

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: P895519

Luminaire Tested: 8TMB-SC3-RNDU-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895519
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-SC3-RNDU-UNV-CC83-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 50
CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

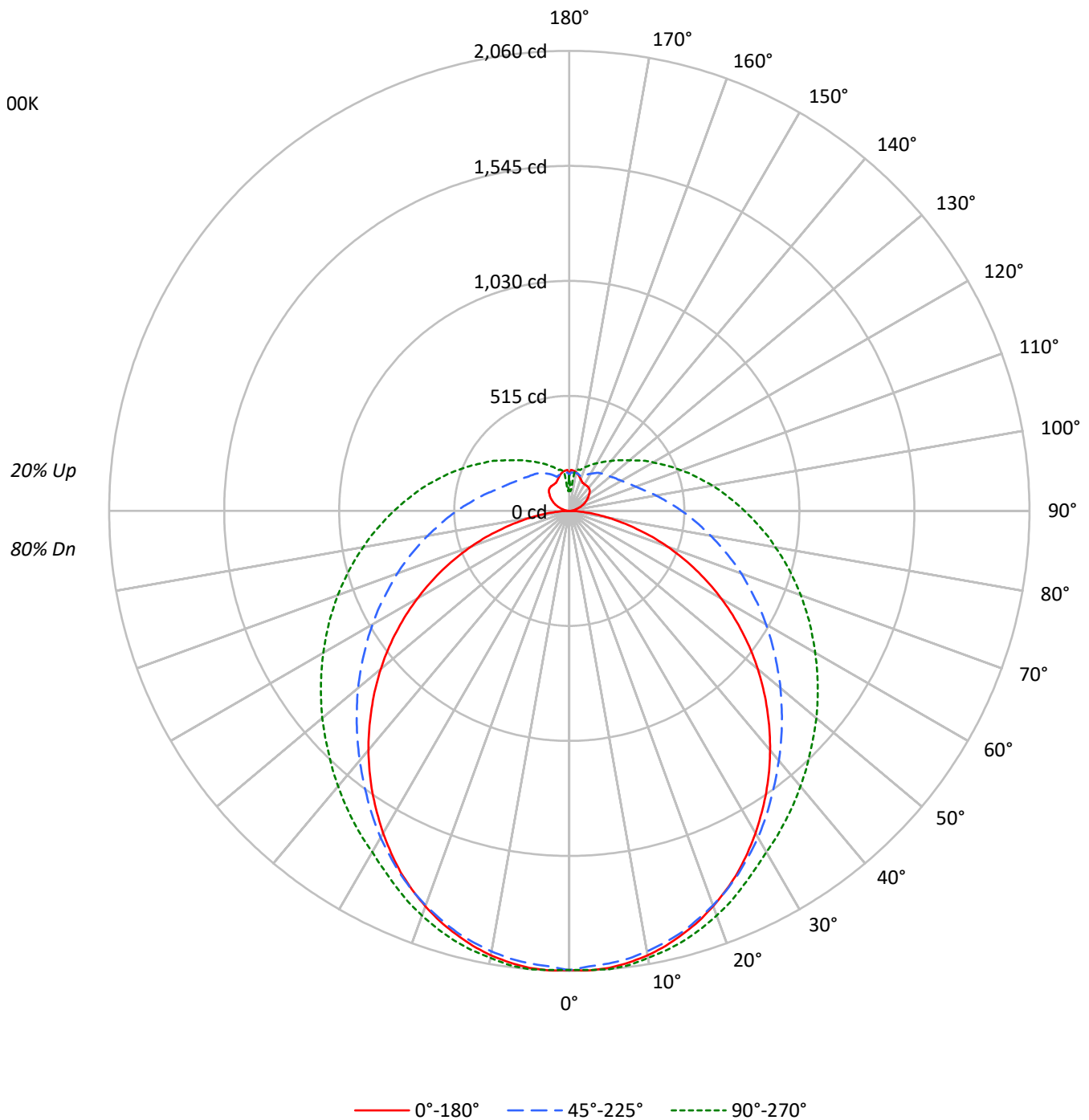
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8647.0 lumens
Efficiency: N/A
Efficacy: 129.3 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): 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





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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	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°	7294	7294	7294
5°	7299	6997	7001
10°	7247	6735	6677
15°	7157	6468	6378
20°	7046	6184	6072
25°	6908	5898	5764
30°	6727	5610	5492
35°	6540	5311	5291
40°	6339	5042	5108
45°	6122	4803	4946
50°	5896	4592	4821
55°	5634	4397	4711
60°	5338	4238	4629
65°	4976	4100	4583
70°	4525	4020	4568
75°	3910	3967	4588
80°	3168	3982	4661
85°	2207	4109	4813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	2.2
10°-20°	554.6	6.4
20°-30°	832.7	9.6
30°-40°	1001.3	11.6
40°-50°	1060.9	12.3
50°-60°	1021.7	11.8
60°-70°	904.2	10.5
70°-80°	741.7	8.6
80°-90°	575.5	6.7
90°-100°	446.7	5.2
100°-110°	353.9	4.1
110°-120°	281.9	3.3
120°-130°	224.0	2.6
130°-140°	174.9	2.0
140°-150°	128.7	1.5
150°-160°	85.1	1.0
160°-170°	49.0	0.6
170°-180°	15.7	0.2
0°-30°	1581.8	18.3
0°-40°	2583.1	29.9
0°-60°	4665.7	54.0
0°-90°	6887.1	79.6
90°-120°	1082.5	12.5
90°-150°	1610.1	18.6
90°-180°	1760.0	20.4
0°-180°	8647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2054	2056	2034	2050	2060	195
15°	1962	1964	1952	1982	1991	553
25°	1786	1792	1792	1837	1848	822
35°	1538	1557	1575	1657	1690	961
45°	1252	1281	1346	1473	1526	966
55°	945	992	1123	1289	1358	845
65°	626	712	914	1105	1187	620
75°	313	470	728	933	1019	335
85°	70	284	569	777	859	81
90°	2	223	503	704	784	5
95°	10	184	444	636	714	10
105°	35	149	350	520	589	38
115°	70	143	292	424	481	69
125°	102	149	254	350	393	91
135°	129	158	229	293	321	99
145°	137	156	207	252	268	86
155°	139	162	178	215	227	65
165°	164	174	168	168	190	46
175°	182	180	172	143	96	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°	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8
