

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: P895400

Luminaire Tested: 8TMB-SC3-FLT-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895400
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-SC3-FLT-UNV-CC93-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

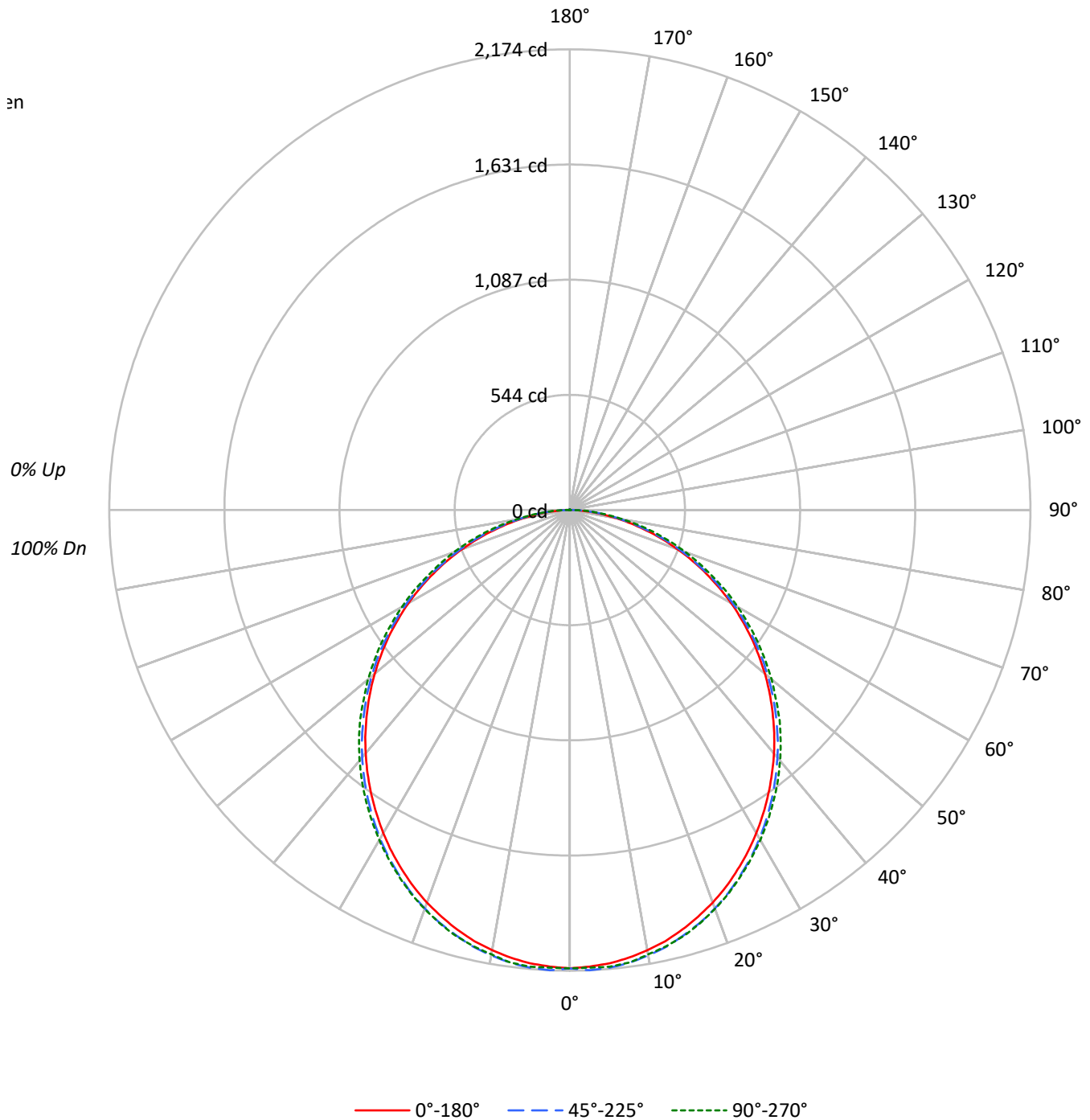
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6004.1 lumens
Efficiency: N/A
Efficacy: 89.7 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): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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





