

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: P895271

Luminaire Tested: 8TMB-8SL-RNDU-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895271
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-L840
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 4
Light Source: -
Ballast/Driver: -

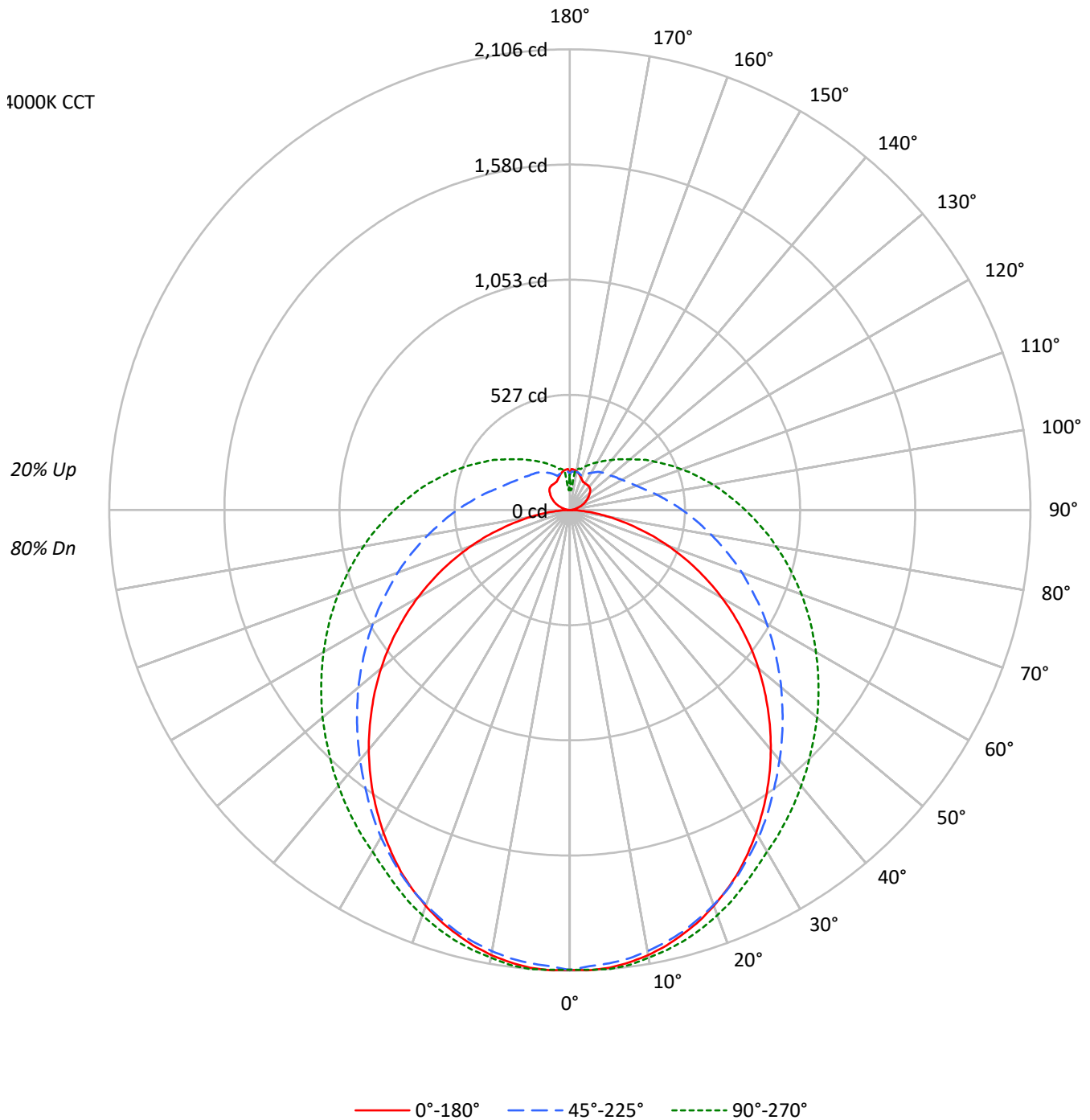
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8840.1 lumens
Efficiency: N/A
Efficacy: 148.3 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): 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°	7457	7457	7457
5°	7461	7153	7157
10°	7408	6885	6826
15°	7316	6612	6520
20°	7203	6322	6207
25°	7062	6030	5893
30°	6877	5735	5614
35°	6686	5430	5409
40°	6481	5154	5222
45°	6258	4910	5056
50°	6027	4694	4928
55°	5760	4495	4816
60°	5458	4333	4732
65°	5087	4192	4685
70°	4626	4109	4670
75°	3997	4055	4691
80°	3239	4071	4765
85°	2257	4201	4921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	2.2
10°-20°	567.0	6.4
20°-30°	851.3	9.6
30°-40°	1023.7	11.6
40°-50°	1084.6	12.3
50°-60°	1044.5	11.8
60°-70°	924.4	10.5
70°-80°	758.2	8.6
80°-90°	588.3	6.7
90°-100°	456.6	5.2
100°-110°	361.8	4.1
110°-120°	288.2	3.3
120°-130°	229.0	2.6
130°-140°	178.8	2.0
140°-150°	131.6	1.5
150°-160°	87.0	1.0
160°-170°	50.1	0.6
170°-180°	16.1	0.2
0°-30°	1617.1	18.3
0°-40°	2640.8	29.9
0°-60°	4769.8	54.0
0°-90°	7040.8	79.6
90°-120°	1106.7	12.5
90°-150°	1646.1	18.6
90°-180°	1799.0	20.4
0°-180°	8840.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2100	2102	2080	2096	2106	199
15°	2006	2008	1996	2026	2036	566
25°	1826	1832	1832	1878	1890	840
35°	1572	1592	1610	1694	1728	983
45°	1280	1310	1376	1506	1560	988
55°	966	1014	1148	1318	1388	864
65°	640	728	934	1130	1214	633
75°	320	480	744	954	1042	342
85°	72	290	582	794	878	82
90°	2	228	514	720	802	5
95°	10	188	454	650	730	11
105°	36	152	358	532	602	38
115°	72	146	298	434	492	71
125°	104	152	260	358	402	93
135°	132	162	234	300	328	101
145°	140	160	212	258	274	88
155°	142	166	182	220	232	67
165°	168	178	172	172	194	47
175°	186	184	176	146	98	18
180°	162	162	162	162	162	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2105.7	2103.7	2107.7	2111.7	2123.7	2107.7	2115.7	2093.7	2095.7	2097.7	2087.7
5°	2099.7	2093.7	2099.7	2103.7	2113.7	2101.7	2109.7	2085.7	2087.7	2091.7	2079.7
