

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: P895221

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

Issue Date: 11/11/2024

**Test Information**

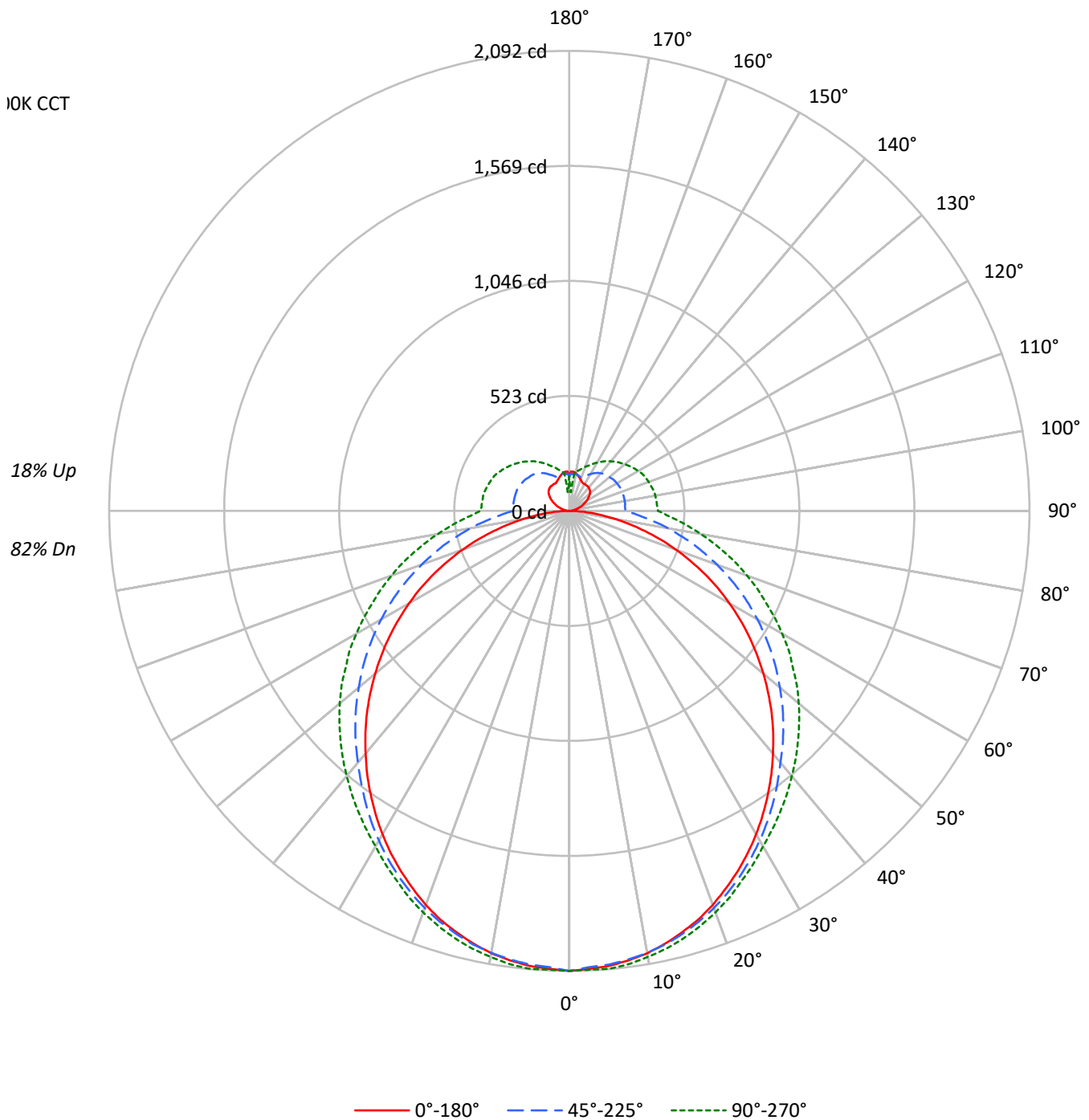
Test Method: LM-79-2019  
Report Number: P895221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-FLTU-UNV-L830  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 300  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7909.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 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<sub>in</sub>): 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

TEST NUMBER: P895221  
CATALOG NUMBER: 8TMB-8SL-FLTU-UNV-L830

### 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°	7423	7423	7423
5°	7380	7123	7104
10°	7325	6861	6767
15°	7234	6595	6444
20°	7132	6323	6117
25°	6998	6038	5785
30°	6855	5745	5483
35°	6697	5452	5233
40°	6529	5162	4995
45°	6363	4910	4769
50°	6168	4648	4549
55°	5959	4392	4303
60°	5707	4116	4069
65°	5408	3825	3805
70°	5012	3504	3560
75°	4463	3176	3294
80°	3741	2825	3023
85°	2816	2469	2773

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6363 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.8	2.5
10°-20°	564.3	7.1
20°-30°	847.8	10.7
30°-40°	1017.9	12.9
40°-50°	1070.4	13.5
50°-60°	1005.7	12.7
60°-70°	836.3	10.6
70°-80°	596.8	7.5
80°-90°	355.2	4.5
90°-100°	257.1	3.3
100°-110°	253.7	3.2
110°-120°	238.3	3.0
120°-130°	211.2	2.7
130°-140°	175.0	2.2
140°-150°	131.0	1.7
150°-160°	86.1	1.1
160°-170°	48.9	0.6
170°-180°	15.6	0.2
0°-30°	1609.8	20.4
0°-40°	2627.8	33.2
0°-60°	4703.9	59.5
0°-90°	6492.1	82.1
90°-120°	749.1	9.5
90°-150°	1266.3	16.0
90°-180°	1417.0	17.9
0°-180°	7909.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2077	2102	2071	2077	2090	197
15°	1983	2014	1991	2004	2012	559
25°	1809	1844	1834	1851	1855	833
35°	1574	1611	1616	1656	1672	985
45°	1301	1337	1376	1446	1471	1003
55°	999	1039	1122	1213	1240	893
65°	680	736	852	959	986	673
75°	357	438	583	695	732	380
85°	90	197	342	457	495	98
90°	0	113	254	365	403	6
95°	10	118	254	361	399	11
105°	36	132	256	357	392	39
115°	71	143	254	342	376	71
125°	107	153	246	321	346	95
135°	132	160	233	292	313	102
145°	140	157	210	260	275	88
155°	141	159	178	220	233	66
165°	162	172	166	168	195	46
175°	180	178	168	143	86	17
180°	157	157	157	157	157	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1
