

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: P895214

Luminaire Tested: 8TMB-8SL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-FLT-UNV-L835
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

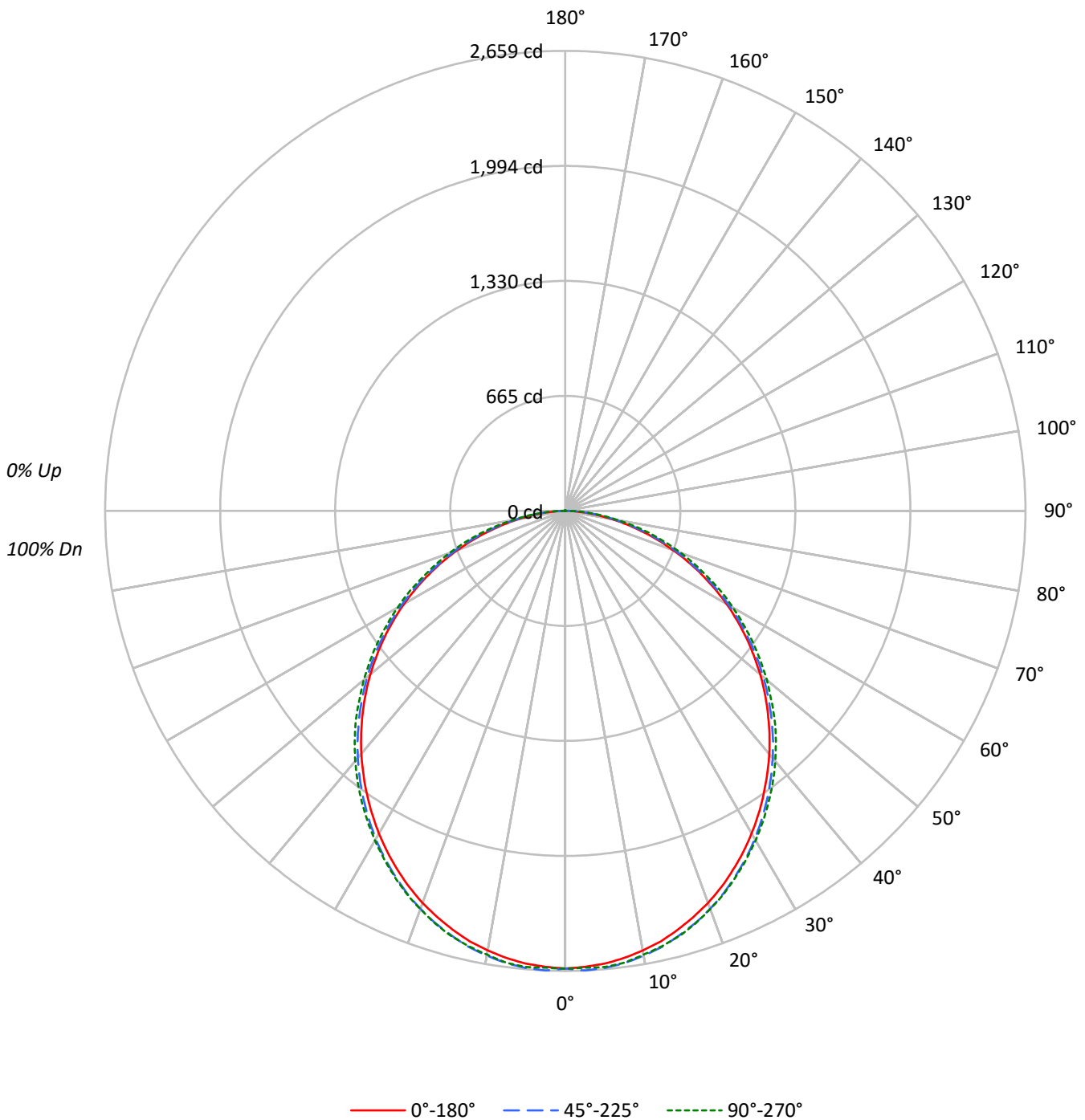
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7342.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83	83	83	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	58	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50	50	50	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38	38	38	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30	30	30	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9386	9386	9386
5°	9353	9442	9421
10°	9293	9405	9384
15°	9212	9333	9347
20°	9103	9242	9249
25°	8969	9112	9135
30°	8823	8973	9013
35°	8656	8807	8883
40°	8494	8637	8745
45°	8308	8444	8590
50°	8113	8241	8391
55°	7894	8014	8182
60°	7641	7764	7943
65°	7300	7446	7641
70°	6871	7071	7393
75°	6318	6583	7008
80°	5578	6013	6330
85°	4808	5520	5911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	3.4
10°-20°	713.0	9.7
20°-30°	1068.4	14.6
30°-40°	1271.3	17.3
40°-50°	1304.4	17.8
50°-60°	1168.6	15.9
60°-70°	887.9	12.1
70°-80°	516.1	7.0
80°-90°	154.9	2.1
90°-100°	3.7	0.0
100°-110°	0.6	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.0
130°-140°	0.8	0.0
140°-150°	1.1	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	2031.5	27.7
0°-40°	3302.8	45.0
0°-60°	5775.8	78.7
0°-90°	7334.7	99.9
90°-120°	4.3	0.1
90°-150°	6.5	0.1
90°-180°	8.0	0.1
0°-180°	7342.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2645	2645	2645	2645	2645	
5°	2626	2670	2651	2638	2645	249
15°	2508	2556	2541	2537	2544	707
25°	2291	2343	2328	2324	2334	1056
35°	1998	2047	2033	2039	2051	1250
45°	1656	1696	1683	1696	1712	1278
55°	1276	1307	1296	1311	1323	1140
65°	870	891	887	902	910	860
75°	461	478	480	498	511	489
85°	118	128	136	145	145	129
90°	2	8	8	14	12	8
95°	0	2	2	4	6	0
105°	0	0	0	2	2	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
135°	0	0	2	0	0	1
145°	2	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	4	4	4	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2
2.5°	2637.5	2633.6	2637.5	2635.5	2654.9	2678.2	2674.3	2656.8	2637.5	2643.3	2658.8
5°	2625.9	2623.9	2629.7	2625.9	2645.2	2670.4	2662.7	2647.2	2629.7	2635.5	2651.0
7.5°	2606.5	2606.5	2614.2	2610.4	2627.8	2653.0	2645.2	2631.7	2614.2	2620.1	2635.5
10°	2579.4	2581.3	2591.0	2585.2	2600.7	2627.8	2620.1	2606.5	2591.0	2594.9	2610.4
12.5°	2548.4	2548.4	2560.0	2554.2	2569.7	2594.9	2585.2	2575.5	2560.0	2563.9	2581.3
15°	2507.7	2509.7	2523.2	2517.4	2531.0	2556.2	2546.5	2538.7	2525.2	2527.1	2540.7
17.5°	2461.3	2467.1	2480.6	2474.8	2488.4	2513.5	2501.9	2494.2	2482.6	2484.5	2498.1
20°	2410.9	2416.7	2430.3	2426.4	2436.1	2461.3	2449.6	2445.8	2434.2	2436.1	2447.7
22.5°	2354.8	2360.6	2376.1	2372.2	2381.9	2407.0	2393.5	2391.6	2379.9	2381.9	2391.6
25°	2290.9	2298.6	2316.0	2312.2	2319.9	2343.1	2331.5	2327.6	2319.9	2319.9	2327.6