7.5°	2085.7	2079.7	2083.7	2087.7	2097.7	2085.7	2095.7	2071.7	2075.7	2077.7	2067.7
10°	2065.7	2057.7	2061.7	2067.7	2075.7	2065.7	2073.7	2051.7	2053.7	2057.7	2047.7
12.5°	2039.7	2031.7	2035.7	2039.7	2049.7	2039.7	2047.7	2025.7	2029.7	2033.7	2023.7
15°	2005.7	1997.7	2001.7	2005.7	2013.7	2007.7	2015.7	1993.7	1997.7	2005.7	1995.7
17.5°	1969.7	1957.7	1961.7	1967.7	1975.7	1971.7	1977.7	1959.7	1961.7	1969.7	1959.7
20°	1925.7	1913.7	1917.7	1923.7	1931.7	1929.7	1933.7	1917.7	1921.7	1931.7	1921.7
22.5°	1877.8	1865.8	1869.8	1877.8	1883.8	1883.8	1885.8	1873.8	1877.8	1887.8	1879.8
25°	1825.8	1813.8	1817.8	1825.8	1831.8	1831.8	1835.8	1823.8	1829.8	1839.8	1831.8
27.5°	1765.8	1759.8	1759.8	1767.8	1771.8	1775.8	1777.8	1767.8	1775.8	1785.8	1779.8
30°	1703.8	1695.8	1699.8	1709.8	1709.8	1717.8	1717.8	1709.8	1719.8	1731.8	1727.8
32.5°	1637.8	1631.8	1633.8	1645.8	1645.8	1655.8	1653.8	1649.8	1659.8	1673.8	1669.8
35°	1571.8	1565.8	1567.8	1579.8	1579.8	1591.8	1587.8	1587.8	1597.8	1613.8	1609.8
37.5°	1501.8	1497.8	1499.8	1511.8	1511.8	1523.8	1519.8	1521.8	1533.8	1551.8	1549.8
40°	1429.8	1425.8	1429.8	1439.8	1443.8	1453.8	1449.8	1453.8	1469.8	1485.8	1491.8
42.5°	1355.8	1353.8	1357.8	1367.8	1371.8	1381.8	1379.8	1385.8	1401.8	1425.8	1433.8
45°	1279.8	1279.8	1283.8	1293.8	1297.8	1309.8	1307.8	1315.8	1335.8	1361.8	1375.8
47.5°	1203.8	1205.8	1207.8	1219.8	1219.8	1239.8	1233.8	1245.8	1271.8	1301.8	1317.8
50°	1125.9	1129.9	1131.9	1141.9	1145.8	1163.8	1159.8	1179.8	1207.8	1239.8	1261.8
52.5°	1047.9	1051.9	1055.9	1063.9	1067.9	1089.9	1085.9	1111.9	1145.8	1179.8	1203.8
55°	965.9	973.9	975.9	985.9	991.9	1013.9	1013.9	1043.9	1079.9	1117.9	1147.8
57.5°	885.9	893.9	895.9	907.9	915.9	941.9	945.9	979.9	1019.9	1057.9	1093.9
60°	803.9	813.9	815.9	827.9	841.9	869.9	875.9	913.9	957.9	997.9	1039.9
62.5°	721.9	731.9	735.9	747.9	769.9	797.9	807.9	851.9	897.9	941.9	987.9
65°	639.9	649.9	655.9	671.9	697.9	727.9	741.9	787.9	839.9	885.9	933.9
67.5°	557.9	569.9	577.9	597.9	631.9	663.9	677.9	729.9	783.9	833.9	883.9
70°	477.9	489.9	499.9	525.9	565.9	597.9	615.9	671.9	727.9	781.9	837.9
72.5°	399.9	411.9	425.9	457.9	501.9	537.9	557.9	615.9	677.9	731.9	789.9
75°	320.0	334.0	350.0	393.9	443.9	479.9	501.9	563.9	627.9	681.9	743.9
77.5°	248.0	262.0	286.0	330.0	385.9	425.9	449.9	515.9	581.9	635.9	699.9
80°	182.0	196.0	228.0	276.0	334.0	372.0	401.9	469.9	537.9	593.9	657.9