2.5°	2084.4	2090.2	2092.1	2111.2	2103.5	2111.2	2097.8	2082.5	2078.7	2088.2	2076.8
5°	2076.8	2082.5	2084.4	2103.5	2095.9	2101.6	2090.2	2074.9	2071.0	2082.5	2071.0
7.5°	2061.5	2067.2	2069.1	2090.2	2080.6	2088.2	2074.9	2059.6	2057.7	2069.1	2057.7
10°	2042.4	2048.1	2050.0	2069.1	2061.5	2069.1	2055.8	2040.5	2038.6	2051.9	2040.5
12.5°	2015.6	2021.4	2025.2	2044.3	2034.7	2044.3	2029.0	2013.7	2015.6	2027.1	2019.5
15°	1983.2	1990.8	1992.7	2011.8	2004.2	2013.7	1998.4	1983.2	1987.0	1998.4	1990.8
17.5°	1948.8	1956.4	1958.3	1975.5	1967.9	1979.3	1962.1	1948.8	1952.6	1964.1	1958.3
20°	1906.7	1914.4	1918.2	1935.4	1927.8	1939.2	1922.0	1910.6	1914.4	1927.8	1922.0
22.5°	1859.0	1870.4	1872.3	1891.5	1881.9	1893.4	1876.2	1866.6	1872.3	1885.7	1880.0
25°	1809.3	1820.8	1822.7	1841.8	1834.1	1843.7	1826.5	1816.9	1824.6	1838.0	1834.1
27.5°	1755.8	1767.3	1771.1	1788.3	1780.6	1792.1	1773.0	1767.3	1774.9	1788.3	1784.5
30°	1698.5	1710.0	1711.9	1729.1	1723.3	1734.8	1717.6	1710.0	1721.4	1734.8	1731.0
32.5°	1637.4	1648.8	1654.5	1669.8	1664.1	1673.7	1658.4	1654.5	1664.1	1677.5	1675.6
35°	1574.3	1585.8	1591.5	1608.7	1601.1	1610.6	1595.3	1591.5	1606.8	1616.3	1616.3
37.5°	1509.3	1520.8	1526.5	1543.7	1534.2	1545.6	1530.4	1528.4	1545.6	1555.2	1555.2
40°	1440.6	1453.9	1459.7	1475.0	1467.3	1476.9	1463.5	1465.4	1480.7	1492.1	1494.1
42.5°	1371.8	1385.2	1390.9	1408.1	1398.5	1408.1	1396.6	1398.5	1415.7	1427.2	1436.7
45°	1301.1	1312.6	1318.3	1337.4	1325.9	1337.4	1325.9	1329.8	1346.9	1364.1	1375.6
47.5°	1226.6	1238.0	1247.6	1262.9	1253.3	1262.9	1255.2	1261.0	1282.0	1299.2	1314.5
50°	1152.1	1163.5	1173.1	1186.5	1176.9	1190.3	1180.7	1188.4	1215.1	1232.3	1249.5
52.5°	1075.6	1085.2	1100.5	1108.1	1100.5	1115.8	1108.1	1119.6	1146.3	1167.4	1186.5
55°	999.2	1008.8	1024.1	1029.8	1022.2	1039.3	1033.6	1048.9	1077.6	1100.5	1121.5
57.5°	920.9	930.4	943.8	949.5	943.8	962.9	961.0	978.2	1006.9	1031.7	1054.6
60°	840.6	850.2	861.7	867.4	867.4	886.5	886.5	907.5	938.1	961.0	987.8
62.5°	762.3	768.0	779.5	787.2	792.9	812.0	812.0	834.9	867.4	894.1	920.9
65°	680.2	685.9	695.4	705.0	714.5	735.6	737.5	762.3	794.8	821.5	852.1
67.5°	598.0	603.7	613.3	624.8	638.1	659.1	663.0	689.7	724.1	754.7	783.3
70°	517.8	519.7	531.1	546.4	561.7	582.7	588.5	617.1	653.4	684.0	714.5
72.5°	437.5	439.4	450.9	470.0	487.2	510.1	517.8	548.3	584.6	615.2	645.8
