

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: P894394

Luminaire Tested: 8TMB-10SL-FLTU-UNV-L935

Issue Date: 11/11/2024

**Test Information**

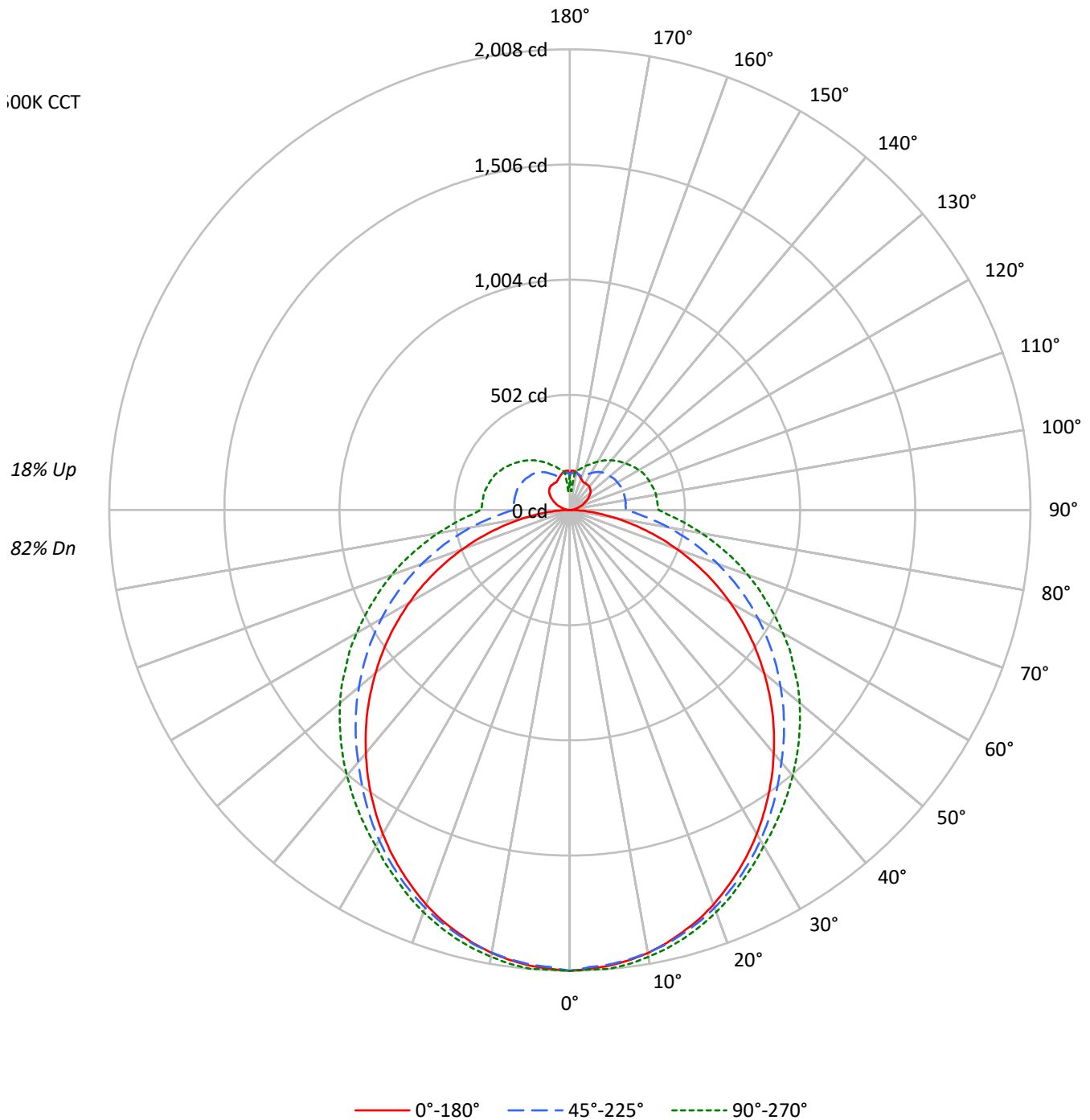
Test Method: LM-79-2019  
Report Number: P894394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-FLTU-UNV-L935  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 35  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7593.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 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): 70  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 5.63  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L935

### 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°	7126	7126	7126
5°	7085	6839	6820
10°	7032	6587	6496
15°	6945	6332	6186
20°	6847	6070	5872
25°	6718	5797	5554
30°	6581	5516	5264
35°	6429	5234	5024
40°	6268	4956	4796
45°	6108	4713	4578
50°	5921	4463	4367
55°	5721	4216	4131
60°	5480	3951	3907
65°	5192	3672	3653
70°	4812	3364	3418
75°	4285	3049	3163
80°	3592	2713	2902
85°	2703	2370	2663

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6108 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	2.5
10°-20°	541.7	7.1
20°-30°	813.9	10.7
30°-40°	977.3	12.9
40°-50°	1027.6	13.5
50°-60°	965.5	12.7
60°-70°	802.9	10.6
70°-80°	572.9	7.5
80°-90°	341.0	4.5
90°-100°	246.9	3.3
100°-110°	243.6	3.2
110°-120°	228.8	3.0
120°-130°	202.7	2.7
130°-140°	168.0	2.2
140°-150°	125.8	1.7
150°-160°	82.7	1.1
160°-170°	46.9	0.6
170°-180°	15.0	0.2
0°-30°	1545.5	20.4
0°-40°	2522.8	33.2
0°-60°	4515.9	59.5
0°-90°	6232.7	82.1
90°-120°	719.2	9.5
90°-150°	1215.7	16.0
90°-180°	1360.0	17.9
0°-180°	7593.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1994	2018	1988	1994	2007	189
15°	1904	1933	1911	1924	1931	537
25°	1737	1770	1761	1777	1781	800
35°	1511	1546	1552	1590	1605	945
45°	1249	1284	1321	1388	1412	963
55°	959	998	1077	1165	1190	857
65°	653	706	818	921	946	646
75°	343	420	559	668	702	364
85°	86	189	328	438	475	94
90°	0	108	244	350	387	6
95°	9	114	244	347	383	10
105°	35	127	246	343	376	37
115°	68	138	244	328	361	68
125°	103	147	237	308	332	92
135°	127	154	224	281	301	98
145°	134	150	202	250	264	84
155°	136	152	171	211	224	63
165°	156	165	160	161	187	44
175°	172	171	161	138	82	16
180°	150	150	150	150	150	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5
