

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: P895269

Luminaire Tested: 8TMB-8SL-RNDU-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895269
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-8SL-RNDU-UNV-L830
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5000K
Light Source: -
Ballast/Driver: -

Summary

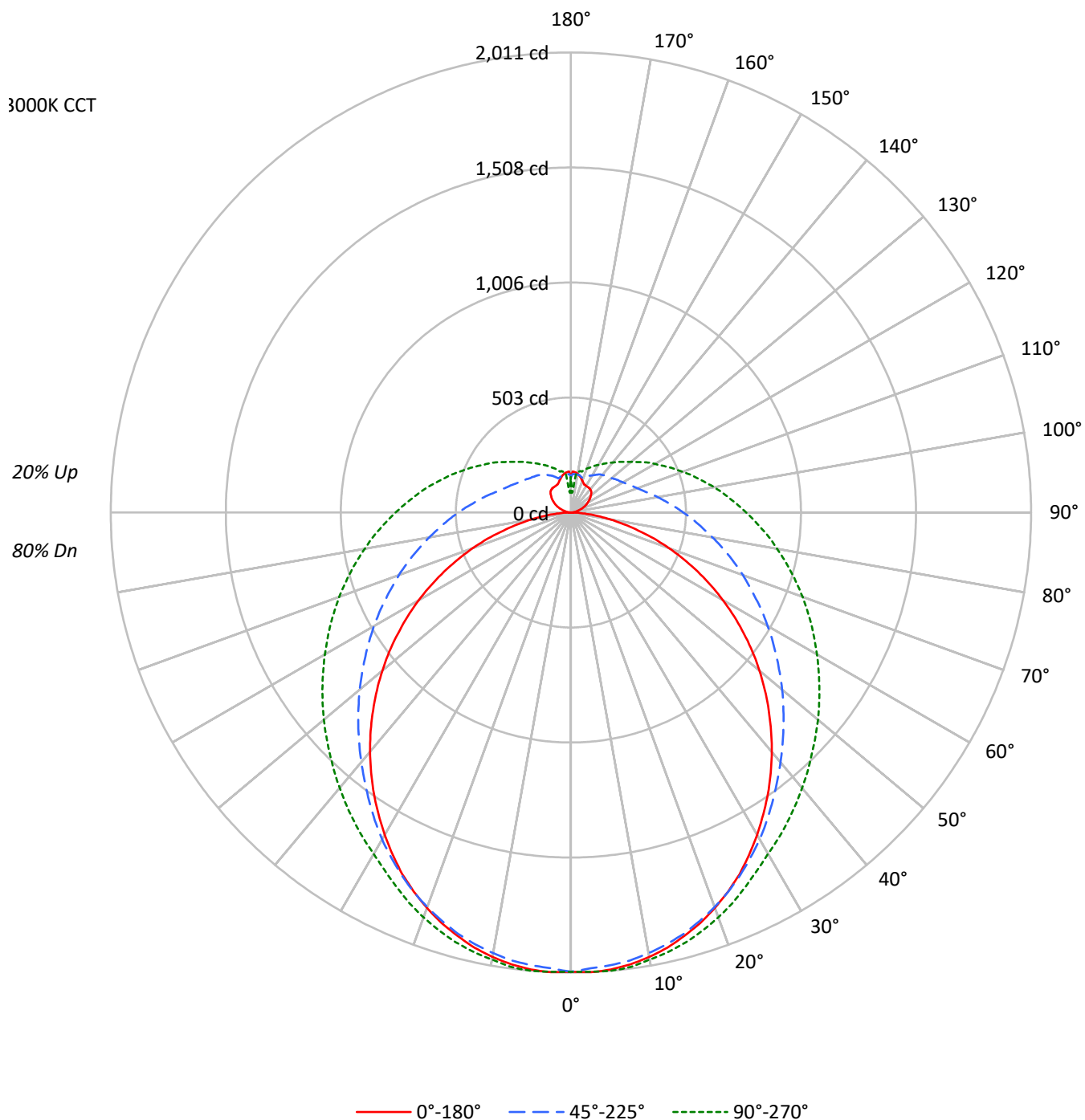
Lumens per Lamp: N/A
Luminaire Lumens: 8444.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	114	114	114	114	109	109	109	109	100	100	100		91	91	91		83
1	102	96	91	86	97	92	87	83	84	80	76		76	73	70		69
2	92	82	75	68	87	79	72	66	72	66	61		65	61	57		60
3	83	72	63	56	79	69	61	54	63	56	51		57	52	47		52
4	76	63	54	47	72	60	52	45	55	48	43		51	45	40		46
5	69	56	47	40	66	54	45	39	49	42	37		45	39	34		41
6	64	50	41	35	61	48	40	34	44	37	32		41	35	30		37
7	59	46	37	30	56	44	35	30	40	33	28		37	31	26		34
8	55	41	33	27	52	40	32	26	37	30	25		34	28	24		31
9	51	38	30	24	49	36	29	23	34	27	22		31	25	21		29
10	48	35	27	22	46	34	26	21	31	25	20		29	23	19		27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7123	7123	7123
5°	7127	6833	6836
10°	7077	6577	6521
15°	6989	6316	6228
20°	6880	6039	5929
25°	6746	5760	5629
30°	6569	5478	5363
35°	6387	5186	5166
40°	6190	4923	4988
45°	5978	4690	4830
50°	5757	4484	4707
55°	5502	4293	4600
60°	5213	4139	4521
65°	4860	4004	4476
70°	4419	3926	4461
75°	3817	3874	4481
80°	3093	3889	4552
85°	2157	4013	4701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.2
10°-20°	541.6	6.4
20°-30°	813.2	9.6
30°-40°	977.8	11.6
40°-50°	1036.0	12.3
50°-60°	997.7	11.8
60°-70°	883.0	10.5
70°-80°	724.2	8.6
80°-90°	562.0	6.7
90°-100°	436.2	5.2
100°-110°	345.6	4.1
110°-120°	275.3	3.3
120°-130°	218.7	2.6
130°-140°	170.8	2.0
140°-150°	125.7	1.5
150°-160°	83.1	1.0
160°-170°	47.8	0.6
170°-180°	15.4	0.2
0°-30°	1544.7	18.3
0°-40°	2522.5	29.9
0°-60°	4556.2	54.0
0°-90°	6725.4	79.6
90°-120°	1057.1	12.5
90°-150°	1572.3	18.6
90°-180°	1719.0	20.4
0°-180°	8444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2006	2008	1987	2002	2011	190
15°	1916	1918	1906	1935	1944	540
