

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: P894439

Luminaire Tested: 8TMB-10SL-RNDU-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894439
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-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, CCT
Light Source: -
Ballast/Driver: -

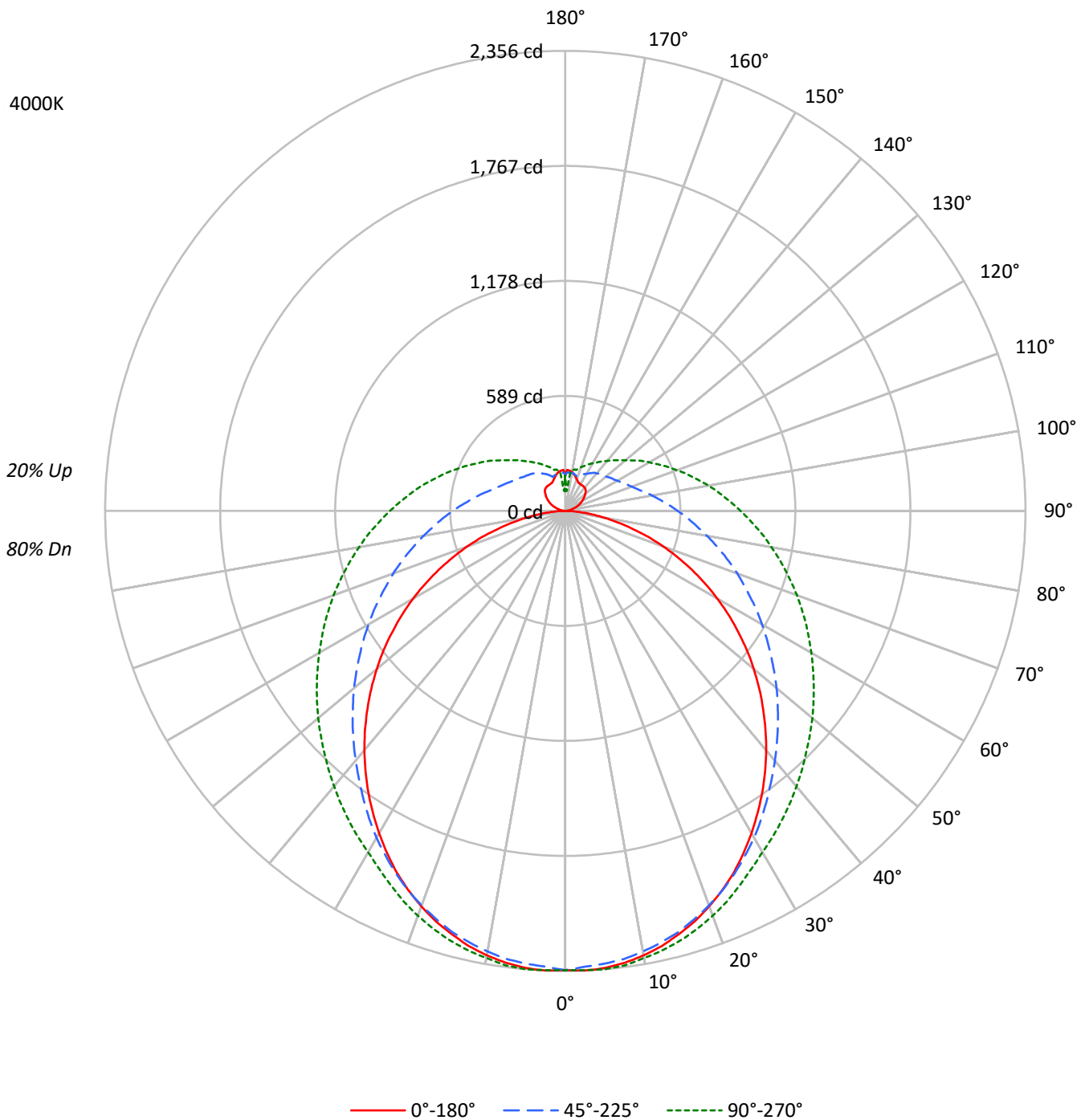
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9892.0 lumens
Efficiency: N/A
Efficacy: 141.3 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): 70
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P894439
CATALOG NUMBER: 8TMB-10SL-RNDU-UNV-L840

