.2	1301.3	1322.6	1329.2
47.5°	1189.9	1183.3	1203.0	1209.5	1219.4	1217.7	1204.6	1232.5	1230.9	1252.2	1263.6
50°	1111.2	1106.3	1126.0	1132.5	1144.0	1140.7	1130.9	1160.4	1160.4	1181.7	1198.1
52.5°	1034.2	1029.3	1048.9	1055.5	1065.3	1065.3	1055.5	1086.6	1091.5	1112.8	1132.5
55°	955.5	949.0	968.6	975.2	986.6	988.3	980.1	1011.2	1021.1	1045.7	1067.0
57.5°	876.8	873.6	890.0	896.5	911.3	911.3	906.3	939.1	952.2	978.5	1003.0
60°	796.5	793.3	808.0	816.2	832.6	835.9	832.6	867.0	885.0	911.3	939.1
62.5°	716.2	712.9	727.7	739.2	757.2	760.5	762.1	798.2	817.8	845.7	876.8
65°	635.9	632.6	647.4	660.5	681.8	686.7	691.6	729.3	752.3	781.8	814.6
67.5°	555.6	554.0	568.7	585.1	608.1	614.6	622.8	662.1	688.4	719.5	755.6
70°	476.9	475.3	490.0	509.7	537.6	545.8	555.6	594.9	627.7	660.5	696.6
72.5°	398.3	399.9	416.3	439.2	470.4	478.6	491.7	532.7	568.7	603.1	640.8
75°	326.2	326.2	344.2	370.4	404.8	416.3	431.0	473.7	511.4	547.4	586.7
77.5°	252.4	252.4	273.7	306.5	344.2	355.7	373.7	417.9	458.9	495.0	534.3
80°	185.2	188.5	213.1	245.8	285.2	299.9	321.2	365.5	409.7	445.8	485.1
82.5°	126.2	131.1	157.3	195.0	234.4	249.1	270.4	318.0	362.2	399.9	440.9
85°	75.4	83.6	111.4	149.1	190.1	206.5	229.5	273.7	318.0	355.7	396.6
87.5°	34.4	45.9	75.4	113.1	152.4	170.5	190.1	232.7	277.0	314.7	357.3
90°	3.3	19.7	49.2	81.9	119.6	136.0	155.7	196.7	239.3	273.7	314.7
92.5°	0.0	8.2	29.5	59.0	91.8	108.2	126.2	165.5	203.2	237.6	277.0
95°	0.0	3.3	16.4	41.0	68.8	83.6	100.0	136.0	173.7	206.5	242.6
97.5°	0.0	1.6	9.8	27.9	50.8	63.9	78.7	111.4	145.9	177.0	209.8
100°	0.0	1.6	4.9	18.0	37.7	47.5	62.3	90.1	121.3	149.1	181.9
102.5°	0.0	0.0	3.3	11.5	27.9	36.1	47.5	72.1	100.0	126.2	155.7
105°	0.0	0.0	1.6	8.2	19.7	26.2	36.1	57.4	81.9	104.9	132.8
107.5°	0.0	0.0	1.6	4.9	13.1	19.7	27.9	44.3	65.6	86.9	111.4
110°	1.6	1.6	1.6	3.3	9.8	14.8	19.7	34.4	54.1	72.1	93.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.6	1.6	1.6	1.6	6.6	9.8	14.8	26.2	42.6	57.4	77.0
115°	1.6	1.6	1.6	1.6	4.9	6.6	9.8	19.7	32.8	45.9	62.3
117.5°	1.6	1.6	1.6	1.6	3.3	4.9	6.6	14.8	24.6	36.1	50.8
120°	1.6	1.6	1.6	1.6	1.6	3.3	4.9	9.8	19.7	27.9	41.0
122.5°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	8.2	14.8	21.3	31.1
125°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	9.8	16.4	24.6
127.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	6.6	11.5	18.0
130°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	8.2	13.1
132.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	6.6	9.8
135°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	6.6
137.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	4.9
140°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
145°	1.6	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
150°	1.6	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
152.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
155°	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6
160°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6
167.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6