82.5°	124.0	138.0	176.0	228.0	290.0	328.0	356.0	427.9	495.9	553.9	617.9
85°	72.0	92.0	132.0	188.0	252.0	290.0	318.0	391.9	457.9	515.9	581.9
87.5°	32.0	56.0	100.0	156.0	220.0	256.0	286.0	354.0	423.9	481.9	547.9
90°	2.0	32.0	78.0	132.0	194.0	228.0	256.0	324.0	389.9	449.9	513.9
92.5°	4.0	22.0	64.0	114.0	172.0	206.0	234.0	298.0	360.0	421.9	483.9
95°	10.0	22.0	56.0	102.0	156.0	188.0	214.0	276.0	334.0	393.9	453.9
97.5°	16.0	24.0	54.0	96.0	144.0	174.0	198.0	256.0	314.0	368.0	427.9
100°	22.0	30.0	54.0	92.0	136.0	164.0	186.0	240.0	294.0	344.0	403.9
102.5°	28.0	36.0	58.0	92.0	132.0	156.0	178.0	228.0	278.0	324.0	380.0
105°	36.0	42.0	62.0	92.0	128.0	152.0	170.0	216.0	264.0	308.0	358.0
107.5°	44.0	48.0	66.0	94.0	128.0	148.0	166.0	208.0	252.0	292.0	340.0
110°	54.0	56.0	72.0	98.0	128.0	146.0	162.0	202.0	242.0	280.0	324.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	62.0	62.0	78.0	102.0	128.0	146.0	160.0	196.0	234.0	268.0	310.0
115°	72.0	72.0	84.0	106.0	130.0	146.0	160.0	194.0	228.0	258.0	298.0
117.5°	80.0	80.0	92.0	110.0	134.0	148.0	160.0	190.0	222.0	250.0	286.0
120°	88.0	88.0	96.0	114.0	136.0	150.0	160.0	188.0	216.0	244.0	276.0
122.5°	96.0	96.0	102.0	120.0	138.0	150.0	160.0	186.0	212.0	236.0	266.0
125°	104.0	104.0	108.0	124.0	142.0	152.0	162.0	186.0	210.0	230.0	260.0
127.5°	112.0	110.0	116.0	130.0	144.0	154.0	164.0	186.0	206.0	226.0	252.0
130°	118.0	116.0	124.0	134.0	148.0	156.0	164.0	184.0	204.0	222.0	244.0
132.5°	126.0	122.0	132.0	136.0	152.0	160.0	166.0	184.0	202.0	218.0	240.0
135°	132.0	128.0	138.0	142.0	154.0	162.0	168.0	184.0	200.0	216.0	234.0
137.5°	136.0	134.0	144.0	148.0	156.0	164.0	170.0	184.0	198.0	212.0	230.0
140°	138.0	136.0	144.0	152.0	156.0	164.0	168.0	182.0	196.0	208.0	224.0
142.5°	140.0	140.0	146.0	154.0	156.0	162.0	168.0	180.0	192.0	202.0	220.0
145°	140.0	140.0	146.0	156.0	158.0	160.0	164.0	176.0	186.0	196.0	212.0
147.5°	140.0	140.0	148.0	156.0	160.0	162.0	160.0	172.0	182.0	190.0	204.0
150°	140.0	140.0	148.0	156.0	162.0	164.0	162.0	168.0	176.0	184.0	196.0
152.5°	142.0	142.0	148.0	156.0	162.0	164.0	164.0	164.0	170.0	178.0	190.0
155°	142.0	144.0	148.0	160.0	164.0	166.0	166.0	166.0	164.0	172.0	182.0
157.5°	148.0	150.0	152.0	162.0	166.0	168.0	168.0	168.0	166.0	164.0	174.0
160°	154.0	156.0	158.0	166.0	170.0	172.0	172.0	172.0	168.0	166.0	166.0