2.5°	2059.8	2057.8	2061.7	2065.6	2077.4	2061.7	2069.5	2048.0	2050.0	2051.9	2042.1
5°	2053.9	2048.0	2053.9	2057.8	2067.6	2055.8	2063.7	2040.2	2042.1	2046.1	2034.3
7.5°	2040.2	2034.3	2038.2	2042.1	2051.9	2040.2	2050.0	2026.5	2030.4	2032.4	2022.6
10°	2020.6	2012.8	2016.7	2022.6	2030.4	2020.6	2028.5	2006.9	2008.9	2012.8	2003.0
12.5°	1995.2	1987.4	1991.3	1995.2	2005.0	1995.2	2003.0	1981.5	1985.4	1989.3	1979.6
15°	1961.9	1954.1	1958.0	1961.9	1969.8	1963.9	1971.7	1950.2	1954.1	1961.9	1952.2
17.5°	1926.7	1915.0	1918.9	1924.8	1932.6	1928.7	1934.6	1917.0	1918.9	1926.7	1917.0
20°	1883.7	1872.0	1875.9	1881.7	1889.6	1887.6	1891.5	1875.9	1879.8	1889.6	1879.8
22.5°	1836.8	1825.0	1828.9	1836.8	1842.6	1842.6	1844.6	1832.8	1836.8	1846.5	1838.7
25°	1785.9	1774.2	1778.1	1785.9	1791.8	1791.8	1795.7	1783.9	1789.8	1799.6	1791.8
27.5°	1727.2	1721.3	1721.3	1729.2	1733.1	1737.0	1739.0	1729.2	1737.0	1746.8	1740.9
30°	1666.6	1658.8	1662.7	1672.4	1672.4	1680.3	1680.3	1672.4	1682.2	1694.0	1690.1
32.5°	1602.0	1596.2	1598.1	1609.9	1609.9	1619.6	1617.7	1613.8	1623.5	1637.2	1633.3
35°	1537.5	1531.6	1533.6	1545.3	1545.3	1557.0	1553.1	1553.1	1562.9	1578.6	1574.6
37.5°	1469.0	1465.1	1467.1	1478.8	1478.8	1490.5	1486.6	1488.6	1500.3	1517.9	1516.0
40°	1398.6	1394.7	1398.6	1408.4	1412.3	1422.1	1418.2	1422.1	1437.7	1453.4	1459.2
42.5°	1326.2	1324.3	1328.2	1338.0	1341.9	1351.6	1349.7	1355.6	1371.2	1394.7	1402.5
45°	1251.9	1251.9	1255.8	1265.6	1269.5	1281.2	1279.3	1287.1	1306.7	1332.1	1345.8
47.5°	1177.6	1179.5	1181.5	1193.2	1193.2	1212.8	1206.9	1218.6	1244.1	1273.4	1289.1
50°	1101.3	1105.2	1107.1	1116.9	1120.8	1138.4	1134.5	1154.1	1181.5	1212.8	1234.3
52.5°	1025.0	1028.9	1032.8	1040.6	1044.5	1066.1	1062.2	1087.6	1120.8	1154.1	1177.6
55°	944.8	952.6	954.6	964.3	970.2	991.7	991.7	1021.1	1056.3	1093.4	1122.8
57.5°	866.5	874.4	876.3	888.1	895.9	921.3	925.2	958.5	997.6	1034.8	1070.0
60°	786.3	796.1	798.1	809.8	823.5	850.9	856.8	893.9	937.0	976.1	1017.2
62.5°	706.1	715.9	719.8	731.6	753.1	780.5	790.3	833.3	878.3	921.3	966.3
65°	625.9	635.7	641.6	657.2	682.7	712.0	725.7	770.7	821.6	866.5	913.5
67.5°	545.7	557.5	565.3	584.9	618.1	649.4	663.1	714.0	766.8	815.7	864.6
70°	467.5	479.2	489.0	514.4	553.6	584.9	602.5	657.2	712.0	764.8	819.6
72.5°	391.2	403.0	416.6	447.9	491.0	526.2	545.7	602.5	663.1	715.9	772.7
75°	313.0	326.7	342.3	385.3	434.2	469.5	491.0	551.6	614.2	667.0	727.7
