

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: P894396

Luminaire Tested: 8TMB-10SL-FLTU-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-FLTU-UNV-L950
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 50
Light Source: -
Ballast/Driver: -

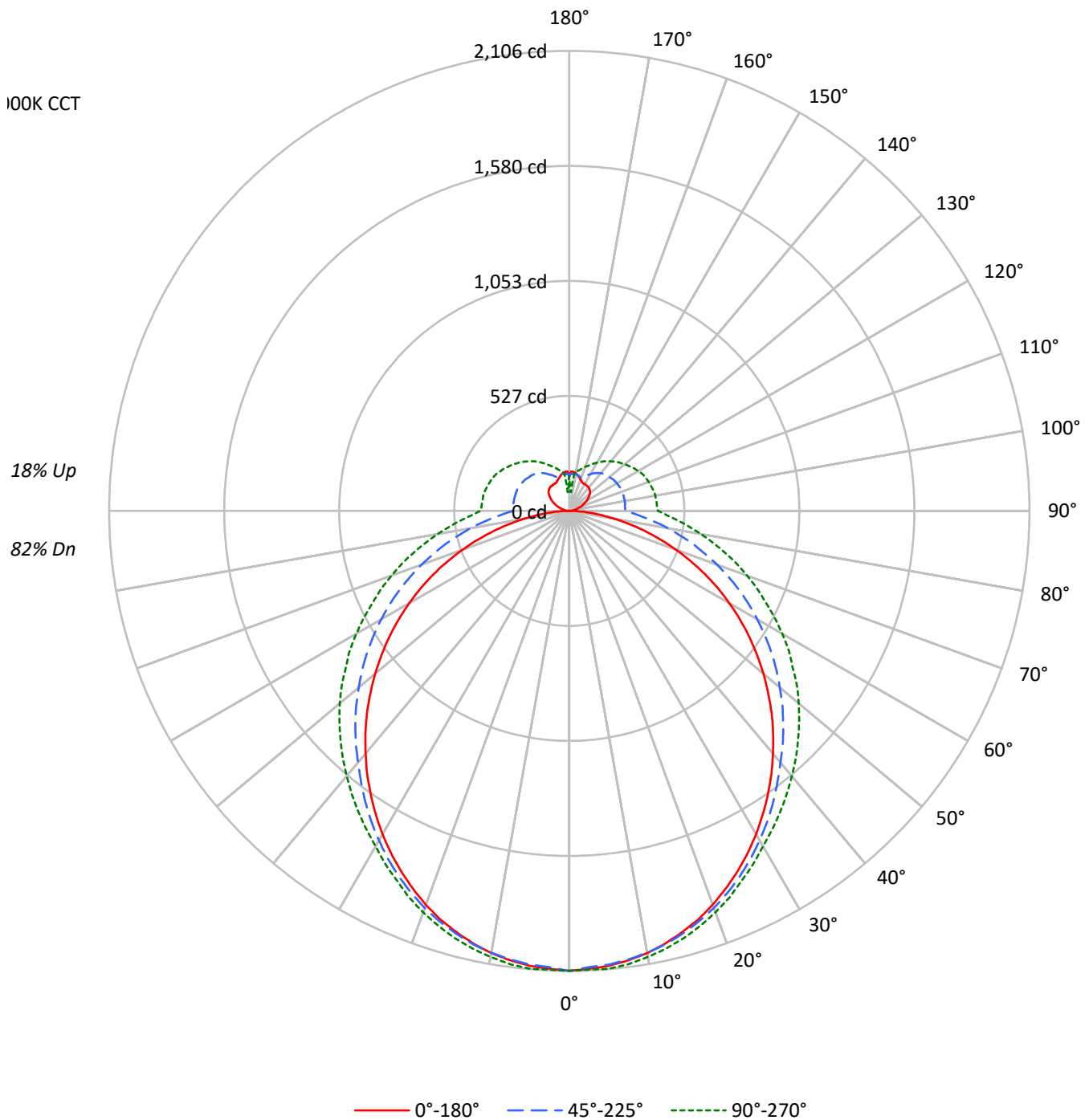
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7960.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P894396
CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L950