75°	357.3	359.2	374.5	397.4	416.5	437.5	447.1	479.6	515.9	548.3	582.7
77.5°	280.9	284.7	300.0	322.9	345.8	370.6	380.2	412.7	452.8	483.4	515.9
80°	210.2	214.0	231.2	256.0	280.9	303.8	315.2	347.7	389.8	420.3	456.6
82.5°	145.2	150.9	172.0	198.7	223.5	248.4	259.8	290.4	328.6	363.0	397.4
85°	89.8	97.4	118.5	147.1	173.9	196.8	208.3	240.7	277.0	309.5	342.0
87.5°	42.0	53.5	74.5	103.2	131.8	150.9	164.3	196.8	231.2	263.7	296.1
90°	0.0	17.2	38.2	66.9	95.5	112.7	128.0	158.6	193.0	223.5	254.1
92.5°	3.8	19.1	42.0	68.8	97.4	114.6	129.9	160.5	193.0	223.5	254.1
95°	9.6	21.0	43.9	72.6	101.3	118.5	131.8	162.4	194.9	225.4	254.1
97.5°	17.2	26.7	49.7	76.4	105.1	120.4	135.6	166.2	196.8	227.4	256.0
100°	22.9	30.6	53.5	80.2	108.9	124.2	139.5	168.1	198.7	229.3	256.0
102.5°	28.7	38.2	59.2	84.1	112.7	128.0	141.4	170.0	200.6	229.3	256.0
105°	36.3	43.9	63.0	89.8	116.5	131.8	145.2	173.9	202.5	231.2	256.0
107.5°	43.9	49.7	68.8	93.6	120.4	133.7	147.1	175.8	204.4	231.2	256.0
110°	53.5	57.3	74.5	97.4	122.3	137.6	150.9	177.7	204.4	231.2	256.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	63.0	63.0	80.2	101.3	126.1	139.5	152.8	179.6	206.3	231.2	256.0
115°	70.7	72.6	86.0	105.1	129.9	143.3	154.8	179.6	206.3	231.2	254.1
117.5°	80.2	80.2	93.6	108.9	131.8	145.2	158.6	181.5	206.3	229.3	252.2
120°	89.8	87.9	99.3	114.6	135.6	147.1	160.5	183.4	206.3	229.3	250.3
122.5°	99.3	95.5	103.2	118.5	137.6	150.9	160.5	183.4	206.3	227.4	248.4
125°	107.0	103.2	108.9	124.2	141.4	152.8	162.4	183.4	206.3	225.4	246.5
127.5°	114.6	110.8	116.5	128.0	143.3	152.8	164.3	183.4	206.3	223.5	242.6
130°	122.3	116.5	124.2	131.8	147.1	154.8	164.3	183.4	204.4	221.6	238.8
132.5°	128.0	122.3	129.9	135.6	149.0	156.7	166.2	183.4	202.5	219.7	236.9
135°	131.8	126.1	135.6	139.5	152.8	160.5	168.1	183.4	200.6	217.8	233.1
137.5°	135.6	128.0	139.5	143.3	154.8	162.4	168.1	181.5	198.7	214.0	229.3
140°	137.6	131.8	143.3	147.1	152.8	160.5	168.1	179.6	194.9	210.2	223.5
142.5°	139.5	131.8	145.2	149.0	152.8	158.6	166.2	175.8	191.1	204.4	217.8
145°	139.5	133.7	145.2	149.0	152.8	156.7	162.4	173.9	185.3	196.8	210.2
147.5°	139.5	135.6	147.1	150.9	154.8	154.8	158.6	170.0	179.6	191.1	202.5
150°	141.4	135.6	147.1	150.9	156.7	156.7	158.6	164.3	175.8	183.4	193.0
152.5°	139.5	137.6	145.2	152.8	156.7	158.6	158.6	160.5	170.0	177.7	185.3
155°	141.4	141.4	147.1	156.7	158.6	158.6	160.5	158.6	162.4	170.0	177.7
