

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: P895264

Luminaire Tested: 8TMB-8SL-RND-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895264
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-L850
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

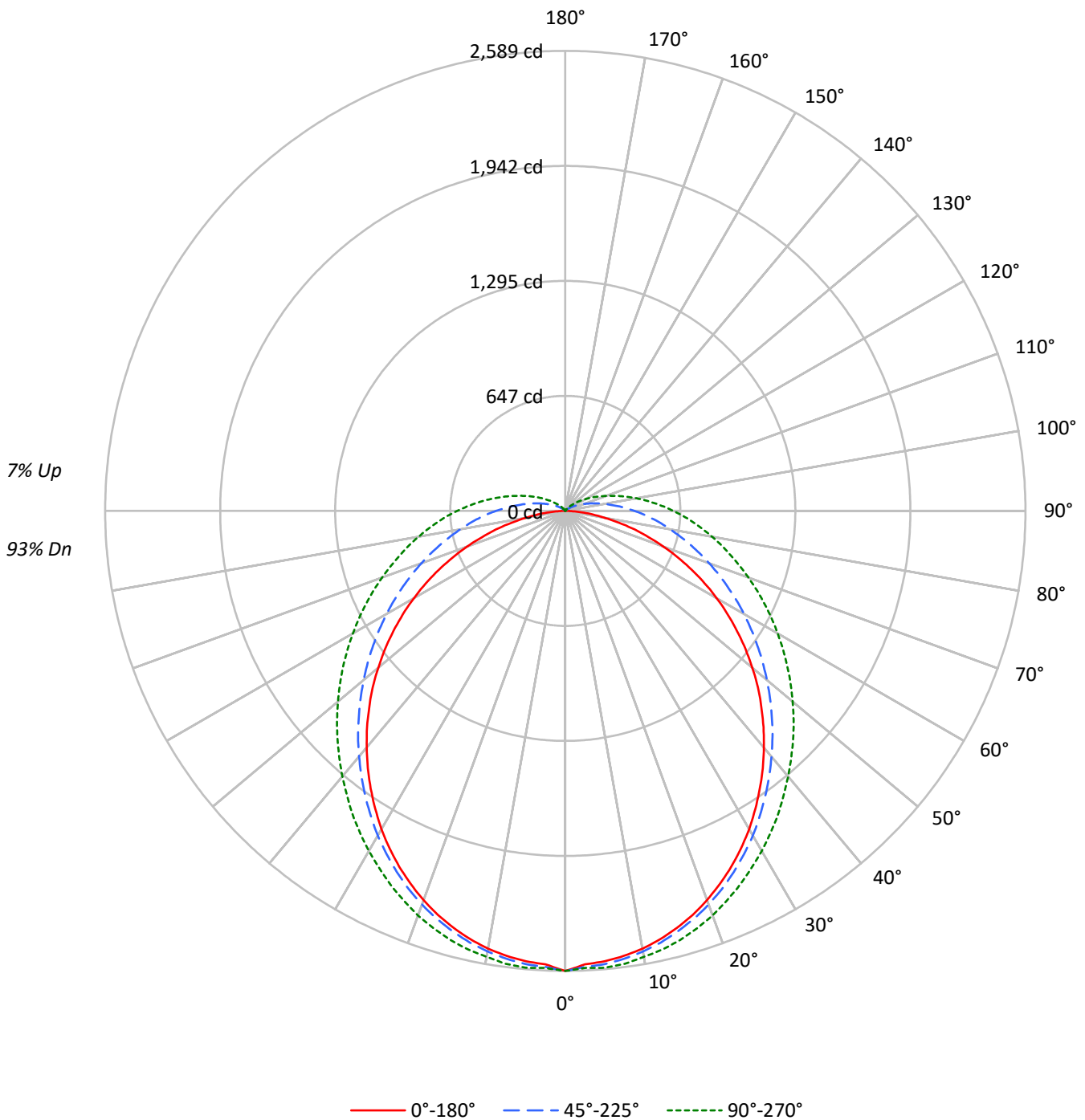
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8570.0 lumens
Efficiency: N/A
Efficacy: 143.8 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_{in}): 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

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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°	9185	9185	9185
5°	9062	9119	9192
10°	9013	9072	9181
15°	8921	8996	9182
20°	8803	8903	9148
25°	8652	8779	9096
30°	8473	8648	9054
35°	8265	8493	9037
40°	8050	8359	9035
45°	7826	8243	9097
50°	7581	8173	9213
55°	7306	8157	9435
60°	6986	8237	9789
65°	6598	8452	10374
70°	6116	8931	11369
75°	5526	9942	13191
80°	4677	12252	17135
85°	3794	19956	29356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 54044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.8	2.9
10°-20°	697.5	8.1
20°-30°	1044.5	12.2
30°-40°	1245.4	14.5
40°-50°	1291.6	15.1
50°-60°	1198.3	14.0
60°-70°	999.7	11.7
70°-80°	745.3	8.7
80°-90°	496.3	5.8
90°-100°	302.1	3.5
100°-110°	168.7	2.0
110°-120°	84.3	1.0
120°-130°	35.2	0.4
130°-140°	11.1	0.1
140°-150°	2.7	0.0
150°-160°	1.2	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	1986.9	23.2
0°-40°	3232.3	37.7
0°-60°	5722.2	66.8
0°-90°	7963.5	92.9
90°-120°	555.1	6.5
90°-150°	604.1	7.0
90°-180°	606.0	7.1
0°-180°	8570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2589	2589	2589	2589	2589	
5°	2544	2603	2560	2575	2581	242
15°	2429	2492	2449	2494	2500	685
25°	2210	2269	2242	2305	2323	1017
35°	1908	1959	1961	2058	2086	1194
45°	1560	1600	1643	1772	1813	1204
55°	1181	1222	1319	1473	1525	1056
65°	786	849	1007	1177	1236	778
75°	403	514	725	901	962	426
85°	93	255	490	658	721	105
90°	4	168	389	549	608	7
95°	0	103	300	450	502	0
105°	0	32	164	278	320	0
115°	2	8	77	156	186	2
125°	2	2	30	75	93	2
135°	2	2	8	26	34	2
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: P895264
 CATALOG NUMBER: 8TMB-8SL-RND-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8
2.5°	2554.3	2558.4	2594.8	2592.8	2586.7	2611.1	2617.1	2596.9	2564.5	2596.9	2568.5
5°	2544.2	2548.3	2584.7	2582.7	2576.6	2603.0	2605.0	2586.7	2554.3	2586.7	2560.4
7.5°	2526.0	2530.0	2566.5	2564.5	2560.4	2586.7	2584.7	2570.5	2536.1	2570.5	2542.2
10°	2501.7	2503.7	2542.2	2538.1	2536.1	2562.4	2556.4	2544.2	2509.8	2544.2	2517.9