162.5°	160.0	164.0	164.0	168.0	172.0	174.0	174.0	176.0	172.0	170.0	168.0
165°	168.0	170.0	170.0	172.0	176.0	178.0	176.0	178.0	176.0	174.0	172.0
167.5°	174.0	176.0	176.0	178.0	178.0	180.0	180.0	180.0	178.0	176.0	176.0
170°	180.0	182.0	182.0	182.0	182.0	182.0	182.0	182.0	180.0	176.0	176.0
172.5°	184.0	186.0	186.0	184.0	184.0	184.0	184.0	182.0	178.0	176.0	176.0
175°	186.0	188.0	188.0	186.0	184.0	184.0	184.0	182.0	178.0	176.0	176.0
177.5°	188.0	190.0	188.0	188.0	184.0	184.0	184.0	184.0	180.0	178.0	176.0
180°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2099.7	2075.7	2091.7	2093.7	2101.7	2093.7	2099.7	2093.7	2109.7	2103.7
5°	2091.7	2069.7	2083.7	2085.7	2095.7	2085.7	2095.7	2091.7	2111.7	2105.7
7.5°	2077.7	2059.7	2071.7	2073.7	2085.7	2075.7	2085.7	2081.7	2105.7	2097.7
10°	2057.7	2043.7	2055.7	2057.7	2069.7	2059.7	2067.7	2063.7	2089.7	2077.7
12.5°	2035.7	2023.7	2033.7	2035.7	2049.7	2039.7	2049.7	2045.7	2071.7	2059.7
15°	2003.7	1997.7	2007.7	2011.7	2025.7	2017.7	2027.7	2023.7	2051.7	2035.7
17.5°	1971.7	1967.7	1977.7	1981.7	1997.7	1987.7	1997.7	1993.7	2021.7	2005.7
20°	1931.7	1929.7	1939.7	1945.7	1959.7	1949.7	1961.7	1957.7	1987.7	1971.7
22.5°	1889.8	1889.8	1897.8	1903.8	1917.7	1909.7	1921.7	1919.7	1949.7	1933.7
25°	1843.8	1845.8	1853.8	1861.8	1877.8	1871.8	1881.8	1881.8	1909.7	1889.8
27.5°	1791.8	1801.8	1807.8	1817.8	1831.8	1825.8	1835.8	1837.8	1865.8	1845.8
30°	1737.8	1751.8	1757.8	1769.8	1781.8	1781.8	1791.8	1795.8	1823.8	1803.8
32.5°	1681.8	1697.8	1705.8	1721.8	1737.8	1737.8	1751.8	1757.8	1785.8	1767.8
35°	1625.8	1647.8	1657.8	1677.8	1693.8	1695.8	1709.8	1717.8	1745.8	1727.8
37.5°	1571.8	1599.8	1609.8	1633.8	1647.8	1651.8	1667.8	1677.8	1703.8	1687.8
40°	1515.8	1549.8	1561.8	1587.8	1599.8	1607.8	1623.8	1635.8	1659.8	1645.8
42.5°	1461.8	1499.8	1511.8	1539.8	1553.8	1561.8	1577.8	1593.8	1617.8	1603.8
45°	1407.8	1449.8	1463.8	1493.8	1505.8	1517.8	1535.8	1549.8	1571.8	1559.8
47.5°	1355.8	1399.8	1413.8	1445.8	1459.8	1473.8	1489.8	1509.8	1529.8	1517.8
50°	1301.8	1347.8	1365.8	1399.8	1411.8	1427.8	1447.8	1465.8	1485.8	1475.8
52.5°	1249.8	1297.8	1315.8	1351.8	1365.8	1381.8	1401.8	1421.8	1439.8	1431.8
55°	1193.8	1245.8	1265.8	1303.8	1317.8	1333.8	1355.8	1377.8	1393.8	1387.8
57.5°	1141.9	1195.8	1215.8	1257.8	1269.8	1289.8	1311.8	1335.8	1349.8	1343.8
