

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: P894433

Luminaire Tested: 8TMB-10SL-RND-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894433
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-10SL-RND-UNV-L930
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

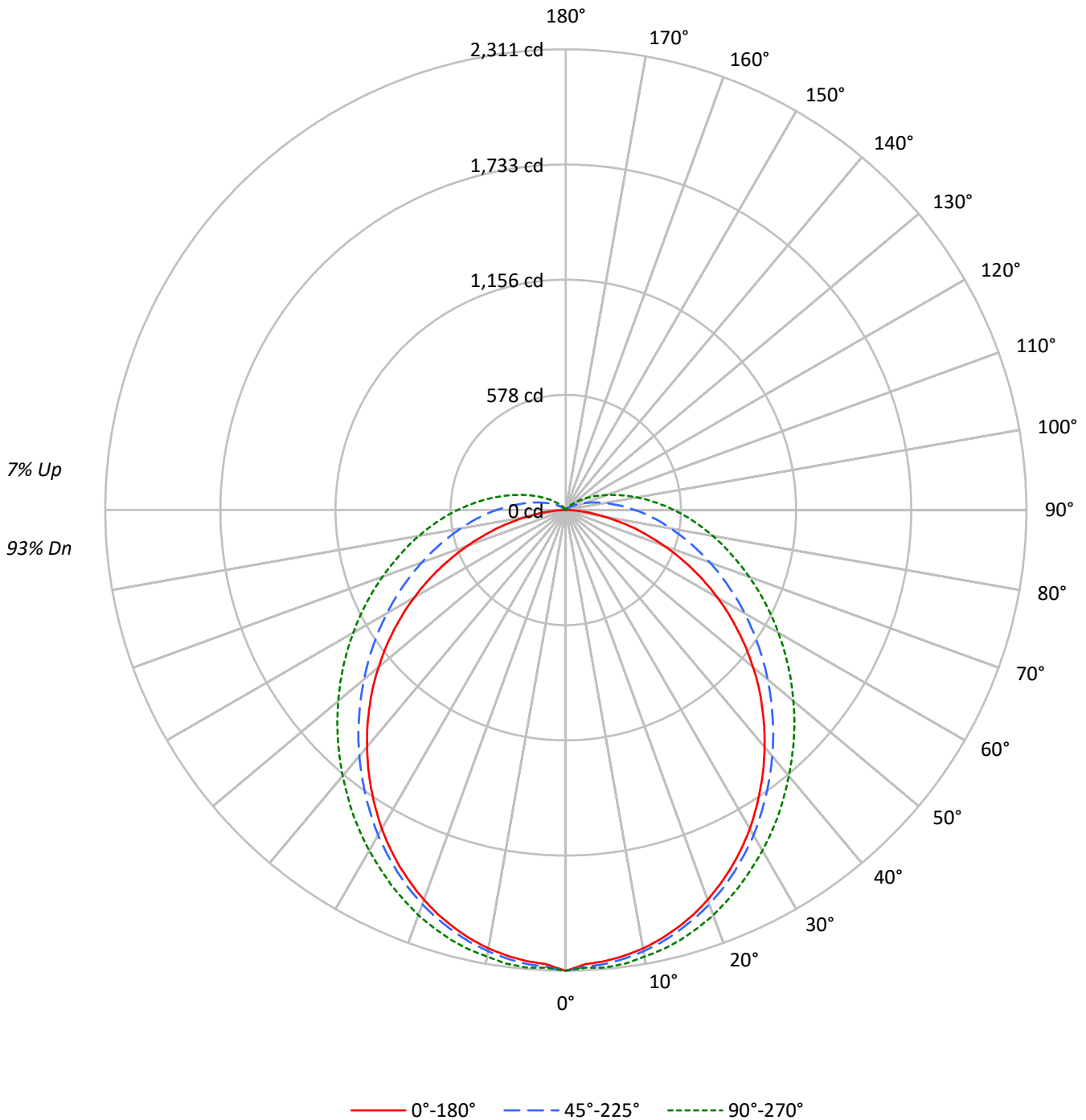
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7650.0 lumens
Efficiency: N/A
Efficacy: 109.3 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): 70
Input Voltage (V): 120
Input Current (Ain): 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	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°	8199	8199	8199
5°	8089	8141	8205
10°	8046	8098	8195
15°	7964	8030	8196
20°	7858	7947	8166
25°	7723	7837	8120
30°	7564	7719	8082
35°	7378	7581	8067
40°	7186	7462	8065
45°	6986	7358	8120
50°	6767	7296	8224
55°	6521	7282	8423
60°	6236	7352	8738
65°	5890	7545	9260
70°	5459	7972	10148
75°	4932	8874	11775
80°	4174	10936	15296
85°	3387	17815	26205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 48245 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	2.9
10°-20°	622.7	8.1
20°-30°	932.4	12.2
30°-40°	1111.7	14.5
40°-50°	1153.0	15.1
50°-60°	1069.7	14.0
60°-70°	892.4	11.7
70°-80°	665.3	8.7
80°-90°	443.0	5.8
90°-100°	269.7	3.5
100°-110°	150.6	2.0
110°-120°	75.2	1.0
120°-130°	31.4	0.4
130°-140°	9.9	0.1
140°-150°	2.4	0.0
150°-160°	1.1	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	1773.6	23.2
0°-40°	2885.3	37.7
0°-60°	5108.0	66.8
0°-90°	7108.6	92.9
90°-120°	495.5	6.5
90°-150°	539.3	7.0
90°-180°	541.0	7.1
0°-180°	7650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2311	2311	2311	2311	2311	
5°	2271	2324	2286	2298	2304	216
15°	2168	2224	2186	2226	2231	611
25°	1973	2025	2002	2058	2074	908
35°	1703	1748	1750	1837	1862	1065
45°	1392	1428	1466	1582	1618	1074
55°	1054	1090	1177	1315	1362	942
65°	702	758	899	1051	1103	694
75°	360	459	647	805	859	380
85°	83	228	438	588	644	93
90°	4	150	347	490	542	6
95°	0	92	268	401	448	0
105°	0	29	146	248	286	0
115°	2	7	69	139	166	2
125°	2	2	27	67	83	2
135°	2	2	7	24	31	1
145°	2	2	2	5	7	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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9
2.5°	2280.1	2283.7	2316.3	2314.5	2309.1	2330.8	2336.2	2318.1	2289.2	2318.1	2292.8
5°	2271.1	2274.7	2307.2	2305.4	2300.0	2323.5	2325.3	2309.1	2280.1	2309.1	2285.6
7.5°	2254.8	2258.4	2291.0	2289.2	2285.6	2309.1	2307.2	2294.6	2263.9	2294.6	2269.3
10°	2233.1	2234.9	2269.3	2265.7	2263.9	2287.4	2281.9	2271.1	2240.3	2271.1	2247.6
12.5°	2204.2	2206.0	2240.3	2236.7	2236.7	2258.4	2251.2	2242.2	2211.4	2240.3	2220.5