2.5°	2001.1	2006.6	2008.5	2026.8	2019.5	2026.8	2014.0	1999.3	1995.6	2004.8	1993.8
5°	1993.8	1999.3	2001.1	2019.5	2012.1	2017.6	2006.6	1992.0	1988.3	1999.3	1988.3
7.5°	1979.1	1984.6	1986.5	2006.6	1997.5	2004.8	1992.0	1977.3	1975.5	1986.5	1975.5
10°	1960.8	1966.3	1968.1	1986.5	1979.1	1986.5	1973.6	1959.0	1957.1	1970.0	1959.0
12.5°	1935.1	1940.6	1944.3	1962.6	1953.5	1962.6	1947.9	1933.3	1935.1	1946.1	1938.8
15°	1903.9	1911.3	1913.1	1931.4	1924.1	1933.3	1918.6	1903.9	1907.6	1918.6	1911.3
17.5°	1870.9	1878.2	1880.1	1896.6	1889.3	1900.3	1883.7	1870.9	1874.6	1885.6	1880.1
20°	1830.6	1837.9	1841.6	1858.1	1850.7	1861.7	1845.2	1834.2	1837.9	1850.7	1845.2
22.5°	1784.7	1795.7	1797.5	1815.9	1806.7	1817.7	1801.2	1792.0	1797.5	1810.4	1804.9
25°	1737.0	1748.0	1749.9	1768.2	1760.9	1770.0	1753.5	1744.3	1751.7	1764.5	1760.9
27.5°	1685.7	1696.7	1700.3	1716.8	1709.5	1720.5	1702.2	1696.7	1704.0	1716.8	1713.2
30°	1630.6	1641.6	1643.5	1660.0	1654.5	1665.5	1649.0	1641.6	1652.6	1665.5	1661.8
32.5°	1571.9	1582.9	1588.4	1603.1	1597.6	1606.8	1592.1	1588.4	1597.6	1610.5	1608.6
35°	1511.4	1522.4	1527.9	1544.4	1537.1	1546.3	1531.6	1527.9	1542.6	1551.8	1551.8
37.5°	1449.0	1460.0	1465.5	1482.1	1472.9	1483.9	1469.2	1467.4	1483.9	1493.1	1493.1
40°	1383.0	1395.8	1401.3	1416.0	1408.7	1417.9	1405.0	1406.9	1421.5	1432.5	1434.4
42.5°	1317.0	1329.8	1335.3	1351.8	1342.7	1351.8	1340.8	1342.7	1359.2	1370.2	1379.3
45°	1249.1	1260.1	1265.6	1284.0	1273.0	1284.0	1273.0	1276.6	1293.1	1309.6	1320.6
47.5°	1177.6	1188.6	1197.7	1212.4	1203.3	1212.4	1205.1	1210.6	1230.8	1247.3	1261.9
50°	1106.0	1117.0	1126.2	1139.1	1129.9	1142.7	1133.6	1140.9	1166.6	1183.1	1199.6
52.5°	1032.7	1041.8	1056.5	1063.9	1056.5	1071.2	1063.9	1074.9	1100.5	1120.7	1139.1
55°	959.3	968.5	983.1	988.6	981.3	997.8	992.3	1007.0	1034.5	1056.5	1076.7
57.5°	884.1	893.3	906.1	911.6	906.1	924.4	922.6	939.1	966.6	990.5	1012.5
60°	807.1	816.2	827.2	832.7	832.7	851.1	851.1	871.3	900.6	922.6	948.3
62.5°	731.9	737.4	748.4	755.7	761.2	779.5	779.5	801.6	832.7	858.4	884.1
65°	653.0	658.5	667.7	676.8	686.0	706.2	708.0	731.9	763.0	788.7	818.1
67.5°	574.1	579.6	588.8	599.8	612.6	632.8	636.5	662.2	695.2	724.5	752.0
70°	497.1	498.9	509.9	524.6	539.3	559.4	564.9	592.5	627.3	656.7	686.0
72.5°	420.0	421.9	432.9	451.2	467.7	489.7	497.1	526.4	561.3	590.6	620.0
75°	343.0	344.8	359.5	381.5	399.9	420.0	429.2	460.4	495.2	526.4	559.4
