

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: P895272

Luminaire Tested: 8TMB-8SL-RNDU-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895272
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-L850
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5
Light Source: -
Ballast/Driver: -

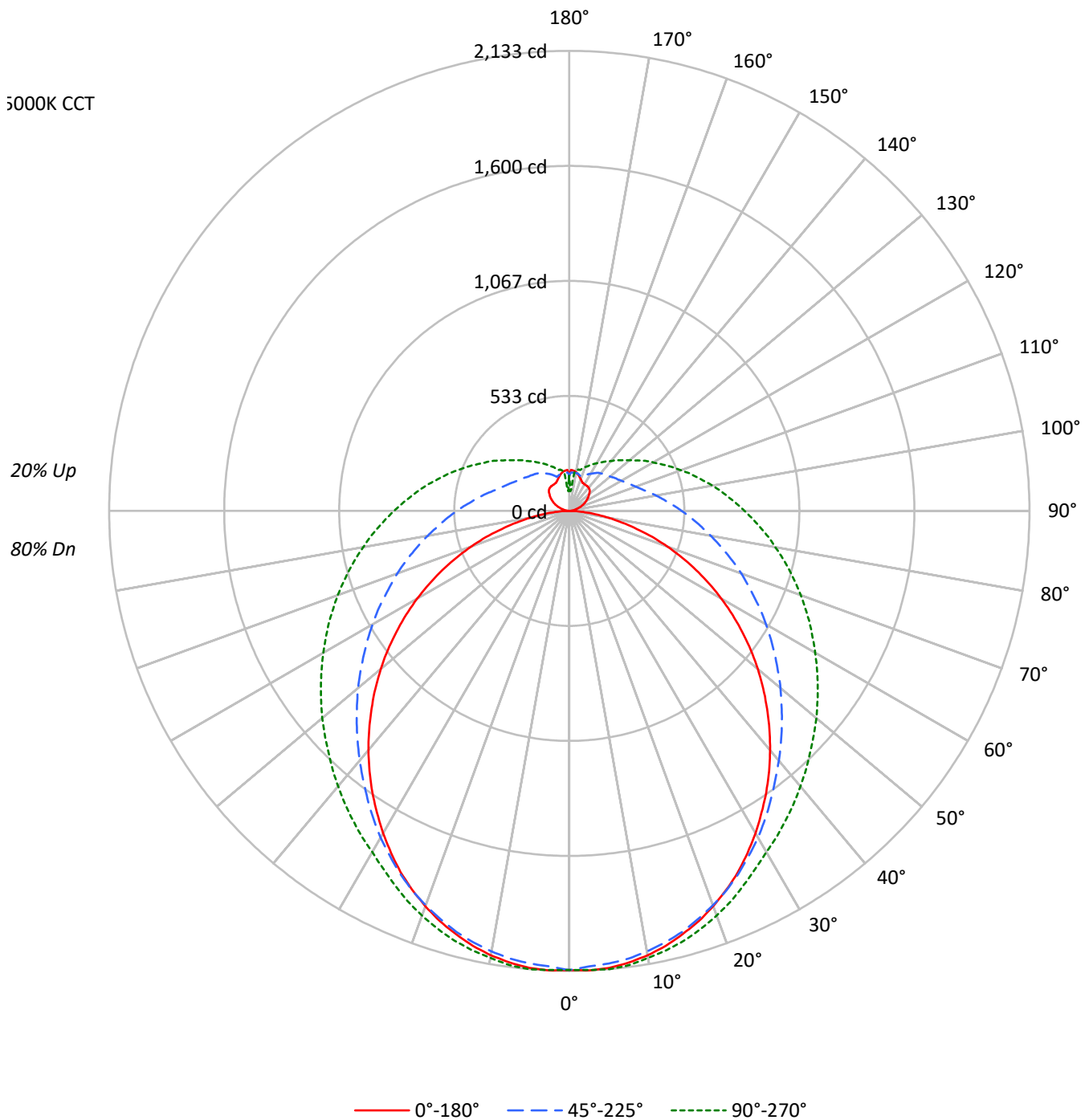
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8953.0 lumens
Efficiency: N/A
Efficacy: 150.2 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 (A_{in}): 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			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°	7553	7553	7553
5°	7557	7245	7248
10°	7503	6973	6914
15°	7410	6696	6604
20°	7295	6403	6286
25°	7152	6107	5968
30°	6965	5808	5686
35°	6771	5499	5478
40°	6563	5220	5289
45°	6339	4973	5121
50°	6104	4754	4991
55°	5834	4552	4878
60°	5528	4388	4793
65°	5153	4245	4745
70°	4685	4162	4730
75°	4047	4107	4751
80°	3280	4123	4826
85°	2286	4255	4984

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6339 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	2.2
10°-20°	574.2	6.4
20°-30°	862.2	9.6
30°-40°	1036.8	11.6
40°-50°	1098.4	12.3
50°-60°	1057.8	11.8
60°-70°	936.2	10.5
70°-80°	767.9	8.6
80°-90°	595.9	6.7
90°-100°	462.5	5.2
100°-110°	366.5	4.1
110°-120°	291.9	3.3
120°-130°	231.9	2.6
130°-140°	181.1	2.0
140°-150°	133.3	1.5
150°-160°	88.1	1.0
160°-170°	50.7	0.6
170°-180°	16.3	0.2
0°-30°	1637.8	18.3
0°-40°	2674.6	29.9
0°-60°	4830.8	54.0
0°-90°	7130.8	79.6
90°-120°	1120.8	12.5
90°-150°	1667.1	18.6
90°-180°	1822.0	20.4
0°-180°	8953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2129	2129	2129	2129	2129	
5°	2127	2129	2106	2122	2133	202
15°	2031	2033	2021	2052	2062	573
25°	1849	1855	1855	1902	1914	851
35°	1592	1612	1630	1715	1750	995
45°	1296	1327	1393	1525	1580	1000
55°	978	1027	1162	1335	1406	875
65°	648	737	946	1144	1229	641
75°	324	486	753	966	1055	346
85°	73	294	589	804	889	83
90°	2	231	520	729	812	6
95°	10	190	460	658	739	11
105°	36	154	362	539	610	39
115°	73	148	302	440	498	71
125°	105	154	263	362	407	94
135°	134	164	237	304	332	102
145°	142	162	215	261	278	89
155°	144	168	184	223	235	68
165°	170	180	174	174	196	48
175°	188	186	178	148	99	18
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6
2.5°	2132.6	2130.6	2134.7	2138.7	2150.9	2134.7	2142.8	2120.5	2122.5	2124.5	2114.4
