

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: P894436

Luminaire Tested: 8TMB-10SL-RND-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894436
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-L950
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

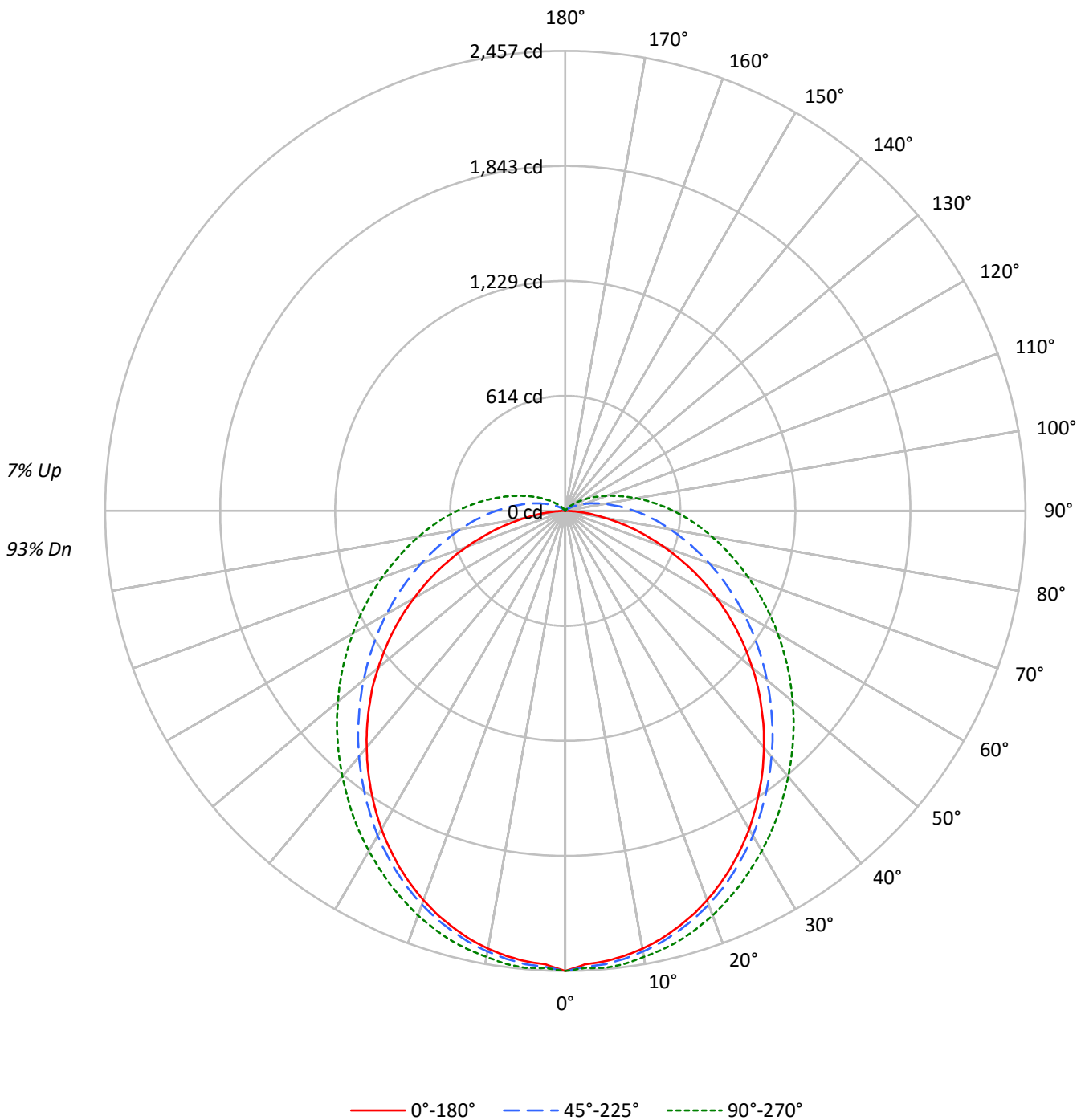
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8134.9 lumens
Efficiency: N/A
Efficacy: 116.2 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 (A_{in}): 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

TEST NUMBER: P894436
CATALOG NUMBER: 8TMB-10SL-RND-UNV-L950

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°	8719	8719	8719
5°	8602	8657	8725
10°	8556	8611	8715
15°	8469	8539	8716
20°	8357	8451	8683
25°	8213	8333	8634
30°	8043	8209	8595
35°	7846	8062	8578
40°	7641	7935	8577
45°	7429	7825	8635
50°	7196	7759	8746
55°	6934	7744	8957
60°	6631	7819	9292
65°	6264	8023	9847
70°	5804	8478	10791
75°	5245	9437	12520
80°	4440	11630	16265
85°	3599	18942	27866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 51303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	2.9
10°-20°	662.1	8.1
20°-30°	991.5	12.2
30°-40°	1182.2	14.5
40°-50°	1226.1	15.1
50°-60°	1137.5	14.0
60°-70°	948.9	11.7
70°-80°	707.5	8.7
80°-90°	471.1	5.8
90°-100°	286.8	3.5
100°-110°	160.1	2.0
110°-120°	80.0	1.0
120°-130°	33.4	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°	1886.0	23.2
0°-40°	3068.2	37.7
0°-60°	5431.8	66.8
0°-90°	7559.3	92.9
90°-120°	526.9	6.5
90°-150°	573.5	7.0
90°-180°	576.0	7.1
0°-180°	8134.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2457	2457	2457	2457	2457	
5°	2415	2471	2430	2444	2450	229
15°	2306	2365	2325	2367	2373	650
25°	2098	2154	2129	2188	2206	966
35°	1811	1859	1861	1954	1980	1133
45°	1481	1519	1559	1682	1721	1143
55°	1121	1160	1252	1398	1448	1002
65°	746	806	956	1117	1173	738
75°	383	488	688	856	913	404
85°	88	242	465	625	684	99
90°	4	160	369	521	577	7
95°	0	98	285	427	477	0
105°	0	31	156	263	304	0
115°	2	8	73	148	177	2
125°	2	2	29	71	88	2
135°	2	2	8	25	33	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: P894436
 CATALOG NUMBER: 8TMB-10SL-RND-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4
2.5°	2424.7	2428.5	2463.1	2461.2	2455.4	2478.5	2484.3	2465.1	2434.3	2465.1	2438.1
5°	2415.1	2418.9	2453.5	2451.6	2445.8	2470.8	2472.8	2455.4	2424.7	2455.4	2430.5