TEST NUMBER: P895400

CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-MID-3500K

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°	7674	7674	7674
5°	7647	7720	7704
10°	7598	7690	7673
15°	7532	7631	7642
20°	7443	7557	7563
25°	7333	7451	7469
30°	7214	7337	7369
35°	7078	7201	7263
40°	6945	7063	7151
45°	6793	6904	7023
50°	6634	6739	6861
55°	6454	6553	6690
60°	6247	6348	6495
65°	5968	6088	6248
70°	5618	5781	6045
75°	5166	5384	5730
80°	4563	4918	5176
85°	3933	4511	4836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7023 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	3.4
10°-20°	583.0	9.7
20°-30°	873.6	14.5
30°-40°	1039.4	17.3
40°-50°	1066.6	17.8
50°-60°	955.5	15.9
60°-70°	726.0	12.1
70°-80°	422.0	7.0
80°-90°	126.6	2.1
90°-100°	3.0	0.1
100°-110°	0.5	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.0
130°-140°	0.6	0.0
140°-150°	1.0	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1661.1	27.7
0°-40°	2700.5	45.0
0°-60°	4722.6	78.7
0°-90°	5997.2	99.9
90°-120°	3.6	0.1
90°-150°	5.4	0.1
90°-180°	7.0	0.1
0°-180°	6004.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2147	2184	2168	2156	2163	204
15°	2050	2090	2077	2074	2080	578
25°	1873	1916	1903	1900	1908	863
35°	1634	1674	1662	1667	1677	1022
45°	1354	1387	1376	1387	1400	1045
55°	1043	1069	1059	1072	1081	932
65°	711	728	725	738	744	704
75°	377	391	393	407	418	400
85°	97	104	111	119	119	106
90°	2	6	6	11	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°	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9
2.5°	2156.5	2153.4	2156.5	2155.0	2170.8	2189.8	2186.6	2172.4	2156.5	2161.3	2174.0
5°	2147.0	2145.5	2150.2	2147.0	2162.9	2183.5	2177.1	2164.5	2150.2	2155.0	2167.6
7.5°	2131.2	2131.2	2137.5	2134.4	2148.6	2169.2	2162.9	2151.8	2137.5	2142.3	2155.0
10°	2109.0	2110.6	2118.5	2113.8	2126.5	2148.6	2142.3	2131.2	2118.5	2121.7	2134.4
12.5°	2083.7	2083.7	2093.2	2088.5	2101.1	2121.7	2113.8	2105.9	2093.2	2096.4	2110.6
15°	2050.5	2052.0	2063.1	2058.4	2069.5	2090.0	2082.1	2075.8	2064.7	2066.3	2077.4
17.5°	2012.5	2017.2	2028.3	2023.5	2034.6	2055.2	2045.7	2039.4	2029.9	2031.5	2042.5
20°	1971.3	1976.0	1987.1	1984.0	1991.9	2012.5	2003.0	1999.8	1990.3	1991.9	2001.4
22.5°	1925.4	1930.1	1942.8	1939.6	1947.5	1968.1	1957.0	1955.5	1946.0	1947.5	1955.5
25°	1873.1	1879.4	1893.7	1890.5	1896.9	1915.9	1906.4	1903.2	1896.9	1896.9	1903.2
27.5°	1819.3	1825.6	1841.4	1836.7	1841.4	1862.0	1850.9	1849.4	1843.0	1843.0	1849.4
30°	1760.7	1767.0	1784.4	1779.7	1784.4	1801.9	1790.8	1792.4	1786.0	1786.0	1790.8
32.5°	1698.9	1703.7	1722.7	1719.5	1722.7	1740.1	1729.0	1730.6	1724.3	1725.9	1727.4
35°	1634.0	1638.8	1659.4	1656.2	1657.8	1673.6	1665.7	1665.7	1660.9	1659.4	1662.5
37.5°	1567.5	1572.3	1597.6	1589.7	1589.7	1605.5	1599.2	1599.2	1594.4	1592.9	1594.4
40°	1499.4	1502.6	1529.5	1521.6	1520.0	1534.3	1529.5	1529.5	1526.4	1523.2	1524.8
42.5°	1428.2	1432.9	1459.9	1453.5	1447.2	1463.0	1458.3	1459.9	1455.1	1451.9	1451.9
45°	1353.8	1358.5	1385.4	1382.3	1372.8	1387.0	1382.3	1385.4	1379.1	1375.9	1375.9
47.5°	1279.4	1285.7	1311.0	1306.3	1296.8	1311.0	1306.3	1309.4	1303.1	1299.9	1299.9
50°	1201.8	1208.1	1235.0	1227.1	1217.6	1231.9	1228.7	1230.3	1225.5	1222.4	1220.8
52.5°	1122.6	1130.5	1155.9	1146.4	1138.4	1151.1	1149.5	1151.1	1144.8	1143.2	1141.6
55°	1043.4	1051.4	1075.1	1064.0	1057.7	1068.8	1065.6	1068.8	1062.4	1060.9	1059.3
57.5°	961.1	969.0	991.2	980.1	975.4	984.9	983.3	984.9	980.1	978.5	976.9
60°	880.3	886.7	907.3	896.2	891.4	900.9	897.8	902.5	896.2	896.2	894.6
62.5°	794.8	802.8	823.3	810.7	807.5	815.4	812.3	817.0	813.8	810.7	809.1
65°	710.9	715.7	734.7	723.6	718.8	728.3	726.8	729.9	725.2	726.8	725.2
67.5°	627.0	630.2	649.2	636.5	633.3	642.8	644.4	642.8	639.7	641.3	639.7
70°	541.5	544.7	560.5	549.4	547.8	555.8	558.9	557.3	554.2	555.8	557.3
72.5°	459.2	460.8	475.0	465.5	463.9	473.4	473.4	473.4	473.4	473.4	476.6
75°	376.8	378.4	391.1	383.2	381.6	391.1	391.1	391.1	391.1	394.3	392.7
77.5°	297.7	296.1	308.8	304.0	300.8	310.3	310.3	311.9	315.1	318.3	313.5
80°	223.3	221.7	231.2	224.8	224.8	234.3	232.8	234.3	237.5	239.1	240.7
82.5°	156.8	153.6	161.5	159.9	158.3	166.3	167.8	166.3	171.0	172.6	172.6
85°	96.6	96.6	101.3	98.2	98.2	104.5	104.5	106.1	109.3	110.8	110.8
87.5°	45.9	44.3	49.1	47.5	45.9	50.7	50.7	52.3	53.8	55.4	53.8
90°	1.6	1.6	3.2	3.2	3.2	6.3	6.3	6.3	7.9	7.9	6.3
92.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
95°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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	1.6