15°	2168.0	2169.8	2202.4	2200.6	2200.6	2224.1	2213.2	2206.0	2177.1	2207.8	2186.1
17.5°	2128.2	2126.4	2160.8	2157.2	2160.8	2182.5	2168.0	2164.4	2137.3	2166.2	2148.1
20°	2081.2	2081.2	2112.0	2110.2	2115.6	2135.5	2117.4	2119.2	2092.1	2122.8	2104.7
22.5°	2028.8	2027.0	2057.7	2057.7	2063.1	2083.0	2063.1	2068.6	2041.4	2070.4	2055.9
25°	1972.7	1969.1	1999.9	1999.9	2008.9	2025.2	2003.5	2010.7	1985.4	2014.3	2001.7
27.5°	1911.3	1905.8	1936.6	1938.4	1945.6	1961.9	1938.4	1949.2	1925.7	1952.8	1943.8
30°	1846.2	1840.7	1871.5	1873.3	1882.3	1895.0	1871.5	1885.9	1864.2	1891.4	1884.1
32.5°	1775.6	1772.0	1801.0	1804.6	1813.6	1822.7	1801.0	1815.4	1797.3	1824.5	1817.2
35°	1703.3	1699.7	1726.8	1732.2	1741.3	1748.5	1725.0	1744.9	1728.6	1753.9	1750.3
37.5°	1629.2	1623.8	1652.7	1656.3	1667.1	1670.8	1649.1	1672.6	1658.1	1683.4	1681.6
40°	1551.4	1546.0	1574.9	1578.5	1589.4	1589.4	1571.3	1596.6	1585.8	1609.3	1611.1
42.5°	1473.7	1468.2	1493.6	1500.8	1509.8	1509.8	1491.8	1518.9	1511.6	1535.2	1540.6
45°	1392.3	1386.9	1410.4	1417.6	1428.5	1428.5	1410.4	1441.1	1435.7	1459.2	1466.4
47.5°	1312.7	1305.5	1327.2	1334.4	1345.3	1343.5	1329.0	1359.8	1357.9	1381.5	1394.1
50°	1226.0	1220.5	1242.2	1249.5	1262.1	1258.5	1247.7	1280.2	1280.2	1303.7	1321.8
52.5°	1141.0	1135.5	1157.2	1164.5	1175.3	1175.3	1164.5	1198.8	1204.3	1227.8	1249.5
55°	1054.2	1046.9	1068.6	1075.9	1088.5	1090.3	1081.3	1115.7	1126.5	1153.6	1177.1
57.5°	967.4	963.8	981.8	989.1	1005.4	1005.4	999.9	1036.1	1050.6	1079.5	1106.6
60°	878.8	875.2	891.4	900.5	918.6	922.2	918.6	956.5	976.4	1005.4	1036.1
62.5°	790.2	786.6	802.8	815.5	835.4	839.0	840.8	880.6	902.3	933.0	967.4
65°	701.6	698.0	714.2	728.7	752.2	757.6	763.1	804.6	830.0	862.5	898.7
67.5°	613.0	611.2	627.4	645.5	670.8	678.1	687.1	730.5	759.4	793.8	833.6
70°	526.2	524.4	540.6	562.3	593.1	602.1	613.0	656.4	692.5	728.7	768.5
72.5°	439.4	441.2	459.3	484.6	519.0	528.0	542.5	587.7	627.4	665.4	707.0
75°	359.8	359.8	379.7	408.7	446.6	459.3	475.6	522.6	564.2	603.9	647.3
77.5°	278.5	278.5	302.0	338.1	379.7	392.4	412.3	461.1	506.3	546.1	589.5
80°	204.3	207.9	235.1	271.2	314.6	330.9	354.4	403.2	452.0	491.8	535.2
82.5°	139.2	144.7	173.6	215.2	258.6	274.8	298.4	350.8	399.6	441.2	486.4
85°	83.2	92.2	123.0	164.5	209.7	227.8	253.1	302.0	350.8	392.4	437.6
87.5°	38.0	50.6	83.2	124.8	168.2	188.1	209.7	256.8	305.6	347.2	394.2
90°	3.6	21.7	54.2	90.4	132.0	150.1	171.8	217.0	264.0	302.0	347.2
92.5°	0.0	9.0	32.5	65.1	101.3	119.3	139.2	182.6	224.2	262.2	305.6
95°	0.0	3.6	18.1	45.2	75.9	92.2	110.3	150.1	191.7	227.8	267.6
97.5°	0.0	1.8	10.8	30.7	56.1	70.5	86.8	123.0	160.9	195.3	231.4
100°	0.0	1.8	5.4	19.9	41.6	52.4	68.7	99.5	133.8	164.5	200.7
