

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: P894437

Luminaire Tested: 8TMB-10SL-RNDU-UNV-L830

Issue Date: 11/11/2024

**Test Information**

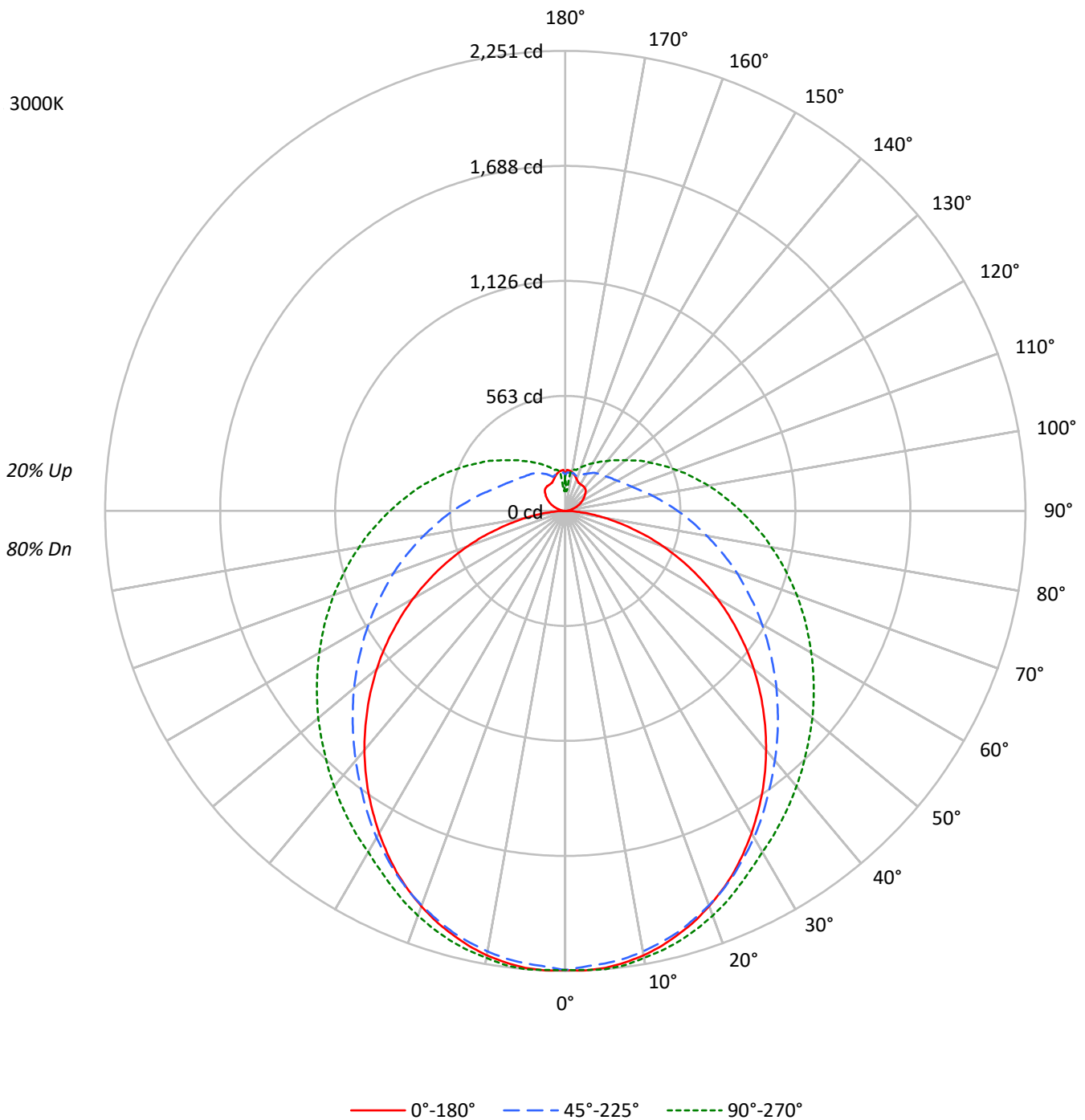
Test Method: LM-79-2019  
Report Number: P894437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-RNDU-UNV-L830  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9449.1 lumens  
Efficiency: N/A  
Efficacy: 135.0 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): 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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### 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°	7971	7971	7971
5°	7976	7646	7650
10°	7919	7359	7297
15°	7820	7067	6970
20°	7699	6758	6635
25°	7548	6445	6298
30°	7351	6130	6001
35°	7147	5804	5781
40°	6927	5509	5582
45°	6690	5249	5405
50°	6442	5018	5268
55°	6157	4804	5148
60°	5834	4631	5059
65°	5438	4480	5008
70°	4945	4392	4992
75°	4272	4335	5014
80°	3462	4351	5093
85°	2414	4490	5260

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6690 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.5	2.2
10°-20°	606.1	6.4
20°-30°	909.9	9.6
30°-40°	1094.2	11.6
40°-50°	1159.3	12.3
50°-60°	1116.4	11.8
60°-70°	988.1	10.5
70°-80°	810.5	8.6
80°-90°	628.9	6.7
90°-100°	488.1	5.2
100°-110°	386.8	4.1
110°-120°	308.1	3.3
120°-130°	244.7	2.6
130°-140°	191.1	2.0
140°-150°	140.7	1.5
150°-160°	93.0	1.0
160°-170°	53.5	0.6
170°-180°	17.2	0.2
0°-30°	1728.5	18.3
0°-40°	2822.7	29.9
0°-60°	5098.5	54.0
0°-90°	7525.9	79.6
90°-120°	1183.0	12.5
90°-150°	1759.5	18.6
90°-180°	1923.0	20.4
0°-180°	9449.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2246	2246	2246	2246	2246	
5°	2244	2246	2223	2240	2251	213
15°	2144	2146	2133	2165	2176	605
25°	1952	1958	1958	2007	2020	898
35°	1680	1702	1721	1810	1847	1050
45°	1368	1400	1471	1610	1667	1056
55°	1032	1084	1227	1409	1483	924
65°	684	778	998	1208	1298	677
75°	342	513	795	1020	1114	366
85°	77	310	622	849	938	88
90°	2	244	549	770	857	6
95°	11	201	485	695	780	11
105°	38	162	383	569	643	41
115°	77	156	318	464	526	75
125°	111	162	278	383	430	99
135°	141	173	250	321	351	108
145°	150	171	227	276	293	94
155°	152	177	194	235	248	71
165°	180	190	184	184	207	50
175°	199	197	188	156	105	19
180°	173	173	173	173	173	



TEST NUMBER: P894437  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5