157.5°	145.2	149.0	149.0	158.6	162.4	162.4	164.3	162.4	160.5	162.4	170.0
160°	150.9	154.8	154.8	160.5	166.2	166.2	168.1	166.2	164.3	162.4	162.4
162.5°	156.7	160.5	160.5	162.4	168.1	170.0	172.0	170.0	168.1	164.3	162.4
165°	162.4	166.2	166.2	166.2	170.0	172.0	173.9	172.0	172.0	168.1	166.2
167.5°	168.1	172.0	172.0	170.0	172.0	173.9	175.8	173.9	173.9	172.0	168.1
170°	173.9	177.7	177.7	173.9	175.8	175.8	177.7	175.8	175.8	172.0	170.0
172.5°	177.7	181.5	179.6	177.7	177.7	177.7	177.7	175.8	173.9	170.0	170.0
175°	179.6	183.4	183.4	179.6	177.7	177.7	179.6	175.8	173.9	172.0	168.1
177.5°	179.6	183.4	183.4	179.6	179.6	177.7	179.6	177.7	177.7	173.9	170.0
180°	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1	2092.1
2.5°	2084.4	2082.5	2071.0	2084.4	2084.4	2080.6	2095.9	2094.0	2092.1	2088.2
5°	2076.8	2074.9	2063.4	2076.8	2076.8	2074.9	2090.2	2092.1	2094.0	2090.2
7.5°	2065.3	2063.4	2051.9	2065.3	2065.3	2063.4	2080.6	2082.5	2084.4	2078.7
10°	2048.1	2046.2	2034.7	2048.1	2050.0	2048.1	2061.5	2063.4	2067.2	2059.6
12.5°	2025.2	2025.2	2013.7	2027.1	2029.0	2027.1	2040.5	2044.3	2048.1	2038.6
15°	1996.5	1998.4	1988.9	2002.3	2004.2	2004.2	2017.6	2019.5	2025.2	2011.8
17.5°	1962.1	1966.0	1958.3	1971.7	1973.6	1975.5	1983.2	1988.9	1994.6	1979.3
20°	1925.8	1927.8	1922.0	1933.5	1937.3	1935.4	1945.0	1952.6	1958.3	1943.0
22.5°	1881.9	1883.8	1878.1	1889.5	1893.4	1895.3	1902.9	1912.5	1916.3	1902.9
25°	1832.2	1839.9	1836.0	1847.5	1851.3	1851.3	1859.0	1868.5	1874.3	1855.2
27.5°	1784.5	1794.0	1790.2	1801.7	1805.5	1807.4	1811.2	1822.7	1828.4	1811.2
30°	1731.0	1742.4	1740.5	1752.0	1755.8	1753.9	1761.5	1773.0	1780.6	1761.5
32.5°	1671.7	1687.0	1685.1	1700.4	1704.2	1706.1	1711.9	1727.1	1734.8	1717.6
35°	1614.4	1631.6	1633.5	1650.7	1656.5	1658.4	1666.0	1681.3	1688.9	1671.7
37.5°	1555.2	1578.1	1583.9	1601.1	1606.8	1608.7	1616.3	1633.5	1641.2	1624.0
40°	1497.9	1524.6	1532.3	1547.6	1553.3	1559.0	1564.7	1581.9	1591.5	1574.3
42.5°	1440.6	1469.2	1478.8	1494.1	1499.8	1505.5	1513.2	1532.3	1539.9	1524.6
45°	1381.3	1411.9	1423.4	1438.7	1446.3	1452.0	1459.7	1476.9	1486.4	1471.1
47.5°	1322.1	1352.7	1364.1	1381.3	1389.0	1396.6	1402.4	1423.4	1432.9	1417.6
50°	1259.1	1293.4	1306.8	1322.1	1333.6	1339.3	1346.9	1366.1	1375.6	1362.2
52.5°	1196.0	1232.3	1247.6	1262.9	1274.3	1283.9	1287.7	1308.7	1318.3	1304.9
55°	1131.1	1167.4	1184.5	1201.7	1213.2	1224.7	1228.5	1249.5	1259.1	1240.0