170°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
172.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6
175°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
177.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2084.7	2089.7	2094.6	2081.5	2089.7	2104.4	2109.3	2089.7	2096.2	2083.1
5°	2078.2	2081.5	2088.0	2071.6	2083.1	2096.2	2104.4	2088.0	2097.9	2088.0
7.5°	2065.1	2068.4	2076.6	2060.2	2074.9	2086.4	2096.2	2079.8	2089.7	2079.8
10°	2045.4	2050.3	2061.8	2042.1	2060.2	2070.0	2079.8	2061.8	2071.6	2061.8
12.5°	2020.8	2029.0	2038.9	2020.8	2038.9	2047.1	2060.2	2042.1	2053.6	2045.4
15°	1991.3	1999.5	2012.6	1994.6	2017.5	2024.1	2037.2	2019.2	2030.7	2022.5
17.5°	1956.9	1966.7	1983.1	1961.8	1988.0	1993.0	2006.1	1989.7	2001.2	1993.0
20°	1917.6	1927.4	1943.8	1924.1	1950.4	1953.6	1968.4	1953.6	1965.1	1960.2
22.5°	1871.7	1883.2	1899.5	1881.5	1909.4	1909.4	1927.4	1912.7	1925.8	1920.9
25°	1824.2	1837.3	1855.3	1835.6	1865.1	1865.1	1884.8	1870.0	1883.2	1879.9
27.5°	1773.3	1788.1	1809.4	1789.7	1819.2	1817.6	1837.3	1824.2	1838.9	1834.0
30°	1719.3	1735.6	1757.0	1740.6	1771.7	1768.4	1788.1	1776.6	1789.7	1788.1
32.5°	1660.3	1678.3	1704.5	1686.5	1717.6	1714.3	1738.9	1725.8	1742.2	1738.9
35°	1601.3	1620.9	1647.1	1630.8	1665.2	1660.3	1684.8	1673.4	1689.8	1688.1
37.5°	1540.6	1561.9	1588.1	1575.0	1607.8	1602.9	1629.1	1619.3	1637.3	1632.4
40°	1478.3	1499.6	1527.5	1516.0	1550.4	1543.9	1571.8	1563.6	1581.6	1578.3
42.5°	1416.1	1439.0	1466.9	1460.3	1493.1	1486.5	1514.4	1507.8	1525.9	1522.6
45°	1352.1	1376.7	1406.2	1399.7	1434.1	1427.5	1455.4	1450.5	1468.5	1466.9
47.5°	1288.2	1314.4	1343.9	1340.7	1373.4	1366.9	1396.4	1391.5	1409.5	1409.5
50°	1222.7	1252.2	1281.7	1280.0	1312.8	1306.2	1332.5	1332.5	1352.1	1350.5
52.5°	1157.1	1188.2	1219.4	1219.4	1252.2	1245.6	1275.1	1273.5	1293.1	1293.1
55°	1094.8	1122.7	1153.8	1160.4	1191.5	1181.7	1212.8	1216.1	1232.5	1234.1
57.5°	1032.5	1062.0	1093.2	1101.4	1130.9	1124.3	1153.8	1157.1	1173.5	1175.1
60°	970.3	998.1	1029.3	1040.7	1070.2	1063.7	1093.2	1096.5	1114.5	1116.1
62.5°	908.0	935.8	970.3	981.7	1009.6	1004.7	1035.8	1039.1	1055.5	1058.8
65°	847.3	876.8	909.6	926.0	952.2	945.7	976.8	980.1	998.1	999.8
67.5°	788.3	817.8	850.6	868.6	893.2	890.0	919.5	926.0	940.8	944.0
70°	731.0	760.5	794.9	812.9	837.5	835.9	863.7	868.6	885.0	886.7
72.5°	675.2	704.7	739.2	760.5	781.8	780.1	808.0	814.6	830.9	832.6
75°	621.2	652.3	685.1	708.0	729.3	727.7	755.6	762.1	776.9	778.5
77.5°	570.4	601.5	635.9	658.9	676.9	678.5	703.1	709.7	724.4	729.3
80°	522.8	552.3	585.1	609.7	626.1	629.4	652.3	660.5	672.0	678.5
82.5°	476.9	506.4	539.2	562.2	578.5	581.8	603.1	613.0	624.4	629.4
85°	432.7	462.2	493.3	517.9	532.7	534.3	555.6	565.4	575.3	583.5
87.5°	390.1	419.6	449.1	475.3	488.4	491.7	511.4	521.2	529.4	537.6
90°	347.5	377.0	406.5	431.0	444.2	445.8	467.1	476.9	485.1	491.7
92.5°	308.1	337.6	367.1	391.7	403.2	406.5	424.5	436.0	442.5	449.1
95°	270.4	299.9	326.2	352.4	363.8	368.8	385.2	395.0	403.2	406.5