2.5°	2250.8	2248.7	2252.9	2257.2	2270.0	2252.9	2261.5	2238.0	2240.1	2242.2	2231.6
5°	2244.4	2238.0	2244.4	2248.7	2259.3	2246.5	2255.1	2229.4	2231.6	2235.8	2223.0
7.5°	2229.4	2223.0	2227.3	2231.6	2242.2	2229.4	2240.1	2214.5	2218.7	2220.9	2210.2
10°	2208.0	2199.5	2203.8	2210.2	2218.7	2208.0	2216.6	2193.1	2195.2	2199.5	2188.8
12.5°	2180.3	2171.7	2176.0	2180.3	2190.9	2180.3	2188.8	2165.3	2169.6	2173.8	2163.2
15°	2143.9	2135.4	2139.6	2143.9	2152.5	2146.1	2154.6	2131.1	2135.4	2143.9	2133.2
17.5°	2105.4	2092.6	2096.9	2103.3	2111.9	2107.6	2114.0	2094.8	2096.9	2105.4	2094.8
20°	2058.4	2045.6	2049.9	2056.3	2064.8	2062.7	2067.0	2049.9	2054.1	2064.8	2054.1
22.5°	2007.1	1994.3	1998.6	2007.1	2013.5	2013.5	2015.7	2002.8	2007.1	2017.8	2009.3
25°	1951.5	1938.7	1943.0	1951.5	1958.0	1958.0	1962.2	1949.4	1955.8	1966.5	1958.0
27.5°	1887.4	1881.0	1881.0	1889.6	1893.8	1898.1	1900.2	1889.6	1898.1	1908.8	1902.4
30°	1821.2	1812.6	1816.9	1827.6	1827.6	1836.1	1836.1	1827.6	1838.3	1851.1	1846.8
32.5°	1750.6	1744.2	1746.3	1759.2	1759.2	1769.9	1767.7	1763.4	1774.1	1789.1	1784.8
35°	1680.1	1673.7	1675.8	1688.6	1688.6	1701.5	1697.2	1697.2	1707.9	1725.0	1720.7
37.5°	1605.3	1601.0	1603.1	1616.0	1616.0	1628.8	1624.5	1626.6	1639.5	1658.7	1656.6
40°	1528.3	1524.0	1528.3	1539.0	1543.3	1554.0	1549.7	1554.0	1571.1	1588.2	1594.6
42.5°	1449.2	1447.1	1451.4	1462.1	1466.3	1477.0	1474.9	1481.3	1498.4	1524.0	1532.6
45°	1368.0	1368.0	1372.3	1383.0	1387.2	1400.1	1397.9	1406.5	1427.9	1455.6	1470.6
47.5°	1286.8	1288.9	1291.1	1303.9	1303.9	1325.3	1318.8	1331.7	1359.5	1391.5	1408.6
50°	1203.4	1207.7	1209.8	1220.5	1224.8	1244.0	1239.8	1261.1	1291.1	1325.3	1348.8
52.5°	1120.1	1124.3	1128.6	1137.2	1141.4	1164.9	1160.7	1188.5	1224.8	1261.1	1286.8
55°	1032.4	1041.0	1043.1	1053.8	1060.2	1083.7	1083.7	1115.8	1154.3	1194.9	1226.9
57.5°	946.9	955.5	957.6	970.4	979.0	1006.8	1011.0	1047.4	1090.1	1130.7	1169.2
60°	859.3	870.0	872.1	884.9	899.9	929.8	936.2	976.8	1023.9	1066.6	1111.5
62.5°	771.6	782.3	786.6	799.4	822.9	852.9	863.6	910.6	959.7	1006.8	1055.9
65°	684.0	694.7	701.1	718.2	746.0	778.1	793.0	842.2	897.8	946.9	998.2
67.5°	596.4	609.2	617.7	639.1	675.5	709.7	724.6	780.2	837.9	891.3	944.8
70°	510.9	523.7	534.4	562.2	604.9	639.1	658.4	718.2	778.1	835.8	895.6
72.5°	427.5	440.3	455.3	489.5	536.5	575.0	596.4	658.4	724.6	782.3	844.3
75°	342.0	357.0	374.1	421.1	474.5	513.0	536.5	602.8	671.2	728.9	795.2
