

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: P894443

Luminaire Tested: 8TMB-10SL-RNDU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-RNDU-UNV-L940
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT
Light Source: -
Ballast/Driver: -

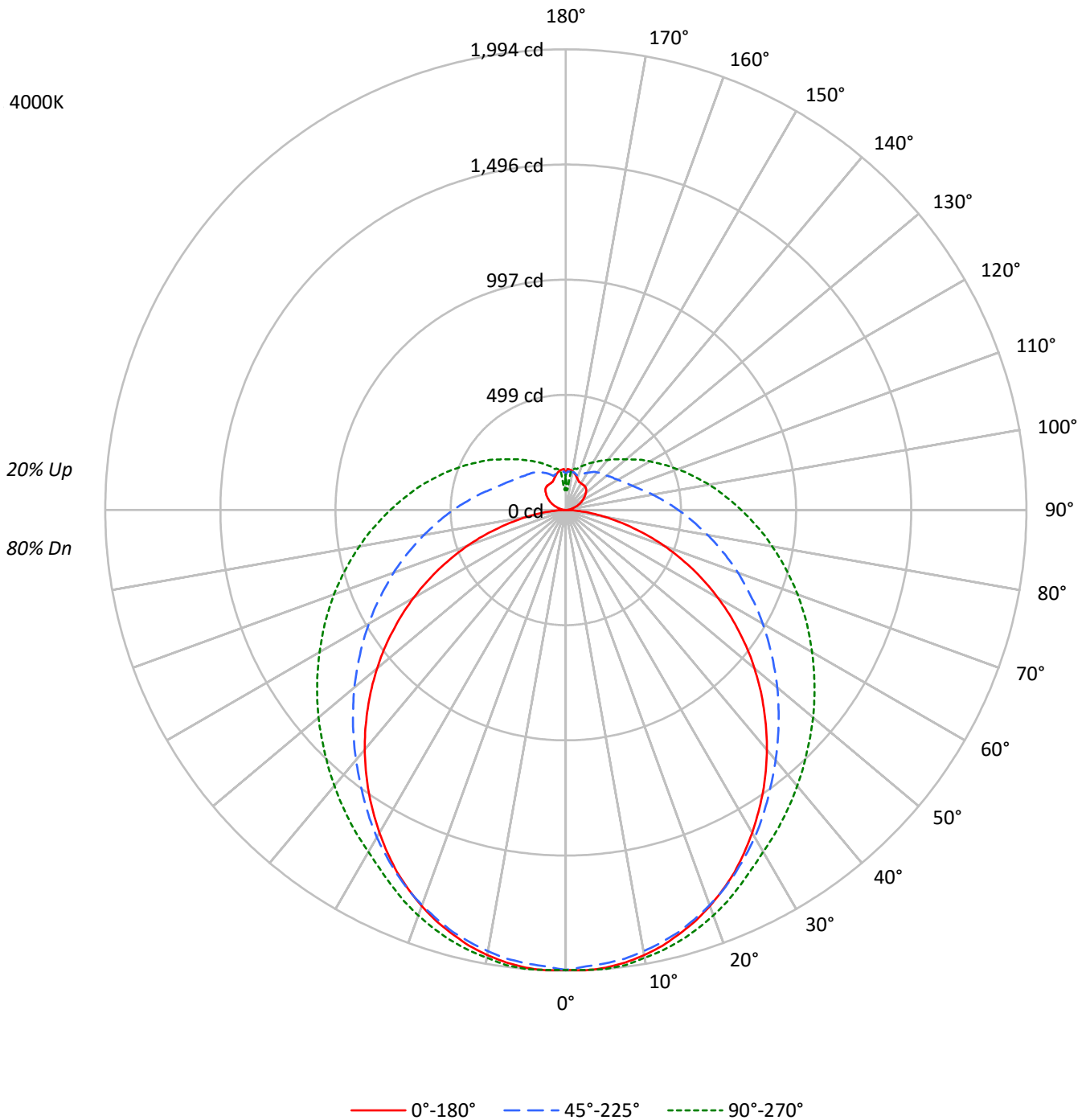
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8372.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 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: P894443
CATALOG NUMBER: 8TMB-10SL-RNDU-UNV-L940

