

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: P895222

Luminaire Tested: 8TMB-8SL-FLTU-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-FLTU-UNV-L835
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 350
Light Source: -
Ballast/Driver: -

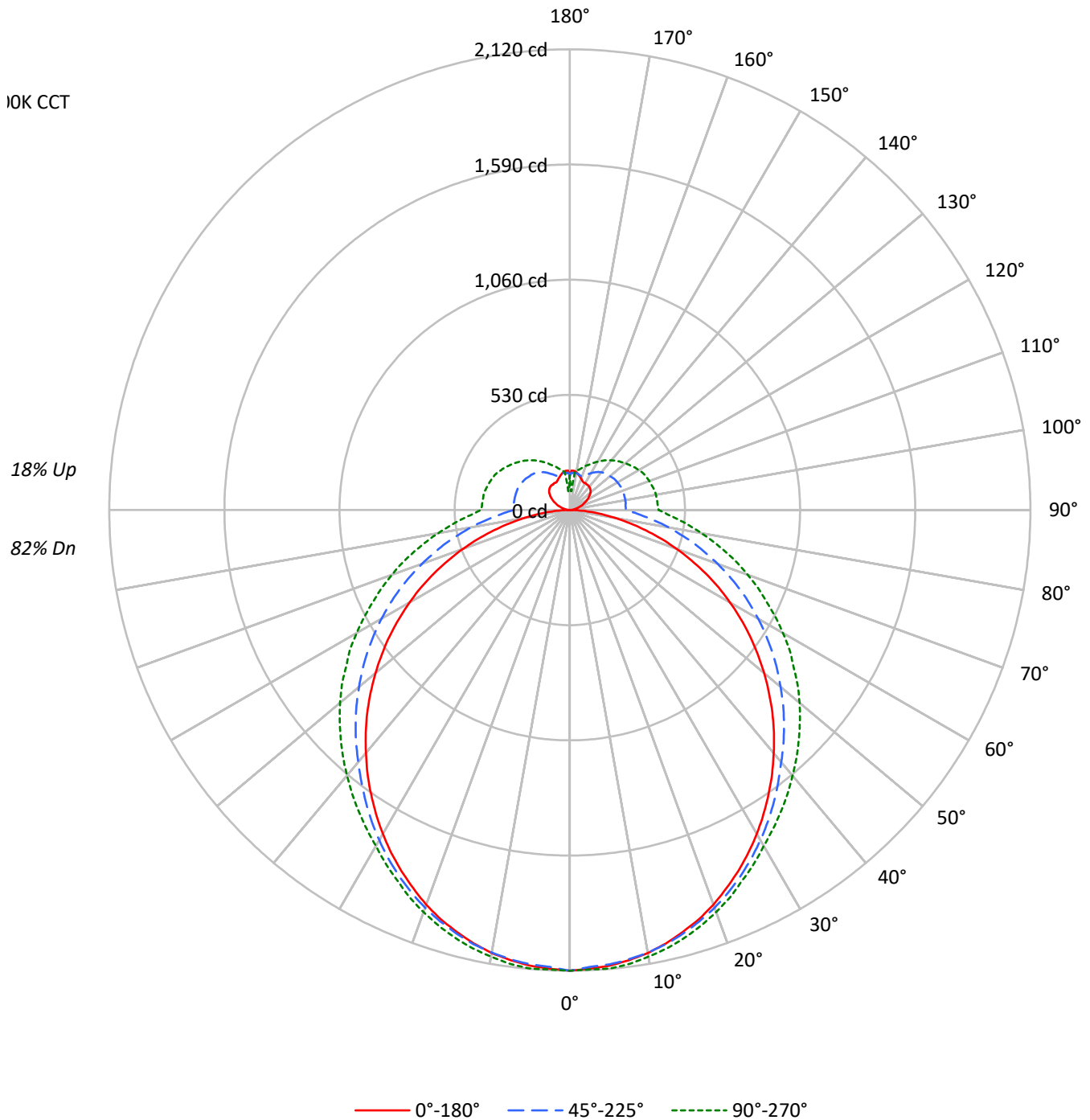
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8015.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7522	7522	7522
5°	7479	7219	7199
10°	7423	6952	6857
15°	7331	6684	6530
20°	7227	6408	6199
25°	7092	6119	5862
30°	6947	5822	5556
35°	6786	5525	5303
40°	6617	5231	5062
45°	6448	4975	4833
50°	6250	4711	4610
55°	6039	4450	4361
60°	5784	4171	4124
65°	5480	3876	3856
70°	5079	3551	3608
75°	4523	3219	3339
80°	3791	2863	3063
85°	2853	2502	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	2.5
10°-20°	571.8	7.1
20°-30°	859.1	10.7
30°-40°	1031.6	12.9
40°-50°	1084.7	13.5
50°-60°	1019.2	12.7
60°-70°	847.5	10.6
70°-80°	604.8	7.5
80°-90°	360.0	4.5
90°-100°	260.6	3.3
100°-110°	257.1	3.2
110°-120°	241.5	3.0
120°-130°	214.0	2.7
130°-140°	177.3	2.2
140°-150°	132.7	1.7
150°-160°	87.3	1.1
160°-170°	49.5	0.6
170°-180°	15.8	0.2
0°-30°	1631.4	20.4
0°-40°	2663.0	33.2
0°-60°	4766.9	59.5
0°-90°	6579.1	82.1
90°-120°	759.2	9.5
90°-150°	1283.3	16.0
90°-180°	1436.0	17.9
0°-180°	8015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2120	2120	2120	2120	2120	
5°	2105	2130	2099	2105	2118	200
15°	2010	2041	2018	2031	2039	567
25°	1834	1868	1859	1876	1880	845
35°	1595	1632	1638	1679	1694	998
45°	1318	1355	1394	1466	1491	1016
55°	1013	1053	1136	1230	1257	905
65°	689	745	864	972	999	682
75°	362	443	590	705	742	385
85°	91	199	347	463	502	99
90°	0	114	258	370	408	6
95°	10	120	258	366	405	11
105°	37	134	259	362	397	39
115°	72	145	258	347	381	72
125°	108	155	250	325	350	97
135°	134	163	236	296	318	103
145°	141	159	213	263	279	89
155°	143	161	180	223	236	67
165°	165	174	168	170	198	46
175°	182	180	170	145	87	17
180°	159	159	159	159	159	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1
2.5°	2112.4	2118.2	2120.1	2139.5	2131.7	2139.5	2125.9	2110.4	2106.5	2116.2	2104.6
5°	2104.6	2110.4	2112.4	2131.7	2124.0	2129.8	2118.2	2102.7	2098.8	2110.4	2098.8
7.5°	2089.1	2094.9	2096.9	2118.2	2108.5	2116.2	2102.7	2087.2	2085.3	2096.9	2085.3
10°	2069.8	2075.6	2077.5	2096.9	2089.1	2096.9	2083.3	2067.8	2065.9	2079.4	2067.8
