

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: P895213

Luminaire Tested: 8TMB-8SL-FLT-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895213
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-L830
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

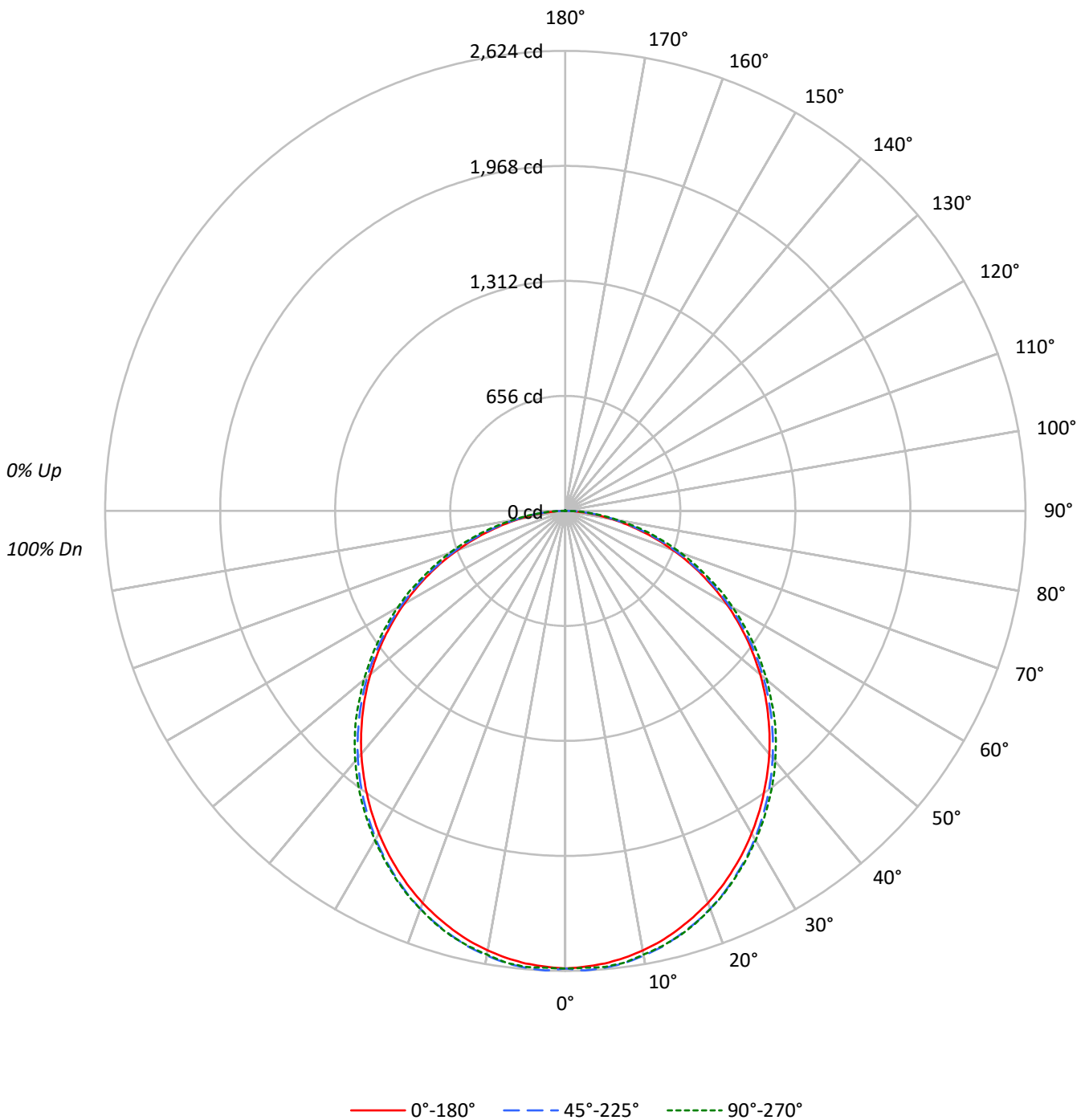
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7246.0 lumens
Efficiency: N/A
Efficacy: 121.6 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	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9262	9262	9262
5°	9229	9317	9297
10°	9170	9281	9260
15°	9090	9209	9223
20°	8983	9120	9127
25°	8850	8992	9015
30°	8706	8855	8894
35°	8542	8691	8765
40°	8382	8523	8629
45°	8198	8333	8476
50°	8006	8132	8280
55°	7790	7908	8073
60°	7540	7662	7838
65°	7203	7348	7540
70°	6779	6978	7295
75°	6235	6497	6916
80°	5505	5936	6246
85°	4747	5447	5834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	3.4
10°-20°	703.5	9.7
20°-30°	1054.3	14.5
30°-40°	1254.5	17.3
40°-50°	1287.2	17.8
50°-60°	1153.2	15.9
60°-70°	876.2	12.1
70°-80°	509.3	7.0
80°-90°	152.8	2.1
90°-100°	3.6	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°	2004.7	27.7
0°-40°	3259.1	45.0
0°-60°	5699.5	78.7
0°-90°	7237.8	99.9
90°-120°	4.3	0.1
90°-150°	6.5	0.1
90°-180°	8.0	0.1
0°-180°	7246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2610	2610	2610	2610	2610	
5°	2591	2635	2616	2603	2610	246
15°	2475	2522	2507	2503	2511	698
25°	2261	2312	2297	2293	2303	1042
35°	1972	2020	2006	2012	2024	1234
45°	1634	1674	1661	1674	1689	1261
55°	1259	1290	1278	1294	1305	1125
65°	858	879	875	890	898	849
75°	455	472	474	491	504	482
85°	117	126	134	143	143	127
90°	2	8	8	13	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	