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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	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
132.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
135°	0.0	1.6	1.6	1.6	1.6	0.0	1.6	0.0	0.0	0.0	1.6
137.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
140°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
145°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
162.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
167.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6
170°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6
175°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.6	3.2	3.2
177.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9	2162.9
2.5°	2155.0	2143.9	2139.1	2142.3	2164.5	2142.3	2166.0	2174.0	2145.5	2161.3
5°	2148.6	2137.5	2131.2	2134.4	2156.5	2136.0	2161.3	2170.8	2147.0	2162.9
7.5°	2136.0	2123.3	2120.1	2124.9	2143.9	2126.5	2151.8	2161.3	2137.5	2153.4
10°	2117.0	2105.9	2102.7	2107.5	2124.9	2107.5	2129.6	2137.5	2115.4	2129.6
12.5°	2093.2	2082.1	2079.0	2085.3	2101.1	2085.3	2107.5	2115.4	2093.2	2107.5
15°	2063.1	2052.0	2050.5	2060.0	2074.2	2060.0	2082.1	2088.5	2066.3	2080.5
17.5°	2026.7	2015.6	2017.2	2028.3	2039.4	2026.7	2047.3	2053.6	2033.0	2044.1
20°	1987.1	1974.5	1977.6	1987.1	1996.6	1984.0	2004.5	2010.9	1991.9	2003.0
22.5°	1941.2	1928.5	1931.7	1942.8	1949.1	1938.0	1957.0	1963.4	1947.5	1958.6
25°	1890.5	1879.4	1884.2	1895.3	1900.0	1890.5	1907.9	1912.7	1898.4	1907.9
27.5°	1839.9	1827.2	1833.5	1844.6	1847.8	1838.3	1855.7	1858.9	1844.6	1854.1
30°	1782.9	1770.2	1778.1	1790.8	1790.8	1784.4	1798.7	1801.9	1790.8	1798.7
32.5°	1719.5	1710.0	1719.5	1730.6	1729.0	1724.3	1738.5	1741.7	1732.2	1738.5
35°	1656.2	1648.3	1657.8	1668.9	1667.3	1662.5	1676.8	1678.4	1670.4	1676.8
37.5°	1591.3	1584.9	1594.4	1603.9	1600.8	1597.6	1610.3	1610.3	1605.5	1611.9
40°	1524.8	1518.4	1526.4	1537.4	1531.1	1531.1	1539.0	1542.2	1537.4	1543.8
42.5°	1455.1	1448.8	1458.3	1467.8	1461.4	1459.9	1469.4	1470.9	1467.8	1472.5
45°	1382.3	1375.9	1385.4	1393.4	1387.0	1387.0	1394.9	1394.9	1393.4	1399.7
47.5°	1307.9	1303.1	1311.0	1318.9	1312.6	1317.4	1317.4	1317.4	1320.5	1318.9
50°	1231.9	1227.1	1233.4	1242.9	1235.0	1236.6	1239.8	1239.8	1241.4	1242.9
52.5°	1152.7	1146.4	1152.7	1163.8	1152.7	1157.4	1159.0	1160.6	1165.4	1162.2
55°	1073.5	1067.2	1073.5	1083.0	1071.9	1078.3	1078.3	1079.9	1084.6	1081.4
57.5°	991.2	984.9	994.4	1000.7	989.6	995.9	995.9	999.1	1002.3	997.5
60°	908.8	904.1	907.3	918.3	907.3	913.6	913.6	913.6	919.9	915.2
62.5°	824.9	821.8	824.9	834.4	823.3	829.7	828.1	829.7	836.0	834.4
65°	739.4	736.3	739.4	748.9	737.8	744.2	744.2	745.8	750.5	744.2
67.5°	655.5	650.8	655.5	663.4	653.9	658.7	658.7	658.7	666.6	663.4
70°	570.0	566.8	570.0	577.9	570.0	573.2	573.2	573.2	581.1	582.7
72.5°	486.1	486.1	489.3	495.6	489.3	495.6	490.8	487.7	498.8	500.3
75°	403.8	405.3	406.9	413.3	406.9	413.3	410.1	406.9	416.4	418.0
77.5°	327.8	327.8	329.3	334.1	329.3	334.1	330.9	330.9	337.3	335.7
80°	250.2	250.2	251.8	256.5	251.8	256.5	253.3	253.3	259.7	253.3
82.5°	182.1	182.1	182.1	186.8	183.7	186.8	185.3	182.1	190.0	183.7
85°	117.2	118.8	118.8	120.3	118.8	120.3	120.3	118.8	123.5	118.8
87.5°	60.2	60.2	60.2	61.8	60.2	60.2	61.8	60.2	63.3	61.8
90°	11.1	9.5	9.5	12.7	11.1	11.1	12.7	9.5	11.1	9.5
92.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.3	6.3
95°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8
97.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
105°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6	1.6
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	1.6	0.0	0.0	0.0	1.6