12.5°	2469.3	2471.3	2509.8	2505.7	2505.7	2530.0	2521.9	2511.8	2477.4	2509.8	2487.5
15°	2428.7	2430.8	2467.2	2465.2	2465.2	2491.5	2479.4	2471.3	2438.9	2473.3	2449.0
17.5°	2384.2	2382.2	2420.6	2416.6	2420.6	2445.0	2428.7	2424.7	2394.3	2426.7	2406.5
20°	2331.5	2331.5	2366.0	2363.9	2370.0	2392.3	2372.0	2374.1	2343.7	2378.1	2357.8
22.5°	2272.8	2270.7	2305.2	2305.2	2311.3	2333.5	2311.3	2317.3	2287.0	2319.4	2303.2
25°	2210.0	2205.9	2240.4	2240.4	2250.5	2268.7	2244.4	2252.5	2224.2	2256.6	2242.4
27.5°	2141.1	2135.0	2169.5	2171.5	2179.6	2197.8	2171.5	2183.6	2157.3	2187.7	2177.6
30°	2068.2	2062.1	2096.5	2098.6	2108.7	2122.9	2096.5	2112.7	2088.4	2118.8	2110.7
32.5°	1989.2	1985.1	2017.5	2021.6	2031.7	2041.8	2017.5	2033.7	2013.5	2043.9	2035.8
35°	1908.2	1904.1	1934.5	1940.6	1950.7	1958.8	1932.5	1954.7	1936.5	1964.9	1960.8
37.5°	1825.1	1819.0	1851.4	1855.5	1867.6	1871.7	1847.4	1873.7	1857.5	1885.9	1883.8
40°	1738.0	1731.9	1764.3	1768.4	1780.5	1780.5	1760.3	1788.6	1776.5	1802.8	1804.8
42.5°	1650.9	1644.8	1673.2	1681.3	1691.4	1691.4	1671.2	1701.5	1693.4	1719.8	1725.8
45°	1559.7	1553.7	1580.0	1588.1	1600.3	1600.3	1580.0	1614.4	1608.4	1634.7	1642.8
47.5°	1470.6	1462.5	1486.8	1494.9	1507.1	1505.1	1488.8	1523.3	1521.3	1547.6	1561.8
50°	1373.4	1367.3	1391.6	1399.7	1413.9	1409.8	1397.7	1434.2	1434.2	1460.5	1480.7
52.5°	1278.2	1272.1	1296.4	1304.5	1316.7	1316.7	1304.5	1343.0	1349.1	1375.4	1399.7
55°	1181.0	1172.8	1197.2	1205.3	1219.4	1221.5	1211.3	1249.8	1262.0	1292.4	1318.7
57.5°	1083.7	1079.7	1099.9	1108.0	1126.3	1126.3	1120.2	1160.7	1176.9	1209.3	1239.7
60°	984.5	980.4	998.6	1008.8	1029.0	1033.1	1029.0	1071.6	1093.8	1126.3	1160.7
62.5°	885.2	881.2	899.4	913.6	935.8	939.9	941.9	986.5	1010.8	1045.2	1083.7
65°	785.9	781.9	800.1	816.3	842.7	848.7	854.8	901.4	929.8	966.2	1006.7
67.5°	686.7	684.7	702.9	723.2	751.5	759.6	769.7	818.4	850.8	889.3	933.8
70°	589.5	587.4	605.7	630.0	664.4	674.5	686.7	735.3	775.8	816.3	860.9
72.5°	492.2	494.3	514.5	542.9	581.4	591.5	607.7	658.3	702.9	745.4	792.0
75°	403.1	403.1	425.4	457.8	500.3	514.5	532.7	585.4	632.0	676.6	725.2
77.5°	311.9	311.9	338.3	378.8	425.4	439.6	461.8	516.5	567.2	611.7	660.4
80°	228.9	232.9	263.3	303.8	352.5	370.7	397.0	451.7	506.4	551.0	599.6
82.5°	156.0	162.1	194.5	241.1	289.7	307.9	334.2	393.0	447.7	494.3	544.9
85°	93.2	103.3	137.7	184.3	235.0	255.2	283.6	338.3	393.0	439.6	490.2
87.5°	42.5	56.7	93.2	139.8	188.4	210.7	235.0	287.6	342.3	388.9	441.6
90°	4.1	24.3	60.8	101.3	147.9	168.1	192.4	243.1	295.7	338.3	388.9