27.5°	2225.0	2232.8	2252.1	2246.3	2252.1	2277.3	2263.7	2261.8	2254.1	2254.1	2261.8
30°	2153.4	2161.1	2182.4	2176.6	2182.4	2203.7	2190.2	2192.1	2184.3	2184.3	2190.2
32.5°	2077.8	2083.7	2106.9	2103.0	2106.9	2128.2	2114.6	2116.6	2108.8	2110.8	2112.7
35°	1998.4	2004.3	2029.4	2025.6	2027.5	2046.9	2037.2	2037.2	2031.4	2029.4	2033.3
37.5°	1917.1	1922.9	1953.9	1944.2	1944.2	1963.6	1955.8	1955.8	1950.0	1948.1	1950.0
40°	1833.8	1837.7	1870.6	1861.0	1859.0	1876.4	1870.6	1870.6	1866.8	1862.9	1864.8
42.5°	1746.7	1752.5	1785.4	1777.7	1769.9	1789.3	1783.5	1785.4	1779.6	1775.8	1775.8
45°	1655.7	1661.5	1694.4	1690.5	1678.9	1696.4	1690.5	1694.4	1686.7	1682.8	1682.8
47.5°	1564.7	1572.4	1603.4	1597.6	1586.0	1603.4	1597.6	1601.5	1593.7	1589.8	1589.8
50°	1469.8	1477.5	1510.5	1500.8	1489.2	1506.6	1502.7	1504.6	1498.8	1495.0	1493.0
52.5°	1373.0	1382.6	1413.6	1402.0	1392.3	1407.8	1405.9	1407.8	1400.1	1398.1	1396.2
55°	1276.1	1285.8	1314.9	1301.3	1293.6	1307.1	1303.3	1307.1	1299.4	1297.4	1295.5
57.5°	1175.4	1185.1	1212.2	1198.7	1192.9	1204.5	1202.6	1204.5	1198.7	1196.7	1194.8
60°	1076.7	1084.4	1109.6	1096.0	1090.2	1101.9	1098.0	1103.8	1096.0	1096.0	1094.1
62.5°	972.1	981.8	1007.0	991.5	987.6	997.3	993.4	999.2	995.4	991.5	989.5
65°	869.5	875.3	898.5	885.0	879.2	890.8	888.8	892.7	886.9	888.8	886.9
67.5°	766.8	770.7	794.0	778.5	774.6	786.2	788.1	786.2	782.3	784.3	782.3
70°	662.3	666.1	685.5	672.0	670.0	679.7	683.6	681.6	677.8	679.7	681.6
72.5°	561.6	563.5	580.9	569.3	567.4	579.0	579.0	579.0	579.0	579.0	582.9
75°	460.9	462.8	478.3	468.6	466.7	478.3	478.3	478.3	478.3	482.2	480.2
77.5°	364.1	362.1	377.6	371.8	367.9	379.5	379.5	381.5	385.4	389.2	383.4
80°	273.0	271.1	282.7	275.0	275.0	286.6	284.7	286.6	290.5	292.4	294.3
82.5°	191.7	187.8	197.5	195.6	193.6	203.3	205.3	203.3	209.1	211.1	211.1
85°	118.1	118.1	123.9	120.1	120.1	127.8	127.8	129.7	133.6	135.6	135.6
87.5°	56.2	54.2	60.0	58.1	56.2	62.0	62.0	63.9	65.8	67.8	65.8
90°	1.9	1.9	3.9	3.9	3.9	7.7	7.7	7.7	9.7	9.7	7.7
92.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	3.9	3.9	3.9	3.9
95°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	1.9
132.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
135°	0.0	1.9	1.9	1.9	1.9	0.0	1.9	0.0	0.0	0.0	1.9
137.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
140°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
145°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
152.5°	1.9	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	1.9
157.5°	1.9	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	1.9
162.5°	1.9	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	1.9
167.5°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	1.9	1.9
170°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	1.9	1.9
175°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	1.9	3.9	3.9
177.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2	2645.2
2.5°	2635.5	2622.0	2616.2	2620.1	2647.2	2620.1	2649.1	2658.8	2623.9	2643.3
