

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: P895219

Luminaire Tested: 8TMB-8SL-FLT-UNV-L940

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895219  
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-L940  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

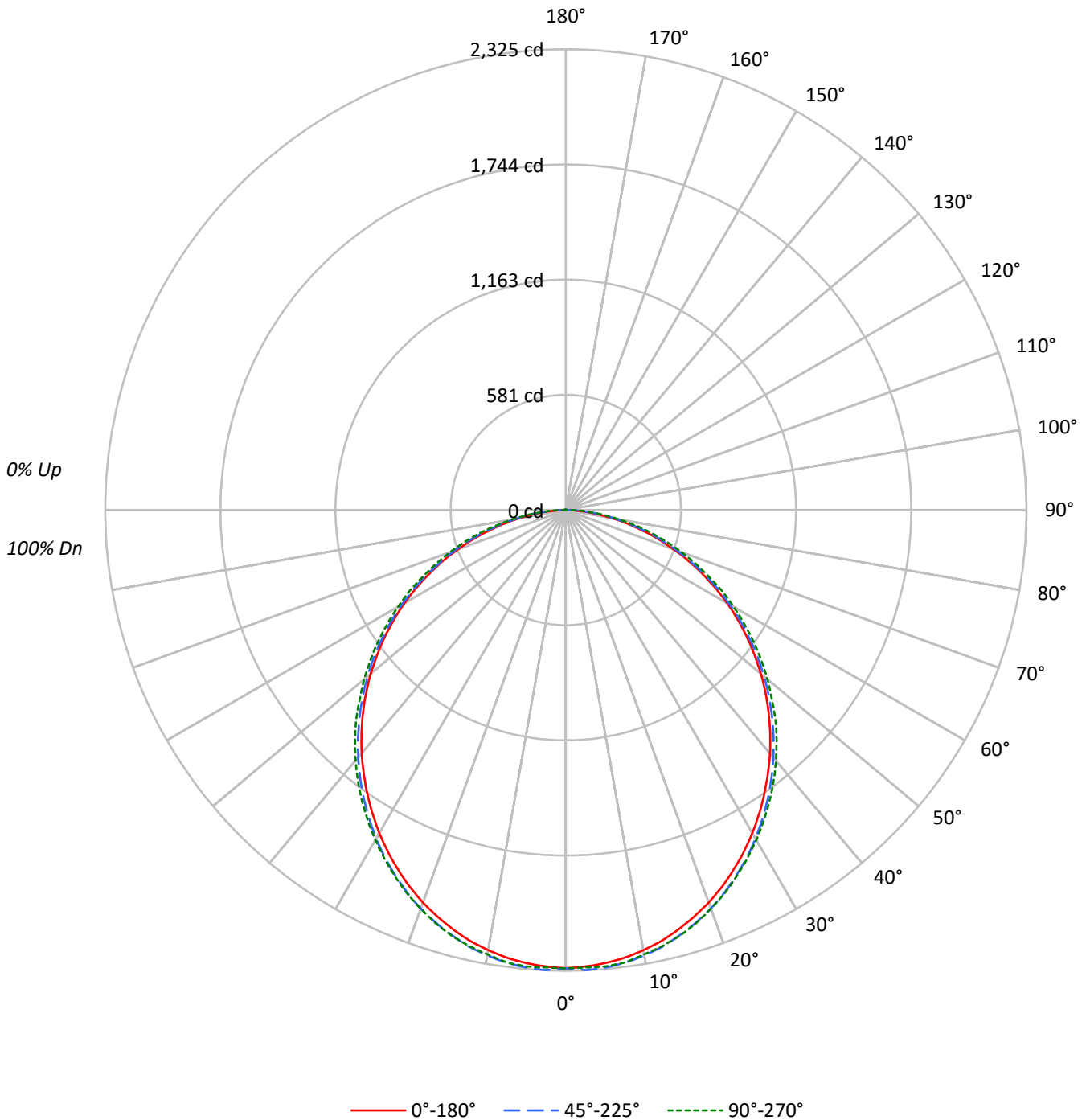
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6420.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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<sub>in</sub>): 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°	8206	8206	8206
5°	8177	8255	8237
10°	8125	8223	8204
15°	8054	8160	8172
20°	7959	8080	8087
25°	7841	7967	7987
30°	7713	7845	7880
35°	7568	7700	7766
40°	7426	7552	7646
45°	7264	7383	7510
50°	7093	7206	7337
55°	6902	7007	7153
60°	6680	6788	6944
65°	6382	6510	6680
70°	6007	6183	6463
75°	5525	5756	6128
80°	4877	5257	5535
85°	4205	4824	5170