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7063	7063	7063
5°	7067	6775	6778
10°	7016	6520	6465
15°	6929	6262	6175
20°	6822	5987	5879
25°	6688	5711	5581
30°	6513	5431	5317
35°	6332	5142	5122
40°	6137	4881	4946
45°	5927	4651	4789
50°	5708	4446	4667
55°	5455	4257	4561
60°	5169	4103	4482
65°	4818	3970	4437
70°	4381	3892	4423
75°	3785	3840	4442
80°	3067	3856	4513
85°	2138	3978	4660

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5927 cd/sqm



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 CATALOG NUMBER: 8TMB-10SL-RNDU-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	2.2
10°-20°	537.0	6.4
20°-30°	806.2	9.6
30°-40°	969.5	11.6
40°-50°	1027.2	12.3
50°-60°	989.2	11.8
60°-70°	875.4	10.5
70°-80°	718.1	8.6
80°-90°	557.2	6.7
90°-100°	432.5	5.2
100°-110°	342.7	4.1
110°-120°	273.0	3.3
120°-130°	216.8	2.6
130°-140°	169.3	2.0
140°-150°	124.6	1.5
150°-160°	82.4	1.0
160°-170°	47.4	0.6
170°-180°	15.2	0.2
0°-30°	1531.5	18.3
0°-40°	2501.0	29.9
0°-60°	4517.3	54.0
0°-90°	6668.0	79.6
90°-120°	1048.1	12.5
90°-150°	1558.9	18.6
90°-180°	1704.0	20.4
0°-180°	8372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1990	1990	1990	1990	1990	
5°	1989	1990	1970	1985	1994	189
15°	1900	1901	1890	1918	1928	536
25°	1729	1735	1735	1778	1790	795
35°	1489	1508	1525	1604	1636	931
45°	1212	1240	1303	1426	1477	935
55°	915	960	1087	1248	1314	818
65°	606	689	884	1070	1150	600
75°	303	454	704	903	987	324
85°	68	275	551	752	831	78
90°	2	216	487	682	759	5
95°	10	178	430	616	691	10
105°	34	144	339	504	570	36
115°	68	138	282	411	466	67
125°	98	144	246	339	381	88
135°	125	153	222	284	311	96
145°	133	152	201	244	260	83
155°	134	157	172	208	220	63
165°	159	169	163	163	184	45
175°	176	174	167	138	93	17
180°	153	153	153	153	153	