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7471	7471	7471
5°	7428	7169	7150
10°	7372	6905	6810
15°	7281	6638	6486
20°	7178	6364	6156
25°	7043	6077	5822
30°	6899	5782	5518
35°	6740	5487	5267
40°	6572	5195	5028
45°	6404	4941	4800
50°	6207	4679	4578
55°	5998	4420	4331
60°	5744	4142	4096
65°	5442	3849	3830
70°	5044	3527	3583
75°	4492	3197	3316
80°	3764	2844	3042
85°	2834	2485	2791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6404 cd/sqm



TEST NUMBER: P894396
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	2.5
10°-20°	567.9	7.1
20°-30°	853.2	10.7
30°-40°	1024.5	12.9
40°-50°	1077.3	13.5
50°-60°	1012.2	12.7
60°-70°	841.7	10.6
70°-80°	600.6	7.5
80°-90°	357.5	4.5
90°-100°	258.8	3.3
100°-110°	255.3	3.2
110°-120°	239.9	3.0
120°-130°	212.5	2.7
130°-140°	176.1	2.2
140°-150°	131.8	1.7
150°-160°	86.7	1.1
160°-170°	49.2	0.6
170°-180°	15.7	0.2
0°-30°	1620.2	20.4
0°-40°	2644.7	33.2
0°-60°	4734.2	59.5
0°-90°	6534.0	82.1
90°-120°	754.0	9.5
90°-150°	1274.5	16.0
90°-180°	1426.0	17.9
0°-180°	7960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2090	2115	2084	2090	2104	198
15°	1996	2027	2004	2017	2025	563
25°	1821	1856	1846	1863	1867	839
35°	1584	1621	1627	1667	1682	991
45°	1310	1346	1384	1456	1481	1009
55°	1006	1046	1129	1221	1248	898
65°	684	740	858	965	992	677
75°	360	440	586	700	736	382
85°	90	198	344	460	498	99
90°	0	113	256	367	406	6
95°	10	119	256	363	402	11
105°	36	133	258	360	394	39
115°	71	144	256	344	379	71
125°	108	154	248	323	348	96
135°	133	162	235	294	315	102
145°	140	158	212	262	277	88
155°	142	160	179	221	235	67
165°	163	173	167	169	196	46
175°	181	179	169	144	86	17
180°	158	158	158	158	158	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6
2.5°	2097.9	2103.6	2105.6	2124.8	2117.1	2124.8	2111.3	2095.9	2092.1	2101.7	2090.2
5°	2090.2	2095.9	2097.9	2117.1	2109.4	2115.2	2103.6	2088.2	2084.4	2095.9	2084.4
7.5°	2074.8	2080.6	2082.5	2103.6	2094.0	2101.7	2088.2	2072.9	2070.9	2082.5	2070.9
10°	2055.6	2061.3	2063.3	2082.5	2074.8	2082.5	2069.0	2053.6	2051.7	2065.2	2053.6
12.5°	2028.6	2034.4	2038.3	2057.5	2047.9	2057.5	2042.1	2026.7	2028.6	2040.2	2032.5
15°	1996.0	2003.6	2005.6	2024.8	2017.1	2026.7	2011.3	1996.0	1999.8	2011.3	2003.6
17.5°	1961.3	1969.0	1971.0	1988.3	1980.6	1992.1	1974.8	1961.3	1965.2	1976.7	1971.0
20°	1919.0	1926.7	1930.6	1947.9	1940.2	1951.7	1934.4	1922.9	1926.7	1940.2	1934.4
22.5°	1871.0	1882.5	1884.4	1903.7	1894.0	1905.6	1888.3	1878.7	1884.4	1897.9	1892.1
25°	1821.0	1832.5	1834.4	1853.7	1846.0	1855.6	1838.3	1828.7	1836.4	1849.8	1846.0