5°	2126.6	2120.5	2126.6	2130.6	2140.7	2128.6	2136.7	2112.4	2114.4	2118.5	2106.3
7.5°	2112.4	2106.3	2110.4	2114.4	2124.5	2112.4	2122.5	2098.2	2102.3	2104.3	2094.2
10°	2092.1	2084.0	2088.1	2094.2	2102.3	2092.1	2100.2	2078.0	2080.0	2084.0	2073.9
12.5°	2065.8	2057.7	2061.8	2065.8	2075.9	2065.8	2073.9	2051.6	2055.7	2059.7	2049.6
15°	2031.4	2023.3	2027.3	2031.4	2039.5	2033.4	2041.5	2019.2	2023.3	2031.4	2021.2
17.5°	1994.9	1982.8	1986.8	1992.9	2001.0	1996.9	2003.0	1984.8	1986.8	1994.9	1984.8
20°	1950.4	1938.2	1942.3	1948.3	1956.4	1954.4	1958.5	1942.3	1946.3	1956.4	1946.3
22.5°	1901.8	1889.6	1893.7	1901.8	1907.8	1907.8	1909.9	1897.7	1901.8	1911.9	1903.8
25°	1849.1	1836.9	1841.0	1849.1	1855.2	1855.2	1859.2	1847.1	1853.1	1863.3	1855.2
27.5°	1788.3	1782.3	1782.3	1790.4	1794.4	1798.5	1800.5	1790.4	1798.5	1808.6	1802.5
30°	1725.6	1717.5	1721.5	1731.6	1731.6	1739.7	1739.7	1731.6	1741.8	1753.9	1749.9
32.5°	1658.7	1652.6	1654.7	1666.8	1666.8	1676.9	1674.9	1670.9	1681.0	1695.2	1691.1
35°	1591.9	1585.8	1587.8	1600.0	1600.0	1612.1	1608.1	1608.1	1618.2	1634.4	1630.4
37.5°	1521.0	1516.9	1519.0	1531.1	1531.1	1543.3	1539.2	1541.3	1553.4	1571.6	1569.6
40°	1448.1	1444.0	1448.1	1458.2	1462.3	1472.4	1468.3	1472.4	1488.6	1504.8	1510.9
42.5°	1373.2	1371.1	1375.2	1385.3	1389.4	1399.5	1397.5	1403.5	1419.7	1444.0	1452.1
45°	1296.2	1296.2	1300.2	1310.4	1314.4	1326.6	1324.5	1332.6	1352.9	1379.2	1393.4
47.5°	1219.2	1221.3	1223.3	1235.4	1235.4	1255.7	1249.6	1261.8	1288.1	1318.5	1334.7
50°	1140.2	1144.3	1146.3	1156.4	1160.5	1178.7	1174.7	1194.9	1223.3	1255.7	1278.0
52.5°	1061.3	1065.3	1069.4	1077.5	1081.5	1103.8	1099.7	1126.1	1160.5	1194.9	1219.2
55°	978.2	986.3	988.3	998.5	1004.5	1026.8	1026.8	1057.2	1093.7	1132.1	1162.5
57.5°	897.2	905.3	907.3	919.5	927.6	953.9	958.0	992.4	1032.9	1071.4	1107.8
60°	814.2	824.3	826.3	838.5	852.7	881.0	887.1	925.6	970.1	1010.6	1053.2
62.5°	731.1	741.3	745.3	757.5	779.7	808.1	818.2	862.8	909.4	953.9	1000.5
65°	648.1	658.2	664.3	680.5	706.8	737.2	751.4	798.0	850.6	897.2	945.8
67.5°	565.1	577.2	585.3	605.6	640.0	672.4	686.6	739.2	793.9	844.5	895.2
70°	484.0	496.2	506.3	532.7	573.2	605.6	623.8	680.5	737.2	791.9	848.6
72.5°	405.1	417.2	431.4	463.8	508.4	544.8	565.1	623.8	686.6	741.3	800.0
75°	324.0	338.2	354.4	399.0	449.6	486.1	508.4	571.1	635.9	690.6	753.4
77.5°	251.1	265.3	289.6	334.2	390.9	431.4	455.7	522.5	589.4	644.0	708.9