77.5°	242.6	256.2	279.7	322.8	377.5	416.6	440.1	504.7	569.2	622.0	684.6
80°	178.0	191.7	223.0	269.9	326.7	363.8	393.2	459.7	526.2	581.0	643.5
82.5°	121.3	135.0	172.1	223.0	283.6	320.8	348.2	418.6	485.1	541.8	604.4
85°	70.4	90.0	129.1	183.9	246.5	283.6	311.0	383.4	447.9	504.7	569.2
87.5°	31.3	54.8	97.8	152.6	215.2	250.4	279.7	346.2	414.7	471.4	536.0
90°	2.0	31.3	76.3	129.1	189.7	223.0	250.4	316.9	381.4	440.1	502.7
92.5°	3.9	21.5	62.6	111.5	168.2	201.5	228.9	291.5	352.1	412.7	473.4
95°	9.8	21.5	54.8	99.8	152.6	183.9	209.3	269.9	326.7	385.3	444.0
97.5°	15.6	23.5	52.8	93.9	140.8	170.2	193.7	250.4	307.1	359.9	418.6
100°	21.5	29.3	52.8	90.0	133.0	160.4	181.9	234.7	287.5	336.4	395.1
102.5°	27.4	35.2	56.7	90.0	129.1	152.6	174.1	223.0	271.9	316.9	371.7
105°	35.2	41.1	60.6	90.0	125.2	148.7	166.3	211.3	258.2	301.2	350.1
107.5°	43.0	46.9	64.6	91.9	125.2	144.7	162.4	203.4	246.5	285.6	332.5
110°	52.8	54.8	70.4	95.8	125.2	142.8	158.4	197.6	236.7	273.9	316.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	60.6	60.6	76.3	99.8	125.2	142.8	156.5	191.7	228.9	262.1	303.2
115°	70.4	70.4	82.2	103.7	127.1	142.8	156.5	189.7	223.0	252.3	291.5
117.5°	78.2	78.2	90.0	107.6	131.1	144.7	156.5	185.8	217.1	244.5	279.7
120°	86.1	86.1	93.9	111.5	133.0	146.7	156.5	183.9	211.3	238.6	269.9
122.5°	93.9	93.9	99.8	117.4	135.0	146.7	156.5	181.9	207.3	230.8	260.2
125°	101.7	101.7	105.6	121.3	138.9	148.7	158.4	181.9	205.4	224.9	254.3
127.5°	109.5	107.6	113.5	127.1	140.8	150.6	160.4	181.9	201.5	221.0	246.5
130°	115.4	113.5	121.3	131.1	144.7	152.6	160.4	180.0	199.5	217.1	238.6
132.5°	123.2	119.3	129.1	133.0	148.7	156.5	162.4	180.0	197.6	213.2	234.7
135°	129.1	125.2	135.0	138.9	150.6	158.4	164.3	180.0	195.6	211.3	228.9
137.5°	133.0	131.1	140.8	144.7	152.6	160.4	166.3	180.0	193.7	207.3	224.9
140°	135.0	133.0	140.8	148.7	152.6	160.4	164.3	178.0	191.7	203.4	219.1
142.5°	136.9	136.9	142.8	150.6	152.6	158.4	164.3	176.0	187.8	197.6	215.2
145°	136.9	136.9	142.8	152.6	154.5	156.5	160.4	172.1	181.9	191.7	207.3
147.5°	136.9	136.9	144.7	152.6	156.5	158.4	156.5	168.2	178.0	185.8	199.5
150°	136.9	136.9	144.7	152.6	158.4	160.4	158.4	164.3	172.1	180.0	191.7
152.5°	138.9	138.9	144.7	152.6	158.4	160.4	160.4	160.4	166.3	174.1	185.8
155°	138.9	140.8	144.7	156.5	160.4	162.4	162.4	162.4	160.4	168.2	178.0
157.5°	144.7	146.7	148.7	158.4	162.4	164.3	164.3	164.3	162.4	160.4	170.2