12.5°	2042.7	2048.5	2052.3	2071.7	2062.0	2071.7	2056.2	2040.7	2042.7	2054.3	2046.5
15°	2009.7	2017.5	2019.4	2038.8	2031.0	2040.7	2025.2	2009.7	2013.6	2025.2	2017.5
17.5°	1974.9	1982.6	1984.6	2002.0	1994.3	2005.9	1988.4	1974.9	1978.8	1990.4	1984.6
20°	1932.3	1940.0	1943.9	1961.3	1953.6	1965.2	1947.8	1936.2	1940.0	1953.6	1947.8
22.5°	1883.9	1895.5	1897.4	1916.8	1907.1	1918.7	1901.3	1891.6	1897.4	1911.0	1905.2
25°	1833.6	1845.2	1847.1	1866.5	1858.7	1868.4	1851.0	1841.3	1849.0	1862.6	1858.7
27.5°	1779.3	1791.0	1794.8	1812.3	1804.5	1816.1	1796.8	1791.0	1798.7	1812.3	1808.4
30°	1721.3	1732.9	1734.8	1752.2	1746.4	1758.0	1740.6	1732.9	1744.5	1758.0	1754.2
32.5°	1659.3	1670.9	1676.7	1692.2	1686.4	1696.1	1680.6	1676.7	1686.4	1700.0	1698.0
35°	1595.4	1607.0	1612.8	1630.3	1622.5	1632.2	1616.7	1612.8	1628.3	1638.0	1638.0
37.5°	1529.6	1541.2	1547.0	1564.4	1554.7	1566.4	1550.9	1548.9	1566.4	1576.0	1576.0
40°	1459.9	1473.4	1479.2	1494.7	1487.0	1496.7	1483.1	1485.0	1500.5	1512.1	1514.1
42.5°	1390.2	1403.7	1409.5	1427.0	1417.3	1427.0	1415.3	1417.3	1434.7	1446.3	1456.0
45°	1318.5	1330.1	1336.0	1355.3	1343.7	1355.3	1343.7	1347.6	1365.0	1382.4	1394.0
47.5°	1243.0	1254.6	1264.3	1279.8	1270.1	1279.8	1272.1	1277.9	1299.2	1316.6	1332.1
50°	1167.5	1179.1	1188.8	1202.4	1192.7	1206.2	1196.6	1204.3	1231.4	1248.8	1266.3
52.5°	1090.1	1099.7	1115.2	1123.0	1115.2	1130.7	1123.0	1134.6	1161.7	1183.0	1202.4
55°	1012.6	1022.3	1037.8	1043.6	1035.8	1053.3	1047.5	1063.0	1092.0	1115.2	1136.5
57.5°	933.2	942.9	956.5	962.3	956.5	975.8	973.9	991.3	1020.4	1045.5	1068.8
60°	851.9	861.6	873.2	879.0	879.0	898.4	898.4	919.7	950.7	973.9	1001.0
62.5°	772.5	778.3	790.0	797.7	803.5	822.9	822.9	846.1	879.0	906.1	933.2
65°	689.3	695.1	704.8	714.4	724.1	745.4	747.4	772.5	805.4	832.6	863.5
67.5°	606.0	611.8	621.5	633.1	646.7	668.0	671.9	699.0	733.8	764.8	793.8
70°	524.7	526.6	538.3	553.7	569.2	590.5	596.3	625.4	662.2	693.1	724.1
72.5°	443.4	445.3	456.9	476.3	493.7	517.0	524.7	555.7	592.5	623.4	654.4
75°	362.1	364.0	379.5	402.7	422.1	443.4	453.1	486.0	522.8	555.7	590.5
77.5°	284.6	288.5	304.0	327.2	350.4	375.6	385.3	418.2	458.9	489.9	522.8
80°	213.0	216.9	234.3	259.4	284.6	307.9	319.5	352.4	395.0	426.0	462.7
82.5°	147.1	153.0	174.3	201.4	226.5	251.7	263.3	294.3	333.0	367.9	402.7
