

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: P894553

Luminaire Tested: 8TMB-12SL-RNDU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894553
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-12SL-RNDU-UNV-L930
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT
Light Source: -
Ballast/Driver: -

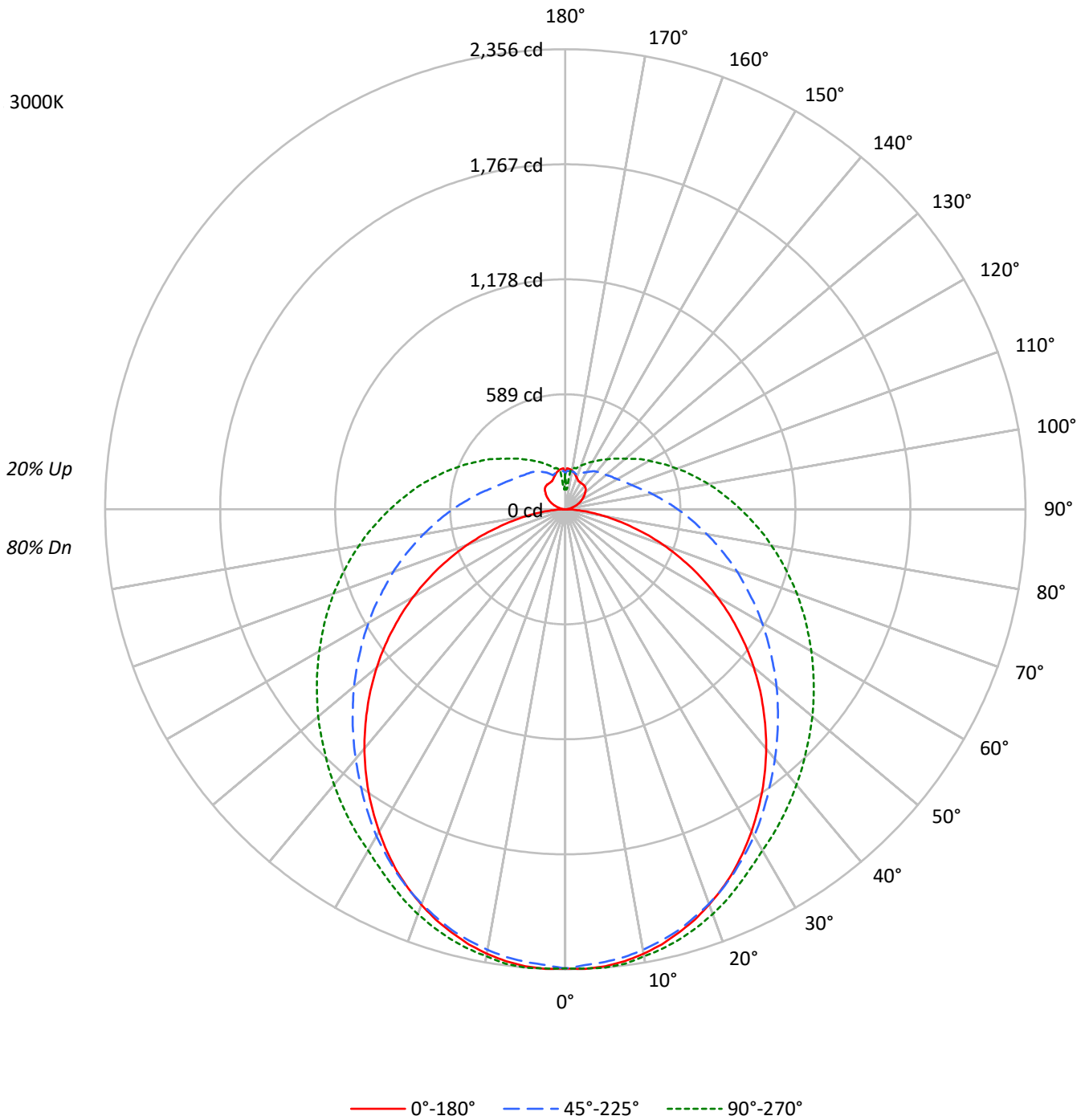
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9891.0 lumens
Efficiency: N/A
Efficacy: 111.4 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): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-12SL-RNDU-UNV-L930

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
RCR																				
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80		
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	61		
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	49		
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	41		
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	34		
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	29		
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	26		
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	23		
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	20		
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	18		
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8344	8344	8344
5°	8349	8004	8008
10°	8289	7704	7638
15°	8186	7398	7296
20°	8059	7074	6945
25°	7901	6747	6593
30°	7694	6417	6281
35°	7481	6075	6052
40°	7251	5767	5843
45°	7003	5494	5657
50°	6744	5253	5514
55°	6445	5029	5389
60°	6107	4848	5295
65°	5693	4690	5243
70°	5177	4598	5225
75°	4472	4537	5248
80°	3624	4555	5332
85°	2524	4700	5506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7003 cd/sqm



TEST NUMBER: P894553
 CATALOG NUMBER: 8TMB-12SL-RNDU-UNV-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	2.2
10°-20°	634.4	6.4
20°-30°	952.5	9.6
30°-40°	1145.4	11.6
40°-50°	1213.5	12.3
50°-60°	1168.6	11.8
60°-70°	1034.3	10.5
70°-80°	848.4	8.6
80°-90°	658.3	6.7
90°-100°	510.9	5.2
100°-110°	404.8	4.1
110°-120°	322.5	3.3
120°-130°	256.2	2.6
130°-140°	200.0	2.0
140°-150°	147.2	1.5
150°-160°	97.4	1.0
160°-170°	56.0	0.6