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7510 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.7	3.4
10°-20°	623.3	9.7
20°-30°	934.1	14.5
30°-40°	1111.5	17.3
40°-50°	1140.5	17.8
50°-60°	1021.7	15.9
60°-70°	776.3	12.1
70°-80°	451.2	7.0
80°-90°	135.4	2.1
90°-100°	3.2	0.1
100°-110°	0.6	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.0
130°-140°	0.7	0.0
140°-150°	1.0	0.0
150°-160°	0.8	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1776.1	27.7
0°-40°	2887.6	45.0
0°-60°	5049.8	78.7
0°-90°	6412.7	99.9
90°-120°	3.8	0.1
90°-150°	5.8	0.1
90°-180°	7.0	0.1
0°-180°	6420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2313	2313	2313	2313	2313	
5°	2296	2335	2318	2306	2313	218
15°	2192	2235	2221	2218	2225	618
25°	2003	2049	2035	2032	2040	923
35°	1747	1790	1778	1783	1793	1093
45°	1448	1483	1471	1483	1497	1117
55°	1116	1143	1133	1146	1156	997
65°	760	779	775	789	796	752
75°	403	418	420	435	447	427
85°	103	112	118	127	127	113
90°	2	7	7	12	10	7
95°	0	2	2	3	5	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°	3	3	3	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°	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7
2.5°	2306.0	2302.6	2306.0	2304.3	2321.2	2341.5	2338.1	2322.9	2306.0	2311.0	2324.6
5°	2295.8	2294.1	2299.2	2295.8	2312.7	2334.7	2328.0	2314.4	2299.2	2304.3	2317.8
7.5°	2278.9	2278.9	2285.6	2282.3	2297.5	2319.5	2312.7	2300.9	2285.6	2290.7	2304.3
10°	2255.2	2256.9	2265.3	2260.2	2273.8	2297.5	2290.7	2278.9	2265.3	2268.7	2282.3
12.5°	2228.1	2228.1	2238.2	2233.2	2246.7	2268.7	2260.2	2251.8	2238.2	2241.6	2256.9
15°	2192.5	2194.2	2206.1	2201.0	2212.8	2234.8	2226.4	2219.6	2207.8	2209.5	2221.3
17.5°	2151.9	2157.0	2168.8	2163.7	2175.6	2197.6	2187.4	2180.7	2170.5	2172.2	2184.1
20°	2107.9	2112.9	2124.8	2121.4	2129.9	2151.9	2141.7	2138.3	2128.2	2129.9	2140.0
22.5°	2058.8	2063.8	2077.4	2074.0	2082.5	2104.5	2092.6	2090.9	2080.8	2082.5	2090.9
25°	2002.9	2009.7	2024.9	2021.5	2028.3	2048.6	2038.5	2035.1	2028.3	2028.3	2035.1
27.5°	1945.3	1952.1	1969.0	1964.0	1969.0	1991.0	1979.2	1977.5	1970.7	1970.7	1977.5
30°	1882.7	1889.5	1908.1	1903.0	1908.1	1926.7	1914.9	1916.6	1909.8	1909.8	1914.9
32.5°	1816.7	1821.7	1842.1	1838.7	1842.1	1860.7	1848.8	1850.5	1843.8	1845.4	1847.1
35°	1747.2	1752.3	1774.3	1770.9	1772.6	1789.6	1781.1	1781.1	1776.0	1774.3	1777.7
37.5°	1676.1	1681.2	1708.3	1699.8	1699.8	1716.8	1710.0	1710.0	1704.9	1703.2	1704.9
40°	1603.3	1606.7	1635.5	1627.0	1625.3	1640.6	1635.5	1635.5	1632.1	1628.7	1630.4
42.5°	1527.1	1532.2	1561.0	1554.2	1547.5	1564.4	1559.3	1561.0	1555.9	1552.5	1552.5
45°	1447.6	1452.7	1481.4	1478.0	1467.9	1483.1	1478.0	1481.4	1474.7	1471.3	1471.3
47.5°	1368.0	1374.8	1401.9	1396.8	1386.6	1401.9	1396.8	1400.2	1393.4	1390.0	1390.0
50°	1285.0	1291.8	1320.6	1312.1	1302.0	1317.2	1313.8	1315.5	1310.4	1307.0	1305.4
52.5°	1200.4	1208.9	1235.9	1225.8	1217.3	1230.9	1229.2	1230.9	1224.1	1222.4	1220.7
55°	1115.7	1124.2	1149.6	1137.7	1131.0	1142.8	1139.4	1142.8	1136.0	1134.4	1132.7
57.5°	1027.7	1036.2	1059.9	1048.0	1042.9	1053.1	1051.4	1053.1	1048.0	1046.3	1044.6
60°	941.3	948.1	970.1	958.3	953.2	963.4	960.0	965.0	958.3	958.3	956.6
62.5°	849.9	858.4	880.4	866.9	863.5	871.9	868.5	873.6	870.2	866.9	865.2
65°	760.2	765.3	785.6	773.7	768.7	778.8	777.1	780.5	775.4	777.1	775.4
67.5°	670.5	673.8	694.2	680.6	677.2	687.4	689.1	687.4	684.0	685.7	684.0
70°	579.0	582.4	599.3	587.5	585.8	594.3	597.7	596.0	592.6	594.3	596.0
72.5°	491.0	492.7	507.9	497.8	496.1	506.2	506.2	506.2	506.2	506.2	509.6
75°	403.0	404.6	418.2	409.7	408.0	418.2	418.2	418.2	418.2	421.6	419.9
77.5°	318.3	316.6	330.1	325.1	321.7	331.8	331.8	333.5	336.9	340.3	335.2
80°	238.7	237.0	247.2	240.4	240.4	250.6	248.9	250.6	254.0	255.7	257.3
82.5°	167.6	164.2	172.7	171.0	169.3	177.8	179.5	177.8	182.9	184.5	184.5
85°	103.3	103.3	108.4	105.0	105.0	111.7	111.7	113.4	116.8	118.5	118.5
87.5°	49.1	47.4	52.5	50.8	49.1	54.2	54.2	55.9	57.6	59.3	57.6
90°	1.7	1.7	3.4	3.4	3.4	6.8	6.8	6.8	8.5	8.5	6.8
92.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
95°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	1.7