27.5°	1767.1	1778.7	1782.5	1799.8	1792.1	1803.7	1784.4	1778.7	1786.4	1799.8	1796.0
30°	1709.4	1721.0	1722.9	1740.2	1734.4	1746.0	1728.7	1721.0	1732.5	1746.0	1742.1
32.5°	1647.9	1659.4	1665.2	1680.6	1674.8	1684.4	1669.1	1665.2	1674.8	1688.3	1686.4
35°	1584.5	1596.0	1601.8	1619.1	1611.4	1621.0	1605.6	1601.8	1617.1	1626.8	1626.8
37.5°	1519.1	1530.6	1536.4	1553.7	1544.1	1555.6	1540.2	1538.3	1555.6	1565.2	1565.2
40°	1449.9	1463.3	1469.1	1484.5	1476.8	1486.4	1472.9	1474.8	1490.2	1501.8	1503.7
42.5°	1380.6	1394.1	1399.9	1417.2	1407.5	1417.2	1405.6	1407.5	1424.9	1436.4	1446.0
45°	1309.5	1321.0	1326.8	1346.0	1334.5	1346.0	1334.5	1338.3	1355.6	1372.9	1384.5
47.5°	1234.5	1246.0	1255.6	1271.0	1261.4	1271.0	1263.3	1269.1	1290.3	1307.6	1322.9
50°	1159.5	1171.0	1180.6	1194.1	1184.5	1198.0	1188.3	1196.0	1223.0	1240.3	1257.6
52.5°	1082.6	1092.2	1107.6	1115.3	1107.6	1123.0	1115.3	1126.8	1153.7	1174.9	1194.1
55°	1005.7	1015.3	1030.7	1036.4	1028.7	1046.0	1040.3	1055.7	1084.5	1107.6	1128.7
57.5°	926.8	936.4	949.9	955.7	949.9	969.1	967.2	984.5	1013.4	1038.4	1061.4
60°	846.1	855.7	867.2	873.0	873.0	892.2	892.2	913.4	944.1	967.2	994.1
62.5°	767.2	773.0	784.5	792.2	798.0	817.2	817.2	840.3	873.0	899.9	926.8
65°	684.5	690.3	699.9	709.5	719.2	740.3	742.2	767.2	799.9	826.8	857.6
67.5°	601.9	607.6	617.2	628.8	642.2	663.4	667.2	694.2	728.8	759.5	788.4
70°	521.1	523.0	534.6	549.9	565.3	586.5	592.2	621.1	657.6	688.4	719.2
72.5°	440.3	442.3	453.8	473.0	490.3	513.4	521.1	551.9	588.4	619.2	649.9
75°	359.6	361.5	376.9	400.0	419.2	440.3	450.0	482.6	519.2	551.9	586.5
77.5°	282.7	286.5	301.9	325.0	348.0	373.0	382.7	415.3	455.7	486.5	519.2
80°	211.5	215.4	232.7	257.7	282.7	305.7	317.3	350.0	392.3	423.0	459.6
82.5°	146.1	151.9	173.1	200.0	225.0	250.0	261.5	292.3	330.7	365.3	400.0
85°	90.4	98.1	119.2	148.1	175.0	198.1	209.6	242.3	278.8	311.5	344.2
87.5°	42.3	53.8	75.0	103.8	132.7	151.9	165.4	198.1	232.7	265.4	298.0
90°	0.0	17.3	38.5	67.3	96.1	113.4	128.8	159.6	194.2	225.0	255.7
92.5°	3.8	19.2	42.3	69.2	98.1	115.4	130.8	161.5	194.2	225.0	255.7
95°	9.6	21.2	44.2	73.1	101.9	119.2	132.7	163.4	196.1	226.9	255.7
97.5°	17.3	26.9	50.0	76.9	105.8	121.1	136.5	167.3	198.1	228.8	257.7
100°	23.1	30.8	53.8	80.8	109.6	125.0	140.4	169.2	200.0	230.7	257.7
102.5°	28.8	38.5	59.6	84.6	113.4	128.8	142.3	171.1	201.9	230.7	257.7
105°	36.5	44.2	63.5	90.4	117.3	132.7	146.1	175.0	203.8	232.7	257.7
107.5°	44.2	50.0	69.2	94.2	121.1	134.6	148.1	176.9	205.7	232.7	257.7
110°	53.8	57.7	75.0	98.1	123.1	138.4	151.9	178.8	205.7	232.7	257.7