77.5°	265.1	280.0	305.7	352.7	412.5	455.3	480.9	551.5	622.0	679.7	748.1
80°	194.5	209.5	243.7	295.0	357.0	397.6	429.6	502.3	575.0	634.8	703.2
82.5°	132.5	147.5	188.1	243.7	309.9	350.6	380.5	457.4	530.1	592.1	660.5
85°	77.0	98.3	141.1	200.9	269.3	309.9	339.9	419.0	489.5	551.5	622.0
87.5°	34.2	59.9	106.9	166.7	235.1	273.6	305.7	378.3	453.2	515.1	585.7
90°	2.1	34.2	83.4	141.1	207.3	243.7	273.6	346.3	416.8	480.9	549.3
92.5°	4.3	23.5	68.4	121.8	183.8	220.2	250.1	318.5	384.8	451.0	517.3
95°	10.7	23.5	59.9	109.0	166.7	200.9	228.7	295.0	357.0	421.1	485.2
97.5°	17.1	25.7	57.7	102.6	153.9	186.0	211.6	273.6	335.6	393.3	457.4
100°	23.5	32.1	57.7	98.3	145.4	175.3	198.8	256.5	314.2	367.7	431.8
102.5°	29.9	38.5	62.0	98.3	141.1	166.7	190.2	243.7	297.1	346.3	406.1
105°	38.5	44.9	66.3	98.3	136.8	162.5	181.7	230.9	282.2	329.2	382.6
107.5°	47.0	51.3	70.5	100.5	136.8	158.2	177.4	222.3	269.3	312.1	363.4
110°	57.7	59.9	77.0	104.7	136.8	156.0	173.1	215.9	258.6	299.3	346.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	66.3	66.3	83.4	109.0	136.8	156.0	171.0	209.5	250.1	286.4	331.3
115°	77.0	77.0	89.8	113.3	138.9	156.0	171.0	207.3	243.7	275.7	318.5
117.5°	85.5	85.5	98.3	117.6	143.2	158.2	171.0	203.1	237.3	267.2	305.7
120°	94.1	94.1	102.6	121.8	145.4	160.3	171.0	200.9	230.9	260.8	295.0
122.5°	102.6	102.6	109.0	128.3	147.5	160.3	171.0	198.8	226.6	252.2	284.3
125°	111.2	111.2	115.4	132.5	151.8	162.5	173.1	198.8	224.4	245.8	277.9
127.5°	119.7	117.6	124.0	138.9	153.9	164.6	175.3	198.8	220.2	241.5	269.3
130°	126.1	124.0	132.5	143.2	158.2	166.7	175.3	196.7	218.0	237.3	260.8
132.5°	134.7	130.4	141.1	145.4	162.5	171.0	177.4	196.7	215.9	233.0	256.5
135°	141.1	136.8	147.5	151.8	164.6	173.1	179.6	196.7	213.8	230.9	250.1
137.5°	145.4	143.2	153.9	158.2	166.7	175.3	181.7	196.7	211.6	226.6	245.8
140°	147.5	145.4	153.9	162.5	166.7	175.3	179.6	194.5	209.5	222.3	239.4
142.5°	149.6	149.6	156.0	164.6	166.7	173.1	179.6	192.4	205.2	215.9	235.1
145°	149.6	149.6	156.0	166.7	168.9	171.0	175.3	188.1	198.8	209.5	226.6
147.5°	149.6	149.6	158.2	166.7	171.0	173.1	171.0	183.8	194.5	203.1	218.0
150°	149.6	149.6	158.2	166.7	173.1	175.3	173.1	179.6	188.1	196.7	209.5
152.5°	151.8	151.8	158.2	166.7	173.1	175.3	175.3	175.3	181.7	190.2	203.1
155°	151.8	153.9	158.2	171.0	175.3	177.4	177.4	177.4	175.3	183.8	194.5
157.5°	158.2	160.3	162.5	173.1	177.4	179.6	179.6	179.6	177.4	175.3	186.0