57.5°	1066.1	1104.3	1121.5	1140.6	1150.2	1163.5	1169.3	1188.4	1197.9	1184.5
60°	1001.1	1037.4	1058.5	1075.6	1089.0	1100.5	1104.3	1125.3	1134.9	1117.7
62.5°	934.3	972.5	993.5	1012.6	1024.1	1037.4	1043.2	1062.3	1069.9	1052.7
65°	865.5	903.7	926.6	943.8	959.1	970.6	974.4	995.4	1003.0	985.8
67.5°	796.7	834.9	859.8	878.9	892.2	905.6	909.4	930.4	938.1	924.7
70°	729.8	768.0	792.9	815.8	825.4	838.7	844.5	863.6	871.2	859.8
72.5°	663.0	701.2	727.9	750.9	760.4	773.8	781.4	796.7	808.2	798.6
75°	598.0	636.2	663.0	685.9	695.4	708.8	716.5	731.7	739.4	731.7
77.5°	535.0	573.2	598.0	620.9	632.4	643.9	651.5	666.8	676.3	668.7
80°	473.8	512.0	536.9	557.9	569.3	580.8	588.5	605.6	613.3	607.6
82.5°	416.5	452.8	479.6	500.6	512.0	523.5	531.1	546.4	556.0	548.3
85°	364.9	401.2	426.1	447.1	456.6	468.1	475.7	491.0	498.7	494.8
87.5°	315.2	347.7	376.4	397.4	406.9	418.4	428.0	439.4	449.0	443.3
90°	277.0	305.7	332.4	353.5	364.9	376.4	387.8	399.3	406.9	403.1
92.5°	278.9	305.7	330.5	349.6	361.1	372.6	384.0	397.4	403.1	399.3
95°	278.9	305.7	330.5	349.6	361.1	372.6	384.0	397.4	403.1	399.3
97.5°	278.9	305.7	330.5	349.6	361.1	372.6	384.0	397.4	403.1	397.4
100°	278.9	305.7	330.5	349.6	361.1	370.6	382.1	395.5	401.2	397.4
102.5°	278.9	305.7	328.6	347.7	359.2	368.7	380.2	393.6	399.3	395.5
105°	278.9	303.8	328.6	345.8	357.3	366.8	378.3	389.8	395.5	391.7
107.5°	277.0	301.9	324.8	343.9	353.5	363.0	374.5	385.9	391.7	387.8
110°	277.0	300.0	322.9	340.1	349.6	359.2	370.6	382.1	387.8	384.0





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	275.1	298.0	321.0	336.3	345.8	355.4	364.9	378.3	384.0	380.2
115°	273.2	296.1	317.2	332.4	342.0	349.6	361.1	374.5	378.3	376.4
117.5°	271.3	292.3	313.3	328.6	338.2	345.8	355.4	366.8	372.6	370.6
120°	269.4	288.5	309.5	322.9	332.4	340.1	347.7	359.2	364.9	361.1
122.5°	265.6	284.7	305.7	319.1	326.7	334.3	342.0	351.5	357.3	355.4
125°	261.7	280.9	300.0	313.3	321.0	326.7	334.3	343.9	347.7	345.8
127.5°	257.9	277.0	294.2	305.7	315.2	321.0	326.7	336.3	340.1	338.2
130°	254.1	271.3	288.5	300.0	307.6	313.3	319.1	328.6	330.5	330.5
132.5°	250.3	265.6	282.8	294.2	301.9	305.7	311.4	319.1	322.9	321.0
135°	246.5	259.8	277.0	286.6	292.3	298.0	303.8	311.4	313.3	313.3
137.5°	240.7	254.1	269.4	278.9	284.7	288.5	294.2	301.9	303.8	303.8
140°	235.0	248.4	261.7	269.4	277.0	280.9	284.7	292.3	294.2	294.2
142.5°	229.3	240.7	254.1	261.7	269.4	271.3	277.0	282.8	284.7	284.7