25°	1744	1750	1750	1794	1805	802
35°	1501	1520	1538	1618	1650	939
45°	1222	1251	1314	1438	1490	943
55°	923	968	1096	1259	1326	825
65°	611	695	892	1079	1160	605
75°	306	458	711	911	995	327
85°	69	277	556	758	839	79
90°	2	218	491	688	766	5
95°	10	180	434	621	697	10
105°	34	145	342	508	575	37
115°	69	139	285	414	470	67
125°	99	145	248	342	384	89
135°	126	155	224	286	313	96
145°	134	153	202	246	262	84
155°	136	158	174	210	222	64
165°	160	170	164	164	185	45
175°	178	176	168	139	94	17
180°	155	155	155	155	155	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6
2.5°	2011.4	2009.5	2013.3	2017.1	2028.6	2013.3	2020.9	1999.9	2001.8	2003.8	1994.2
5°	2005.7	1999.9	2005.7	2009.5	2019.0	2007.6	2015.2	1992.3	1994.2	1998.0	1986.6
7.5°	1992.3	1986.6	1990.4	1994.2	2003.8	1992.3	2001.8	1978.9	1982.7	1984.7	1975.1
10°	1973.2	1965.6	1969.4	1975.1	1982.7	1973.2	1980.8	1959.8	1961.7	1965.6	1956.0
12.5°	1948.4	1940.7	1944.5	1948.4	1957.9	1948.4	1956.0	1935.0	1938.8	1942.6	1933.1
15°	1915.9	1908.2	1912.1	1915.9	1923.5	1917.8	1925.4	1904.4	1908.2	1915.9	1906.3
17.5°	1881.5	1870.0	1873.9	1879.6	1887.2	1883.4	1889.1	1872.0	1873.9	1881.5	1872.0
20°	1839.5	1828.0	1831.8	1837.6	1845.2	1843.3	1847.1	1831.8	1835.7	1845.2	1835.7
22.5°	1793.6	1782.2	1786.0	1793.6	1799.4	1799.4	1801.3	1789.8	1793.6	1803.2	1795.5
25°	1744.0	1732.5	1736.3	1744.0	1749.7	1749.7	1753.5	1742.1	1747.8	1757.3	1749.7
27.5°	1686.7	1680.9	1680.9	1688.6	1692.4	1696.2	1698.1	1688.6	1696.2	1705.8	1700.0
30°	1627.5	1619.8	1623.6	1633.2	1633.2	1640.8	1640.8	1633.2	1642.7	1654.2	1650.4
32.5°	1564.4	1558.7	1560.6	1572.1	1572.1	1581.6	1579.7	1575.9	1585.4	1598.8	1595.0
35°	1501.4	1495.7	1497.6	1509.0	1509.0	1520.5	1516.7	1516.7	1526.2	1541.5	1537.7
37.5°	1434.5	1430.7	1432.6	1444.1	1444.1	1455.5	1451.7	1453.6	1465.1	1482.3	1480.4
40°	1365.8	1361.9	1365.8	1375.3	1379.1	1388.7	1384.9	1388.7	1404.0	1419.2	1425.0
42.5°	1295.1	1293.2	1297.0	1306.5	1310.4	1319.9	1318.0	1323.7	1339.0	1361.9	1369.6
45°	1222.5	1222.5	1226.3	1235.9	1239.7	1251.2	1249.2	1256.9	1276.0	1300.8	1314.2