5°	2627.8	2614.2	2606.5	2610.4	2637.5	2612.3	2643.3	2654.9	2625.9	2645.2
7.5°	2612.3	2596.8	2592.9	2598.8	2622.0	2600.7	2631.7	2643.3	2614.2	2633.6
10°	2589.1	2575.5	2571.6	2577.5	2598.8	2577.5	2604.6	2614.2	2587.1	2604.6
12.5°	2560.0	2546.5	2542.6	2550.3	2569.7	2550.3	2577.5	2587.1	2560.0	2577.5
15°	2523.2	2509.7	2507.7	2519.4	2536.8	2519.4	2546.5	2554.2	2527.1	2544.5
17.5°	2478.7	2465.1	2467.1	2480.6	2494.2	2478.7	2503.9	2511.6	2486.4	2500.0
20°	2430.3	2414.8	2418.7	2430.3	2441.9	2426.4	2451.6	2459.3	2436.1	2449.6
22.5°	2374.1	2358.6	2362.5	2376.1	2383.8	2370.3	2393.5	2401.2	2381.9	2395.4
25°	2312.2	2298.6	2304.4	2318.0	2323.8	2312.2	2333.5	2339.3	2321.8	2333.5
27.5°	2250.2	2234.7	2242.4	2256.0	2259.9	2248.3	2269.6	2273.4	2256.0	2267.6
30°	2180.5	2165.0	2174.7	2190.2	2190.2	2182.4	2199.8	2203.7	2190.2	2199.8
32.5°	2103.0	2091.4	2103.0	2116.6	2114.6	2108.8	2126.3	2130.1	2118.5	2126.3
35°	2025.6	2015.9	2027.5	2041.0	2039.1	2033.3	2050.7	2052.7	2043.0	2050.7
37.5°	1946.2	1938.4	1950.0	1961.7	1957.8	1953.9	1969.4	1969.4	1963.6	1971.3
40°	1864.8	1857.1	1866.8	1880.3	1872.6	1872.6	1882.3	1886.1	1880.3	1888.1
42.5°	1779.6	1771.9	1783.5	1795.1	1787.4	1785.4	1797.1	1799.0	1795.1	1800.9
45°	1690.5	1682.8	1694.4	1704.1	1696.4	1696.4	1706.0	1706.0	1704.1	1711.8
47.5°	1599.5	1593.7	1603.4	1613.1	1605.3	1611.2	1611.2	1611.2	1615.0	1613.1
50°	1506.6	1500.8	1508.5	1520.1	1510.5	1512.4	1516.3	1516.3	1518.2	1520.1
52.5°	1409.8	1402.0	1409.8	1423.3	1409.8	1415.6	1417.5	1419.4	1425.2	1421.4
55°	1312.9	1305.2	1312.9	1324.6	1311.0	1318.7	1318.7	1320.7	1326.5	1322.6
57.5°	1212.2	1204.5	1216.1	1223.9	1210.3	1218.0	1218.0	1221.9	1225.8	1220.0
60°	1111.5	1105.7	1109.6	1123.2	1109.6	1117.3	1117.3	1117.3	1125.1	1119.3
62.5°	1008.9	1005.0	1008.9	1020.5	1007.0	1014.7	1012.8	1014.7	1022.5	1020.5
65°	904.3	900.5	904.3	916.0	902.4	910.1	910.1	912.1	917.9	910.1
67.5°	801.7	795.9	801.7	811.4	799.8	805.6	805.6	805.6	815.3	811.4
70°	697.1	693.3	697.1	706.8	697.1	701.0	701.0	701.0	710.7	712.6
72.5°	594.5	594.5	598.4	606.1	598.4	606.1	600.3	596.4	610.0	611.9
75°	493.8	495.7	497.7	505.4	497.7	505.4	501.5	497.7	509.3	511.2
77.5°	400.9	400.9	402.8	408.6	402.8	408.6	404.7	404.7	412.5	410.5
80°	306.0	306.0	307.9	313.7	307.9	313.7	309.8	309.8	317.6	309.8
82.5°	222.7	222.7	222.7	228.5	224.6	228.5	226.6	222.7	232.4	224.6
85°	143.3	145.2	145.2	147.2	145.2	147.2	147.2	145.2	151.0	145.2
87.5°	73.6	73.6	73.6	75.5	73.6	73.6	75.5	73.6	77.5	75.5
90°	13.6	11.6	11.6	15.5	13.6	13.6	15.5	11.6	13.6	11.6
92.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7
95°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8
97.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9	3.9
100°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
102.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
105°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	1.9	1.9
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.9