170°-180°	18.0	0.2
0°-30°	1809.4	18.3
0°-40°	2954.8	29.9
0°-60°	5337.0	54.0
0°-90°	7877.9	79.6
90°-120°	1238.3	12.5
90°-150°	1841.7	18.6
90°-180°	2013.0	20.4
0°-180°	9891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2352	2352	2352	2352	2352	
5°	2349	2352	2327	2345	2356	223
15°	2244	2246	2233	2267	2278	633
25°	2043	2050	2050	2101	2114	940
35°	1759	1781	1801	1895	1933	1099
45°	1432	1466	1539	1685	1745	1105
55°	1081	1134	1284	1474	1553	967
65°	716	814	1045	1264	1358	709
75°	358	537	832	1067	1166	383
85°	80	324	651	888	982	92
90°	2	255	575	806	897	6
95°	11	210	508	727	817	12
105°	40	170	400	595	674	43
115°	80	163	333	486	550	79
125°	116	170	291	400	450	104
135°	148	181	262	336	367	113
145°	157	179	237	289	306	98
155°	159	186	204	246	260	75
165°	188	199	192	192	217	53
175°	208	206	197	163	110	20
180°	181	181	181	181	181	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2356.1	2353.8	2358.3	2362.8	2376.2	2358.3	2367.3	2342.7	2344.9	2347.1	2335.9
5°	2349.4	2342.7	2349.4	2353.8	2365.0	2351.6	2360.6	2333.7	2335.9	2340.4	2327.0
7.5°	2333.7	2327.0	2331.5	2335.9	2347.1	2333.7	2344.9	2318.0	2322.5	2324.8	2313.6
10°	2311.3	2302.4	2306.9	2313.6	2322.5	2311.3	2320.3	2295.7	2297.9	2302.4	2291.2
12.5°	2282.2	2273.3	2277.8	2282.2	2293.4	2282.2	2291.2	2266.6	2271.1	2275.5	2264.3
15°	2244.2	2235.3	2239.7	2244.2	2253.2	2246.4	2255.4	2230.8	2235.3	2244.2	2233.0
17.5°	2203.9	2190.5	2195.0	2201.7	2210.6	2206.2	2212.9	2192.7	2195.0	2203.9	2192.7
20°	2154.7	2141.3	2145.8	2152.5	2161.4	2159.2	2163.7	2145.8	2150.2	2161.4	2150.2
22.5°	2101.0	2087.6	2092.1	2101.0	2107.7	2107.7	2110.0	2096.5	2101.0	2112.2	2103.2
25°	2042.8	2029.4	2033.9	2042.8	2049.5	2049.5	2054.0	2040.6	2047.3	2058.5	2049.5
27.5°	1975.7	1969.0	1969.0	1977.9	1982.4	1986.9	1989.1	1977.9	1986.9	1998.1	1991.4
30°	1906.3	1897.4	1901.9	1913.1	1913.1	1922.0	1922.0	1913.1	1924.2	1937.7	1933.2
32.5°	1832.5	1825.8	1828.0	1841.5	1841.5	1852.6	1850.4	1845.9	1857.1	1872.8	1868.3
35°	1758.7	1752.0	1754.2	1767.6	1767.6	1781.0	1776.6	1776.6	1787.8	1805.7	1801.2
37.5°	1680.4	1675.9	1678.1	1691.5	1691.5	1705.0	1700.5	1702.7	1716.2	1736.3	1734.1