85°	91.0	98.7	120.0	149.1	176.2	199.4	211.0	244.0	280.7	313.7	346.6
87.5°	42.6	54.2	75.5	104.6	133.6	153.0	166.5	199.4	234.3	267.2	300.1
90°	0.0	17.4	38.7	67.8	96.8	114.2	129.7	160.7	195.6	226.5	257.5
92.5°	3.9	19.4	42.6	69.7	98.7	116.2	131.7	162.6	195.6	226.5	257.5
95°	9.7	21.3	44.5	73.6	102.6	120.0	133.6	164.6	197.5	228.5	257.5
97.5°	17.4	27.1	50.3	77.4	106.5	122.0	137.5	168.4	199.4	230.4	259.4
100°	23.2	31.0	54.2	81.3	110.4	125.9	141.3	170.4	201.4	232.3	259.4
102.5°	29.0	38.7	60.0	85.2	114.2	129.7	143.3	172.3	203.3	232.3	259.4
105°	36.8	44.5	63.9	91.0	118.1	133.6	147.1	176.2	205.2	234.3	259.4
107.5°	44.5	50.3	69.7	94.9	122.0	135.5	149.1	178.1	207.2	234.3	259.4
110°	54.2	58.1	75.5	98.7	123.9	139.4	153.0	180.1	207.2	234.3	259.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	63.9	63.9	81.3	102.6	127.8	141.3	154.9	182.0	209.1	234.3	259.4
115°	71.6	73.6	87.1	106.5	131.7	145.2	156.8	182.0	209.1	234.3	257.5
117.5°	81.3	81.3	94.9	110.4	133.6	147.1	160.7	183.9	209.1	232.3	255.6
120°	91.0	89.1	100.7	116.2	137.5	149.1	162.6	185.9	209.1	232.3	253.6
122.5°	100.7	96.8	104.6	120.0	139.4	153.0	162.6	185.9	209.1	230.4	251.7
125°	108.4	104.6	110.4	125.9	143.3	154.9	164.6	185.9	209.1	228.5	249.8
127.5°	116.2	112.3	118.1	129.7	145.2	154.9	166.5	185.9	209.1	226.5	245.9
130°	123.9	118.1	125.9	133.6	149.1	156.8	166.5	185.9	207.2	224.6	242.0
132.5°	129.7	123.9	131.7	137.5	151.0	158.8	168.4	185.9	205.2	222.7	240.1
135°	133.6	127.8	137.5	141.3	154.9	162.6	170.4	185.9	203.3	220.7	236.2
137.5°	137.5	129.7	141.3	145.2	156.8	164.6	170.4	183.9	201.4	216.9	232.3
140°	139.4	133.6	145.2	149.1	154.9	162.6	170.4	182.0	197.5	213.0	226.5
142.5°	141.3	133.6	147.1	151.0	154.9	160.7	168.4	178.1	193.6	207.2	220.7
145°	141.3	135.5	147.1	151.0	154.9	158.8	164.6	176.2	187.8	199.4	213.0
147.5°	141.3	137.5	149.1	153.0	156.8	156.8	160.7	172.3	182.0	193.6	205.2
150°	143.3	137.5	149.1	153.0	158.8	158.8	160.7	166.5	178.1	185.9	195.6
152.5°	141.3	139.4	147.1	154.9	158.8	160.7	160.7	162.6	172.3	180.1	187.8
155°	143.3	143.3	149.1	158.8	160.7	160.7	162.6	160.7	164.6	172.3	180.1
157.5°	147.1	151.0	151.0	160.7	164.6	164.6	166.5	164.6	162.6	164.6	172.3
160°	153.0	156.8	156.8	162.6	168.4	168.4	170.4	168.4	166.5	164.6	164.6
162.5°	158.8	162.6	162.6	164.6	170.4	172.3	174.3	172.3	170.4	166.5	164.6