92.5°	0.0	10.1	36.5	72.9	113.4	133.7	156.0	204.6	251.2	293.7	342.3
95°	0.0	4.1	20.3	50.6	85.1	103.3	123.6	168.1	214.7	255.2	299.8
97.5°	0.0	2.0	12.2	34.4	62.8	79.0	97.2	137.7	180.3	218.8	259.3
100°	0.0	2.0	6.1	22.3	46.6	58.7	77.0	111.4	149.9	184.3	224.8
102.5°	0.0	0.0	4.1	14.2	34.4	44.6	58.7	89.1	123.6	156.0	192.4
105°	0.0	0.0	2.0	10.1	24.3	32.4	44.6	70.9	101.3	129.6	164.1
107.5°	0.0	0.0	2.0	6.1	16.2	24.3	34.4	54.7	81.0	107.4	137.7
110°	2.0	2.0	2.0	4.1	12.2	18.2	24.3	42.5	66.8	89.1	115.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.0	2.0	2.0	2.0	8.1	12.2	18.2	32.4	52.7	70.9	95.2
115°	2.0	2.0	2.0	2.0	6.1	8.1	12.2	24.3	40.5	56.7	77.0
117.5°	2.0	2.0	2.0	2.0	4.1	6.1	8.1	18.2	30.4	44.6	62.8
120°	2.0	2.0	2.0	2.0	2.0	4.1	6.1	12.2	24.3	34.4	50.6
122.5°	2.0	2.0	2.0	2.0	2.0	4.1	4.1	10.1	18.2	26.3	38.5
125°	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	12.2	20.3	30.4
127.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	8.1	14.2	22.3
130°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	10.1	16.2
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	8.1	12.2
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	8.1
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	6.1
140°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1
145°	2.0	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
147.5°	2.0	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
152.5°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0
155°	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0
157.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0
160°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0
162.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0
165°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0
167.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0
170°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
172.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0
175°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
177.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8
2.5°	2576.6	2582.7	2588.8	2572.6	2582.7	2600.9	2607.0	2582.7	2590.8	2574.6
5°	2568.5	2572.6	2580.7	2560.4	2574.6	2590.8	2600.9	2580.7	2592.8	2580.7
7.5°	2552.3	2556.4	2566.5	2546.2	2564.5	2578.6	2590.8	2570.5	2582.7	2570.5
10°	2528.0	2534.1	2548.3	2524.0	2546.2	2558.4	2570.5	2548.3	2560.4	2548.3
12.5°	2497.6	2507.7	2519.9	2497.6	2519.9	2530.0	2546.2	2524.0	2538.1	2528.0
15°	2461.2	2471.3	2487.5	2465.2	2493.6	2501.7	2517.9	2495.6	2509.8	2499.6