TEST NUMBER: P894396
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L950

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	63.5	63.5	80.8	101.9	126.9	140.4	153.8	180.8	207.7	232.7	257.7
115°	71.1	73.1	86.5	105.8	130.8	144.2	155.8	180.8	207.7	232.7	255.7
117.5°	80.8	80.8	94.2	109.6	132.7	146.1	159.6	182.7	207.7	230.7	253.8
120°	90.4	88.5	100.0	115.4	136.5	148.1	161.5	184.6	207.7	230.7	251.9
122.5°	100.0	96.1	103.8	119.2	138.4	151.9	161.5	184.6	207.7	228.8	250.0
125°	107.7	103.8	109.6	125.0	142.3	153.8	163.4	184.6	207.7	226.9	248.1
127.5°	115.4	111.5	117.3	128.8	144.2	153.8	165.4	184.6	207.7	225.0	244.2
130°	123.1	117.3	125.0	132.7	148.1	155.8	165.4	184.6	205.7	223.1	240.4
132.5°	128.8	123.1	130.8	136.5	150.0	157.7	167.3	184.6	203.8	221.1	238.4
135°	132.7	126.9	136.5	140.4	153.8	161.5	169.2	184.6	201.9	219.2	234.6
137.5°	136.5	128.8	140.4	144.2	155.8	163.4	169.2	182.7	200.0	215.4	230.7
140°	138.4	132.7	144.2	148.1	153.8	161.5	169.2	180.8	196.1	211.5	225.0
142.5°	140.4	132.7	146.1	150.0	153.8	159.6	167.3	176.9	192.3	205.7	219.2
145°	140.4	134.6	146.1	150.0	153.8	157.7	163.4	175.0	186.5	198.1	211.5
147.5°	140.4	136.5	148.1	151.9	155.8	155.8	159.6	171.1	180.8	192.3	203.8
150°	142.3	136.5	148.1	151.9	157.7	157.7	159.6	165.4	176.9	184.6	194.2
152.5°	140.4	138.4	146.1	153.8	157.7	159.6	159.6	161.5	171.1	178.8	186.5
155°	142.3	142.3	148.1	157.7	159.6	159.6	161.5	159.6	163.4	171.1	178.8
157.5°	146.1	150.0	150.0	159.6	163.4	163.4	165.4	163.4	161.5	163.4	171.1
160°	151.9	155.8	155.8	161.5	167.3	167.3	169.2	167.3	165.4	163.4	163.4
162.5°	157.7	161.5	161.5	163.4	169.2	171.1	173.1	171.1	169.2	165.4	163.4
165°	163.4	167.3	167.3	167.3	171.1	173.1	175.0	173.1	173.1	169.2	167.3
167.5°	169.2	173.1	173.1	171.1	173.1	175.0	176.9	175.0	175.0	173.1	169.2
170°	175.0	178.8	178.8	175.0	176.9	176.9	178.8	176.9	176.9	173.1	171.1
172.5°	178.8	182.7	180.8	178.8	178.8	178.8	178.8	176.9	175.0	171.1	171.1
175°	180.8	184.6	184.6	180.8	178.8	178.8	180.8	176.9	175.0	173.1	169.2
177.5°	180.8	184.6	184.6	180.8	180.8	178.8	180.8	178.8	178.8	175.0	171.1
180°	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6
2.5°	2097.9	2095.9	2084.4	2097.9	2097.9	2094.0	2109.4	2107.5	2105.6	2101.7
5°	2090.2	2088.2	2076.7	2090.2	2090.2	2088.2	2103.6	2105.6	2107.5	2103.6
7.5°	2078.6	2076.7	2065.2	2078.6	2078.6	2076.7	2094.0	2095.9	2097.9	2092.1
10°	2061.3	2059.4	2047.9	2061.3	2063.3	2061.3	2074.8	2076.7	2080.6	2072.9
12.5°	2038.3	2038.3	2026.7	2040.2	2042.1	2040.2	2053.6	2057.5	2061.3	2051.7
15°	2009.4	2011.3	2001.7	2015.2	2017.1	2017.1	2030.6	2032.5	2038.3	2024.8
17.5°	1974.8	1978.6	1971.0	1984.4	1986.3	1988.3	1996.0	2001.7	2007.5	1992.1