TEST NUMBER: P895213

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3
2.5°	2602.6	2598.8	2602.6	2600.7	2619.8	2642.8	2639.0	2621.8	2602.6	2608.4	2623.7
5°	2591.2	2589.3	2595.0	2591.2	2610.3	2635.1	2627.5	2612.2	2595.0	2600.7	2616.0
7.5°	2572.1	2572.1	2579.7	2575.9	2593.1	2617.9	2610.3	2596.9	2579.7	2585.4	2600.7
10°	2545.3	2547.2	2556.8	2551.0	2566.3	2593.1	2585.4	2572.1	2556.8	2560.6	2575.9
12.5°	2514.7	2514.7	2526.2	2520.5	2535.8	2560.6	2551.0	2541.5	2526.2	2530.0	2547.2
15°	2474.6	2476.5	2489.9	2484.2	2497.5	2522.4	2512.8	2505.2	2491.8	2493.7	2507.1
17.5°	2428.8	2434.5	2447.9	2442.1	2455.5	2480.3	2468.9	2461.2	2449.8	2451.7	2465.1
20°	2379.1	2384.8	2398.2	2394.4	2403.9	2428.8	2417.3	2413.5	2402.0	2403.9	2415.4
22.5°	2323.7	2329.4	2344.7	2340.9	2350.4	2375.2	2361.9	2360.0	2348.5	2350.4	2360.0
25°	2260.6	2268.2	2285.4	2281.6	2289.3	2312.2	2300.7	2296.9	2289.3	2289.3	2296.9
27.5°	2195.6	2203.3	2222.4	2216.6	2222.4	2247.2	2233.8	2231.9	2224.3	2224.3	2231.9
30°	2124.9	2132.6	2153.6	2147.8	2153.6	2174.6	2161.2	2163.1	2155.5	2155.5	2161.2
32.5°	2050.4	2056.1	2079.1	2075.2	2079.1	2100.1	2086.7	2088.6	2081.0	2082.9	2084.8
35°	1972.0	1977.8	2002.6	1998.8	2000.7	2019.8	2010.3	2010.3	2004.5	2002.6	2006.4
37.5°	1891.8	1897.5	1928.1	1918.5	1918.5	1937.7	1930.0	1930.0	1924.3	1922.4	1924.3
40°	1809.6	1813.4	1845.9	1836.4	1834.5	1851.7	1845.9	1845.9	1842.1	1838.3	1840.2
42.5°	1723.6	1729.4	1761.8	1754.2	1746.6	1765.7	1759.9	1761.8	1756.1	1752.3	1752.3
45°	1633.8	1639.6	1672.0	1668.2	1656.7	1673.9	1668.2	1672.0	1664.4	1660.6	1660.6
47.5°	1544.0	1551.6	1582.2	1576.5	1565.0	1582.2	1576.5	1580.3	1572.7	1568.8	1568.8
50°	1450.4	1458.0	1490.5	1480.9	1469.5	1486.7	1482.9	1484.8	1479.0	1475.2	1473.3
52.5°	1354.8	1364.4	1395.0	1383.5	1373.9	1389.2	1387.3	1389.2	1381.6	1379.7	1377.8
55°	1259.3	1268.8	1297.5	1284.1	1276.5	1289.9	1286.0	1289.9	1282.2	1280.3	1278.4
57.5°	1159.9	1169.5	1196.2	1182.8	1177.1	1188.6	1186.7	1188.6	1182.8	1180.9	1179.0
60°	1062.5	1070.1	1094.9	1081.6	1075.8	1087.3	1083.5	1089.2	1081.6	1081.6	1079.7
62.5°	959.3	968.8	993.7	978.4	974.6	984.1	980.3	986.0	982.2	978.4	976.5
65°	858.0	863.7	886.7	873.3	867.5	879.0	877.1	880.9	875.2	877.1	875.2
67.5°	756.7	760.5	783.5	768.2	764.4	775.8	777.7	775.8	772.0	773.9	772.0
70°	653.5	657.3	676.5	663.1	661.2	670.7	674.5	672.6	668.8	670.7	672.6
72.5°	554.2	556.1	573.3	561.8	559.9	571.4	571.4	571.4	571.4	571.4	575.2
75°	454.8	456.7	472.0	462.4	460.5	472.0	472.0	472.0	472.0	475.8	473.9
77.5°	359.2	357.3	372.6	366.9	363.1	374.5	374.5	376.4	380.3	384.1	378.4
80°	269.4	267.5	279.0	271.3	271.3	282.8	280.9	282.8	286.6	288.5	290.5
82.5°	189.2	185.4	194.9	193.0	191.1	200.6	202.6	200.6	206.4	208.3	208.3
85°	116.6	116.6	122.3	118.5	118.5	126.1	126.1	128.0	131.9	133.8	133.8
87.5°	55.4	53.5	59.2	57.3	55.4	61.1	61.1	63.1	65.0	66.9	65.0
90°	1.9	1.9	3.8	3.8	3.8	7.6	7.6	7.6	9.6	9.6	7.6
92.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8
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°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
170°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