TEST NUMBER: P894443
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	1994.2	1992.4	1996.1	1999.9	2011.3	1996.1	2003.7	1982.9	1984.8	1986.7	1977.2
5°	1988.6	1982.9	1988.6	1992.4	2001.8	1990.5	1998.0	1975.3	1977.2	1981.0	1969.6
7.5°	1975.3	1969.6	1973.4	1977.2	1986.7	1975.3	1984.8	1962.0	1965.8	1967.7	1958.3
10°	1956.4	1948.8	1952.6	1958.3	1965.8	1956.4	1963.9	1943.1	1945.0	1948.8	1939.3
12.5°	1931.7	1924.2	1928.0	1931.7	1941.2	1931.7	1939.3	1918.5	1922.3	1926.1	1916.6
15°	1899.6	1892.0	1895.8	1899.6	1907.1	1901.4	1909.0	1888.2	1892.0	1899.6	1890.1
17.5°	1865.5	1854.1	1857.9	1863.6	1871.1	1867.4	1873.0	1856.0	1857.9	1865.5	1856.0
20°	1823.8	1812.4	1816.2	1821.9	1829.5	1827.6	1831.4	1816.2	1820.0	1829.5	1820.0
22.5°	1778.3	1767.0	1770.8	1778.3	1784.0	1784.0	1785.9	1774.6	1778.3	1787.8	1780.2
25°	1729.1	1717.7	1721.5	1729.1	1734.8	1734.8	1738.6	1727.2	1732.9	1742.4	1734.8
27.5°	1672.3	1666.6	1666.6	1674.2	1678.0	1681.8	1683.6	1674.2	1681.8	1691.2	1685.5
30°	1613.6	1606.0	1609.8	1619.3	1619.3	1626.8	1626.8	1619.3	1628.7	1640.1	1636.3
32.5°	1551.1	1545.4	1547.3	1558.7	1558.7	1568.1	1566.2	1562.4	1571.9	1585.2	1581.4
35°	1488.6	1482.9	1484.8	1496.2	1496.2	1507.5	1503.7	1503.7	1513.2	1528.4	1524.6
37.5°	1422.3	1418.5	1420.4	1431.8	1431.8	1443.1	1439.3	1441.2	1452.6	1469.6	1467.7
40°	1354.1	1350.3	1354.1	1363.6	1367.4	1376.8	1373.1	1376.8	1392.0	1407.1	1412.8
42.5°	1284.0	1282.1	1285.9	1295.4	1299.2	1308.7	1306.8	1312.5	1327.6	1350.3	1357.9
45°	1212.1	1212.1	1215.9	1225.3	1229.1	1240.5	1238.6	1246.2	1265.1	1289.7	1303.0
47.5°	1140.1	1142.0	1143.9	1155.3	1155.3	1174.2	1168.5	1179.9	1204.5	1232.9	1248.1
50°	1066.2	1070.0	1071.9	1081.4	1085.2	1102.2	1098.4	1117.4	1143.9	1174.2	1195.0
52.5°	992.4	996.2	1000.0	1007.5	1011.3	1032.2	1028.4	1053.0	1085.2	1117.4	1140.1
55°	914.7	922.3	924.2	933.7	939.4	960.2	960.2	988.6	1022.7	1058.7	1087.1
57.5°	839.0	846.6	848.5	859.8	867.4	892.0	895.8	928.0	965.9	1001.9	1035.9
60°	761.3	770.8	772.7	784.1	797.3	823.8	829.5	865.5	907.2	945.0	984.8
62.5°	683.7	693.2	696.9	708.3	729.1	755.7	765.1	806.8	850.3	892.0	935.6
65°	606.0	615.5	621.2	636.3	661.0	689.4	702.6	746.2	795.4	839.0	884.4
67.5°	528.4	539.8	547.3	566.3	598.5	628.8	642.0	691.3	742.4	789.7	837.1
70°	452.6	464.0	473.5	498.1	536.0	566.3	583.3	636.3	689.4	740.5	793.5
72.5°	378.8	390.1	403.4	433.7	475.4	509.5	528.4	583.3	642.0	693.2	748.1
75°	303.0	316.3	331.4	373.1	420.4	454.5	475.4	534.1	594.7	645.8	704.5
77.5°	234.8	248.1	270.8	312.5	365.5	403.4	426.1	488.6	551.1	602.3	662.9
80°	172.3	185.6	215.9	261.4	316.3	352.3	380.7	445.1	509.5	562.5	623.1
82.5°	117.4	130.7	166.7	215.9	274.6	310.6	337.1	405.3	469.7	524.6	585.2
85°	68.2	87.1	125.0	178.0	238.6	274.6	301.1	371.2	433.7	488.6	551.1
87.5°	30.3	53.0	94.7	147.7	208.3	242.4	270.8	335.2	401.5	456.4	518.9
90°	1.9	30.3	73.9	125.0	183.7	215.9	242.4	306.8	369.3	426.1	486.7
92.5°	3.8	20.8	60.6	108.0	162.9	195.1	221.6	282.2	340.9	399.6	458.3
95°	9.5	20.8	53.0	96.6	147.7	178.0	202.6	261.4	316.3	373.1	429.9
97.5°	15.2	22.7	51.1	90.9	136.4	164.8	187.5	242.4	297.3	348.5	405.3
100°	20.8	28.4	51.1	87.1	128.8	155.3	176.1	227.3	278.4	325.7	382.6
102.5°	26.5	34.1	54.9	87.1	125.0	147.7	168.6	215.9	263.2	306.8	359.8
105°	34.1	39.8	58.7	87.1	121.2	143.9	161.0	204.5	250.0	291.7	339.0
107.5°	41.7	45.5	62.5	89.0	121.2	140.1	157.2	197.0	238.6	276.5	322.0
110°	51.1	53.0	68.2	92.8	121.2	138.3	153.4	191.3	229.2	265.1	306.8