97.5°	237.6	263.9	288.5	314.7	324.5	329.4	345.8	357.3	363.8	367.1
100°	206.5	231.1	254.0	278.6	288.5	293.4	308.1	318.0	324.5	329.4
102.5°	178.6	201.6	222.9	245.8	255.7	259.0	272.1	281.9	288.5	293.4
105°	154.1	175.4	195.0	216.3	224.5	229.5	240.9	249.1	255.7	259.0
107.5°	131.1	152.4	168.8	188.5	196.7	200.0	211.4	221.3	226.2	227.8
110°	111.4	129.5	145.9	162.3	172.1	175.4	185.2	193.4	198.3	200.0





TEST NUMBER: P895266  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	93.4	109.8	124.6	139.3	147.5	150.8	160.6	168.8	172.1	173.7
115°	77.0	93.4	104.9	119.6	126.2	129.5	137.7	145.9	147.5	150.8
117.5°	62.3	77.0	88.5	100.0	106.5	109.8	116.4	122.9	126.2	127.8
120°	50.8	62.3	72.1	83.6	88.5	91.8	98.3	104.9	106.5	108.2
122.5°	41.0	50.8	59.0	68.8	73.8	77.0	81.9	86.9	88.5	90.1
125°	31.1	41.0	47.5	55.7	60.6	62.3	67.2	72.1	73.8	75.4
127.5°	24.6	31.1	37.7	44.3	47.5	49.2	54.1	57.4	59.0	60.6
130°	18.0	22.9	27.9	34.4	37.7	39.3	42.6	45.9	47.5	47.5
132.5°	13.1	18.0	21.3	26.2	27.9	29.5	32.8	36.1	36.1	37.7
135°	8.2	11.5	14.8	18.0	21.3	21.3	24.6	26.2	27.9	27.9
137.5°	6.6	8.2	9.8	13.1	14.8	16.4	16.4	19.7	19.7	19.7
140°	4.9	6.6	6.6	8.2	9.8	11.5	11.5	13.1	13.1	13.1
142.5°	3.3	4.9	4.9	6.6	6.6	8.2	8.2	8.2	9.8	9.8
145°	3.3	3.3	3.3	4.9	4.9	4.9	4.9	6.6	6.6	6.6
147.5°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9
150°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
162.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
167.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
170°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
177.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P895266  
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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	17.26	18.79	17.73	19.25	19.74	18.83	20.36	19.30	20.82	21.31
	3H	18.93	20.34	19.42	20.80	21.33	21.45	22.86	21.94	23.32	23.85
	4H	19.53	20.86	20.03	21.35	21.89	22.76	24.09	23.27	24.58	25.12
	6H	19.93	21.17	20.45	21.67	22.22	24.17	25.41	24.69	25.91	26.46
	8H	20.05	21.23	20.57	21.76	22.32	24.92	26.11	25.45	26.63	27.19
	12H	20.12	21.26	20.66	21.78	22.37	25.77	26.91	26.30	27.42	28.02
4H	2H	18.18	19.51	18.69	20.00	20.54	19.38	20.71	19.88	21.19	21.73
	3H	20.16	21.30	20.68	21.83	22.39	22.30	23.43	22.81	23.96	24.52
	4H	20.94	21.98	21.48	22.52	23.11	23.82	24.86	24.36	25.40	25.99
	6H	21.52	22.44	22.08	23.00	23.61	25.46	26.38	26.02	26.95	27.56
	8H	21.70	22.57	22.26	23.13	23.75	26.34	27.21	26.91	27.77	28.40
	12H	21.83	22.61	22.41	23.21	23.83	27.35	28.14	27.93	28.73	29.35
8H	4H	21.82	22.68	22.38	23.25	23.87	24.18	25.05	24.74	25.61	26.23
	6H	22.70	23.44	23.29	24.04	24.67	26.08	26.82	26.68	27.42	28.05
	8H	23.05	23.71	23.65	24.33	24.97	27.16	27.83	27.77	28.45	29.09
	12H	23.32	23.91	23.93	24.52	25.22	28.43	29.02	29.04	29.63	30.34
12H	4H	22.10	22.88	22.68	23.48	24.10	24.22	25.01	24.81	25.60	26.23
	6H	23.15	23.82	23.75	24.43	25.07	26.19	26.86	26.80	27.47	28.11
	8H	23.67	24.26	24.27	24.87	25.57	27.39	27.98	28.00	28.59	29.29