7.5°	2397.8	2401.6	2436.2	2434.3	2430.5	2455.4	2453.5	2440.1	2407.4	2440.1	2413.1
10°	2374.7	2376.6	2413.1	2409.3	2407.4	2432.4	2426.6	2415.1	2382.4	2415.1	2390.1
12.5°	2343.9	2345.8	2382.4	2378.5	2378.5	2401.6	2393.9	2384.3	2351.6	2382.4	2361.2
15°	2305.5	2307.4	2342.0	2340.1	2340.1	2365.1	2353.5	2345.8	2315.1	2347.8	2324.7
17.5°	2263.2	2261.2	2297.8	2293.9	2297.8	2320.9	2305.5	2301.6	2272.8	2303.5	2284.3
20°	2213.2	2213.2	2245.9	2243.9	2249.7	2270.9	2251.6	2253.6	2224.7	2257.4	2238.2
22.5°	2157.4	2155.5	2188.2	2188.2	2193.9	2215.1	2193.9	2199.7	2170.9	2201.6	2186.3
25°	2097.8	2094.0	2126.6	2126.6	2136.3	2153.6	2130.5	2138.2	2111.3	2142.0	2128.6
27.5°	2032.4	2026.7	2059.3	2061.3	2069.0	2086.3	2061.3	2072.8	2047.8	2076.7	2067.0
30°	1963.2	1957.4	1990.1	1992.0	2001.7	2015.1	1990.1	2005.5	1982.4	2011.3	2003.6
32.5°	1888.2	1884.4	1915.1	1919.0	1928.6	1938.2	1915.1	1930.5	1911.3	1940.1	1932.4
35°	1811.3	1807.5	1836.3	1842.1	1851.7	1859.4	1834.4	1855.5	1838.2	1865.1	1861.3
37.5°	1732.5	1726.7	1757.5	1761.3	1772.8	1776.7	1753.6	1778.6	1763.2	1790.2	1788.2
40°	1649.8	1644.0	1674.8	1678.6	1690.2	1690.2	1670.9	1697.9	1686.3	1711.3	1713.2
42.5°	1567.1	1561.3	1588.3	1595.9	1605.6	1605.6	1586.3	1615.2	1607.5	1632.5	1638.2
45°	1480.6	1474.8	1499.8	1507.5	1519.0	1519.0	1499.8	1532.5	1526.7	1551.7	1559.4
47.5°	1396.0	1388.3	1411.4	1419.0	1430.6	1428.7	1413.3	1446.0	1444.0	1469.0	1482.5
50°	1303.7	1297.9	1321.0	1328.7	1342.1	1338.3	1326.7	1361.4	1361.4	1386.4	1405.6
52.5°	1213.3	1207.5	1230.6	1238.3	1249.8	1249.8	1238.3	1274.8	1280.6	1305.6	1328.7
55°	1121.0	1113.3	1136.4	1144.1	1157.5	1159.5	1149.8	1186.4	1197.9	1226.8	1251.8
57.5°	1028.7	1024.9	1044.1	1051.8	1069.1	1069.1	1063.3	1101.8	1117.2	1147.9	1176.8
60°	934.5	930.6	948.0	957.6	976.8	980.6	976.8	1017.2	1038.3	1069.1	1101.8
62.5°	840.3	836.4	853.7	867.2	888.3	892.2	894.1	936.4	959.5	992.2	1028.7
65°	746.1	742.2	759.5	774.9	799.9	805.7	811.4	855.7	882.6	917.2	955.6
67.5°	651.8	649.9	667.2	686.4	713.4	721.1	730.7	776.8	807.6	844.1	886.4
70°	559.5	557.6	574.9	598.0	630.7	640.3	651.8	698.0	736.4	774.9	817.2
72.5°	467.2	469.2	488.4	515.3	551.9	561.5	576.8	624.9	667.2	707.6	751.8
75°	382.6	382.6	403.8	434.6	474.9	488.4	505.7	555.7	599.9	642.2	688.4
77.5°	296.1	296.1	321.1	359.6	403.8	417.3	438.4	490.3	538.4	580.7	626.8
80°	217.3	221.1	250.0	288.4	334.6	351.9	376.9	428.8	480.7	523.0	569.2