TEST NUMBER: P894443
 CATALOG NUMBER: 8TMB-10SL-RNDU-UNV-L940

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	58.7	58.7	73.9	96.6	121.2	138.3	151.5	185.6	221.6	253.8	293.5
115°	68.2	68.2	79.5	100.4	123.1	138.3	151.5	183.7	215.9	244.3	282.2
117.5°	75.8	75.8	87.1	104.2	126.9	140.1	151.5	179.9	210.2	236.7	270.8
120°	83.3	83.3	90.9	108.0	128.8	142.0	151.5	178.0	204.5	231.1	261.4
122.5°	90.9	90.9	96.6	113.6	130.7	142.0	151.5	176.1	200.8	223.5	251.9
125°	98.5	98.5	102.3	117.4	134.5	143.9	153.4	176.1	198.9	217.8	246.2
127.5°	106.1	104.2	109.8	123.1	136.4	145.8	155.3	176.1	195.1	214.0	238.6
130°	111.7	109.8	117.4	126.9	140.1	147.7	155.3	174.2	193.2	210.2	231.1
132.5°	119.3	115.5	125.0	128.8	143.9	151.5	157.2	174.2	191.3	206.4	227.3
135°	125.0	121.2	130.7	134.5	145.8	153.4	159.1	174.2	189.4	204.5	221.6
137.5°	128.8	126.9	136.4	140.1	147.7	155.3	161.0	174.2	187.5	200.8	217.8
140°	130.7	128.8	136.4	143.9	147.7	155.3	159.1	172.3	185.6	197.0	212.1
142.5°	132.6	132.6	138.3	145.8	147.7	153.4	159.1	170.4	181.8	191.3	208.3
145°	132.6	132.6	138.3	147.7	149.6	151.5	155.3	166.7	176.1	185.6	200.8
147.5°	132.6	132.6	140.1	147.7	151.5	153.4	151.5	162.9	172.3	179.9	193.2
150°	132.6	132.6	140.1	147.7	153.4	155.3	153.4	159.1	166.7	174.2	185.6
152.5°	134.5	134.5	140.1	147.7	153.4	155.3	155.3	155.3	161.0	168.6	179.9
155°	134.5	136.4	140.1	151.5	155.3	157.2	157.2	157.2	155.3	162.9	172.3
157.5°	140.1	142.0	143.9	153.4	157.2	159.1	159.1	159.1	157.2	155.3	164.8
160°	145.8	147.7	149.6	157.2	161.0	162.9	162.9	162.9	159.1	157.2	157.2
162.5°	151.5	155.3	155.3	159.1	162.9	164.8	164.8	166.7	162.9	161.0	159.1
165°	159.1	161.0	161.0	162.9	166.7	168.6	166.7	168.6	166.7	164.8	162.9
167.5°	164.8	166.7	166.7	168.6	168.6	170.4	170.4	170.4	168.6	166.7	166.7
170°	170.4	172.3	172.3	172.3	172.3	172.3	172.3	172.3	170.4	166.7	166.7
172.5°	174.2	176.1	176.1	174.2	174.2	174.2	174.2	172.3	168.6	166.7	166.7
175°	176.1	178.0	178.0	176.1	174.2	174.2	174.2	172.3	168.6	166.7	166.7
177.5°	178.0	179.9	178.0	178.0	174.2	174.2	174.2	174.2	170.4	168.6	166.7
180°	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	1988.6	1965.8	1981.0	1982.9	1990.5	1982.9	1988.6	1982.9	1998.0	1992.4
5°	1981.0	1960.2	1973.4	1975.3	1984.8	1975.3	1984.8	1981.0	1999.9	1994.2
7.5°	1967.7	1950.7	1962.0	1963.9	1975.3	1965.8	1975.3	1971.5	1994.2	1986.7
10°	1948.8	1935.5	1946.9	1948.8	1960.2	1950.7	1958.3	1954.5	1979.1	1967.7
12.5°	1928.0	1916.6	1926.1	1928.0	1941.2	1931.7	1941.2	1937.4	1962.0	1950.7
15°	1897.7	1892.0	1901.4	1905.2	1918.5	1910.9	1920.4	1916.6	1943.1	1928.0
17.5°	1867.4	1863.6	1873.0	1876.8	1892.0	1882.5	1892.0	1888.2	1914.7	1899.6