47.5°	1149.9	1151.8	1153.7	1165.2	1165.2	1184.3	1178.6	1190.0	1214.9	1243.5	1258.8
50°	1075.4	1079.2	1081.1	1090.7	1094.5	1111.7	1107.9	1127.0	1153.7	1184.3	1205.3
52.5°	1000.9	1004.7	1008.6	1016.2	1020.0	1041.0	1037.2	1062.0	1094.5	1127.0	1149.9
55°	922.6	930.2	932.2	941.7	947.4	968.4	968.4	997.1	1031.5	1067.8	1096.4
57.5°	846.2	853.8	855.8	867.2	874.9	899.7	903.5	936.0	974.2	1010.5	1044.9
60°	767.9	777.4	779.3	790.8	804.2	830.9	836.6	872.9	915.0	953.2	993.3
62.5°	689.6	699.1	702.9	714.4	735.4	762.2	771.7	813.7	857.7	899.7	943.6
65°	611.3	620.8	626.5	641.8	666.6	695.3	708.7	752.6	802.3	846.2	892.0
67.5°	532.9	544.4	552.0	571.1	603.6	634.2	647.5	697.2	748.8	796.5	844.3
70°	456.5	468.0	477.5	502.4	540.6	571.1	588.3	641.8	695.3	746.9	800.4
72.5°	382.0	393.5	406.9	437.4	479.4	513.8	532.9	588.3	647.5	699.1	754.5
75°	305.6	319.0	334.3	376.3	424.1	458.4	479.4	538.7	599.8	651.4	710.6
77.5°	236.9	250.2	273.2	315.2	368.7	406.9	429.8	492.8	555.9	607.4	668.6
80°	173.8	187.2	217.8	263.6	319.0	355.3	383.9	448.9	513.8	567.3	628.4
82.5°	118.4	131.8	168.1	217.8	277.0	313.3	340.0	408.8	473.7	529.1	590.2
85°	68.8	87.9	126.1	179.6	240.7	277.0	303.7	374.4	437.4	492.8	555.9
87.5°	30.6	53.5	95.5	149.0	210.1	244.5	273.2	338.1	405.0	460.3	523.4
90°	1.9	30.6	74.5	126.1	185.3	217.8	244.5	309.4	372.5	429.8	490.9
92.5°	3.8	21.0	61.1	108.9	164.3	196.7	223.5	284.6	343.8	403.0	462.3
95°	9.6	21.0	53.5	97.4	149.0	179.6	204.4	263.6	319.0	376.3	433.6
97.5°	15.3	22.9	51.6	91.7	137.5	166.2	189.1	244.5	299.9	351.5	408.8
100°	21.0	28.7	51.6	87.9	129.9	156.6	177.6	229.2	280.8	328.5	385.9
102.5°	26.7	34.4	55.4	87.9	126.1	149.0	170.0	217.8	265.5	309.4	362.9
105°	34.4	40.1	59.2	87.9	122.3	145.2	162.4	206.3	252.1	294.2	341.9
107.5°	42.0	45.8	63.0	89.8	122.3	141.4	158.5	198.7	240.7	278.9	324.7
110°	51.6	53.5	68.8	93.6	122.3	139.4	154.7	192.9	231.1	267.4	309.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	59.2	59.2	74.5	97.4	122.3	139.4	152.8	187.2	223.5	256.0	296.1
115°	68.8	68.8	80.2	101.2	124.2	139.4	152.8	185.3	217.8	246.4	284.6