160°	150.6	152.6	154.5	162.4	166.3	168.2	168.2	168.2	164.3	162.4	162.4
162.5°	156.5	160.4	160.4	164.3	168.2	170.2	170.2	172.1	168.2	166.3	164.3
165°	164.3	166.3	166.3	168.2	172.1	174.1	172.1	174.1	172.1	170.2	168.2
167.5°	170.2	172.1	172.1	174.1	174.1	176.0	176.0	176.0	174.1	172.1	172.1
170°	176.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	176.0	172.1	172.1
172.5°	180.0	181.9	181.9	180.0	180.0	180.0	180.0	178.0	174.1	172.1	172.1
175°	181.9	183.9	183.9	181.9	180.0	180.0	180.0	178.0	174.1	172.1	172.1
177.5°	183.9	185.8	183.9	183.9	180.0	180.0	180.0	180.0	176.0	174.1	172.1
180°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8
2.5°	2053.9	2030.4	2046.1	2048.0	2055.8	2048.0	2053.9	2048.0	2063.7	2057.8
5°	2046.1	2024.5	2038.2	2040.2	2050.0	2040.2	2050.0	2046.1	2065.6	2059.8
7.5°	2032.4	2014.8	2026.5	2028.5	2040.2	2030.4	2040.2	2036.3	2059.8	2051.9
10°	2012.8	1999.1	2010.8	2012.8	2024.5	2014.8	2022.6	2018.7	2044.1	2032.4
12.5°	1991.3	1979.6	1989.3	1991.3	2005.0	1995.2	2005.0	2001.1	2026.5	2014.8
15°	1960.0	1954.1	1963.9	1967.8	1981.5	1973.7	1983.5	1979.6	2006.9	1991.3
17.5°	1928.7	1924.8	1934.6	1938.5	1954.1	1944.3	1954.1	1950.2	1977.6	1961.9
20°	1889.6	1887.6	1897.4	1903.3	1917.0	1907.2	1918.9	1915.0	1944.3	1928.7
22.5°	1848.5	1848.5	1856.3	1862.2	1875.9	1868.1	1879.8	1877.8	1907.2	1891.5
25°	1803.5	1805.5	1813.3	1821.1	1836.8	1830.9	1840.7	1840.7	1868.1	1848.5
27.5°	1752.6	1762.4	1768.3	1778.1	1791.8	1785.9	1795.7	1797.6	1825.0	1805.5
30°	1699.8	1713.5	1719.4	1731.1	1742.9	1742.9	1752.6	1756.6	1783.9	1764.4
32.5°	1645.1	1660.7	1668.5	1684.2	1699.8	1699.8	1713.5	1719.4	1746.8	1729.2
35°	1590.3	1611.8	1621.6	1641.1	1656.8	1658.8	1672.4	1680.3	1707.7	1690.1
37.5°	1537.5	1564.9	1574.6	1598.1	1611.8	1615.7	1631.4	1641.1	1666.6	1650.9
40°	1482.7	1516.0	1527.7	1553.1	1564.9	1572.7	1588.3	1600.1	1623.5	1609.9
42.5°	1429.9	1467.1	1478.8	1506.2	1519.9	1527.7	1543.3	1559.0	1582.5	1568.8
45°	1377.1	1418.2	1431.8	1461.2	1472.9	1484.7	1502.3	1516.0	1537.5	1525.7
47.5°	1326.2	1369.3	1382.9	1414.2	1427.9	1441.6	1457.3	1476.8	1496.4	1484.7
50°	1273.4	1318.4	1336.0	1369.3	1381.0	1396.6	1416.2	1433.8	1453.4	1443.6
52.5°	1222.5	1269.5	1287.1	1322.3	1336.0	1351.6	1371.2	1390.8	1408.4	1400.6
55°	1167.8	1218.6	1238.2	1275.4	1289.1	1304.7	1326.2	1347.7	1363.4	1357.5
57.5°	1116.9	1169.7	1189.3	1230.4	1242.1	1261.7	1283.2	1306.7	1320.4	1314.5