40°	1599.8	1595.3	1599.8	1611.0	1615.5	1626.7	1622.2	1626.7	1644.6	1662.5	1669.2
42.5°	1517.0	1514.8	1519.3	1530.4	1534.9	1546.1	1543.9	1550.6	1568.5	1595.3	1604.3
45°	1432.0	1432.0	1436.5	1447.7	1452.1	1465.6	1463.3	1472.3	1494.6	1523.7	1539.4
47.5°	1347.0	1349.2	1351.4	1364.9	1364.9	1387.2	1380.5	1394.0	1423.0	1456.6	1474.5
50°	1259.7	1264.2	1266.4	1277.6	1282.1	1302.2	1297.7	1320.1	1351.4	1387.2	1411.9
52.5°	1172.4	1176.9	1181.4	1190.3	1194.8	1219.4	1215.0	1244.0	1282.1	1320.1	1347.0
55°	1080.7	1089.7	1091.9	1103.1	1109.8	1134.4	1134.4	1168.0	1208.2	1250.8	1284.3
57.5°	991.2	1000.2	1002.4	1015.8	1024.8	1053.9	1058.3	1096.4	1141.1	1183.6	1223.9
60°	899.5	910.7	912.9	926.3	942.0	973.3	980.0	1022.5	1071.8	1116.5	1163.5
62.5°	807.7	818.9	823.4	836.8	861.4	892.8	903.9	953.2	1004.6	1053.9	1105.3
65°	716.0	727.2	733.9	751.8	780.9	814.4	830.1	881.6	939.7	991.2	1044.9
67.5°	624.3	637.7	646.6	669.0	707.0	742.8	758.5	816.7	877.1	933.0	989.0
70°	534.8	548.2	559.4	588.5	633.2	669.0	689.1	751.8	814.4	874.9	937.5
72.5°	447.5	460.9	476.6	512.4	561.6	601.9	624.3	689.1	758.5	818.9	883.8
75°	358.0	373.7	391.6	440.8	496.7	537.0	561.6	631.0	702.6	763.0	832.3
77.5°	277.4	293.1	320.0	369.2	431.8	476.6	503.4	577.3	651.1	711.5	783.1
80°	203.6	219.3	255.1	308.8	373.7	416.2	449.7	525.8	601.9	664.5	736.1
82.5°	138.7	154.4	196.9	255.1	324.4	366.9	398.3	478.8	554.9	619.8	691.4
85°	80.5	102.9	147.7	210.3	281.9	324.4	355.8	438.5	512.4	577.3	651.1
87.5°	35.8	62.6	111.9	174.5	246.1	286.4	320.0	396.0	474.3	539.2	613.1
90°	2.2	35.8	87.3	147.7	217.0	255.1	286.4	362.5	436.3	503.4	575.0
92.5°	4.5	24.6	71.6	127.5	192.4	230.5	261.8	333.4	402.7	472.1	541.5
95°	11.2	24.6	62.6	114.1	174.5	210.3	239.4	308.8	373.7	440.8	507.9
97.5°	17.9	26.8	60.4	107.4	161.1	194.7	221.5	286.4	351.3	411.7	478.8
100°	24.6	33.6	60.4	102.9	152.1	183.5	208.1	268.5	328.9	384.8	452.0
102.5°	31.3	40.3	64.9	102.9	147.7	174.5	199.1	255.1	311.0	362.5	425.1
105°	40.3	47.0	69.4	102.9	143.2	170.0	190.2	241.6	295.3	344.6	400.5
107.5°	49.2	53.7	73.8	105.2	143.2	165.6	185.7	232.7	281.9	326.7	380.4
110°	60.4	62.6	80.5	109.6	143.2	163.3	181.2	226.0	270.7	313.2	362.5



TEST NUMBER: P894553