160°	164.6	166.7	168.9	177.4	181.7	183.8	183.8	183.8	179.6	177.4	177.4
162.5°	171.0	175.3	175.3	179.6	183.8	186.0	186.0	188.1	183.8	181.7	179.6
165°	179.6	181.7	181.7	183.8	188.1	190.2	188.1	190.2	188.1	186.0	183.8
167.5°	186.0	188.1	188.1	190.2	190.2	192.4	192.4	192.4	190.2	188.1	188.1
170°	192.4	194.5	194.5	194.5	194.5	194.5	194.5	194.5	192.4	188.1	188.1
172.5°	196.7	198.8	198.8	196.7	196.7	196.7	196.7	194.5	190.2	188.1	188.1
175°	198.8	200.9	200.9	198.8	196.7	196.7	196.7	194.5	190.2	188.1	188.1
177.5°	200.9	203.1	200.9	200.9	196.7	196.7	196.7	196.7	192.4	190.2	188.1
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5	2246.5
2.5°	2244.4	2218.7	2235.8	2238.0	2246.5	2238.0	2244.4	2238.0	2255.1	2248.7
5°	2235.8	2212.3	2227.3	2229.4	2240.1	2229.4	2240.1	2235.8	2257.2	2250.8
7.5°	2220.9	2201.6	2214.5	2216.6	2229.4	2218.7	2229.4	2225.1	2250.8	2242.2
10°	2199.5	2184.5	2197.4	2199.5	2212.3	2201.6	2210.2	2205.9	2233.7	2220.9
12.5°	2176.0	2163.2	2173.8	2176.0	2190.9	2180.3	2190.9	2186.7	2214.5	2201.6
15°	2141.8	2135.4	2146.1	2150.3	2165.3	2156.7	2167.4	2163.2	2193.1	2176.0
17.5°	2107.6	2103.3	2114.0	2118.3	2135.4	2124.7	2135.4	2131.1	2161.0	2143.9
20°	2064.8	2062.7	2073.4	2079.8	2094.8	2084.1	2096.9	2092.6	2124.7	2107.6
22.5°	2019.9	2019.9	2028.5	2034.9	2049.9	2041.3	2054.1	2052.0	2084.1	2067.0
25°	1970.8	1972.9	1981.5	1990.0	2007.1	2000.7	2011.4	2011.4	2041.3	2019.9
27.5°	1915.2	1925.9	1932.3	1943.0	1958.0	1951.5	1962.2	1964.4	1994.3	1972.9
30°	1857.5	1872.5	1878.9	1891.7	1904.5	1904.5	1915.2	1919.5	1949.4	1928.0
32.5°	1797.6	1814.7	1823.3	1840.4	1857.5	1857.5	1872.5	1878.9	1908.8	1889.6
35°	1737.8	1761.3	1772.0	1793.4	1810.5	1812.6	1827.6	1836.1	1866.0	1846.8
37.5°	1680.1	1710.0	1720.7	1746.3	1761.3	1765.6	1782.7	1793.4	1821.2	1804.1
40°	1620.2	1656.6	1669.4	1697.2	1710.0	1718.6	1735.7	1748.5	1774.1	1759.2
42.5°	1562.5	1603.1	1616.0	1645.9	1660.8	1669.4	1686.5	1703.6	1729.2	1714.3
45°	1504.8	1549.7	1564.7	1596.7	1609.5	1622.4	1641.6	1656.6	1680.1	1667.3
47.5°	1449.2	1496.3	1511.2	1545.4	1560.4	1575.3	1592.4	1613.8	1635.2	1622.4
50°	1391.5	1440.7	1459.9	1496.3	1509.1	1526.2	1547.6	1566.8	1588.2	1577.5
52.5°	1335.9	1387.2	1406.5	1445.0	1459.9	1477.0	1498.4	1519.8	1539.0	1530.5
55°	1276.1	1331.7	1353.0	1393.7	1408.6	1425.7	1449.2	1472.7	1489.8	1483.4
57.5°	1220.5	1278.2	1299.6	1344.5	1357.3	1378.7	1402.2	1427.9	1442.8	1436.4