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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	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	1.7
132.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
135°	0.0	1.7	1.7	1.7	1.7	0.0	1.7	0.0	0.0	0.0	1.7
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
140°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
145°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
147.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
160°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
167.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
170°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
172.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
175°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	3.4	3.4
177.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7	2312.7
2.5°	2304.3	2292.4	2287.3	2290.7	2314.4	2290.7	2316.1	2324.6	2294.1	2311.0
5°	2297.5	2285.6	2278.9	2282.3	2306.0	2283.9	2311.0	2321.2	2295.8	2312.7
7.5°	2283.9	2270.4	2267.0	2272.1	2292.4	2273.8	2300.9	2311.0	2285.6	2302.6
10°	2263.6	2251.8	2248.4	2253.5	2272.1	2253.5	2277.2	2285.6	2261.9	2277.2
12.5°	2238.2	2226.4	2223.0	2229.8	2246.7	2229.8	2253.5	2261.9	2238.2	2253.5
15°	2206.1	2194.2	2192.5	2202.7	2217.9	2202.7	2226.4	2233.2	2209.5	2224.7
17.5°	2167.1	2155.3	2157.0	2168.8	2180.7	2167.1	2189.1	2195.9	2173.9	2185.8
20°	2124.8	2111.3	2114.6	2124.8	2135.0	2121.4	2143.4	2150.2	2129.9	2141.7
22.5°	2075.7	2062.2	2065.5	2077.4	2084.2	2072.3	2092.6	2099.4	2082.5	2094.3
25°	2021.5	2009.7	2014.8	2026.6	2031.7	2021.5	2040.1	2045.2	2030.0	2040.1
27.5°	1967.3	1953.8	1960.6	1972.4	1975.8	1965.7	1984.3	1987.7	1972.4	1982.6
30°	1906.4	1892.8	1901.3	1914.9	1914.9	1908.1	1923.3	1926.7	1914.9	1923.3
32.5°	1838.7	1828.5	1838.7	1850.5	1848.8	1843.8	1859.0	1862.4	1852.2	1859.0
35°	1770.9	1762.5	1772.6	1784.5	1782.8	1777.7	1793.0	1794.7	1786.2	1793.0
37.5°	1701.5	1694.8	1704.9	1715.1	1711.7	1708.3	1721.8	1721.8	1716.8	1723.5
40°	1630.4	1623.7	1632.1	1644.0	1637.2	1637.2	1645.7	1649.0	1644.0	1650.7
42.5°	1555.9	1549.2	1559.3	1569.5	1562.7	1561.0	1571.2	1572.9	1569.5	1574.6
45°	1478.0	1471.3	1481.4	1489.9	1483.1	1483.1	1491.6	1491.6	1489.9	1496.7
47.5°	1398.5	1393.4	1401.9	1410.3	1403.6	1408.6	1408.6	1408.6	1412.0	1410.3
50°	1317.2	1312.1	1318.9	1329.1	1320.6	1322.3	1325.7	1325.7	1327.4	1329.1
52.5°	1232.6	1225.8	1232.6	1244.4	1232.6	1237.6	1239.3	1241.0	1246.1	1242.7
55°	1147.9	1141.1	1147.9	1158.1	1146.2	1153.0	1153.0	1154.7	1159.8	1156.4
57.5°	1059.9	1053.1	1063.2	1070.0	1058.2	1064.9	1064.9	1068.3	1071.7	1066.6
60°	971.8	966.7	970.1	982.0	970.1	976.9	976.9	976.9	983.7	978.6
62.5°	882.1	878.7	882.1	892.2	880.4	887.2	885.5	887.2	893.9	892.2
65°	790.7	787.3	790.7	800.8	789.0	795.7	795.7	797.4	802.5	795.7
67.5°	700.9	695.9	700.9	709.4	699.2	704.3	704.3	704.3	712.8	709.4
70°	609.5	606.1	609.5	618.0	609.5	612.9	612.9	612.9	621.4	623.0
72.5°	519.8	519.8	523.2	529.9	523.2	529.9	524.9	521.5	533.3	535.0
75°	431.7	433.4	435.1	441.9	435.1	441.9	438.5	435.1	445.3	447.0
77.5°	350.5	350.5	352.2	357.2	352.2	357.2	353.9	353.9	360.6	358.9
80°	267.5	267.5	269.2	274.3	269.2	274.3	270.9	270.9	277.7	270.9
82.5°	194.7	194.7	194.7	199.8	196.4	199.8	198.1	194.7	203.2	196.4
85°	125.3	127.0	127.0	128.7	127.0	128.7	128.7	127.0	132.1	127.0
87.5°	64.3	64.3	64.3	66.0	64.3	64.3	66.0	64.3	67.7	66.0
90°	11.9	10.2	10.2	13.5	11.9	11.9	13.5	10.2	11.9	10.2
92.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	6.8
95°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1
97.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
100°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
102.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
105°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	1.7	1.7
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	1.7	0.0	0.0	0.0	1.7