175°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	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°	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°	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3	2610.3
2.5°	2600.7	2587.4	2581.6	2585.4	2612.2	2585.4	2614.1	2623.7	2589.3	2608.4
5°	2593.1	2579.7	2572.1	2575.9	2602.6	2577.8	2608.4	2619.8	2591.2	2610.3
7.5°	2577.8	2562.5	2558.7	2564.4	2587.4	2566.3	2596.9	2608.4	2579.7	2598.8
10°	2554.9	2541.5	2537.7	2543.4	2564.4	2543.4	2570.2	2579.7	2553.0	2570.2
12.5°	2526.2	2512.8	2509.0	2516.7	2535.8	2516.7	2543.4	2553.0	2526.2	2543.4
15°	2489.9	2476.5	2474.6	2486.1	2503.3	2486.1	2512.8	2520.5	2493.7	2510.9
17.5°	2445.9	2432.6	2434.5	2447.9	2461.2	2445.9	2470.8	2478.4	2453.6	2467.0
20°	2398.2	2382.9	2386.7	2398.2	2409.6	2394.4	2419.2	2426.8	2403.9	2417.3
22.5°	2342.8	2327.5	2331.3	2344.7	2352.3	2338.9	2361.9	2369.5	2350.4	2363.8
25°	2281.6	2268.2	2274.0	2287.3	2293.1	2281.6	2302.6	2308.4	2291.2	2302.6
27.5°	2220.5	2205.2	2212.8	2226.2	2230.0	2218.6	2239.6	2243.4	2226.2	2237.7
30°	2151.7	2136.4	2145.9	2161.2	2161.2	2153.6	2170.8	2174.6	2161.2	2170.8
32.5°	2075.2	2063.8	2075.2	2088.6	2086.7	2081.0	2098.2	2102.0	2090.5	2098.2
35°	1998.8	1989.2	2000.7	2014.1	2012.2	2006.4	2023.6	2025.6	2016.0	2023.6
37.5°	1920.5	1912.8	1924.3	1935.7	1931.9	1928.1	1943.4	1943.4	1937.7	1945.3
40°	1840.2	1832.6	1842.1	1855.5	1847.8	1847.8	1857.4	1861.2	1855.5	1863.1
42.5°	1756.1	1748.5	1759.9	1771.4	1763.8	1761.8	1773.3	1775.2	1771.4	1777.1
45°	1668.2	1660.6	1672.0	1681.6	1673.9	1673.9	1683.5	1683.5	1681.6	1689.2
47.5°	1578.4	1572.7	1582.2	1591.8	1584.1	1589.9	1589.9	1589.9	1593.7	1591.8
50°	1486.7	1480.9	1488.6	1500.1	1490.5	1492.4	1496.2	1496.2	1498.1	1500.1
52.5°	1391.1	1383.5	1391.1	1404.5	1391.1	1396.9	1398.8	1400.7	1406.4	1402.6
55°	1295.6	1287.9	1295.6	1307.1	1293.7	1301.3	1301.3	1303.2	1309.0	1305.1
57.5°	1196.2	1188.6	1200.0	1207.7	1194.3	1202.0	1202.0	1205.8	1209.6	1203.9
60°	1096.9	1091.1	1094.9	1108.3	1094.9	1102.6	1102.6	1102.6	1110.2	1104.5
62.5°	995.6	991.8	995.6	1007.0	993.7	1001.3	999.4	1001.3	1009.0	1007.0
65°	892.4	888.6	892.4	903.9	890.5	898.1	898.1	900.0	905.8	898.1
67.5°	791.1	785.4	791.1	800.7	789.2	794.9	794.9	794.9	804.5	800.7
70°	687.9	684.1	687.9	697.5	687.9	691.7	691.7	691.7	701.3	703.2
72.5°	586.6	586.6	590.5	598.1	590.5	598.1	592.4	588.6	601.9	603.8
75°	487.3	489.2	491.1	498.7	491.1	498.7	494.9	491.1	502.6	504.5
77.5°	395.6	395.6	397.5	403.2	397.5	403.2	399.4	399.4	407.0	405.1
80°	301.9	301.9	303.8	309.6	303.8	309.6	305.7	305.7	313.4	305.7
82.5°	219.8	219.8	219.8	225.5	221.7	225.5	223.6	219.8	229.3	221.7
85°	141.4	143.3	143.3	145.2	143.3	145.2	145.2	143.3	149.1	143.3
87.5°	72.6	72.6	72.6	74.5	72.6	72.6	74.5	72.6	76.4	74.5
90°	13.4	11.5	11.5	15.3	13.4	13.4	15.3	11.5	13.4	11.5
92.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	7.6
95°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7
97.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8
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: P895213