77.5°	269.6	273.3	288.0	310.0	332.0	355.8	365.0	396.2	434.7	464.1	495.2
80°	201.8	205.4	221.9	245.8	269.6	291.6	302.6	333.8	374.2	403.5	438.4
82.5°	139.4	144.9	165.1	190.8	214.6	238.4	249.5	278.8	315.5	348.5	381.5
85°	86.2	93.5	113.7	141.2	166.9	188.9	199.9	231.1	266.0	297.1	328.3
87.5°	40.4	51.4	71.5	99.0	126.6	144.9	157.7	188.9	221.9	253.1	284.3
90°	0.0	16.5	36.7	64.2	91.7	108.2	122.9	152.2	185.3	214.6	244.0
92.5°	3.7	18.3	40.4	66.0	93.5	110.1	124.7	154.1	185.3	214.6	244.0
95°	9.2	20.2	42.2	69.7	97.2	113.7	126.6	155.9	187.1	216.4	244.0
97.5°	16.5	25.7	47.7	73.4	100.9	115.6	130.2	159.6	188.9	218.3	245.8
100°	22.0	29.3	51.4	77.0	104.6	119.2	133.9	161.4	190.8	220.1	245.8
102.5°	27.5	36.7	56.9	80.7	108.2	122.9	135.7	163.2	192.6	220.1	245.8
105°	34.9	42.2	60.5	86.2	111.9	126.6	139.4	166.9	194.4	221.9	245.8
107.5°	42.2	47.7	66.0	89.9	115.6	128.4	141.2	168.7	196.3	221.9	245.8
110°	51.4	55.0	71.5	93.5	117.4	132.1	144.9	170.6	196.3	221.9	245.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	60.5	60.5	77.0	97.2	121.1	133.9	146.7	172.4	198.1	221.9	245.8
115°	67.9	69.7	82.5	100.9	124.7	137.6	148.6	172.4	198.1	221.9	244.0
117.5°	77.0	77.0	89.9	104.6	126.6	139.4	152.2	174.3	198.1	220.1	242.1
120°	86.2	84.4	95.4	110.1	130.2	141.2	154.1	176.1	198.1	220.1	240.3
122.5°	95.4	91.7	99.0	113.7	132.1	144.9	154.1	176.1	198.1	218.3	238.4
125°	102.7	99.0	104.6	119.2	135.7	146.7	155.9	176.1	198.1	216.4	236.6
127.5°	110.1	106.4	111.9	122.9	137.6	146.7	157.7	176.1	198.1	214.6	232.9
130°	117.4	111.9	119.2	126.6	141.2	148.6	157.7	176.1	196.3	212.8	229.3
132.5°	122.9	117.4	124.7	130.2	143.1	150.4	159.6	176.1	194.4	210.9	227.4
135°	126.6	121.1	130.2	133.9	146.7	154.1	161.4	176.1	192.6	209.1	223.8
137.5°	130.2	122.9	133.9	137.6	148.6	155.9	161.4	174.3	190.8	205.4	220.1
140°	132.1	126.6	137.6	141.2	146.7	154.1	161.4	172.4	187.1	201.8	214.6
142.5°	133.9	126.6	139.4	143.1	146.7	152.2	159.6	168.7	183.4	196.3	209.1
145°	133.9	128.4	139.4	143.1	146.7	150.4	155.9	166.9	177.9	188.9	201.8
147.5°	133.9	130.2	141.2	144.9	148.6	148.6	152.2	163.2	172.4	183.4	194.4
150°	135.7	130.2	141.2	144.9	150.4	150.4	152.2	157.7	168.7	176.1	185.3
152.5°	133.9	132.1	139.4	146.7	150.4	152.2	152.2	154.1	163.2	170.6	177.9
155°	135.7	135.7	141.2	150.4	152.2	152.2	154.1	152.2	155.9	163.2	170.6
157.5°	139.4	143.1	143.1	152.2	155.9	155.9	157.7	155.9	154.1	155.9	163.2