TEST NUMBER: P895219

CATALOG NUMBER: 8TMB-8SL-FLT-UNV-L940

**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	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.7	1.7	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°	1.7	1.7	1.7	1.7	0.0	1.7	0.0	0.0	0.0	0.0
140°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
145°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
147.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
160°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
167.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
170°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
172.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
175°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
177.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



TEST NUMBER: P895219  
 CATALOG NUMBER: 8TMB-8SL-FLT-UNV-L940

**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	18.82	20.46	19.19	20.77	21.09	18.96	20.59	19.32	20.91	21.23
	3H	20.64	22.12	21.02	22.45	22.82	20.79	22.27	21.17	22.60	22.96
	4H	21.30	22.70	21.70	23.05	23.43	21.50	22.89	21.90	23.24	23.62
	6H	21.76	23.05	22.17	23.42	23.81	22.05	23.35	22.47	23.71	24.11
	8H	21.90	23.13	22.32	23.52	23.92	22.25	23.48	22.67	23.88	24.28
	12H	21.99	23.18	22.42	23.56	23.99	22.39	23.58	22.82	23.96	24.39
4H	2H	19.45	20.85	19.85	21.20	21.58	19.56	20.96	19.96	21.31	21.68
	3H	21.49	22.67	21.91	23.07	23.47	21.63	22.80	22.04	23.20	23.60
	4H	22.29	23.35	22.72	23.76	24.20	22.47	23.53	22.91	23.95	24.39
	6H	22.86	23.79	23.32	24.23	24.69	23.17	24.09	23.62	24.54	24.99
	8H	23.05	23.92	23.51	24.37	24.83	23.41	24.28	23.87	24.72	25.19
	12H	23.20	23.98	23.68	24.46	24.93	23.60	24.39	24.09	24.86	25.34
8H	4H	22.62	23.49	23.08	23.93	24.40	22.78	23.65	23.24	24.10	24.56
	6H	23.32	24.04	23.81	24.53	25.01	23.61	24.33	24.10	24.82	25.30
	8H	23.58	24.23	24.09	24.74	25.23	23.94	24.59	24.45	25.10	25.58
	12H	23.80	24.37	24.31	24.87	25.43	24.22	24.80	24.73	25.29	25.85
12H	4H	22.66	23.44	23.14	23.92	24.39	22.81	23.60	23.30	24.07	24.55
	6H	23.39	24.04	23.90	24.55	25.04	23.66	24.32	24.17	24.82	25.31
	8H	23.72	24.29	24.22	24.78	25.35	24.06	24.63	24.57	25.13	25.69