165°	164.6	168.4	168.4	168.4	172.3	174.3	176.2	174.3	174.3	170.4	168.4
167.5°	170.4	174.3	174.3	172.3	174.3	176.2	178.1	176.2	176.2	174.3	170.4
170°	176.2	180.1	180.1	176.2	178.1	178.1	180.1	178.1	178.1	174.3	172.3
172.5°	180.1	183.9	182.0	180.1	180.1	180.1	180.1	178.1	176.2	172.3	172.3
175°	182.0	185.9	185.9	182.0	180.1	180.1	182.0	178.1	176.2	174.3	170.4
177.5°	182.0	185.9	185.9	182.0	182.0	180.1	182.0	180.1	180.1	176.2	172.3
180°	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1	2120.1
2.5°	2112.4	2110.4	2098.8	2112.4	2112.4	2108.5	2124.0	2122.0	2120.1	2116.2
5°	2104.6	2102.7	2091.1	2104.6	2104.6	2102.7	2118.2	2120.1	2122.0	2118.2
7.5°	2093.0	2091.1	2079.4	2093.0	2093.0	2091.1	2108.5	2110.4	2112.4	2106.5
10°	2075.6	2073.6	2062.0	2075.6	2077.5	2075.6	2089.1	2091.1	2094.9	2087.2
12.5°	2052.3	2052.3	2040.7	2054.3	2056.2	2054.3	2067.8	2071.7	2075.6	2065.9
15°	2023.3	2025.2	2015.6	2029.1	2031.0	2031.0	2044.6	2046.5	2052.3	2038.8
17.5°	1988.4	1992.3	1984.6	1998.1	2000.1	2002.0	2009.7	2015.6	2021.4	2005.9
20°	1951.7	1953.6	1947.8	1959.4	1963.3	1961.3	1971.0	1978.8	1984.6	1969.1
22.5°	1907.1	1909.1	1903.3	1914.9	1918.7	1920.7	1928.4	1938.1	1942.0	1928.4
25°	1856.8	1864.5	1860.7	1872.3	1876.1	1876.1	1883.9	1893.6	1899.4	1880.0
27.5°	1808.4	1818.1	1814.2	1825.8	1829.7	1831.6	1835.5	1847.1	1852.9	1835.5
30°	1754.2	1765.8	1763.8	1775.5	1779.3	1777.4	1785.1	1796.8	1804.5	1785.1
32.5°	1694.1	1709.6	1707.7	1723.2	1727.1	1729.0	1734.8	1750.3	1758.0	1740.6
35°	1636.1	1653.5	1655.4	1672.8	1678.7	1680.6	1688.3	1703.8	1711.6	1694.1
37.5°	1576.0	1599.3	1605.1	1622.5	1628.3	1630.3	1638.0	1655.4	1663.2	1645.7
40°	1518.0	1545.1	1552.8	1568.3	1574.1	1579.9	1585.7	1603.1	1612.8	1595.4
42.5°	1459.9	1488.9	1498.6	1514.1	1519.9	1525.7	1533.4	1552.8	1560.6	1545.1
45°	1399.8	1430.8	1442.4	1457.9	1465.7	1471.5	1479.2	1496.7	1506.3	1490.8
47.5°	1339.8	1370.8	1382.4	1399.8	1407.6	1415.3	1421.1	1442.4	1452.1	1436.6
50°	1275.9	1310.8	1324.3	1339.8	1351.4	1357.3	1365.0	1384.4	1394.0	1380.5
52.5°	1212.0	1248.8	1264.3	1279.8	1291.4	1301.1	1305.0	1326.3	1336.0	1322.4
55°	1146.2	1183.0	1200.4	1217.8	1229.5	1241.1	1245.0	1266.3	1275.9	1256.6
57.5°	1080.4	1119.1	1136.5	1155.9	1165.6	1179.1	1184.9	1204.3	1214.0	1200.4
60°	1014.6	1051.3	1072.6	1090.1	1103.6	1115.2	1119.1	1140.4	1150.1	1132.7