60°	1089.9	1143.8	1167.8	1209.8	1223.8	1243.8	1265.8	1291.8	1303.8	1299.8
62.5°	1037.9	1093.9	1119.9	1163.8	1175.8	1197.8	1223.8	1245.8	1257.8	1255.8
65°	989.9	1043.9	1073.9	1117.9	1129.9	1153.8	1177.8	1201.8	1213.8	1213.8
67.5°	939.9	997.9	1027.9	1073.9	1083.9	1109.9	1135.9	1159.8	1169.8	1169.8
70°	893.9	949.9	983.9	1029.9	1039.9	1063.9	1091.9	1117.9	1125.9	1127.9
72.5°	847.9	903.9	939.9	987.9	997.9	1021.9	1047.9	1075.9	1081.9	1083.9
75°	803.9	859.9	895.9	943.9	953.9	977.9	1005.9	1031.9	1039.9	1041.9
77.5°	759.9	815.9	855.9	901.9	911.9	935.9	963.9	989.9	995.9	999.9
80°	719.9	773.9	811.9	861.9	871.9	895.9	921.9	947.9	951.9	957.9
82.5°	679.9	733.9	773.9	821.9	831.9	855.9	881.9	907.9	911.9	919.9
85°	641.9	695.9	735.9	781.9	793.9	815.9	843.9	867.9	871.9	877.9
87.5°	607.9	657.9	699.9	743.9	755.9	777.9	805.9	829.9	831.9	839.9
90°	571.9	621.9	663.9	707.9	719.9	739.9	767.9	791.9	795.9	801.9
92.5°	541.9	587.9	631.9	673.9	683.9	705.9	731.9	755.9	759.9	765.9
95°	509.9	555.9	599.9	639.9	649.9	671.9	695.9	719.9	723.9	729.9
97.5°	481.9	525.9	567.9	607.9	617.9	637.9	663.9	685.9	689.9	697.9
100°	455.9	497.9	541.9	577.9	587.9	607.9	631.9	653.9	657.9	665.9
102.5°	431.9	471.9	513.9	547.9	559.9	577.9	601.9	621.9	625.9	631.9
105°	409.9	447.9	487.9	519.9	531.9	549.9	571.9	591.9	595.9	601.9
107.5°	387.9	423.9	461.9	493.9	503.9	519.9	541.9	561.9	565.9	573.9
110°	368.0	403.9	439.9	469.9	481.9	493.9	515.9	533.9	537.9	543.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	350.0	381.9	417.9	445.9	455.9	469.9	487.9	505.9	509.9	517.9
115°	334.0	364.0	399.9	425.9	433.9	445.9	465.9	481.9	485.9	491.9
117.5°	320.0	346.0	378.0	403.9	413.9	423.9	441.9	455.9	461.9	465.9
120°	308.0	332.0	360.0	383.9	395.9	403.9	419.9	433.9	439.9	443.9
122.5°	296.0	318.0	344.0	366.0	376.0	381.9	399.9	411.9	417.9	423.9
125°	286.0	306.0	330.0	348.0	358.0	364.0	380.0	391.9	397.9	401.9
127.5°	276.0	294.0	318.0	332.0	342.0	346.0	360.0	372.0	378.0	380.0
130°	266.0	284.0	304.0	318.0	326.0	332.0	344.0	352.0	358.0	360.0
132.5°	258.0	274.0	292.0	306.0	314.0	316.0	328.0	336.0	342.0	344.0
135°	252.0	264.0	282.0	294.0	300.0	304.0	314.0	320.0	326.0	328.0
137.5°	244.0	256.0	272.0	280.0	288.0	290.0	300.0	306.0	312.0	314.0
140°	238.0	248.0	262.0	270.0	278.0	278.0	286.0	292.0	298.0	298.0
142.5°	232.0	242.0	254.0	262.0	268.0	268.0	276.0	280.0	286.0	286.0