160°	144.9	148.6	148.6	154.1	159.6	159.6	161.4	159.6	157.7	155.9	155.9
162.5°	150.4	154.1	154.1	155.9	161.4	163.2	165.1	163.2	161.4	157.7	155.9
165°	155.9	159.6	159.6	159.6	163.2	165.1	166.9	165.1	165.1	161.4	159.6
167.5°	161.4	165.1	165.1	163.2	165.1	166.9	168.7	166.9	166.9	165.1	161.4
170°	166.9	170.6	170.6	166.9	168.7	168.7	170.6	168.7	168.7	165.1	163.2
172.5°	170.6	174.3	172.4	170.6	170.6	170.6	170.6	168.7	166.9	163.2	163.2
175°	172.4	176.1	176.1	172.4	170.6	170.6	172.4	168.7	166.9	165.1	161.4
177.5°	172.4	176.1	176.1	172.4	172.4	170.6	172.4	170.6	170.6	166.9	163.2
180°	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5	2008.5
2.5°	2001.1	1999.3	1988.3	2001.1	2001.1	1997.5	2012.1	2010.3	2008.5	2004.8
5°	1993.8	1992.0	1981.0	1993.8	1993.8	1992.0	2006.6	2008.5	2010.3	2006.6
7.5°	1982.8	1981.0	1970.0	1982.8	1982.8	1981.0	1997.5	1999.3	2001.1	1995.6
10°	1966.3	1964.5	1953.5	1966.3	1968.1	1966.3	1979.1	1981.0	1984.6	1977.3
12.5°	1944.3	1944.3	1933.3	1946.1	1947.9	1946.1	1959.0	1962.6	1966.3	1957.1
15°	1916.8	1918.6	1909.4	1922.3	1924.1	1924.1	1936.9	1938.8	1944.3	1931.4
17.5°	1883.7	1887.4	1880.1	1892.9	1894.8	1896.6	1903.9	1909.4	1914.9	1900.3
20°	1848.9	1850.7	1845.2	1856.2	1859.9	1858.1	1867.2	1874.6	1880.1	1865.4
22.5°	1806.7	1808.5	1803.0	1814.0	1817.7	1819.6	1826.9	1836.1	1839.7	1826.9
25°	1759.0	1766.4	1762.7	1773.7	1777.4	1777.4	1784.7	1793.9	1799.4	1781.0
27.5°	1713.2	1722.3	1718.7	1729.7	1733.3	1735.2	1738.8	1749.9	1755.4	1738.8
30°	1661.8	1672.8	1671.0	1682.0	1685.7	1683.8	1691.2	1702.2	1709.5	1691.2
32.5°	1604.9	1619.6	1617.8	1632.5	1636.1	1638.0	1643.5	1658.1	1665.5	1649.0
35°	1549.9	1566.4	1568.3	1584.8	1590.3	1592.1	1599.4	1614.1	1621.5	1604.9
37.5°	1493.1	1515.1	1520.6	1537.1	1542.6	1544.4	1551.8	1568.3	1575.6	1559.1
40°	1438.0	1463.7	1471.0	1485.7	1491.2	1496.7	1502.2	1518.7	1527.9	1511.4
42.5°	1383.0	1410.5	1419.7	1434.4	1439.9	1445.4	1452.7	1471.0	1478.4	1463.7
45°	1326.1	1355.5	1366.5	1381.2	1388.5	1394.0	1401.3	1417.9	1427.0	1412.4
47.5°	1269.3	1298.6	1309.6	1326.1	1333.5	1340.8	1346.3	1366.5	1375.7	1361.0
50°	1208.8	1241.8	1254.6	1269.3	1280.3	1285.8	1293.1	1311.5	1320.6	1307.8
52.5°	1148.2	1183.1	1197.7	1212.4	1223.4	1232.6	1236.3	1256.4	1265.6	1252.8
55°	1085.9	1120.7	1137.2	1153.7	1164.7	1175.7	1179.4	1199.6	1208.8	1190.4