102.5°	0.0	0.0	3.6	12.7	30.7	39.8	52.4	79.6	110.3	139.2	171.8
105°	0.0	0.0	1.8	9.0	21.7	28.9	39.8	63.3	90.4	115.7	146.5
107.5°	0.0	0.0	1.8	5.4	14.5	21.7	30.7	48.8	72.3	95.8	123.0
110°	1.8	1.8	1.8	3.6	10.8	16.3	21.7	38.0	59.7	79.6	103.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.8	1.8	1.8	1.8	7.2	10.8	16.3	28.9	47.0	63.3	85.0
115°	1.8	1.8	1.8	1.8	5.4	7.2	10.8	21.7	36.2	50.6	68.7
117.5°	1.8	1.8	1.8	1.8	3.6	5.4	7.2	16.3	27.1	39.8	56.1
120°	1.8	1.8	1.8	1.8	1.8	3.6	5.4	10.8	21.7	30.7	45.2
122.5°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	9.0	16.3	23.5	34.4
125°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	10.8	18.1	27.1
127.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	7.2	12.7	19.9
130°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	9.0	14.5
132.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	7.2	10.8
135°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	7.2
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.4
140°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
142.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
145°	1.8	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
147.5°	1.8	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
150°	1.8	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
152.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
155°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8
157.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8
160°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8
162.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8
165°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8
167.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8
170°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
172.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8
175°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
177.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9	2310.9
2.5°	2300.0	2305.4	2310.9	2296.4	2305.4	2321.7	2327.1	2305.4	2312.7	2298.2
5°	2292.8	2296.4	2303.6	2285.6	2298.2	2312.7	2321.7	2303.6	2314.5	2303.6
7.5°	2278.3	2281.9	2291.0	2272.9	2289.2	2301.8	2312.7	2294.6	2305.4	2294.6
10°	2256.6	2262.0	2274.7	2253.0	2272.9	2283.7	2294.6	2274.7	2285.6	2274.7
12.5°	2229.5	2238.5	2249.4	2229.5	2249.4	2258.4	2272.9	2253.0	2265.7	2256.6
15°	2196.9	2206.0	2220.5	2200.6	2225.9	2233.1	2247.6	2227.7	2240.3	2231.3
17.5°	2159.0	2169.8	2187.9	2164.4	2193.3	2198.8	2213.2	2195.1	2207.8	2198.8
20°	2115.6	2126.4	2144.5	2122.8	2151.7	2155.4	2171.6	2155.4	2168.0	2162.6
22.5°	2065.0	2077.6	2095.7	2075.8	2106.5	2106.5	2126.4	2110.2	2124.6	2119.2