145°	224.0	234.0	246.0	252.0	258.0	258.0	264.0	268.0	274.0	274.0
147.5°	216.0	226.0	238.0	242.0	248.0	248.0	254.0	258.0	262.0	262.0
150°	206.0	214.0	228.0	234.0	240.0	240.0	244.0	248.0	252.0	252.0
152.5°	198.0	204.0	216.0	224.0	230.0	230.0	234.0	238.0	242.0	242.0
155°	188.0	194.0	204.0	214.0	220.0	222.0	226.0	228.0	232.0	232.0
157.5°	180.0	186.0	194.0	202.0	208.0	212.0	218.0	220.0	222.0	222.0
160°	170.0	174.0	182.0	190.0	196.0	200.0	210.0	212.0	214.0	214.0
162.5°	166.0	166.0	170.0	176.0	182.0	184.0	194.0	202.0	206.0	204.0
165°	168.0	166.0	166.0	168.0	172.0	174.0	180.0	192.0	196.0	194.0
167.5°	172.0	168.0	166.0	166.0	170.0	170.0	176.0	186.0	198.0	194.0
170°	172.0	166.0	162.0	162.0	164.0	164.0	168.0	174.0	186.0	188.0
172.5°	170.0	166.0	160.0	152.0	154.0	152.0	150.0	154.0	156.0	176.0
175°	172.0	166.0	160.0	150.0	146.0	140.0	130.0	122.0	120.0	98.0
177.5°	170.0	164.0	156.0	148.0	144.0	136.0	124.0	110.0	102.0	90.0
180°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0



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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	13.94	15.25	14.58	15.91	16.68	17.56	18.87	18.20	19.54	20.30
	3H	15.28	16.48	15.94	17.16	17.96	20.51	21.71	21.17	22.39	23.19
	4H	15.69	16.83	16.36	17.51	18.33	22.02	23.16	22.69	23.85	24.66
	6H	15.90	16.96	16.59	17.66	18.49	23.63	24.69	24.32	25.39	26.22
	8H	15.93	16.95	16.63	17.67	18.50	24.48	25.50	25.18	26.22	27.05
	12H	15.94	16.91	16.64	17.63	18.49	25.43	26.40	26.13	27.11	27.98
4H	2H	15.09	16.23	15.77	16.92	17.73	17.87	19.01	18.55	19.70	20.51
	3H	16.73	17.71	17.42	18.43	19.27	21.06	22.04	21.75	22.76	23.59
	4H	17.30	18.20	18.01	18.93	19.79	22.74	23.64	23.44	24.36	25.23
	6H	17.64	18.44	18.36	19.19	20.06	24.56	25.36	25.28	26.11	26.97
	8H	17.72	18.47	18.44	19.21	20.10	25.53	26.28	26.26	27.03	27.91
	12H	17.74	18.43	18.49	19.20	20.09	26.62	27.30	27.37	28.07	28.96
8H	4H	18.41	19.16	19.13	19.91	20.79	22.91	23.66	23.63	24.41	25.29
	6H	19.02	19.66	19.77	20.45	21.33	24.90	25.55	25.66	26.33	27.22
	8H	19.21	19.79	19.98	20.58	21.48	26.02	26.60	26.79	27.39	28.29
	12H	19.33	19.84	20.10	20.62	21.58	27.30	27.82	28.07	28.60	29.55
12H	4H	18.77	19.46	19.52	20.23	21.12	22.90	23.59	23.65	24.36	25.25
	6H	19.55	20.13	20.32	20.92	21.82	24.93	25.51	25.70	26.30	27.20
	8H	19.88	20.40	20.65	21.18	22.13	26.11	26.63	26.88	27.41	28.37