60°	1164.9	1222.7	1248.3	1293.2	1308.2	1329.5	1353.0	1380.8	1393.7	1389.4
62.5°	1109.4	1169.2	1197.0	1244.0	1256.9	1280.4	1308.2	1331.7	1344.5	1342.4
65°	1058.1	1115.8	1147.8	1194.9	1207.7	1233.3	1259.0	1284.6	1297.5	1297.5
67.5°	1004.6	1066.6	1098.7	1147.8	1158.5	1186.3	1214.1	1239.8	1250.4	1250.4
70°	955.5	1015.3	1051.7	1100.8	1111.5	1137.2	1167.1	1194.9	1203.4	1205.6
72.5°	906.3	966.2	1004.6	1055.9	1066.6	1092.3	1120.1	1150.0	1156.4	1158.5
75°	859.3	919.1	957.6	1008.9	1019.6	1045.2	1075.2	1103.0	1111.5	1113.6
77.5°	812.3	872.1	914.9	964.0	974.7	1000.4	1030.3	1058.1	1064.5	1068.8
80°	769.5	827.2	867.8	921.3	932.0	957.6	985.4	1013.2	1017.5	1023.9
82.5°	726.8	784.5	827.2	878.5	889.2	914.9	942.6	970.4	974.7	983.3
85°	686.1	743.9	786.6	835.8	848.6	872.1	902.0	927.7	932.0	938.4
87.5°	649.8	703.2	748.1	795.2	808.0	831.5	861.4	887.1	889.2	897.8
90°	611.3	664.8	709.7	756.7	769.5	790.9	820.8	846.5	850.7	857.1
92.5°	579.3	628.4	675.5	720.3	731.0	754.5	782.3	808.0	812.3	818.7
95°	545.1	594.2	641.3	684.0	694.7	718.2	743.9	769.5	773.8	780.2
97.5°	515.1	562.2	607.1	649.8	660.5	681.9	709.7	733.2	737.4	746.0
100°	487.4	532.2	579.3	617.7	628.4	649.8	675.5	699.0	703.2	711.8
102.5°	461.7	504.5	549.3	585.7	598.5	617.7	643.4	664.8	669.0	675.5
105°	438.2	478.8	521.6	555.8	568.6	587.8	611.3	632.7	637.0	643.4
107.5°	414.7	453.2	493.8	528.0	538.7	555.8	579.3	600.6	604.9	613.5
110°	393.3	431.8	470.3	502.3	515.1	528.0	551.5	570.7	575.0	581.4





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	374.1	408.3	446.7	476.7	487.4	502.3	521.6	540.8	545.1	553.6
115°	357.0	389.0	427.5	455.3	463.8	476.7	498.0	515.1	519.4	525.8
117.5°	342.0	369.8	404.0	431.8	442.5	453.2	472.4	487.4	493.8	498.0
120°	329.2	354.8	384.8	410.4	423.2	431.8	448.9	463.8	470.3	474.5
122.5°	316.4	339.9	367.7	391.2	401.9	408.3	427.5	440.3	446.7	453.2
125°	305.7	327.0	352.7	371.9	382.6	389.0	406.1	419.0	425.4	429.6
127.5°	295.0	314.2	339.9	354.8	365.5	369.8	384.8	397.6	404.0	406.1
130°	284.3	303.5	324.9	339.9	348.4	354.8	367.7	376.2	382.6	384.8
132.5°	275.7	292.8	312.1	327.0	335.6	337.7	350.6	359.1	365.5	367.7
135°	269.3	282.2	301.4	314.2	320.6	324.9	335.6	342.0	348.4	350.6
137.5°	260.8	273.6	290.7	299.3	307.8	309.9	320.6	327.0	333.5	335.6
140°	254.4	265.1	280.0	288.6	297.1	297.1	305.7	312.1	318.5	318.5