80°	184.3	198.5	230.9	279.5	338.2	376.7	407.1	475.9	544.8	601.5	666.3
82.5°	125.6	139.7	178.2	230.9	293.7	332.1	360.5	433.4	502.3	561.0	625.8
85°	72.9	93.2	133.7	190.4	255.2	293.7	322.0	397.0	463.8	522.5	589.4
87.5°	32.4	56.7	101.3	158.0	222.8	259.2	289.6	358.5	429.4	488.1	554.9
90°	2.0	32.4	79.0	133.7	196.5	230.9	259.2	328.1	394.9	455.7	520.5
92.5°	4.1	22.3	64.8	115.4	174.2	208.6	237.0	301.8	364.6	427.3	490.1
95°	10.1	22.3	56.7	103.3	158.0	190.4	216.7	279.5	338.2	399.0	459.7
97.5°	16.2	24.3	54.7	97.2	145.8	176.2	200.5	259.2	318.0	372.7	433.4
100°	22.3	30.4	54.7	93.2	137.7	166.1	188.4	243.0	297.7	348.4	409.1
102.5°	28.4	36.5	58.7	93.2	133.7	158.0	180.3	230.9	281.5	328.1	384.8
105°	36.5	42.5	62.8	93.2	129.6	153.9	172.2	218.7	267.3	311.9	362.5
107.5°	44.6	48.6	66.8	95.2	129.6	149.9	168.1	210.6	255.2	295.7	344.3
110°	54.7	56.7	72.9	99.2	129.6	147.8	164.0	204.6	245.1	283.5	328.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	62.8	62.8	79.0	103.3	129.6	147.8	162.0	198.5	237.0	271.4	313.9
115°	72.9	72.9	85.1	107.3	131.6	147.8	162.0	196.5	230.9	261.3	301.8
117.5°	81.0	81.0	93.2	111.4	135.7	149.9	162.0	192.4	224.8	253.2	289.6
120°	89.1	89.1	97.2	115.4	137.7	151.9	162.0	190.4	218.7	247.1	279.5
122.5°	97.2	97.2	103.3	121.5	139.7	151.9	162.0	188.4	214.7	239.0	269.4
125°	105.3	105.3	109.4	125.6	143.8	153.9	164.0	188.4	212.7	232.9	263.3
127.5°	113.4	111.4	117.5	131.6	145.8	155.9	166.1	188.4	208.6	228.9	255.2
130°	119.5	117.5	125.6	135.7	149.9	158.0	166.1	186.3	206.6	224.8	247.1
132.5°	127.6	123.5	133.7	137.7	153.9	162.0	168.1	186.3	204.6	220.8	243.0
135°	133.7	129.6	139.7	143.8	155.9	164.0	170.1	186.3	202.5	218.7	237.0
137.5°	137.7	135.7	145.8	149.9	158.0	166.1	172.2	186.3	200.5	214.7	232.9
140°	139.7	137.7	145.8	153.9	158.0	166.1	170.1	184.3	198.5	210.6	226.8
142.5°	141.8	141.8	147.8	155.9	158.0	164.0	170.1	182.3	194.4	204.6	222.8
145°	141.8	141.8	147.8	158.0	160.0	162.0	166.1	178.2	188.4	198.5	214.7
147.5°	141.8	141.8	149.9	158.0	162.0	164.0	162.0	174.2	184.3	192.4	206.6
150°	141.8	141.8	149.9	158.0	164.0	166.1	164.0	170.1	178.2	186.3	198.5
152.5°	143.8	143.8	149.9	158.0	164.0	166.1	166.1	166.1	172.2	180.3	192.4
155°	143.8	145.8	149.9	162.0	166.1	168.1	168.1	168.1	166.1	174.2	184.3
157.5°	149.9	151.9	153.9	164.0	168.1	170.1	170.1	170.1	168.1	166.1	176.2