82.5°	148.1	153.8	184.6	228.8	275.0	292.3	317.3	373.0	424.9	469.2	517.2
85°	88.4	98.1	130.8	175.0	223.0	242.3	269.2	321.1	373.0	417.3	465.3
87.5°	40.4	53.8	88.4	132.7	178.8	200.0	223.0	273.0	325.0	369.2	419.2
90°	3.8	23.1	57.7	96.1	140.4	159.6	182.7	230.7	280.7	321.1	369.2
92.5°	0.0	9.6	34.6	69.2	107.7	126.9	148.1	194.2	238.4	278.8	325.0
95°	0.0	3.8	19.2	48.1	80.8	98.1	117.3	159.6	203.8	242.3	284.6
97.5°	0.0	1.9	11.5	32.7	59.6	75.0	92.3	130.8	171.1	207.7	246.1
100°	0.0	1.9	5.8	21.2	44.2	55.8	73.1	105.8	142.3	175.0	213.4
102.5°	0.0	0.0	3.8	13.5	32.7	42.3	55.8	84.6	117.3	148.1	182.7
105°	0.0	0.0	1.9	9.6	23.1	30.8	42.3	67.3	96.1	123.1	155.7
107.5°	0.0	0.0	1.9	5.8	15.4	23.1	32.7	51.9	76.9	101.9	130.8
110°	1.9	1.9	1.9	3.8	11.5	17.3	23.1	40.4	63.5	84.6	109.6



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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	7.7	11.5	17.3	30.8	50.0	67.3	90.4
115°	1.9	1.9	1.9	1.9	5.8	7.7	11.5	23.1	38.5	53.8	73.1
117.5°	1.9	1.9	1.9	1.9	3.8	5.8	7.7	17.3	28.8	42.3	59.6
120°	1.9	1.9	1.9	1.9	1.9	3.8	5.8	11.5	23.1	32.7	48.1
122.5°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	9.6	17.3	25.0	36.5
125°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.8	11.5	19.2	28.8
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.8	7.7	13.5	21.2
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.8	9.6	15.4
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.8	7.7	11.5
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.8	7.7
137.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.8
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°	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4
2.5°	2445.8	2451.6	2457.4	2442.0	2451.6	2468.9	2474.7	2451.6	2459.3	2443.9
5°	2438.1	2442.0	2449.7	2430.5	2443.9	2459.3	2468.9	2449.7	2461.2	2449.7
7.5°	2422.8	2426.6	2436.2	2417.0	2434.3	2447.8	2459.3	2440.1	2451.6	2440.1
10°	2399.7	2405.5	2418.9	2395.8	2417.0	2428.5	2440.1	2418.9	2430.5	2418.9
12.5°	2370.8	2380.5	2392.0	2370.8	2392.0	2401.6	2417.0	2395.8	2409.3	2399.7
15°	2336.2	2345.8	2361.2	2340.1	2367.0	2374.7	2390.1	2368.9	2382.4	2372.8
17.5°	2295.9	2307.4	2326.6	2301.6	2332.4	2338.2	2353.5	2334.3	2347.8	2338.2
20°	2249.7	2261.2	2280.5	2257.4	2288.2	2292.0	2309.3	2292.0	2305.5	2299.7
22.5°	2195.9	2209.3	2228.6	2207.4	2240.1	2240.1	2261.2	2243.9	2259.3	2253.6
25°	2140.1	2155.5	2176.6	2153.6	2188.2	2188.2	2211.2	2193.9	2209.3	2205.5