20°	1938.3	1940.2	1934.4	1946.0	1949.8	1947.9	1957.5	1965.2	1971.0	1955.6
22.5°	1894.0	1896.0	1890.2	1901.7	1905.6	1907.5	1915.2	1924.8	1928.6	1915.2
25°	1844.0	1851.7	1847.9	1859.4	1863.3	1863.3	1871.0	1880.6	1886.3	1867.1
27.5°	1796.0	1805.6	1801.7	1813.3	1817.1	1819.0	1822.9	1834.4	1840.2	1822.9
30°	1742.1	1753.7	1751.7	1763.3	1767.1	1765.2	1772.9	1784.4	1792.1	1772.9
32.5°	1682.5	1697.9	1696.0	1711.4	1715.2	1717.1	1722.9	1738.3	1746.0	1728.7
35°	1624.8	1642.1	1644.1	1661.4	1667.1	1669.1	1676.8	1692.1	1699.8	1682.5
37.5°	1565.2	1588.3	1594.1	1611.4	1617.1	1619.1	1626.8	1644.1	1651.8	1634.4
40°	1507.5	1534.5	1542.2	1557.5	1563.3	1569.1	1574.8	1592.1	1601.8	1584.5
42.5°	1449.9	1478.7	1488.3	1503.7	1509.5	1515.2	1522.9	1542.2	1549.8	1534.5
45°	1390.2	1421.0	1432.5	1447.9	1455.6	1461.4	1469.1	1486.4	1496.0	1480.6
47.5°	1330.6	1361.4	1372.9	1390.2	1397.9	1405.6	1411.4	1432.5	1442.2	1426.8
50°	1267.2	1301.8	1315.3	1330.6	1342.2	1347.9	1355.6	1374.9	1384.5	1371.0
52.5°	1203.7	1240.3	1255.6	1271.0	1282.6	1292.2	1296.0	1317.2	1326.8	1313.3
55°	1138.3	1174.9	1192.2	1209.5	1221.0	1232.6	1236.4	1257.6	1267.2	1247.9
57.5°	1073.0	1111.4	1128.7	1148.0	1157.6	1171.0	1176.8	1196.0	1205.6	1192.2
60°	1007.6	1044.1	1065.3	1082.6	1096.0	1107.6	1111.4	1132.6	1142.2	1124.9
62.5°	940.3	978.7	999.9	1019.1	1030.7	1044.1	1049.9	1069.1	1076.8	1059.5
65°	871.1	909.5	932.6	949.9	965.3	976.8	980.7	1001.8	1009.5	992.2
67.5°	801.8	840.3	865.3	884.5	898.0	911.4	915.3	936.4	944.1	930.7
70°	734.5	773.0	798.0	821.1	830.7	844.1	849.9	869.1	876.8	865.3
72.5°	667.2	705.7	732.6	755.7	765.3	778.8	786.5	801.8	813.4	803.8
75°	601.9	640.3	667.2	690.3	699.9	713.4	721.1	736.5	744.2	736.5
77.5°	538.4	576.9	601.9	624.9	636.5	648.0	655.7	671.1	680.7	673.0
80°	476.9	515.3	540.3	561.5	573.0	584.6	592.2	609.6	617.2	611.5
82.5°	419.2	455.7	482.6	503.8	515.3	526.9	534.6	549.9	559.6	551.9
85°	367.3	403.8	428.8	450.0	459.6	471.1	478.8	494.2	501.9	498.0
87.5°	317.3	350.0	378.8	400.0	409.6	421.1	430.7	442.3	451.9	446.1
90°	278.8	307.7	334.6	355.7	367.3	378.8	390.3	401.9	409.6	405.7
92.5°	280.7	307.7	332.7	351.9	363.4	375.0	386.5	400.0	405.7	401.9
95°	280.7	307.7	332.7	351.9	363.4	375.0	386.5	400.0	405.7	401.9
97.5°	280.7	307.7	332.7	351.9	363.4	375.0	386.5	400.0	405.7	400.0
100°	280.7	307.7	332.7	351.9	363.4	373.0	384.6	398.0	403.8	400.0
102.5°	280.7	307.7	330.7	350.0	361.5	371.1	382.7	396.1	401.9	398.0
105°	280.7	305.7	330.7	348.0	359.6	369.2	380.7	392.3	398.0	394.2
107.5°	278.8	303.8	326.9	346.1	355.7	365.3	376.9	388.4	394.2	390.3
110°	278.8	301.9	325.0	342.3	351.9	361.5	373.0	384.6	390.3	386.5