117.5°	76.4	76.4	87.9	105.1	128.0	141.4	152.8	181.5	212.0	238.8	273.2
120°	84.0	84.0	91.7	108.9	129.9	143.3	152.8	179.6	206.3	233.0	263.6
122.5°	91.7	91.7	97.4	114.6	131.8	143.3	152.8	177.6	202.5	225.4	254.1
125°	99.3	99.3	103.1	118.4	135.6	145.2	154.7	177.6	200.6	219.7	248.3
127.5°	107.0	105.1	110.8	124.2	137.5	147.1	156.6	177.6	196.7	215.8	240.7
130°	112.7	110.8	118.4	128.0	141.4	149.0	156.6	175.7	194.8	212.0	233.0
132.5°	120.3	116.5	126.1	129.9	145.2	152.8	158.5	175.7	192.9	208.2	229.2
135°	126.1	122.3	131.8	135.6	147.1	154.7	160.5	175.7	191.0	206.3	223.5
137.5°	129.9	128.0	137.5	141.4	149.0	156.6	162.4	175.7	189.1	202.5	219.7
140°	131.8	129.9	137.5	145.2	149.0	156.6	160.5	173.8	187.2	198.7	213.9
142.5°	133.7	133.7	139.4	147.1	149.0	154.7	160.5	171.9	183.4	192.9	210.1
145°	133.7	133.7	139.4	149.0	150.9	152.8	156.6	168.1	177.6	187.2	202.5
147.5°	133.7	133.7	141.4	149.0	152.8	154.7	152.8	164.3	173.8	181.5	194.8
150°	133.7	133.7	141.4	149.0	154.7	156.6	154.7	160.5	168.1	175.7	187.2
152.5°	135.6	135.6	141.4	149.0	154.7	156.6	156.6	156.6	162.4	170.0	181.5
155°	135.6	137.5	141.4	152.8	156.6	158.5	158.5	158.5	156.6	164.3	173.8
157.5°	141.4	143.3	145.2	154.7	158.5	160.5	160.5	160.5	158.5	156.6	166.2
160°	147.1	149.0	150.9	158.5	162.4	164.3	164.3	164.3	160.5	158.5	158.5
162.5°	152.8	156.6	156.6	160.5	164.3	166.2	166.2	168.1	164.3	162.4	160.5
165°	160.5	162.4	162.4	164.3	168.1	170.0	168.1	170.0	168.1	166.2	164.3
167.5°	166.2	168.1	168.1	170.0	170.0	171.9	171.9	171.9	170.0	168.1	168.1
170°	171.9	173.8	173.8	173.8	173.8	173.8	173.8	173.8	171.9	168.1	168.1
172.5°	175.7	177.6	177.6	175.7	175.7	175.7	175.7	173.8	170.0	168.1	168.1
175°	177.6	179.6	179.6	177.6	175.7	175.7	175.7	173.8	170.0	168.1	168.1
177.5°	179.6	181.5	179.6	179.6	175.7	175.7	175.7	175.7	171.9	170.0	168.1
180°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6
2.5°	2005.7	1982.7	1998.0	1999.9	2007.6	1999.9	2005.7	1999.9	2015.2	2009.5
5°	1998.0	1977.0	1990.4	1992.3	2001.8	1992.3	2001.8	1998.0	2017.1	2011.4
7.5°	1984.7	1967.5	1978.9	1980.8	1992.3	1982.7	1992.3	1988.5	2011.4	2003.8