TEST NUMBER: P895400
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-MID-3500K

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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.6	1.6	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°	1.6	1.6	1.6	1.6	0.0	1.6	0.0	0.0	0.0	0.0
140°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
145°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
162.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
167.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
170°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



TEST NUMBER: P895400
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-MID-3500K

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	18.59	20.22	18.95	20.54	20.86	18.72	20.36	19.09	20.68	20.99
	3H	20.41	21.89	20.79	22.22	22.58	20.56	22.04	20.93	22.37	22.73
	4H	21.07	22.47	21.47	22.82	23.19	21.26	22.66	21.66	23.01	23.39
	6H	21.52	22.82	21.94	23.18	23.58	21.82	23.12	22.23	23.48	23.87
	8H	21.66	22.90	22.09	23.29	23.69	22.02	23.25	22.44	23.64	24.04
	12H	21.76	22.94	22.19	23.33	23.76	22.16	23.34	22.59	23.73	24.16
4H	2H	19.22	20.62	19.62	20.97	21.34	19.33	20.72	19.73	21.07	21.45
	3H	21.26	22.43	21.67	22.83	23.24	21.40	22.57	21.81	22.97	23.37
	4H	22.06	23.12	22.49	23.53	23.97	22.24	23.30	22.67	23.72	24.16
	6H	22.63	23.56	23.09	24.00	24.46	22.93	23.86	23.39	24.30	24.76
	8H	22.82	23.69	23.28	24.13	24.60	23.18	24.05	23.64	24.49	24.96
	12H	22.96	23.75	23.44	24.22	24.69	23.37	24.15	23.85	24.63	25.10
8H	4H	22.38	23.25	22.85	23.70	24.17	22.55	23.42	23.01	23.86	24.33
	6H	23.09	23.81	23.58	24.30	24.78	23.38	24.10	23.87	24.59	25.07
	8H	23.35	24.00	23.86	24.51	25.00	23.71	24.36	24.22	24.86	25.35
	12H	23.57	24.14	24.07	24.63	25.20	23.99	24.56	24.50	25.06	25.62
12H	4H	22.43	23.21	22.91	23.69	24.16	22.58	23.36	23.06	23.84	24.31
	6H	23.16	23.81	23.67	24.32	24.80	23.43	24.08	23.94	24.59	25.08
	8H	23.48	24.06	23.99	24.55	25.11	23.83	24.40	24.33	24.89	25.46