25°	2012.5	2027.0	2046.9	2025.2	2057.7	2057.7	2079.4	2063.1	2077.6	2074.0
27.5°	1956.5	1972.7	1996.2	1974.5	2007.1	2005.3	2027.0	2012.5	2028.8	2023.4
30°	1896.8	1914.9	1938.4	1920.3	1954.7	1951.0	1972.7	1960.1	1974.5	1972.7
32.5°	1831.7	1851.6	1880.5	1860.6	1895.0	1891.4	1918.5	1904.0	1922.1	1918.5
35°	1766.6	1788.3	1817.2	1799.1	1837.1	1831.7	1858.8	1846.2	1864.2	1862.4
37.5°	1699.7	1723.2	1752.1	1737.7	1773.8	1768.4	1797.3	1786.5	1806.4	1801.0
40°	1631.0	1654.5	1685.2	1672.6	1710.5	1703.3	1734.1	1725.0	1744.9	1741.3
42.5°	1562.3	1587.6	1618.3	1611.1	1647.3	1640.0	1670.8	1663.5	1683.4	1679.8
45°	1491.8	1518.9	1551.4	1544.2	1582.2	1574.9	1605.7	1600.2	1620.1	1618.3
47.5°	1421.2	1450.2	1482.7	1479.1	1515.3	1508.0	1540.6	1535.2	1555.0	1555.0
50°	1348.9	1381.5	1414.0	1412.2	1448.4	1441.1	1470.1	1470.1	1491.8	1489.9
52.5°	1276.6	1310.9	1345.3	1345.3	1381.5	1374.2	1406.8	1405.0	1426.7	1426.7
55°	1207.9	1238.6	1273.0	1280.2	1314.6	1303.7	1338.1	1341.7	1359.8	1361.6
57.5°	1139.2	1171.7	1206.1	1215.1	1247.7	1240.4	1273.0	1276.6	1294.7	1296.5
60°	1070.4	1101.2	1135.5	1148.2	1180.7	1173.5	1206.1	1209.7	1229.6	1231.4
62.5°	1001.7	1032.5	1070.4	1083.1	1113.8	1108.4	1142.8	1146.4	1164.5	1168.1
65°	934.8	967.4	1003.5	1021.6	1050.6	1043.3	1077.7	1081.3	1101.2	1103.0
67.5°	869.7	902.3	938.4	958.3	985.5	981.8	1014.4	1021.6	1037.9	1041.5
70°	806.5	839.0	877.0	896.9	924.0	922.2	952.9	958.3	976.4	978.2
72.5°	745.0	777.5	815.5	839.0	862.5	860.7	891.4	898.7	916.8	918.6
75°	685.3	719.7	755.8	781.1	804.6	802.8	833.6	840.8	857.1	858.9
77.5°	629.2	663.6	701.6	726.9	746.8	748.6	775.7	782.9	799.2	804.6
80°	576.8	609.4	645.5	672.6	690.7	694.3	719.7	728.7	741.4	748.6
82.5°	526.2	558.7	594.9	620.2	638.3	641.9	665.4	676.3	688.9	694.3
85°	477.4	509.9	544.3	571.4	587.7	589.5	613.0	623.8	634.7	643.7
87.5°	430.3	462.9	495.4	524.4	538.8	542.5	564.2	575.0	584.0	593.1
90°	383.3	415.9	448.4	475.6	490.0	491.8	515.3	526.2	535.2	542.5
92.5°	339.9	372.5	405.0	432.2	444.8	448.4	468.3	481.0	488.2	495.4
95°	298.4	330.9	359.8	388.8	401.4	406.8	424.9	435.8	444.8	448.4
97.5°	262.2	291.1	318.2	347.2	358.0	363.4	381.5	394.2	401.4	405.0
100°	227.8	255.0	280.3	307.4	318.2	323.7	339.9	350.8	358.0	363.4
102.5°	197.1	222.4	245.9	271.2	282.1	285.7	300.2	311.0	318.2	323.7
105°	170.0	193.5	215.2	238.7	247.7	253.1	265.8	274.8	282.1	285.7
107.5°	144.7	168.2	186.2	207.9	217.0	220.6	233.3	244.1	249.5	251.3
110°	123.0	142.8	160.9	179.0	189.9	193.5	204.3	213.4	218.8	220.6



TEST NUMBER: P894433
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	103.1	121.1	137.4	153.7	162.7	166.4	177.2	186.2	189.9	191.7