20°	1829.5	1827.6	1837.1	1842.7	1856.0	1846.5	1857.9	1854.1	1882.5	1867.4
22.5°	1789.7	1789.7	1797.3	1803.0	1816.2	1808.6	1820.0	1818.1	1846.5	1831.4
25°	1746.1	1748.0	1755.6	1763.2	1778.3	1772.7	1782.1	1782.1	1808.6	1789.7
27.5°	1696.9	1706.4	1712.1	1721.5	1734.8	1729.1	1738.6	1740.5	1767.0	1748.0
30°	1645.8	1659.0	1664.7	1676.1	1687.4	1687.4	1696.9	1700.7	1727.2	1708.3
32.5°	1592.7	1607.9	1615.5	1630.6	1645.8	1645.8	1659.0	1664.7	1691.2	1674.2
35°	1539.7	1560.5	1570.0	1589.0	1604.1	1606.0	1619.3	1626.8	1653.3	1636.3
37.5°	1488.6	1515.1	1524.6	1547.3	1560.5	1564.3	1579.5	1589.0	1613.6	1598.4
40°	1435.6	1467.7	1479.1	1503.7	1515.1	1522.7	1537.8	1549.2	1571.9	1558.7
42.5°	1384.4	1420.4	1431.8	1458.3	1471.5	1479.1	1494.3	1509.4	1532.1	1518.9
45°	1333.3	1373.1	1386.3	1414.7	1426.1	1437.4	1454.5	1467.7	1488.6	1477.2
47.5°	1284.0	1325.7	1339.0	1369.3	1382.5	1395.8	1410.9	1429.9	1448.8	1437.4
50°	1232.9	1276.5	1293.5	1325.7	1337.1	1352.2	1371.2	1388.2	1407.1	1397.7
52.5°	1183.7	1229.1	1246.2	1280.3	1293.5	1308.7	1327.6	1346.5	1363.6	1356.0
55°	1130.6	1179.9	1198.8	1234.8	1248.1	1263.2	1284.0	1304.9	1320.0	1314.3
57.5°	1081.4	1132.5	1151.5	1191.2	1202.6	1221.5	1242.4	1265.1	1278.4	1272.7
60°	1032.2	1083.3	1106.0	1145.8	1159.0	1178.0	1198.8	1223.4	1234.8	1231.0
62.5°	982.9	1035.9	1060.6	1102.2	1113.6	1134.4	1159.0	1179.9	1191.2	1189.3
65°	937.5	988.6	1017.0	1058.7	1070.0	1092.8	1115.5	1138.2	1149.6	1149.6
67.5°	890.1	945.0	973.4	1017.0	1026.5	1051.1	1075.7	1098.4	1107.9	1107.9
70°	846.6	899.6	931.8	975.3	984.8	1007.5	1034.1	1058.7	1066.2	1068.1
72.5°	803.0	856.0	890.1	935.6	945.0	967.8	992.4	1018.9	1024.6	1026.5
75°	761.3	814.4	848.5	893.9	903.4	926.1	952.6	977.2	984.8	986.7
77.5°	719.7	772.7	810.6	854.1	863.6	886.3	912.8	937.5	943.1	946.9
80°	681.8	732.9	768.9	816.3	825.7	848.5	873.1	897.7	901.5	907.2
82.5°	643.9	695.0	732.9	778.4	787.8	810.6	835.2	859.8	863.6	871.2
85°	607.9	659.1	696.9	740.5	751.9	772.7	799.2	821.9	825.7	831.4
87.5°	575.7	623.1	662.9	704.5	715.9	736.7	763.2	786.0	787.8	795.4
90°	541.6	589.0	628.8	670.4	681.8	700.7	727.2	750.0	753.8	759.4
92.5°	513.2	556.8	598.5	638.2	647.7	668.5	693.2	715.9	719.7	725.4
95°	482.9	526.5	568.2	606.0	615.5	636.3	659.1	681.8	685.6	691.3
97.5°	456.4	498.1	537.9	575.7	585.2	604.1	628.8	649.6	653.4	661.0
100°	431.8	471.6	513.2	547.3	556.8	575.7	598.5	619.3	623.1	630.7
102.5°	409.1	447.0	486.7	518.9	530.3	547.3	570.1	589.0	592.8	598.5
105°	388.2	424.2	462.1	492.4	503.8	520.8	541.6	560.6	564.4	570.1
107.5°	367.4	401.5	437.5	467.8	477.3	492.4	513.2	532.2	536.0	543.5
110°	348.5	382.6	416.7	445.1	456.4	467.8	488.6	505.7	509.5	515.1