57.5°	1023.5	1060.2	1076.7	1095.0	1104.2	1117.0	1122.5	1140.9	1150.1	1137.2
60°	961.1	996.0	1016.2	1032.7	1045.5	1056.5	1060.2	1080.4	1089.5	1073.0
62.5°	896.9	933.6	953.8	972.1	983.1	996.0	1001.5	1019.8	1027.2	1010.7
65°	830.9	867.6	889.6	906.1	920.8	931.8	935.5	955.6	963.0	946.5
67.5°	764.9	801.6	825.4	843.7	856.6	869.4	873.1	893.3	900.6	887.8
70°	700.7	737.4	761.2	783.2	792.4	805.2	810.7	829.1	836.4	825.4
72.5°	636.5	673.2	698.8	720.9	730.0	742.9	750.2	764.9	775.9	766.7
75°	574.1	610.8	636.5	658.5	667.7	680.5	687.8	702.5	709.8	702.5
77.5°	513.6	550.3	574.1	596.1	607.1	618.1	625.5	640.1	649.3	642.0
80°	454.9	491.6	515.4	535.6	546.6	557.6	564.9	581.4	588.8	583.3
82.5°	399.9	434.7	460.4	480.6	491.6	502.6	509.9	524.6	533.8	526.4
85°	350.3	385.2	409.0	429.2	438.4	449.4	456.7	471.4	478.7	475.1
87.5°	302.6	333.8	361.3	381.5	390.7	401.7	410.9	421.9	431.0	425.5
90°	266.0	293.5	319.2	339.3	350.3	361.3	372.3	383.4	390.7	387.0
92.5°	267.8	293.5	317.3	335.7	346.7	357.7	368.7	381.5	387.0	383.4
95°	267.8	293.5	317.3	335.7	346.7	357.7	368.7	381.5	387.0	383.4
97.5°	267.8	293.5	317.3	335.7	346.7	357.7	368.7	381.5	387.0	381.5
100°	267.8	293.5	317.3	335.7	346.7	355.8	366.8	379.7	385.2	381.5
102.5°	267.8	293.5	315.5	333.8	344.8	354.0	365.0	377.9	383.4	379.7
105°	267.8	291.6	315.5	332.0	343.0	352.2	363.2	374.2	379.7	376.0
107.5°	266.0	289.8	311.8	330.2	339.3	348.5	359.5	370.5	376.0	372.3
110°	266.0	288.0	310.0	326.5	335.7	344.8	355.8	366.8	372.3	368.7





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	264.1	286.1	308.1	322.8	332.0	341.2	350.3	363.2	368.7	365.0
115°	262.3	284.3	304.5	319.2	328.3	335.7	346.7	359.5	363.2	361.3
117.5°	260.5	280.6	300.8	315.5	324.7	332.0	341.2	352.2	357.7	355.8
120°	258.6	277.0	297.1	310.0	319.2	326.5	333.8	344.8	350.3	346.7
122.5°	255.0	273.3	293.5	306.3	313.7	321.0	328.3	337.5	343.0	341.2
125°	251.3	269.6	288.0	300.8	308.1	313.7	321.0	330.2	333.8	332.0
127.5°	247.6	266.0	282.5	293.5	302.6	308.1	313.7	322.8	326.5	324.7
130°	244.0	260.5	277.0	288.0	295.3	300.8	306.3	315.5	317.3	317.3
132.5°	240.3	255.0	271.5	282.5	289.8	293.5	299.0	306.3	310.0	308.1
135°	236.6	249.5	266.0	275.1	280.6	286.1	291.6	299.0	300.8	300.8
137.5°	231.1	244.0	258.6	267.8	273.3	277.0	282.5	289.8	291.6	291.6
140°	225.6	238.4	251.3	258.6	266.0	269.6	273.3	280.6	282.5	282.5
142.5°	220.1	231.1	244.0	251.3	258.6	260.5	266.0	271.5	273.3	273.3