27.5°	2080.5	2097.8	2122.8	2099.7	2134.3	2132.4	2155.5	2140.1	2157.4	2151.6
30°	2017.0	2036.3	2061.3	2042.0	2078.6	2074.7	2097.8	2084.3	2099.7	2097.8
32.5°	1947.8	1969.0	1999.7	1978.6	2015.1	2011.3	2040.1	2024.7	2044.0	2040.1
35°	1878.6	1901.7	1932.4	1913.2	1953.6	1947.8	1976.7	1963.2	1982.4	1980.5
37.5°	1807.5	1832.5	1863.2	1847.8	1886.3	1880.5	1911.3	1899.8	1920.9	1915.1
40°	1734.4	1759.4	1792.1	1778.6	1819.0	1811.3	1844.0	1834.4	1855.5	1851.7
42.5°	1661.3	1688.2	1720.9	1713.2	1751.7	1744.0	1776.7	1769.0	1790.2	1786.3
45°	1586.3	1615.2	1649.8	1642.1	1682.5	1674.8	1707.5	1701.7	1722.9	1720.9
47.5°	1511.3	1542.1	1576.7	1572.9	1611.3	1603.6	1638.2	1632.5	1653.6	1653.6
50°	1434.4	1469.0	1503.6	1501.7	1540.2	1532.5	1563.3	1563.3	1586.3	1584.4
52.5°	1357.5	1394.0	1430.6	1430.6	1469.0	1461.3	1496.0	1494.0	1517.1	1517.1
55°	1284.4	1317.1	1353.7	1361.4	1397.9	1386.4	1422.9	1426.7	1446.0	1447.9
57.5°	1211.4	1246.0	1282.5	1292.1	1326.7	1319.1	1353.7	1357.5	1376.7	1378.7
60°	1138.3	1171.0	1207.5	1221.0	1255.6	1247.9	1282.5	1286.4	1307.5	1309.4
62.5°	1065.2	1097.9	1138.3	1151.8	1184.5	1178.7	1215.2	1219.1	1238.3	1242.1
65°	994.1	1028.7	1067.2	1086.4	1117.2	1109.5	1146.0	1149.8	1171.0	1172.9
67.5°	924.9	959.5	997.9	1019.1	1047.9	1044.1	1078.7	1086.4	1103.7	1107.5
70°	857.6	892.2	932.6	953.7	982.6	980.6	1013.3	1019.1	1038.3	1040.2
72.5°	792.2	826.8	867.2	892.2	917.2	915.3	948.0	955.6	974.9	976.8
75°	728.8	765.3	803.7	830.7	855.7	853.7	886.4	894.1	911.4	913.3
77.5°	669.1	705.7	746.1	773.0	794.1	796.0	824.9	832.6	849.9	855.7
80°	613.4	648.0	686.4	715.3	734.5	738.4	765.3	774.9	788.4	796.0
82.5°	559.5	594.2	632.6	659.5	678.8	682.6	707.6	719.1	732.6	738.4
85°	507.6	542.2	578.8	607.6	624.9	626.8	651.8	663.4	674.9	684.5
87.5°	457.6	492.2	526.9	557.6	573.0	576.8	599.9	611.5	621.1	630.7
90°	407.6	442.2	476.9	505.7	521.1	523.0	548.0	559.5	569.2	576.8
92.5°	361.5	396.1	430.7	459.6	473.0	476.9	498.0	511.5	519.2	526.9
95°	317.3	351.9	382.6	413.4	426.9	432.6	451.9	463.4	473.0	476.9
97.5°	278.8	309.6	338.4	369.2	380.7	386.5	405.7	419.2	426.9	430.7
100°	242.3	271.1	298.0	326.9	338.4	344.2	361.5	373.0	380.7	386.5
102.5°	209.6	236.5	261.5	288.4	300.0	303.8	319.2	330.7	338.4	344.2
105°	180.7	205.7	228.8	253.8	263.4	269.2	282.7	292.3	300.0	303.8
107.5°	153.8	178.8	198.1	221.1	230.7	234.6	248.0	259.6	265.3	267.3
110°	130.8	151.9	171.1	190.4	201.9	205.7	217.3	226.9	232.7	234.6