60°	1066.1	1118.9	1142.3	1183.4	1197.1	1216.7	1238.2	1263.6	1275.4	1271.5
62.5°	1015.2	1070.0	1095.4	1138.4	1150.2	1171.7	1197.1	1218.6	1230.4	1228.4
65°	968.3	1021.1	1050.4	1093.4	1105.2	1128.7	1152.1	1175.6	1187.3	1187.3
67.5°	919.4	976.1	1005.4	1050.4	1060.2	1085.6	1111.1	1134.5	1144.3	1144.3
70°	874.4	929.1	962.4	1007.4	1017.2	1040.6	1068.0	1093.4	1101.3	1103.2
72.5°	829.4	884.1	919.4	966.3	976.1	999.6	1025.0	1052.4	1058.2	1060.2
75°	786.3	841.1	876.3	923.3	933.0	956.5	983.9	1009.3	1017.2	1019.1
77.5°	743.3	798.1	837.2	882.2	892.0	915.4	942.8	968.3	974.1	978.0
80°	704.2	757.0	794.2	843.1	852.8	876.3	901.8	927.2	931.1	937.0
82.5°	665.1	717.9	757.0	803.9	813.7	837.2	862.6	888.1	892.0	899.8
85°	627.9	680.7	719.8	764.8	776.6	798.1	825.5	848.9	852.8	858.7
87.5°	594.6	643.5	684.6	727.7	739.4	760.9	788.3	811.8	813.7	821.6
90°	559.4	608.3	649.4	692.5	704.2	723.7	751.1	774.6	778.5	784.4
92.5°	530.1	575.1	618.1	659.2	669.0	690.5	715.9	739.4	743.3	749.2
95°	498.8	543.8	586.8	625.9	635.7	657.2	680.7	704.2	708.1	714.0
97.5°	471.4	514.4	555.5	594.6	604.4	624.0	649.4	670.9	674.8	682.7
100°	446.0	487.1	530.1	565.3	575.1	594.6	618.1	639.6	643.5	651.4
102.5°	422.5	461.6	502.7	536.0	547.7	565.3	588.8	608.3	612.3	618.1
105°	401.0	438.2	477.3	508.6	520.3	537.9	559.4	579.0	582.9	588.8
107.5°	379.5	414.7	451.9	483.2	492.9	508.6	530.1	549.7	553.6	561.4
110°	359.9	395.1	430.3	459.7	471.4	483.2	504.7	522.3	526.2	532.1



TEST NUMBER: P895519

CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	342.3	373.6	408.8	436.2	446.0	459.7	477.3	494.9	498.8	506.6
115°	326.7	356.0	391.2	416.6	424.5	436.2	455.8	471.4	475.3	481.2
117.5°	313.0	338.4	369.7	395.1	404.9	414.7	432.3	446.0	451.9	455.8
120°	301.2	324.7	352.1	375.6	387.3	395.1	410.8	424.5	430.3	434.2
122.5°	289.5	311.0	336.4	358.0	367.7	373.6	391.2	403.0	408.8	414.7
125°	279.7	299.3	322.8	340.4	350.1	356.0	371.7	383.4	389.3	393.2
127.5°	269.9	287.5	311.0	324.7	334.5	338.4	352.1	363.8	369.7	371.7
130°	260.2	277.8	297.3	311.0	318.8	324.7	336.4	344.3	350.1	352.1
132.5°	252.3	268.0	285.6	299.3	307.1	309.1	320.8	328.6	334.5	336.4
135°	246.5	258.2	275.8	287.5	293.4	297.3	307.1	313.0	318.8	320.8
137.5°	238.6	250.4	266.0	273.9	281.7	283.6	293.4	299.3	305.1	307.1
140°	232.8	242.6	256.2	264.1	271.9	271.9	279.7	285.6	291.5	291.5
142.5°	226.9	236.7	248.4	256.2	262.1	262.1	269.9	273.9	279.7	279.7