10°	1965.6	1952.2	1963.6	1965.6	1977.0	1967.5	1975.1	1971.3	1996.1	1984.7
12.5°	1944.5	1933.1	1942.6	1944.5	1957.9	1948.4	1957.9	1954.1	1978.9	1967.5
15°	1914.0	1908.2	1917.8	1921.6	1935.0	1927.3	1936.9	1933.1	1959.8	1944.5
17.5°	1883.4	1879.6	1889.1	1893.0	1908.2	1898.7	1908.2	1904.4	1931.2	1915.9
20°	1845.2	1843.3	1852.9	1858.6	1872.0	1862.4	1873.9	1870.0	1898.7	1883.4
22.5°	1805.1	1805.1	1812.7	1818.5	1831.8	1824.2	1835.7	1833.8	1862.4	1847.1
25°	1761.2	1763.1	1770.7	1778.4	1793.6	1787.9	1797.5	1797.5	1824.2	1805.1
27.5°	1711.5	1721.1	1726.8	1736.3	1749.7	1744.0	1753.5	1755.4	1782.2	1763.1
30°	1659.9	1673.3	1679.0	1690.5	1701.9	1701.9	1711.5	1715.3	1742.1	1723.0
32.5°	1606.4	1621.7	1629.4	1644.6	1659.9	1659.9	1673.3	1679.0	1705.8	1688.6
35°	1553.0	1574.0	1583.5	1602.6	1617.9	1619.8	1633.2	1640.8	1667.6	1650.4
37.5°	1501.4	1528.1	1537.7	1560.6	1574.0	1577.8	1593.1	1602.6	1627.5	1612.2
40°	1447.9	1480.4	1491.8	1516.7	1528.1	1535.8	1551.0	1562.5	1585.4	1572.1
42.5°	1396.3	1432.6	1444.1	1470.8	1484.2	1491.8	1507.1	1522.4	1545.3	1531.9
45°	1344.8	1384.9	1398.2	1426.9	1438.3	1449.8	1467.0	1480.4	1501.4	1489.9
47.5°	1295.1	1337.1	1350.5	1381.0	1394.4	1407.8	1423.1	1442.2	1461.3	1449.8
50°	1243.5	1287.4	1304.6	1337.1	1348.6	1363.9	1383.0	1400.1	1419.2	1409.7
52.5°	1193.8	1239.7	1256.9	1291.3	1304.6	1319.9	1339.0	1358.1	1375.3	1367.7
55°	1140.4	1190.0	1209.1	1245.4	1258.8	1274.1	1295.1	1316.1	1331.4	1325.6
57.5°	1090.7	1142.3	1161.4	1201.5	1212.9	1232.1	1253.1	1276.0	1289.4	1283.6
60°	1041.0	1092.6	1115.5	1155.6	1169.0	1188.1	1209.1	1234.0	1245.4	1241.6
62.5°	991.4	1044.9	1069.7	1111.7	1123.2	1144.2	1169.0	1190.0	1201.5	1199.6
65°	945.5	997.1	1025.8	1067.8	1079.2	1102.2	1125.1	1148.0	1159.5	1159.5
67.5°	897.8	953.2	981.8	1025.8	1035.3	1060.1	1085.0	1107.9	1117.4	1117.4
70°	853.8	907.3	939.8	983.7	993.3	1016.2	1042.9	1067.8	1075.4	1077.3
72.5°	809.9	863.4	897.8	943.6	953.2	976.1	1000.9	1027.7	1033.4	1035.3
75°	767.9	821.4	855.8	901.6	911.1	934.1	960.8	985.6	993.3	995.2
77.5°	725.9	779.3	817.5	861.5	871.0	894.0	920.7	945.5	951.3	955.1