62.5°	946.8	985.5	1006.8	1026.2	1037.8	1051.3	1057.1	1076.5	1084.3	1066.8
65°	877.1	915.8	939.0	956.5	972.0	983.6	987.4	1008.7	1016.5	999.1
67.5°	807.4	846.1	871.3	890.6	904.2	917.7	921.6	942.9	950.7	937.1
70°	739.6	778.3	803.5	826.7	836.4	850.0	855.8	875.1	882.9	871.3
72.5°	671.9	710.6	737.7	760.9	770.6	784.1	791.9	807.4	819.0	809.3
75°	606.0	644.7	671.9	695.1	704.8	718.3	726.1	741.6	749.3	741.6
77.5°	542.1	580.9	606.0	629.3	640.9	652.5	660.2	675.7	685.4	677.7
80°	480.2	518.9	544.1	565.4	577.0	588.6	596.3	613.8	621.5	615.7
82.5°	422.1	458.9	486.0	507.3	518.9	530.5	538.3	553.7	563.4	555.7
85°	369.8	406.6	431.8	453.1	462.7	474.4	482.1	497.6	505.3	501.5
87.5°	319.5	352.4	381.4	402.7	412.4	424.0	433.7	445.3	455.0	449.2
90°	280.7	309.8	336.9	358.2	369.8	381.4	393.0	404.7	412.4	408.5
92.5°	282.7	309.8	335.0	354.3	365.9	377.6	389.2	402.7	408.5	404.7
95°	282.7	309.8	335.0	354.3	365.9	377.6	389.2	402.7	408.5	404.7
97.5°	282.7	309.8	335.0	354.3	365.9	377.6	389.2	402.7	408.5	402.7
100°	282.7	309.8	335.0	354.3	365.9	375.6	387.2	400.8	406.6	402.7
102.5°	282.7	309.8	333.0	352.4	364.0	373.7	385.3	398.9	404.7	400.8
105°	282.7	307.9	333.0	350.4	362.1	371.7	383.4	395.0	400.8	396.9
107.5°	280.7	305.9	329.1	348.5	358.2	367.9	379.5	391.1	396.9	393.0
110°	280.7	304.0	327.2	344.6	354.3	364.0	375.6	387.2	393.0	389.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	278.8	302.0	325.3	340.8	350.4	360.1	369.8	383.4	389.2	385.3
115°	276.9	300.1	321.4	336.9	346.6	354.3	365.9	379.5	383.4	381.4
117.5°	274.9	296.2	317.5	333.0	342.7	350.4	360.1	371.7	377.6	375.6
120°	273.0	292.4	313.7	327.2	336.9	344.6	352.4	364.0	369.8	365.9
122.5°	269.1	288.5	309.8	323.3	331.1	338.8	346.6	356.3	362.1	360.1
125°	265.3	284.6	304.0	317.5	325.3	331.1	338.8	348.5	352.4	350.4
127.5°	261.4	280.7	298.2	309.8	319.5	325.3	331.1	340.8	344.6	342.7
130°	257.5	274.9	292.4	304.0	311.7	317.5	323.3	333.0	335.0	335.0
132.5°	253.6	269.1	286.6	298.2	305.9	309.8	315.6	323.3	327.2	325.3
135°	249.8	263.3	280.7	290.4	296.2	302.0	307.9	315.6	317.5	317.5
137.5°	244.0	257.5	273.0	282.7	288.5	292.4	298.2	305.9	307.9	307.9
140°	238.1	251.7	265.3	273.0	280.7	284.6	288.5	296.2	298.2	298.2
142.5°	232.3	244.0	257.5	265.3	273.0	274.9	280.7	286.6	288.5	288.5