160°	155.9	158.0	160.0	168.1	172.2	174.2	174.2	174.2	170.1	168.1	168.1
162.5°	162.0	166.1	166.1	170.1	174.2	176.2	176.2	178.2	174.2	172.2	170.1
165°	170.1	172.2	172.2	174.2	178.2	180.3	178.2	180.3	178.2	176.2	174.2
167.5°	176.2	178.2	178.2	180.3	180.3	182.3	182.3	182.3	180.3	178.2	178.2
170°	182.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3	182.3	178.2	178.2
172.5°	186.3	188.4	188.4	186.3	186.3	186.3	186.3	184.3	180.3	178.2	178.2
175°	188.4	190.4	190.4	188.4	186.3	186.3	186.3	184.3	180.3	178.2	178.2
177.5°	190.4	192.4	190.4	190.4	186.3	186.3	186.3	186.3	182.3	180.3	178.2
180°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6	2128.6
2.5°	2126.6	2102.3	2118.5	2120.5	2128.6	2120.5	2126.6	2120.5	2136.7	2130.6
5°	2118.5	2096.2	2110.4	2112.4	2122.5	2112.4	2122.5	2118.5	2138.7	2132.6
7.5°	2104.3	2086.1	2098.2	2100.2	2112.4	2102.3	2112.4	2108.3	2132.6	2124.5
10°	2084.0	2069.9	2082.0	2084.0	2096.2	2086.1	2094.2	2090.1	2116.4	2104.3
12.5°	2061.8	2049.6	2059.7	2061.8	2075.9	2065.8	2075.9	2071.9	2098.2	2086.1
15°	2029.4	2023.3	2033.4	2037.5	2051.6	2043.5	2053.7	2049.6	2078.0	2061.8
17.5°	1996.9	1992.9	2003.0	2007.1	2023.3	2013.1	2023.3	2019.2	2047.6	2031.4
20°	1956.4	1954.4	1964.5	1970.6	1984.8	1974.7	1986.8	1982.8	2013.1	1996.9
22.5°	1913.9	1913.9	1922.0	1928.1	1942.3	1934.2	1946.3	1944.3	1974.7	1958.5
25°	1867.3	1869.4	1877.5	1885.6	1901.8	1895.7	1905.8	1905.8	1934.2	1913.9
27.5°	1814.7	1824.8	1830.9	1841.0	1855.2	1849.1	1859.2	1861.3	1889.6	1869.4
30°	1760.0	1774.2	1780.2	1792.4	1804.5	1804.5	1814.7	1818.7	1847.1	1826.8
32.5°	1703.3	1719.5	1727.6	1743.8	1760.0	1760.0	1774.2	1780.2	1808.6	1790.4
35°	1646.6	1668.8	1679.0	1699.2	1715.4	1717.5	1731.6	1739.7	1768.1	1749.9
37.5°	1591.9	1620.2	1630.4	1654.7	1668.8	1672.9	1689.1	1699.2	1725.6	1709.4
40°	1535.2	1569.6	1581.8	1608.1	1620.2	1628.3	1644.5	1656.7	1681.0	1666.8
42.5°	1480.5	1519.0	1531.1	1559.5	1573.7	1581.8	1598.0	1614.2	1638.5	1624.3
45°	1425.8	1468.3	1482.5	1512.9	1525.1	1537.2	1555.4	1569.6	1591.9	1579.7
47.5°	1373.2	1417.7	1431.9	1464.3	1478.5	1492.6	1508.8	1529.1	1549.4	1537.2
50°	1318.5	1365.1	1383.3	1417.7	1429.9	1446.1	1466.3	1484.5	1504.8	1494.7
52.5°	1265.8	1314.4	1332.6	1369.1	1383.3	1399.5	1419.7	1440.0	1458.2	1450.1
55°	1209.1	1261.8	1282.0	1320.5	1334.7	1350.9	1373.2	1395.4	1411.6	1405.6
57.5°	1156.4	1211.1	1231.4	1273.9	1286.1	1306.3	1328.6	1352.9	1367.1	1361.0