145°	212.8	225.6	236.6	244.0	249.5	251.3	256.8	262.3	262.3	264.1
147.5°	203.6	214.6	229.3	234.8	240.3	242.1	247.6	251.3	253.1	253.1
150°	194.4	205.4	218.3	227.4	232.9	234.8	236.6	242.1	242.1	244.0
152.5°	185.3	194.4	207.3	216.4	223.8	225.6	227.4	231.1	231.1	232.9
155°	176.1	183.4	194.4	203.6	210.9	214.6	218.3	221.9	221.9	223.8
157.5°	168.7	176.1	185.3	192.6	198.1	203.6	209.1	212.8	212.8	212.8
160°	159.6	165.1	174.3	179.8	187.1	190.8	199.9	203.6	203.6	205.4
162.5°	154.1	155.9	161.4	166.9	172.4	176.1	185.3	194.4	194.4	196.3
165°	155.9	154.1	155.9	157.7	161.4	163.2	168.7	181.6	185.3	187.1
167.5°	159.6	154.1	154.1	154.1	157.7	157.7	163.2	170.6	183.4	179.8
170°	159.6	154.1	150.4	150.4	152.2	150.4	154.1	159.6	166.9	174.3
172.5°	161.4	155.9	150.4	143.1	144.9	143.1	139.4	139.4	141.2	165.1
175°	159.6	155.9	148.6	139.4	137.6	132.1	121.1	111.9	106.4	82.5
177.5°	157.7	152.2	146.7	139.4	135.7	130.2	117.4	102.7	88.0	84.4
180°	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4	150.4



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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	14.53	15.85	15.15	16.48	17.20	17.16	18.48	17.77	19.11	19.83
	3H	15.93	17.13	16.56	17.78	18.53	19.62	20.82	20.25	21.46	22.22
	4H	16.36	17.50	17.01	18.15	18.92	20.79	21.93	21.44	22.58	23.35
	6H	16.60	17.66	17.26	18.32	19.11	21.97	23.03	22.63	23.69	24.48
	8H	16.64	17.65	17.31	18.34	19.13	22.56	23.57	23.23	24.26	25.05
	12H	16.65	17.62	17.33	18.30	19.12	23.20	24.16	23.87	24.84	25.66
4H	2H	15.43	16.57	16.08	17.23	17.99	17.50	18.64	18.15	19.30	20.07
	3H	17.06	18.02	17.72	18.71	19.50	20.17	21.13	20.83	21.83	22.61
	4H	17.61	18.50	18.29	19.19	20.01	21.48	22.37	22.16	23.06	23.88
	6H	17.95	18.73	18.65	19.45	20.27	22.83	23.61	23.53	24.33	25.16
	8H	18.02	18.75	18.73	19.47	20.31	23.52	24.26	24.23	24.98	25.82
	12H	18.05	18.72	18.78	19.46	20.31	24.28	24.94	25.00	25.68	26.53
8H	4H	18.27	19.00	18.98	19.72	20.56	21.63	22.36	22.33	23.08	23.92
	6H	18.78	19.39	19.51	20.15	21.00	23.13	23.74	23.86	24.50	25.35
	8H	18.93	19.49	19.68	20.25	21.11	23.94	24.49	24.68	25.25	26.11
	12H	19.02	19.52	19.77	20.27	21.18	24.85	25.34	25.59	26.09	27.01
12H	4H	18.44	19.11	19.17	19.85	20.70	21.62	22.28	22.35	23.03	23.87
	6H	19.04	19.60	19.79	20.36	21.22	23.14	23.70	23.89	24.46	25.32
	8H	19.28	19.77	20.02	20.52	21.44	24.00	24.50	24.75	25.25	26.17