 CATALOG NUMBER: 8TMB-12SL-RNDU-UNV-L930

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	69.4	69.4	87.3	114.1	143.2	163.3	179.0	219.3	261.8	299.8	346.8
115°	80.5	80.5	94.0	118.6	145.4	163.3	179.0	217.0	255.1	288.6	333.4
117.5°	89.5	89.5	102.9	123.1	149.9	165.6	179.0	212.6	248.4	279.7	320.0
120°	98.4	98.4	107.4	127.5	152.1	167.8	179.0	210.3	241.6	273.0	308.8
122.5°	107.4	107.4	114.1	134.2	154.4	167.8	179.0	208.1	237.2	264.0	297.6
125°	116.3	116.3	120.8	138.7	158.9	170.0	181.2	208.1	234.9	257.3	290.9
127.5°	125.3	123.1	129.8	145.4	161.1	172.3	183.5	208.1	230.5	252.8	281.9
130°	132.0	129.8	138.7	149.9	165.6	174.5	183.5	205.8	228.2	248.4	273.0
132.5°	141.0	136.5	147.7	152.1	170.0	179.0	185.7	205.8	226.0	243.9	268.5
135°	147.7	143.2	154.4	158.9	172.3	181.2	187.9	205.8	223.7	241.6	261.8
137.5°	152.1	149.9	161.1	165.6	174.5	183.5	190.2	205.8	221.5	237.2	257.3
140°	154.4	152.1	161.1	170.0	174.5	183.5	187.9	203.6	219.3	232.7	250.6
142.5°	156.6	156.6	163.3	172.3	174.5	181.2	187.9	201.4	214.8	226.0	246.1
145°	156.6	156.6	163.3	174.5	176.8	179.0	183.5	196.9	208.1	219.3	237.2
147.5°	156.6	156.6	165.6	174.5	179.0	181.2	179.0	192.4	203.6	212.6	228.2
150°	156.6	156.6	165.6	174.5	181.2	183.5	181.2	187.9	196.9	205.8	219.3
152.5°	158.9	158.9	165.6	174.5	181.2	183.5	183.5	183.5	190.2	199.1	212.6
155°	158.9	161.1	165.6	179.0	183.5	185.7	185.7	185.7	183.5	192.4	203.6
157.5°	165.6	167.8	170.0	181.2	185.7	187.9	187.9	187.9	185.7	183.5	194.7
160°	172.3	174.5	176.8	185.7	190.2	192.4	192.4	192.4	187.9	185.7	185.7
162.5°	179.0	183.5	183.5	187.9	192.4	194.7	194.7	196.9	192.4	190.2	187.9
165°	187.9	190.2	190.2	192.4	196.9	199.1	196.9	199.1	196.9	194.7	192.4
167.5°	194.7	196.9	196.9	199.1	199.1	201.4	201.4	201.4	199.1	196.9	196.9
170°	201.4	203.6	203.6	203.6	203.6	203.6	203.6	203.6	201.4	196.9	196.9
172.5°	205.8	208.1	208.1	205.8	205.8	205.8	205.8	203.6	199.1	196.9	196.9
175°	208.1	210.3	210.3	208.1	205.8	205.8	205.8	203.6	199.1	196.9	196.9
177.5°	210.3	212.6	210.3	210.3	205.8	205.8	205.8	205.8	201.4	199.1	196.9
180°	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2349.4	2322.5	2340.4	2342.7	2351.6	2342.7	2349.4	2342.7	2360.6	2353.8