145°	221.6	235.0	246.5	254.1	259.8	261.7	267.5	273.2	273.2	275.1
147.5°	212.1	223.5	238.8	244.6	250.3	252.2	257.9	261.7	263.7	263.7
150°	202.5	214.0	227.4	236.9	242.6	244.6	246.5	252.2	252.2	254.1
152.5°	193.0	202.5	215.9	225.4	233.1	235.0	236.9	240.7	240.7	242.6
155°	183.4	191.1	202.5	212.1	219.7	223.5	227.4	231.2	231.2	233.1
157.5°	175.8	183.4	193.0	200.6	206.3	212.1	217.8	221.6	221.6	221.6
160°	166.2	172.0	181.5	187.2	194.9	198.7	208.3	212.1	212.1	214.0
162.5°	160.5	162.4	168.1	173.9	179.6	183.4	193.0	202.5	202.5	204.4
165°	162.4	160.5	162.4	164.3	168.1	170.0	175.8	189.1	193.0	194.9
167.5°	166.2	160.5	160.5	160.5	164.3	164.3	170.0	177.7	191.1	187.2
170°	166.2	160.5	156.7	156.7	158.6	156.7	160.5	166.2	173.9	181.5
172.5°	168.1	162.4	156.7	149.0	150.9	149.0	145.2	145.2	147.1	172.0
175°	166.2	162.4	154.8	145.2	143.3	137.6	126.1	116.5	110.8	86.0
177.5°	164.3	158.6	152.8	145.2	141.4	135.6	122.3	107.0	91.7	87.9
180°	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7	156.7



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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	14.67	15.99	15.29	16.62	17.35	17.30	18.62	17.92	19.25	19.98
	3H	16.08	17.28	16.70	17.92	18.67	19.76	20.96	20.39	21.61	22.36
	4H	16.50	17.64	17.15	18.30	19.06	20.93	22.07	21.58	22.72	23.49
	6H	16.74	17.80	17.40	18.46	19.25	22.11	23.17	22.77	23.83	24.62
	8H	16.78	17.79	17.45	18.48	19.27	22.70	23.71	23.38	24.40	25.19
	12H	16.79	17.76	17.47	18.44	19.26	23.34	24.31	24.02	24.99	25.80
4H	2H	15.57	16.71	16.22	17.37	18.14	17.65	18.78	18.30	19.44	20.21
	3H	17.20	18.16	17.86	18.86	19.65	20.31	21.28	20.97	21.97	22.76
	4H	17.75	18.64	18.43	19.33	20.15	21.62	22.51	22.30	23.21	24.02
	6H	18.09	18.87	18.79	19.59	20.42	22.98	23.76	23.67	24.48	25.30
	8H	18.17	18.90	18.87	19.62	20.46	23.67	24.40	24.37	25.12	25.96
	12H	18.20	18.86	18.92	19.60	20.45	24.42	25.08	25.14	25.82	26.67
8H	4H	18.41	19.15	19.12	19.87	20.71	21.77	22.50	22.48	23.22	24.06
	6H	18.92	19.54	19.65	20.30	21.14	23.27	23.88	24.00	24.64	25.49
	8H	19.07	19.63	19.82	20.39	21.25	24.08	24.63	24.82	25.39	26.25
	12H	19.16	19.66	19.91	20.41	21.33	24.99	25.48	25.74	26.23	27.15
12H	4H	18.59	19.25	19.31	19.99	20.84	21.76	22.43	22.49	23.17	24.02
	6H	19.18	19.74	19.93	20.50	21.36	23.28	23.84	24.03	24.60	25.46
	8H	19.42	19.91	20.17	20.66	21.58	24.14	24.64	24.89	25.39	26.31