80°	687.7	739.2	775.5	823.3	832.8	855.8	880.6	905.4	909.2	915.0
82.5°	649.5	701.0	739.2	785.1	794.6	817.5	842.4	867.2	871.0	878.7
85°	613.2	664.7	702.9	746.9	758.3	779.3	806.1	829.0	832.8	838.6
87.5°	580.7	628.4	668.6	710.6	722.0	743.1	769.8	792.7	794.6	802.3
90°	546.3	594.1	634.2	676.2	687.7	706.8	733.5	756.4	760.2	766.0
92.5°	517.7	561.6	603.6	643.7	653.3	674.3	699.1	722.0	725.9	731.6
95°	487.1	531.0	573.0	611.3	620.8	641.8	664.7	687.7	691.5	697.2
97.5°	460.3	502.4	542.5	580.7	590.2	609.3	634.2	655.2	659.0	666.6
100°	435.5	475.6	517.7	552.0	561.6	580.7	603.6	624.6	628.4	636.1
102.5°	412.6	450.8	490.9	523.4	534.8	552.0	575.0	594.1	597.9	603.6
105°	391.6	427.9	466.1	496.6	508.1	525.3	546.3	565.4	569.2	575.0
107.5°	370.6	405.0	441.2	471.8	481.4	496.6	517.7	536.8	540.6	548.2
110°	351.5	385.9	420.2	448.9	460.3	471.8	492.8	510.0	513.8	519.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	334.3	364.8	399.2	426.0	435.5	448.9	466.1	483.3	487.1	494.7
115°	319.0	347.6	382.0	406.9	414.5	426.0	445.1	460.3	464.2	469.9
117.5°	305.6	330.5	361.0	385.9	395.4	405.0	422.1	435.5	441.2	445.1
120°	294.2	317.1	343.8	366.8	378.2	385.9	401.1	414.5	420.2	424.1
122.5°	282.7	303.7	328.5	349.6	359.1	364.8	382.0	393.5	399.2	405.0
125°	273.2	292.3	315.2	332.4	341.9	347.6	362.9	374.4	380.1	383.9
127.5°	263.6	280.8	303.7	317.1	326.6	330.5	343.8	355.3	361.0	362.9
130°	254.1	271.2	290.3	303.7	311.4	317.1	328.5	336.2	341.9	343.8
132.5°	246.4	261.7	278.9	292.3	299.9	301.8	313.3	320.9	326.6	328.5
135°	240.7	252.1	269.3	280.8	286.5	290.3	299.9	305.6	311.4	313.3
137.5°	233.0	244.5	259.8	267.4	275.1	277.0	286.5	292.3	298.0	299.9
140°	227.3	236.9	250.2	257.9	265.5	265.5	273.2	278.9	284.6	284.6
142.5°	221.6	231.1	242.6	250.2	256.0	256.0	263.6	267.4	273.2	273.2
145°	213.9	223.5	234.9	240.7	246.4	246.4	252.1	256.0	261.7	261.7
147.5°	206.3	215.8	227.3	231.1	236.9	236.9	242.6	246.4	250.2	250.2
150°	196.7	204.4	217.8	223.5	229.2	229.2	233.0	236.9	240.7	240.7
152.5°	189.1	194.8	206.3	213.9	219.7	219.7	223.5	227.3	231.1	231.1