60°	1103.8	1158.5	1182.8	1225.3	1239.5	1259.7	1282.0	1308.3	1320.5	1316.4
62.5°	1051.1	1107.8	1134.2	1178.7	1190.9	1213.2	1239.5	1261.8	1273.9	1271.9
65°	1002.5	1057.2	1087.6	1132.1	1144.3	1168.6	1192.9	1217.2	1229.4	1229.4
67.5°	951.9	1010.6	1041.0	1087.6	1097.7	1124.0	1150.4	1174.7	1184.8	1184.8
70°	905.3	962.0	996.4	1043.0	1053.2	1077.5	1105.8	1132.1	1140.2	1142.3
72.5°	858.7	915.4	951.9	1000.5	1010.6	1034.9	1061.3	1089.6	1095.7	1097.7
75°	814.2	870.9	907.3	955.9	966.1	990.4	1018.7	1045.1	1053.2	1055.2
77.5°	769.6	826.3	866.8	913.4	923.5	947.8	976.2	1002.5	1008.6	1012.6
80°	729.1	783.8	822.3	872.9	883.0	907.3	933.7	960.0	964.0	970.1
82.5°	688.6	743.3	783.8	832.4	842.5	866.8	893.2	919.5	923.5	931.6
85°	650.1	704.8	745.3	791.9	804.0	826.3	854.7	879.0	883.0	889.1
87.5°	615.7	666.3	708.9	753.4	765.6	787.8	816.2	840.5	842.5	850.6
90°	579.2	629.9	672.4	717.0	729.1	749.4	777.7	802.0	806.1	812.1
92.5°	548.9	595.4	640.0	682.5	692.7	714.9	741.3	765.6	769.6	775.7
95°	516.5	563.0	607.6	648.1	658.2	680.5	704.8	729.1	733.2	739.2
97.5°	488.1	532.7	575.2	615.7	625.8	646.1	672.4	694.7	698.7	706.8
100°	461.8	504.3	548.9	585.3	595.4	615.7	640.0	662.3	666.3	674.4
102.5°	437.5	478.0	520.5	554.9	567.1	585.3	609.6	629.9	633.9	640.0
105°	415.2	453.7	494.2	526.6	538.7	557.0	579.2	599.5	603.5	609.6
107.5°	392.9	429.4	467.8	500.2	510.4	526.6	548.9	569.1	573.2	581.3
110°	372.7	409.1	445.6	475.9	488.1	500.2	522.5	540.8	544.8	550.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	354.4	386.8	423.3	451.6	461.8	475.9	494.2	512.4	516.5	524.6
115°	338.2	368.6	405.1	431.4	439.5	451.6	471.9	488.1	492.1	498.2
117.5°	324.0	350.4	382.8	409.1	419.2	429.4	447.6	461.8	467.8	471.9
120°	311.9	336.2	364.6	388.9	401.0	409.1	425.3	439.5	445.6	449.6
122.5°	299.7	322.0	348.4	370.6	380.8	386.8	405.1	417.2	423.3	429.4
125°	289.6	309.9	334.2	352.4	362.5	368.6	384.8	397.0	403.0	407.1
127.5°	279.5	297.7	322.0	336.2	346.3	350.4	364.6	376.7	382.8	384.8
130°	269.4	287.6	307.8	322.0	330.1	336.2	348.4	356.5	362.5	364.6
132.5°	261.3	277.5	295.7	309.9	318.0	320.0	332.1	340.3	346.3	348.4
135°	255.2	267.3	285.6	297.7	303.8	307.8	318.0	324.0	330.1	332.1
137.5°	247.1	259.2	275.4	283.5	291.6	293.7	303.8	309.9	315.9	318.0
140°	241.0	251.1	265.3	273.4	281.5	281.5	289.6	295.7	301.8	301.8
142.5°	234.9	245.1	257.2	265.3	271.4	271.4	279.5	283.5	289.6	289.6