17.5°	2418.6	2430.8	2451.0	2424.7	2457.1	2463.2	2479.4	2459.1	2473.3	2463.2
20°	2370.0	2382.2	2402.4	2378.1	2410.5	2414.6	2432.8	2414.6	2428.7	2422.7
22.5°	2313.3	2327.5	2347.7	2325.4	2359.9	2359.9	2382.2	2363.9	2380.1	2374.1
25°	2254.5	2270.7	2293.0	2268.7	2305.2	2305.2	2329.5	2311.3	2327.5	2323.4
27.5°	2191.7	2210.0	2236.3	2212.0	2248.5	2246.4	2270.7	2254.5	2272.8	2266.7
30°	2124.9	2145.2	2171.5	2151.2	2189.7	2185.7	2210.0	2195.8	2212.0	2210.0
32.5°	2052.0	2074.3	2106.7	2084.4	2122.9	2118.8	2149.2	2133.0	2153.3	2149.2
35°	1979.1	2003.4	2035.8	2015.5	2058.1	2052.0	2082.4	2068.2	2088.4	2086.4
37.5°	1904.1	1930.4	1962.8	1946.6	1987.2	1981.1	2013.5	2001.3	2023.6	2017.5
40°	1827.1	1853.5	1887.9	1873.7	1916.3	1908.2	1942.6	1932.5	1954.7	1950.7
42.5°	1750.2	1778.5	1813.0	1804.8	1845.4	1837.3	1871.7	1863.6	1885.9	1881.8
45°	1671.2	1701.5	1738.0	1729.9	1772.4	1764.3	1798.8	1792.7	1815.0	1813.0
47.5°	1592.2	1624.6	1661.0	1657.0	1697.5	1689.4	1725.8	1719.8	1742.1	1742.1
50°	1511.1	1547.6	1584.1	1582.0	1622.5	1614.4	1646.8	1646.8	1671.2	1669.1
52.5°	1430.1	1468.6	1507.1	1507.1	1547.6	1539.5	1576.0	1573.9	1598.2	1598.2
55°	1353.1	1387.6	1426.1	1434.2	1472.6	1460.5	1499.0	1503.0	1523.3	1525.3
57.5°	1276.2	1312.6	1351.1	1361.2	1397.7	1389.6	1426.1	1430.1	1450.4	1452.4
60°	1199.2	1233.6	1272.1	1286.3	1322.7	1314.6	1351.1	1355.2	1377.4	1379.5
62.5°	1122.2	1156.6	1199.2	1213.4	1247.8	1241.7	1280.2	1284.3	1304.5	1308.6
65°	1047.3	1083.7	1124.2	1144.5	1176.9	1168.8	1207.3	1211.3	1233.6	1235.6
67.5°	974.3	1010.8	1051.3	1073.6	1104.0	1099.9	1136.4	1144.5	1162.7	1166.8
70°	903.4	939.9	982.4	1004.7	1035.1	1033.1	1067.5	1073.6	1093.8	1095.9
72.5°	834.6	871.0	913.6	939.9	966.2	964.2	998.6	1006.7	1027.0	1029.0
75°	767.7	806.2	846.7	875.1	901.4	899.4	933.8	941.9	960.2	962.2
77.5°	704.9	743.4	785.9	814.3	836.6	838.6	869.0	877.1	895.3	901.4
80°	646.2	682.6	723.2	753.5	773.8	777.8	806.2	816.3	830.5	838.6
82.5°	589.5	625.9	666.4	694.8	715.1	719.1	745.4	757.6	771.8	777.8
85°	534.8	571.2	609.7	640.1	658.3	660.4	686.7	698.8	711.0	721.1
87.5°	482.1	518.6	555.0	587.4	603.6	607.7	632.0	644.2	654.3	664.4
90°	429.4	465.9	502.4	532.7	548.9	551.0	577.3	589.5	599.6	607.7
92.5°	380.8	417.3	453.7	484.1	498.3	502.4	524.6	538.8	546.9	555.0
95°	334.2	370.7	403.1	435.5	449.7	455.8	476.0	488.2	498.3	502.4
97.5°	293.7	326.1	356.5	388.9	401.1	407.2	427.4	441.6	449.7	453.7
100°	255.2	285.6	314.0	344.4	356.5	362.6	380.8	393.0	401.1	407.2
102.5°	220.8	249.2	275.5	303.8	316.0	320.1	336.3	348.4	356.5	362.6