CATALOG NUMBER: 8TMB-8SL-FLT-UNV-L830

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: P895213
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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	19.24	20.88	19.61	21.19	21.51	19.38	21.01	19.74	21.33	21.65
	3H	21.06	22.54	21.44	22.87	23.24	21.21	22.69	21.59	23.02	23.38
	4H	21.72	23.12	22.12	23.47	23.85	21.92	23.31	22.32	23.66	24.04
	6H	22.18	23.47	22.59	23.84	24.23	22.47	23.77	22.89	24.13	24.53
	8H	22.32	23.55	22.74	23.94	24.35	22.67	23.91	23.09	24.30	24.70
	12H	22.41	23.60	22.84	23.98	24.41	22.81	24.00	23.24	24.38	24.81
4H	2H	19.87	21.27	20.27	21.62	22.00	19.98	21.38	20.38	21.73	22.11
	3H	21.91	23.09	22.33	23.49	23.89	22.05	23.22	22.46	23.62	24.02
	4H	22.71	23.77	23.14	24.18	24.62	22.89	23.96	23.33	24.37	24.81
	6H	23.28	24.21	23.74	24.65	25.11	23.59	24.51	24.04	24.96	25.41
	8H	23.47	24.34	23.94	24.79	25.25	23.83	24.70	24.29	25.15	25.61
	12H	23.62	24.40	24.10	24.88	25.35	24.03	24.81	24.51	25.28	25.76
8H	4H	23.04	23.91	23.50	24.35	24.82	23.20	24.07	23.66	24.52	24.98
	6H	23.74	24.46	24.23	24.95	25.43	24.03	24.75	24.52	25.24	25.72
	8H	24.00	24.65	24.51	25.16	25.65	24.36	25.01	24.87	25.52	26.01
	12H	24.22	24.80	24.73	25.29	25.85	24.64	25.22	25.15	25.71	26.27
12H	4H	23.08	23.86	23.56	24.34	24.81	23.24	24.02	23.72	24.49	24.97
	6H	23.81	24.46	24.32	24.97	25.46	24.09	24.74	24.60	25.24	25.73
	8H	24.14	24.71	24.64	25.20	25.77	24.48	25.06	24.99	25.55	26.11