5°	2340.4	2315.8	2331.5	2333.7	2344.9	2333.7	2344.9	2340.4	2362.8	2356.1
7.5°	2324.8	2304.6	2318.0	2320.3	2333.7	2322.5	2333.7	2329.2	2356.1	2347.1
10°	2302.4	2286.7	2300.1	2302.4	2315.8	2304.6	2313.6	2309.1	2338.2	2324.8
12.5°	2277.8	2264.3	2275.5	2277.8	2293.4	2282.2	2293.4	2289.0	2318.0	2304.6
15°	2242.0	2235.3	2246.4	2250.9	2266.6	2257.6	2268.8	2264.3	2295.7	2277.8
17.5°	2206.2	2201.7	2212.9	2217.4	2235.3	2224.1	2235.3	2230.8	2262.1	2244.2
20°	2161.4	2159.2	2170.4	2177.1	2192.7	2181.6	2195.0	2190.5	2224.1	2206.2
22.5°	2114.4	2114.4	2123.4	2130.1	2145.8	2136.8	2150.2	2148.0	2181.6	2163.7
25°	2063.0	2065.2	2074.2	2083.1	2101.0	2094.3	2105.5	2105.5	2136.8	2114.4
27.5°	2004.8	2016.0	2022.7	2033.9	2049.5	2042.8	2054.0	2056.3	2087.6	2065.2
30°	1944.4	1960.0	1966.8	1980.2	1993.6	1993.6	2004.8	2009.3	2040.6	2018.2
32.5°	1881.7	1899.6	1908.6	1926.5	1944.4	1944.4	1960.0	1966.8	1998.1	1977.9
35°	1819.1	1843.7	1854.9	1877.3	1895.2	1897.4	1913.1	1922.0	1953.3	1933.2
37.5°	1758.7	1790.0	1801.2	1828.0	1843.7	1848.2	1866.1	1877.3	1906.3	1888.4
40°	1696.0	1734.1	1747.5	1776.6	1790.0	1798.9	1816.8	1830.3	1857.1	1841.5
42.5°	1635.6	1678.1	1691.5	1722.9	1738.5	1747.5	1765.4	1783.3	1810.1	1794.5
45°	1575.2	1622.2	1637.8	1671.4	1684.8	1698.3	1718.4	1734.1	1758.7	1745.2
47.5°	1517.0	1566.2	1581.9	1617.7	1633.4	1649.0	1666.9	1689.3	1711.7	1698.3
50°	1456.6	1508.1	1528.2	1566.2	1579.7	1597.6	1619.9	1640.1	1662.5	1651.3
52.5°	1398.4	1452.1	1472.3	1512.5	1528.2	1546.1	1568.5	1590.9	1611.0	1602.0
55°	1335.8	1394.0	1416.3	1458.8	1474.5	1492.4	1517.0	1541.6	1559.5	1552.8
57.5°	1277.6	1338.0	1360.4	1407.4	1420.8	1443.2	1467.8	1494.6	1510.3	1503.6
60°	1219.4	1279.8	1306.7	1353.7	1369.3	1391.7	1416.3	1445.4	1458.8	1454.4
62.5°	1161.3	1223.9	1253.0	1302.2	1315.6	1340.3	1369.3	1394.0	1407.4	1405.1
65°	1107.6	1168.0	1201.5	1250.8	1264.2	1291.0	1317.9	1344.7	1358.2	1358.2
67.5°	1051.6	1116.5	1150.1	1201.5	1212.7	1241.8	1270.9	1297.7	1308.9	1308.9
70°	1000.2	1062.8	1100.8	1152.3	1163.5	1190.3	1221.7	1250.8	1259.7	1261.9
72.5°	948.7	1011.3	1051.6	1105.3	1116.5	1143.4	1172.4	1203.8	1210.5	1212.7