TEST NUMBER: P894436
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	109.6	128.8	146.1	163.4	173.1	176.9	188.4	198.1	201.9	203.8
115°	90.4	109.6	123.1	140.4	148.1	151.9	161.5	171.1	173.1	176.9
117.5°	73.1	90.4	103.8	117.3	125.0	128.8	136.5	144.2	148.1	150.0
120°	59.6	73.1	84.6	98.1	103.8	107.7	115.4	123.1	125.0	126.9
122.5°	48.1	59.6	69.2	80.8	86.5	90.4	96.1	101.9	103.8	105.8
125°	36.5	48.1	55.8	65.4	71.1	73.1	78.8	84.6	86.5	88.4
127.5°	28.8	36.5	44.2	51.9	55.8	57.7	63.5	67.3	69.2	71.1
130°	21.2	26.9	32.7	40.4	44.2	46.1	50.0	53.8	55.8	55.8
132.5°	15.4	21.2	25.0	30.8	32.7	34.6	38.5	42.3	42.3	44.2
135°	9.6	13.5	17.3	21.2	25.0	25.0	28.8	30.8	32.7	32.7
137.5°	7.7	9.6	11.5	15.4	17.3	19.2	19.2	23.1	23.1	23.1
140°	5.8	7.7	7.7	9.6	11.5	13.5	13.5	15.4	15.4	15.4
142.5°	3.8	5.8	5.8	7.7	7.7	9.6	9.6	9.6	11.5	11.5
145°	3.8	3.8	3.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7
147.5°	1.9	1.9	3.8	3.8	3.8	3.8	3.8	5.8	5.8	5.8
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



TEST NUMBER: P894436
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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	17.81	19.35	18.28	19.81	20.29	19.38	20.92	19.85	21.38	21.86
	3H	19.49	20.89	19.97	21.36	21.89	22.01	23.41	22.49	23.88	24.41
	4H	20.09	21.42	20.59	21.90	22.44	23.32	24.65	23.82	25.13	25.67
	6H	20.48	21.72	21.00	22.22	22.78	24.72	25.96	25.24	26.46	27.02
	8H	20.60	21.79	21.13	22.31	22.87	25.47	26.66	26.00	27.18	27.75
	12H	20.68	21.82	21.21	22.33	22.93	26.32	27.46	26.86	27.98	28.57
4H	2H	18.74	20.07	19.24	20.55	21.09	19.93	21.26	20.44	21.75	22.29
	3H	20.72	21.85	21.24	22.38	22.95	22.85	23.99	23.37	24.51	25.08
	4H	21.49	22.53	22.03	23.07	23.67	24.37	25.42	24.91	25.95	26.55
	6H	22.07	22.99	22.63	23.56	24.17	26.02	26.94	26.57	27.50	28.11
	8H	22.26	23.12	22.82	23.69	24.31	26.90	27.77	27.46	28.33	28.95
	12H	22.38	23.17	22.96	23.76	24.39	27.90	28.69	28.49	29.28	29.91
8H	4H	22.37	23.24	22.93	23.80	24.43	24.74	25.60	25.30	26.17	26.79
	6H	23.25	23.99	23.85	24.60	25.22	26.64	27.37	27.23	27.98	28.61
	8H	23.60	24.27	24.21	24.88	25.52	27.72	28.39	28.33	29.00	29.64
	12H	23.87	24.47	24.48	25.07	25.78	28.98	29.58	29.59	30.18	30.89
12H	4H	22.65	23.44	23.23	24.03	24.66	24.78	25.57	25.36	26.16	26.78
	6H	23.70	24.37	24.31	24.99	25.63	26.75	27.41	27.35	28.03	28.67
	8H	24.22	24.82	24.83	25.42	26.13	27.94	28.54	28.55	29.14	29.85