145°	219.1	228.9	240.6	246.5	252.3	252.3	258.2	262.1	268.0	268.0
147.5°	211.3	221.0	232.8	236.7	242.6	242.6	248.4	252.3	256.2	256.2
150°	201.5	209.3	223.0	228.9	234.7	234.7	238.6	242.6	246.5	246.5
152.5°	193.7	199.5	211.3	219.1	224.9	224.9	228.9	232.8	236.7	236.7
155°	183.9	189.7	199.5	209.3	215.2	217.1	221.0	223.0	226.9	226.9
157.5°	176.0	181.9	189.7	197.6	203.4	207.3	213.2	215.2	217.1	217.1
160°	166.3	170.2	178.0	185.8	191.7	195.6	205.4	207.3	209.3	209.3
162.5°	162.4	162.4	166.3	172.1	178.0	180.0	189.7	197.6	201.5	199.5
165°	164.3	162.4	162.4	164.3	168.2	170.2	176.0	187.8	191.7	189.7
167.5°	168.2	164.3	162.4	162.4	166.3	166.3	172.1	181.9	193.7	189.7
170°	168.2	162.4	158.4	158.4	160.4	160.4	164.3	170.2	181.9	183.9
172.5°	166.3	162.4	156.5	148.7	150.6	148.7	146.7	150.6	152.6	172.1
175°	168.2	162.4	156.5	146.7	142.8	136.9	127.1	119.3	117.4	95.8
177.5°	166.3	160.4	152.6	144.7	140.8	133.0	121.3	107.6	99.8	88.0
180°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4



TEST NUMBER: P895519
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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	13.86	15.17	14.50	15.84	16.60	17.48	18.79	18.12	19.46	20.23
	3H	15.21	16.40	15.86	17.08	17.88	20.44	21.64	21.09	22.31	23.11
	4H	15.61	16.75	16.28	17.43	18.25	21.94	23.08	22.62	23.77	24.58
	6H	15.82	16.89	16.51	17.58	18.41	23.55	24.62	24.24	25.31	26.14
	8H	15.86	16.88	16.55	17.59	18.43	24.40	25.42	25.10	26.14	26.97
	12H	15.86	16.84	16.57	17.55	18.41	25.35	26.33	26.05	27.04	27.90
4H	2H	15.02	16.16	15.69	16.84	17.66	17.80	18.94	18.47	19.62	20.44
	3H	16.66	17.63	17.35	18.36	19.19	20.98	21.96	21.67	22.68	23.52
	4H	17.23	18.13	17.93	18.85	19.71	22.66	23.56	23.37	24.29	25.15
	6H	17.57	18.36	18.29	19.11	19.98	24.48	25.28	25.20	26.03	26.90
	8H	17.64	18.39	18.36	19.14	20.02	25.46	26.21	26.18	26.95	27.84
	12H	17.67	18.35	18.41	19.12	20.01	26.54	27.23	27.29	28.00	28.89
8H	4H	18.33	19.08	19.06	19.83	20.71	22.83	23.58	23.56	24.33	25.21
	6H	18.94	19.58	19.70	20.37	21.25	24.83	25.47	25.58	26.26	27.14
	8H	19.14	19.72	19.90	20.50	21.40	25.95	26.53	26.71	27.31	28.21
	12H	19.25	19.77	20.02	20.55	21.50	27.22	27.74	27.99	28.52	29.48
12H	4H	18.70	19.38	19.45	20.15	21.04	22.83	23.51	23.57	24.28	25.17
	6H	19.48	20.06	20.24	20.84	21.74	24.86	25.44	25.62	26.22	27.12
	8H	19.80	20.32	20.57	21.10	22.06	26.04	26.56	26.81	27.34	28.29