105°	190.4	216.7	241.1	267.4	277.5	283.6	297.8	307.9	316.0	320.1
107.5°	162.1	188.4	208.6	232.9	243.1	247.1	261.3	273.5	279.5	281.6
110°	137.7	160.0	180.3	200.5	212.7	216.7	228.9	239.0	245.1	247.1



TEST NUMBER: P895264
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	115.5	135.7	153.9	172.2	182.3	186.4	198.5	208.6	212.7	214.7
115°	95.2	115.5	129.6	147.9	156.0	160.0	170.2	180.3	182.3	186.4
117.5°	77.0	95.2	109.4	123.6	131.7	135.7	143.8	151.9	156.0	158.0
120°	62.8	77.0	89.1	103.3	109.4	113.4	121.5	129.6	131.7	133.7
122.5°	50.6	62.8	72.9	85.1	91.2	95.2	101.3	107.4	109.4	111.4
125°	38.5	50.6	58.7	68.9	74.9	77.0	83.1	89.1	91.2	93.2
127.5°	30.4	38.5	46.6	54.7	58.7	60.8	66.8	70.9	72.9	74.9
130°	22.3	28.4	34.4	42.5	46.6	48.6	52.7	56.7	58.7	58.7
132.5°	16.2	22.3	26.3	32.4	34.4	36.5	40.5	44.6	44.6	46.6
135°	10.1	14.2	18.2	22.3	26.3	26.3	30.4	32.4	34.4	34.4
137.5°	8.1	10.1	12.2	16.2	18.2	20.3	20.3	24.3	24.3	24.3
140°	6.1	8.1	8.1	10.1	12.2	14.2	14.2	16.2	16.2	16.2
142.5°	4.1	6.1	6.1	8.1	8.1	10.1	10.1	10.1	12.2	12.2
145°	4.1	4.1	4.1	6.1	6.1	6.1	6.1	8.1	8.1	8.1
147.5°	2.0	2.0	4.1	4.1	4.1	4.1	4.1	6.1	6.1	6.1
150°	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1



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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	17.99	19.53	18.46	19.99	20.47	19.56	21.10	20.03	21.56	22.04
	3H	19.67	21.07	20.15	21.54	22.07	22.19	23.59	22.67	24.06	24.59
	4H	20.27	21.60	20.77	22.08	22.62	23.50	24.83	24.00	25.32	25.86
	6H	20.67	21.90	21.18	22.40	22.96	24.91	26.14	25.42	26.64	27.20
	8H	20.78	21.97	21.31	22.49	23.05	25.65	26.84	26.18	27.36	27.93
	12H	20.86	22.00	21.39	22.51	23.11	26.50	27.64	27.04	28.16	28.75
4H	2H	18.92	20.25	19.42	20.73	21.28	20.12	21.45	20.62	21.93	22.47
	3H	20.90	22.04	21.42	22.56	23.13	23.03	24.17	23.55	24.69	25.26
	4H	21.67	22.72	22.21	23.25	23.85	24.56	25.60	25.09	26.13	26.73
	6H	22.26	23.18	22.81	23.74	24.35	26.20	27.12	26.75	27.68	28.29
	8H	22.44	23.30	23.00	23.87	24.49	27.08	27.95	27.64	28.51	29.13
	12H	22.56	23.35	23.14	23.94	24.57	28.08	28.87	28.67	29.46	30.09
8H	4H	22.55	23.42	23.12	23.98	24.61	24.92	25.78	25.48	26.35	26.97
	6H	23.44	24.17	24.03	24.78	25.41	26.82	27.55	27.41	28.16	28.79
	8H	23.78	24.45	24.39	25.07	25.71	27.90	28.57	28.51	29.18	29.82
	12H	24.05	24.65	24.66	25.25	25.96	29.17	29.76	29.77	30.37	31.07
12H	4H	22.83	23.62	23.41	24.21	24.84	24.96	25.75	25.54	26.34	26.97
	6H	23.88	24.55	24.49	25.17	25.81	26.93	27.59	27.53	28.21	28.85
	8H	24.40	25.00	25.01	25.60	26.31	28.12	28.72	28.73	29.32	30.03