75°	899.5	962.1	1002.4	1056.1	1067.3	1094.1	1125.5	1154.5	1163.5	1165.7
77.5°	850.2	912.9	957.6	1009.1	1020.3	1047.1	1078.5	1107.6	1114.3	1118.7
80°	805.5	865.9	908.4	964.4	975.5	1002.4	1031.5	1060.6	1065.0	1071.8
82.5°	760.7	821.2	865.9	919.6	930.8	957.6	986.7	1015.8	1020.3	1029.2
85°	718.2	778.6	823.4	874.9	888.3	912.9	944.2	971.1	975.5	982.3
87.5°	680.2	736.1	783.1	832.3	845.8	870.4	901.7	928.6	930.8	939.7
90°	639.9	695.9	742.8	792.1	805.5	827.9	859.2	886.0	890.5	897.2
92.5°	606.4	657.8	707.0	754.0	765.2	789.8	818.9	845.8	850.2	857.0
95°	570.6	622.0	671.2	716.0	727.2	751.8	778.6	805.5	810.0	816.7
97.5°	539.2	588.5	635.4	680.2	691.4	713.8	742.8	767.5	771.9	780.9
100°	510.1	557.1	606.4	646.6	657.8	680.2	707.0	731.7	736.1	745.1
102.5°	483.3	528.0	575.0	613.1	626.5	646.6	673.5	695.9	700.3	707.0
105°	458.7	501.2	545.9	581.7	595.2	615.3	639.9	662.3	666.8	673.5
107.5°	434.1	474.3	516.9	552.7	563.8	581.7	606.4	628.7	633.2	642.2
110°	411.7	452.0	492.2	525.8	539.2	552.7	577.3	597.4	601.9	608.6



TEST NUMBER: P894553
 CATALOG NUMBER: 8TMB-12SL-RNDU-UNV-L930

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	391.6	427.4	467.6	499.0	510.1	525.8	545.9	566.1	570.6	579.5
115°	373.7	407.2	447.5	476.6	485.5	499.0	521.3	539.2	543.7	550.4
117.5°	358.0	387.1	422.9	452.0	463.2	474.3	494.5	510.1	516.9	521.3
120°	344.6	371.4	402.7	429.6	443.0	452.0	469.9	485.5	492.2	496.7
122.5°	331.1	355.8	384.8	409.5	420.6	427.4	447.5	460.9	467.6	474.3
125°	320.0	342.3	369.2	389.3	400.5	407.2	425.1	438.5	445.3	449.7
127.5°	308.8	328.9	355.8	371.4	382.6	387.1	402.7	416.2	422.9	425.1
130°	297.6	317.7	340.1	355.8	364.7	371.4	384.8	393.8	400.5	402.7
132.5°	288.6	306.5	326.7	342.3	351.3	353.5	366.9	375.9	382.6	384.8
135°	281.9	295.3	315.5	328.9	335.6	340.1	351.3	358.0	364.7	366.9
137.5°	273.0	286.4	304.3	313.2	322.2	324.4	335.6	342.3	349.0	351.3
140°	266.3	277.4	293.1	302.1	311.0	311.0	320.0	326.7	333.4	333.4
142.5°	259.5	270.7	284.2	293.1	299.8	299.8	308.8	313.2	320.0	320.0
145°	250.6	261.8	275.2	281.9	288.6	288.6	295.3	299.8	306.5	306.5
147.5°	241.6	252.8	266.3	270.7	277.4	277.4	284.2	288.6	293.1	293.1
150°	230.5	239.4	255.1	261.8	268.5	268.5	273.0	277.4	281.9	281.9