TEST NUMBER: P894396
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L950

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	276.9	300.0	323.0	338.4	348.0	357.7	367.3	380.7	386.5	382.7
115°	275.0	298.0	319.2	334.6	344.2	351.9	363.4	376.9	380.7	378.8
117.5°	273.0	294.2	315.4	330.7	340.3	348.0	357.7	369.2	375.0	373.0
120°	271.1	290.4	311.5	325.0	334.6	342.3	350.0	361.5	367.3	363.4
122.5°	267.3	286.5	307.7	321.1	328.8	336.5	344.2	353.8	359.6	357.7
125°	263.4	282.7	301.9	315.4	323.0	328.8	336.5	346.1	350.0	348.0
127.5°	259.6	278.8	296.1	307.7	317.3	323.0	328.8	338.4	342.3	340.3
130°	255.7	273.0	290.4	301.9	309.6	315.4	321.1	330.7	332.7	332.7
132.5°	251.9	267.3	284.6	296.1	303.8	307.7	313.4	321.1	325.0	323.0
135°	248.1	261.5	278.8	288.4	294.2	300.0	305.7	313.4	315.4	315.4
137.5°	242.3	255.7	271.1	280.7	286.5	290.4	296.1	303.8	305.7	305.7
140°	236.5	250.0	263.4	271.1	278.8	282.7	286.5	294.2	296.1	296.1
142.5°	230.7	242.3	255.7	263.4	271.1	273.0	278.8	284.6	286.5	286.5
145°	223.1	236.5	248.1	255.7	261.5	263.4	269.2	275.0	275.0	276.9
147.5°	213.4	225.0	240.4	246.1	251.9	253.8	259.6	263.4	265.4	265.4
150°	203.8	215.4	228.8	238.4	244.2	246.1	248.1	253.8	253.8	255.7
152.5°	194.2	203.8	217.3	226.9	234.6	236.5	238.4	242.3	242.3	244.2
155°	184.6	192.3	203.8	213.4	221.1	225.0	228.8	232.7	232.7	234.6
157.5°	176.9	184.6	194.2	201.9	207.7	213.4	219.2	223.1	223.1	223.1
160°	167.3	173.1	182.7	188.4	196.1	200.0	209.6	213.4	213.4	215.4
162.5°	161.5	163.4	169.2	175.0	180.8	184.6	194.2	203.8	203.8	205.7
165°	163.4	161.5	163.4	165.4	169.2	171.1	176.9	190.4	194.2	196.1
167.5°	167.3	161.5	161.5	161.5	165.4	165.4	171.1	178.8	192.3	188.4
170°	167.3	161.5	157.7	157.7	159.6	157.7	161.5	167.3	175.0	182.7
172.5°	169.2	163.4	157.7	150.0	151.9	150.0	146.1	146.1	148.1	173.1
175°	167.3	163.4	155.8	146.1	144.2	138.4	126.9	117.3	111.5	86.5
177.5°	165.4	159.6	153.8	146.1	142.3	136.5	123.1	107.7	92.3	88.5
180°	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7



TEST NUMBER: P894396
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L950

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	14.69	16.01	15.31	16.65	17.37	17.32	18.64	17.94	19.28	20.00
	3H	16.10	17.30	16.73	17.94	18.70	19.79	20.99	20.41	21.63	22.38
	4H	16.53	17.66	17.17	18.32	19.09	20.95	22.09	21.60	22.75	23.51
	6H	16.76	17.82	17.42	18.48	19.27	22.13	23.19	22.79	23.86	24.64
	8H	16.80	17.82	17.48	18.50	19.29	22.73	23.74	23.40	24.42	25.21
	12H	16.81	17.78	17.49	18.46	19.28	23.36	24.33	24.04	25.01	25.83
4H	2H	15.60	16.73	16.25	17.39	18.16	17.67	18.81	18.32	19.46	20.23
	3H	17.22	18.19	17.88	18.88	19.67	20.33	21.30	20.99	21.99	22.78
	4H	17.77	18.66	18.45	19.36	20.17	21.65	22.53	22.33	23.23	24.05
	6H	18.11	18.89	18.81	19.61	20.44	23.00	23.78	23.70	24.50	25.33
	8H	18.19	18.92	18.89	19.64	20.48	23.69	24.42	24.39	25.14	25.98
	12H	18.22	18.88	18.94	19.62	20.47	24.44	25.10	25.17	25.85	26.69
8H	4H	18.44	19.17	19.14	19.89	20.73	21.80	22.53	22.50	23.25	24.09
	6H	18.94	19.56	19.67	20.32	21.16	23.29	23.91	24.02	24.67	25.51
	8H	19.10	19.65	19.84	20.41	21.27	24.10	24.65	24.84	25.42	26.27
	12H	19.19	19.68	19.93	20.43	21.35	25.01	25.50	25.76	26.26	27.17
12H	4H	18.61	19.27	19.33	20.01	20.86	21.79	22.45	22.51	23.19	24.04
	6H	19.21	19.76	19.95	20.52	21.38	23.31	23.86	24.05	24.62	25.48
	8H	19.44	19.93	20.19	20.69	21.60	24.17	24.66	24.91	25.41	26.33