145°	224.6	238.1	249.8	257.5	263.3	265.3	271.1	276.9	276.9	278.8
147.5°	214.9	226.5	242.0	247.8	253.6	255.6	261.4	265.3	267.2	267.2
150°	205.2	216.9	230.4	240.1	245.9	247.8	249.8	255.6	255.6	257.5
152.5°	195.6	205.2	218.8	228.5	236.2	238.1	240.1	244.0	244.0	245.9
155°	185.9	193.6	205.2	214.9	222.7	226.5	230.4	234.3	234.3	236.2
157.5°	178.1	185.9	195.6	203.3	209.1	214.9	220.7	224.6	224.6	224.6
160°	168.4	174.3	183.9	189.7	197.5	201.4	211.0	214.9	214.9	216.9
162.5°	162.6	164.6	170.4	176.2	182.0	185.9	195.6	205.2	205.2	207.2
165°	164.6	162.6	164.6	166.5	170.4	172.3	178.1	191.7	195.6	197.5
167.5°	168.4	162.6	162.6	162.6	166.5	166.5	172.3	180.1	193.6	189.7
170°	168.4	162.6	158.8	158.8	160.7	158.8	162.6	168.4	176.2	183.9
172.5°	170.4	164.6	158.8	151.0	153.0	151.0	147.1	147.1	149.1	174.3
175°	168.4	164.6	156.8	147.1	145.2	139.4	127.8	118.1	112.3	87.1
177.5°	166.5	160.7	154.9	147.1	143.3	137.5	123.9	108.4	92.9	89.1
180°	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8



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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	14.72	16.04	15.33	16.67	17.39	17.35	18.67	17.96	19.30	20.02
	3H	16.12	17.32	16.75	17.96	18.72	19.81	21.01	20.44	21.65	22.41
	4H	16.55	17.69	17.20	18.34	19.11	20.98	22.11	21.62	22.77	23.54
	6H	16.79	17.84	17.45	18.51	19.29	22.16	23.21	22.82	23.88	24.66
	8H	16.83	17.84	17.50	18.53	19.32	22.75	23.76	23.42	24.45	25.24
	12H	16.84	17.81	17.52	18.49	19.31	23.38	24.35	24.06	25.03	25.85
4H	2H	15.62	16.76	16.27	17.41	18.18	17.69	18.83	18.34	19.48	20.25
	3H	17.24	18.21	17.91	18.90	19.69	20.35	21.32	21.02	22.01	22.80
	4H	17.80	18.68	18.48	19.38	20.20	21.67	22.56	22.35	23.25	24.07
	6H	18.14	18.91	18.83	19.64	20.46	23.02	23.80	23.72	24.52	25.35
	8H	18.21	18.94	18.91	19.66	20.50	23.71	24.44	24.42	25.16	26.00
	12H	18.24	18.91	18.97	19.65	20.49	24.46	25.13	25.19	25.87	26.72
8H	4H	18.46	19.19	19.16	19.91	20.75	21.82	22.55	22.52	23.27	24.11
	6H	18.96	19.58	19.70	20.34	21.19	23.31	23.93	24.05	24.69	25.53
	8H	19.12	19.68	19.86	20.44	21.29	24.12	24.68	24.87	25.44	26.30
	12H	19.21	19.70	19.96	20.46	21.37	25.03	25.53	25.78	26.28	27.20
12H	4H	18.63	19.30	19.36	20.04	20.88	21.81	22.47	22.53	23.22	24.06
	6H	19.23	19.79	19.97	20.55	21.41	23.33	23.89	24.07	24.65	25.50
	8H	19.46	19.96	20.21	20.71	21.63	24.19	24.68	24.94	25.44	26.35