115°	85.0	103.1	115.7	132.0	139.2	142.8	151.9	160.9	162.7	166.4
117.5°	68.7	85.0	97.6	110.3	117.5	121.1	128.4	135.6	139.2	141.0
120°	56.1	68.7	79.6	92.2	97.6	101.3	108.5	115.7	117.5	119.3
122.5°	45.2	56.1	65.1	75.9	81.4	85.0	90.4	95.8	97.6	99.5
125°	34.4	45.2	52.4	61.5	66.9	68.7	74.1	79.6	81.4	83.2
127.5°	27.1	34.4	41.6	48.8	52.4	54.2	59.7	63.3	65.1	66.9
130°	19.9	25.3	30.7	38.0	41.6	43.4	47.0	50.6	52.4	52.4
132.5°	14.5	19.9	23.5	28.9	30.7	32.5	36.2	39.8	39.8	41.6
135°	9.0	12.7	16.3	19.9	23.5	23.5	27.1	28.9	30.7	30.7
137.5°	7.2	9.0	10.8	14.5	16.3	18.1	18.1	21.7	21.7	21.7
140°	5.4	7.2	7.2	9.0	10.8	12.7	12.7	14.5	14.5	14.5
142.5°	3.6	5.4	5.4	7.2	7.2	9.0	9.0	9.0	10.8	10.8
145°	3.6	3.6	3.6	5.4	5.4	5.4	5.4	7.2	7.2	7.2
147.5°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4
150°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
152.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
155°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
157.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
167.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
170°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
172.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
175°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
177.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



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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	17.60	19.13	18.07	19.59	20.08	19.17	20.70	19.64	21.16	21.65
	3H	19.27	20.68	19.76	21.14	21.67	21.79	23.20	22.28	23.66	24.19
	4H	19.87	21.20	20.38	21.69	22.23	23.11	24.44	23.61	24.92	25.46
	6H	20.27	21.51	20.79	22.01	22.57	24.51	25.75	25.03	26.25	26.81
	8H	20.39	21.58	20.92	22.10	22.66	25.26	26.45	25.79	26.97	27.53
	12H	20.46	21.60	21.00	22.12	22.71	26.11	27.25	26.65	27.77	28.36
4H	2H	18.53	19.86	19.03	20.34	20.88	19.72	21.05	20.23	21.54	22.08
	3H	20.50	21.64	21.02	22.17	22.73	22.64	23.77	23.15	24.30	24.86
	4H	21.28	22.32	21.82	22.86	23.45	24.16	25.20	24.70	25.74	26.34
	6H	21.86	22.78	22.42	23.35	23.95	25.80	26.72	26.36	27.29	27.90
	8H	22.04	22.91	22.60	23.47	24.10	26.69	27.55	27.25	28.12	28.74
	12H	22.17	22.96	22.75	23.55	24.17	27.69	28.48	28.27	29.07	29.70
8H	4H	22.16	23.03	22.72	23.59	24.21	24.52	25.39	25.08	25.95	26.57
	6H	23.04	23.78	23.63	24.38	25.01	26.42	27.16	27.02	27.77	28.39
	8H	23.39	24.05	23.99	24.67	25.31	27.51	28.17	28.11	28.79	29.43
	12H	23.66	24.26	24.27	24.86	25.57	28.77	29.37	29.38	29.97	30.68
12H	4H	22.44	23.22	23.02	23.82	24.44	24.56	25.35	25.15	25.94	26.57
	6H	23.49	24.16	24.10	24.77	25.41	26.53	27.20	27.14	27.82	28.46
	8H	24.01	24.60	24.62	25.21	25.91	27.73	28.32	28.34	28.93	29.64