142.5°	248.0	258.6	271.5	280.0	286.4	286.4	295.0	299.3	305.7	305.7
145°	239.4	250.1	262.9	269.3	275.7	275.7	282.2	286.4	292.8	292.8
147.5°	230.9	241.5	254.4	258.6	265.1	265.1	271.5	275.7	280.0	280.0
150°	220.2	228.7	243.7	250.1	256.5	256.5	260.8	265.1	269.3	269.3
152.5°	211.6	218.0	230.9	239.4	245.8	245.8	250.1	254.4	258.6	258.6
155°	200.9	207.3	218.0	228.7	235.1	237.3	241.5	243.7	248.0	248.0
157.5°	192.4	198.8	207.3	215.9	222.3	226.6	233.0	235.1	237.3	237.3
160°	181.7	186.0	194.5	203.1	209.5	213.8	224.4	226.6	228.7	228.7
162.5°	177.4	177.4	181.7	188.1	194.5	196.7	207.3	215.9	220.2	218.0
165°	179.6	177.4	177.4	179.6	183.8	186.0	192.4	205.2	209.5	207.3
167.5°	183.8	179.6	177.4	177.4	181.7	181.7	188.1	198.8	211.6	207.3
170°	183.8	177.4	173.1	173.1	175.3	175.3	179.6	186.0	198.8	200.9
172.5°	181.7	177.4	171.0	162.5	164.6	162.5	160.3	164.6	166.7	188.1
175°	183.8	177.4	171.0	160.3	156.0	149.6	138.9	130.4	128.3	104.7
177.5°	181.7	175.3	166.7	158.2	153.9	145.4	132.5	117.6	109.0	96.2
180°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1



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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	14.17	15.48	14.81	16.14	16.91	17.79	19.10	18.43	19.77	20.54
	3H	15.51	16.71	16.17	17.39	18.19	20.75	21.94	21.40	22.62	23.42
	4H	15.92	17.06	16.59	17.74	18.56	22.25	23.39	22.93	24.08	24.89
	6H	16.13	17.20	16.82	17.89	18.72	23.86	24.92	24.55	25.62	26.45
	8H	16.17	17.18	16.86	17.90	18.74	24.71	25.73	25.41	26.45	27.28
	12H	16.17	17.15	16.87	17.86	18.72	25.66	26.63	26.36	27.35	28.21
4H	2H	15.32	16.46	16.00	17.15	17.96	18.11	19.25	18.78	19.93	20.75
	3H	16.97	17.94	17.65	18.67	19.50	21.29	22.27	21.98	22.99	23.82
	4H	17.53	18.43	18.24	19.16	20.02	22.97	23.87	23.67	24.60	25.46
	6H	17.87	18.67	18.60	19.42	20.29	24.79	25.59	25.51	26.34	27.20
	8H	17.95	18.70	18.67	19.45	20.33	25.76	26.52	26.49	27.26	28.15
	12H	17.97	18.66	18.72	19.43	20.32	26.85	27.53	27.60	28.30	29.19
8H	4H	18.64	19.39	19.37	20.14	21.02	23.14	23.89	23.87	24.64	25.52
	6H	19.25	19.89	20.00	20.68	21.56	25.14	25.78	25.89	26.56	27.45
	8H	19.45	20.02	20.21	20.81	21.71	26.26	26.83	27.02	27.62	28.52
	12H	19.56	20.07	20.33	20.85	21.81	27.53	28.05	28.30	28.83	29.78
12H	4H	19.01	19.69	19.75	20.46	21.35	23.13	23.82	23.88	24.59	25.48
	6H	19.78	20.36	20.55	21.15	22.05	25.17	25.74	25.93	26.53	27.43
	8H	20.11	20.63	20.88	21.41	22.36	26.35	26.86	27.12	27.64	28.60