TEST NUMBER: P894443
 CATALOG NUMBER: 8TMB-10SL-RNDU-UNV-L940

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	331.4	361.7	395.8	422.3	431.8	445.1	462.1	479.1	482.9	490.5
115°	316.3	344.7	378.8	403.4	411.0	422.3	441.3	456.4	460.2	465.9
117.5°	303.0	327.6	357.9	382.6	392.0	401.5	418.5	431.8	437.5	441.3
120°	291.7	314.4	340.9	363.6	375.0	382.6	397.7	411.0	416.7	420.4
122.5°	280.3	301.1	325.7	346.6	356.0	361.7	378.8	390.1	395.8	401.5
125°	270.8	289.8	312.5	329.5	339.0	344.7	359.8	371.2	376.9	380.7
127.5°	261.4	278.4	301.1	314.4	323.9	327.6	340.9	352.3	357.9	359.8
130°	251.9	268.9	287.9	301.1	308.7	314.4	325.7	333.3	339.0	340.9
132.5°	244.3	259.5	276.5	289.8	297.3	299.2	310.6	318.2	323.9	325.7
135°	238.6	250.0	267.0	278.4	284.1	287.9	297.3	303.0	308.7	310.6
137.5°	231.1	242.4	257.6	265.1	272.7	274.6	284.1	289.8	295.4	297.3
140°	225.4	234.8	248.1	255.7	263.2	263.2	270.8	276.5	282.2	282.2
142.5°	219.7	229.2	240.5	248.1	253.8	253.8	261.4	265.1	270.8	270.8
145°	212.1	221.6	232.9	238.6	244.3	244.3	250.0	253.8	259.5	259.5
147.5°	204.5	214.0	225.4	229.2	234.8	234.8	240.5	244.3	248.1	248.1
150°	195.1	202.6	215.9	221.6	227.3	227.3	231.1	234.8	238.6	238.6
152.5°	187.5	193.2	204.5	212.1	217.8	217.8	221.6	225.4	229.2	229.2
155°	178.0	183.7	193.2	202.6	208.3	210.2	214.0	215.9	219.7	219.7
157.5°	170.4	176.1	183.7	191.3	197.0	200.8	206.4	208.3	210.2	210.2
160°	161.0	164.8	172.3	179.9	185.6	189.4	198.9	200.8	202.6	202.6
162.5°	157.2	157.2	161.0	166.7	172.3	174.2	183.7	191.3	195.1	193.2
165°	159.1	157.2	157.2	159.1	162.9	164.8	170.4	181.8	185.6	183.7
167.5°	162.9	159.1	157.2	157.2	161.0	161.0	166.7	176.1	187.5	183.7
170°	162.9	157.2	153.4	153.4	155.3	155.3	159.1	164.8	176.1	178.0
172.5°	161.0	157.2	151.5	143.9	145.8	143.9	142.0	145.8	147.7	166.7
175°	162.9	157.2	151.5	142.0	138.3	132.6	123.1	115.5	113.6	92.8
177.5°	161.0	155.3	147.7	140.1	136.4	128.8	117.4	104.2	96.6	85.2
180°	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4



TEST NUMBER: P894443
 CATALOG NUMBER: 8TMB-10SL-RNDU-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	13.75	15.06	14.39	15.72	16.49	17.37	18.68	18.01	19.35	20.12
	3H	15.09	16.29	15.75	16.97	17.77	20.32	21.52	20.98	22.20	23.00
	4H	15.50	16.64	16.17	17.32	18.14	21.83	22.97	22.50	23.66	24.47
	6H	15.71	16.77	16.40	17.47	18.30	23.44	24.50	24.13	25.20	26.03
	8H	15.75	16.76	16.44	17.48	18.31	24.29	25.31	24.99	26.03	26.86
	12H	15.75	16.73	16.45	17.44	18.30	25.24	26.21	25.94	26.93	27.79
4H	2H	14.90	16.04	15.58	16.73	17.54	17.69	18.82	18.36	19.51	20.33
	3H	16.55	17.52	17.23	18.24	19.08	20.87	21.85	21.56	22.57	23.40
	4H	17.11	18.01	17.82	18.74	19.60	22.55	23.45	23.25	24.18	25.04
	6H	17.45	18.25	18.17	19.00	19.87	24.37	25.17	25.09	25.92	26.78
	8H	17.53	18.28	18.25	19.03	19.91	25.34	26.09	26.07	26.84	27.73
	12H	17.55	18.24	18.30	19.01	19.90	26.43	27.11	27.18	27.88	28.77
8H	4H	18.22	18.97	18.95	19.72	20.60	22.72	23.47	23.45	24.22	25.10
	6H	18.83	19.47	19.58	20.26	21.14	24.72	25.36	25.47	26.14	27.03
	8H	19.02	19.60	19.79	20.39	21.29	25.83	26.41	26.60	27.20	28.10
	12H	19.14	19.65	19.91	20.43	21.39	27.11	27.63	27.88	28.41	29.36
12H	4H	18.59	19.27	19.33	20.04	20.93	22.71	23.40	23.46	24.17	25.06
	6H	19.36	19.94	20.13	20.73	21.63	24.74	25.32	25.51	26.11	27.01
	8H	19.69	20.21	20.46	20.99	21.94	25.93	26.44	26.70	27.22	28.18