145°	226.8	237.0	249.1	255.2	261.3	261.3	267.3	271.4	277.5	277.5
147.5°	218.7	228.9	241.0	245.1	251.1	251.1	257.2	261.3	265.3	265.3
150°	208.6	216.7	230.9	237.0	243.0	243.0	247.1	251.1	255.2	255.2
152.5°	200.5	206.6	218.7	226.8	232.9	232.9	237.0	241.0	245.1	245.1
155°	190.4	196.5	206.6	216.7	222.8	224.8	228.9	230.9	234.9	234.9
157.5°	182.3	188.4	196.5	204.6	210.6	214.7	220.8	222.8	224.8	224.8
160°	172.2	176.2	184.3	192.4	198.5	202.5	212.7	214.7	216.7	216.7
162.5°	168.1	168.1	172.2	178.2	184.3	186.3	196.5	204.6	208.6	206.6
165°	170.1	168.1	168.1	170.1	174.2	176.2	182.3	194.4	198.5	196.5
167.5°	174.2	170.1	168.1	168.1	172.2	172.2	178.2	188.4	200.5	196.5
170°	174.2	168.1	164.0	164.0	166.1	166.1	170.1	176.2	188.4	190.4
172.5°	172.2	168.1	162.0	153.9	155.9	153.9	151.9	155.9	158.0	178.2
175°	174.2	168.1	162.0	151.9	147.8	141.8	131.6	123.5	121.5	99.2
177.5°	172.2	166.1	158.0	149.9	145.8	137.7	125.6	111.4	103.3	91.1
180°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0



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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	13.98	15.29	14.62	15.96	16.73	17.60	18.91	18.24	19.58	20.35
	3H	15.33	16.53	15.98	17.20	18.00	20.56	21.76	21.21	22.43	23.23
	4H	15.73	16.87	16.40	17.56	18.37	22.07	23.20	22.74	23.89	24.71
	6H	15.95	17.01	16.63	17.70	18.53	23.68	24.74	24.36	25.43	26.26
	8H	15.98	17.00	16.68	17.72	18.55	24.53	25.54	25.22	26.26	27.09
	12H	15.98	16.96	16.69	17.67	18.53	25.47	26.45	26.17	27.16	28.02
4H	2H	15.14	16.28	15.81	16.96	17.78	17.92	19.06	18.59	19.74	20.56
	3H	16.78	17.76	17.47	18.48	19.31	21.10	22.08	21.79	22.80	23.64
	4H	17.35	18.25	18.05	18.97	19.83	22.78	23.68	23.49	24.41	25.27
	6H	17.69	18.48	18.41	19.23	20.10	24.60	25.40	25.32	26.15	27.02
	8H	17.76	18.51	18.49	19.26	20.14	25.58	26.33	26.30	27.08	27.96
	12H	17.79	18.47	18.53	19.24	20.13	26.66	27.35	27.41	28.12	29.01
8H	4H	18.45	19.20	19.18	19.95	20.83	22.95	23.70	23.68	24.45	25.33
	6H	19.06	19.70	19.82	20.49	21.37	24.95	25.59	25.70	26.38	27.26
	8H	19.26	19.84	20.02	20.62	21.52	26.07	26.65	26.83	27.43	28.33
	12H	19.37	19.89	20.14	20.67	21.62	27.34	27.86	28.11	28.64	29.60
12H	4H	18.82	19.50	19.57	20.27	21.16	22.95	23.63	23.69	24.40	25.29
	6H	19.60	20.18	20.36	20.96	21.86	24.98	25.56	25.74	26.34	27.24
	8H	19.92	20.44	20.69	21.22	22.18	26.16	26.68	26.93	27.46	28.41