152.5°	221.5	228.2	241.6	250.6	257.3	257.3	261.8	266.3	270.7	270.7
155°	210.3	217.0	228.2	239.4	246.1	248.4	252.8	255.1	259.5	259.5
157.5°	201.4	208.1	217.0	226.0	232.7	237.2	243.9	246.1	248.4	248.4
160°	190.2	194.7	203.6	212.6	219.3	223.7	234.9	237.2	239.4	239.4
162.5°	185.7	185.7	190.2	196.9	203.6	205.8	217.0	226.0	230.5	228.2
165°	187.9	185.7	185.7	187.9	192.4	194.7	201.4	214.8	219.3	217.0
167.5°	192.4	187.9	185.7	185.7	190.2	190.2	196.9	208.1	221.5	217.0
170°	192.4	185.7	181.2	181.2	183.5	183.5	187.9	194.7	208.1	210.3
172.5°	190.2	185.7	179.0	170.0	172.3	170.0	167.8	172.3	174.5	196.9
175°	192.4	185.7	179.0	167.8	163.3	156.6	145.4	136.5	134.2	109.6
177.5°	190.2	183.5	174.5	165.6	161.1	152.1	138.7	123.1	114.1	100.7
180°	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2



TEST NUMBER: P894553
 CATALOG NUMBER: 8TMB-12SL-RNDU-UNV-L930

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	14.33	15.64	14.97	16.30	17.07	17.95	19.26	18.59	19.93	20.69
	3H	15.67	16.87	16.33	17.55	18.35	20.90	22.10	21.56	22.78	23.58
	4H	16.08	17.22	16.75	17.90	18.72	22.41	23.55	23.08	24.24	25.05
	6H	16.29	17.35	16.98	18.05	18.88	24.02	25.08	24.71	25.78	26.61
	8H	16.33	17.34	17.02	18.06	18.89	24.87	25.89	25.57	26.61	27.44
	12H	16.33	17.31	17.03	18.02	18.88	25.82	26.79	26.52	27.50	28.37
4H	2H	15.48	16.62	16.16	17.31	18.12	18.26	19.40	18.94	20.09	20.90
	3H	17.12	18.10	17.81	18.82	19.66	21.45	22.43	22.14	23.15	23.98
	4H	17.69	18.59	18.40	19.32	20.18	23.13	24.03	23.83	24.75	25.62
	6H	18.03	18.83	18.75	19.58	20.45	24.95	25.75	25.67	26.50	27.36
	8H	18.11	18.86	18.83	19.60	20.49	25.92	26.67	26.65	27.42	28.30
	12H	18.13	18.82	18.88	19.59	20.48	27.01	27.69	27.76	28.46	29.35
8H	4H	18.80	19.55	19.52	20.30	21.18	23.30	24.05	24.02	24.80	25.68
	6H	19.41	20.05	20.16	20.84	21.72	25.29	25.94	26.05	26.72	27.61
	8H	19.60	20.18	20.37	20.97	21.87	26.41	26.99	27.18	27.78	28.68
	12H	19.72	20.23	20.49	21.01	21.97	27.69	28.21	28.46	28.99	29.94
12H	4H	19.16	19.85	19.91	20.62	21.51	23.29	23.98	24.04	24.75	25.64
	6H	19.94	20.52	20.71	21.31	22.21	25.32	25.90	26.09	26.69	27.59
	8H	20.27	20.79	21.04	21.57	22.52	26.51	27.02	27.27	27.80	28.76