155°	179.6	185.3	194.8	204.4	210.1	212.0	215.8	217.8	221.6	221.6
157.5°	171.9	177.6	185.3	192.9	198.7	202.5	208.2	210.1	212.0	212.0
160°	162.4	166.2	173.8	181.5	187.2	191.0	200.6	202.5	204.4	204.4
162.5°	158.5	158.5	162.4	168.1	173.8	175.7	185.3	192.9	196.7	194.8
165°	160.5	158.5	158.5	160.5	164.3	166.2	171.9	183.4	187.2	185.3
167.5°	164.3	160.5	158.5	158.5	162.4	162.4	168.1	177.6	189.1	185.3
170°	164.3	158.5	154.7	154.7	156.6	156.6	160.5	166.2	177.6	179.6
172.5°	162.4	158.5	152.8	145.2	147.1	145.2	143.3	147.1	149.0	168.1
175°	164.3	158.5	152.8	143.3	139.4	133.7	124.2	116.5	114.6	93.6
177.5°	162.4	156.6	149.0	141.4	137.5	129.9	118.4	105.1	97.4	86.0
180°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7

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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	13.78	15.09	14.42	15.75	16.52	17.40	18.71	18.04	19.38	20.15
	3H	15.12	16.32	15.78	17.00	17.80	20.35	21.55	21.01	22.23	23.03
	4H	15.53	16.67	16.20	17.35	18.17	21.86	23.00	22.53	23.69	24.50
	6H	15.74	16.80	16.43	17.50	18.33	23.47	24.53	24.16	25.23	26.06
	8H	15.78	16.79	16.47	17.51	18.34	24.32	25.34	25.02	26.06	26.89
	12H	15.78	16.76	16.48	17.47	18.33	25.27	26.24	25.97	26.96	27.82
4H	2H	14.93	16.07	15.61	16.76	17.57	17.72	18.85	18.39	19.54	20.36
	3H	16.57	17.55	17.26	18.27	19.11	20.90	21.88	21.59	22.60	23.43
	4H	17.14	18.04	17.85	18.77	19.63	22.58	23.48	23.28	24.21	25.07
	6H	17.48	18.28	18.20	19.03	19.90	24.40	25.20	25.12	25.95	26.81
	8H	17.56	18.31	18.28	19.05	19.94	25.37	26.12	26.10	26.87	27.76
	12H	17.58	18.27	18.33	19.04	19.93	26.46	27.14	27.21	27.91	28.80
8H	4H	18.25	19.00	18.98	19.75	20.63	22.75	23.50	23.48	24.25	25.13
	6H	18.86	19.50	19.61	20.29	21.17	24.75	25.39	25.50	26.17	27.06
	8H	19.05	19.63	19.82	20.42	21.32	25.86	26.44	26.63	27.23	28.13
	12H	19.17	19.68	19.94	20.46	21.42	27.14	27.66	27.91	28.44	29.39
12H	4H	18.61	19.30	19.36	20.07	20.96	22.74	23.43	23.49	24.20	25.09
	6H	19.39	19.97	20.16	20.76	21.66	24.77	25.35	25.54	26.14	27.04
	8H	19.72	20.24	20.49	21.02	21.97	25.96	26.47	26.73	27.25	28.21