TEST NUMBER: P895214

CATALOG NUMBER: 8TMB-8SL-FLT-UNV-L835

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.9	1.9	1.9	1.9	0.0	1.9	0.0	0.0	0.0	0.0
140°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
145°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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	1.9
177.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



TEST NUMBER: P895214
 CATALOG NUMBER: 8TMB-8SL-FLT-UNV-L835

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	19.29	20.92	19.65	21.24	21.56	19.42	21.06	19.79	21.38	21.69
	3H	21.11	22.59	21.49	22.92	23.28	21.26	22.74	21.63	23.07	23.43
	4H	21.77	23.17	22.17	23.52	23.89	21.96	23.36	22.36	23.71	24.09
	6H	22.22	23.52	22.64	23.88	24.28	22.52	23.81	22.93	24.18	24.57
	8H	22.36	23.60	22.79	23.99	24.39	22.71	23.95	23.14	24.34	24.74
	12H	22.46	23.64	22.89	24.03	24.46	22.86	24.04	23.29	24.43	24.86
4H	2H	19.92	21.32	20.32	21.67	22.04	20.03	21.42	20.43	21.77	22.15
	3H	21.96	23.13	22.37	23.53	23.94	22.10	23.27	22.51	23.67	24.07
	4H	22.75	23.82	23.19	24.23	24.67	22.94	24.00	23.37	24.42	24.85
	6H	23.33	24.26	23.79	24.70	25.16	23.63	24.56	24.09	25.00	25.46
	8H	23.52	24.39	23.98	24.83	25.30	23.88	24.75	24.34	25.19	25.66
	12H	23.66	24.45	24.14	24.92	25.39	24.07	24.85	24.55	25.33	25.80
8H	4H	23.08	23.95	23.55	24.40	24.86	23.25	24.12	23.71	24.56	25.03
	6H	23.79	24.51	24.28	25.00	25.48	24.08	24.80	24.57	25.29	25.77
	8H	24.05	24.70	24.56	25.21	25.70	24.41	25.06	24.92	25.56	26.05
	12H	24.27	24.84	24.77	25.33	25.90	24.69	25.26	25.20	25.76	26.32
12H	4H	23.13	23.91	23.61	24.39	24.86	23.28	24.06	23.76	24.54	25.01
	6H	23.86	24.51	24.37	25.02	25.50	24.13	24.78	24.64	25.29	25.78
	8H	24.18	24.76	24.69	25.25	25.81	24.53	25.10	25.03	25.59	26.16