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
RCR																				
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80		
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	61		
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	49		
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	41		
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	34		
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	29		
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	26		
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	23		
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	20		
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	18		
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8345	8345	8345
5°	8349	8005	8008
10°	8290	7704	7639
15°	8187	7399	7297
20°	8060	7074	6946
25°	7902	6747	6594
30°	7695	6417	6282
35°	7481	6076	6052
40°	7252	5767	5843
45°	7003	5495	5658
50°	6744	5253	5515
55°	6445	5030	5389
60°	6108	4848	5296
65°	5693	4690	5243
70°	5177	4598	5226
75°	4472	4538	5249
80°	3624	4556	5332
85°	2527	4701	5507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	2.2
10°-20°	634.5	6.4
20°-30°	952.6	9.6
30°-40°	1145.5	11.6
40°-50°	1213.7	12.3
50°-60°	1168.8	11.8
60°-70°	1034.4	10.5
70°-80°	848.4	8.6
80°-90°	658.4	6.7
90°-100°	511.0	5.2
100°-110°	404.9	4.1
110°-120°	322.5	3.3
120°-130°	256.2	2.6
130°-140°	200.1	2.0
140°-150°	147.2	1.5
150°-160°	97.4	1.0
160°-170°	56.0	0.6
170°-180°	18.0	0.2
0°-30°	1809.6	18.3
0°-40°	2955.1	29.9
0°-60°	5337.5	54.0
0°-90°	7878.7	79.6
90°-120°	1238.4	12.5
90°-150°	1841.9	18.6
90°-180°	2013.0	20.3
0°-180°	9892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2352	2352	2352	2352	2352	
5°	2350	2352	2327	2345	2356	223
15°	2244	2247	2233	2267	2278	633
25°	2043	2050	2050	2101	2115	940
35°	1759	1781	1801	1895	1933	1100
45°	1432	1466	1540	1685	1745	1105
55°	1081	1134	1284	1475	1553	967
65°	716	814	1045	1264	1358	709
75°	358	537	832	1067	1166	383
85°	81	324	651	888	982	92
90°	2	255	575	806	897	6
95°	11	210	508	727	817	12
105°	40	170	401	595	674	43
115°	81	163	333	486	550	79
125°	116	170	291	401	450	104
135°	148	181	262	336	367	113
145°	157	179	237	289	307	98
155°	159	186	204	246	260	75
165°	188	199	192	192	217	53
175°	208	206	197	163	110	20
180°	181	181	181	181	181	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8
2.5°	2356.3	2354.1	2358.6	2363.0	2376.5	2358.6	2367.5	2342.9	2345.1	2347.4	2336.2
5°	2349.6	2342.9	2349.6	2354.1	2365.3	2351.8	2360.8	2333.9	2336.2	2340.7	2327.2
7.5°	2333.9	2327.2	2331.7	2336.2	2347.4	2333.9	2345.1	2318.3	2322.7	2325.0	2313.8
10°	2311.6	2302.6	2307.1	2313.8	2322.7	2311.6	2320.5	2295.9	2298.1	2302.6	2291.4
12.5°	2282.5	2273.5	2278.0	2282.5	2293.7	2282.5	2291.4	2266.8	2271.3	2275.8	2264.6
15°	2244.4	2235.5	2240.0	2244.4	2253.4	2246.7	2255.6	2231.0	2235.5	2244.4	2233.2
17.5°	2204.1	2190.7	2195.2	2201.9	2210.9	2206.4	2213.1	2193.0	2195.2	2204.1	2193.0
20°	2154.9	2141.5	2146.0	2152.7	2161.6	2159.4	2163.9	2146.0	2150.4	2161.6	2150.4
22.5°	2101.2	2087.8	2092.3	2101.2	2107.9	2107.9	2110.2	2096.7	2101.2	2112.4	2103.5
25°	2043.0	2029.6	2034.1	2043.0	2049.7	2049.7	2054.2	2040.8	2047.5	2058.7	2049.7
27.5°	1975.9	1969.2	1969.2	1978.1	1982.6	1987.1	1989.3	1978.1	1987.1	1998.3	1991.6
30°	1906.5	1897.6	1902.1	1913.2	1913.2	1922.2	1922.2	1913.2	1924.4	1937.9	1933.4
32.5°	1832.7	1826.0	1828.2	1841.6	1841.6	1852.8	1850.6	1846.1	1857.3	1873.0	1868.5
35°	1758.8	1752.1	1754.4	1767.8	1767.8	1781.2	1776.7	1776.7	1787.9	1805.8	1801.4
37.5°	1680.5	1676.0	1678.3	1691.7	1691.7	1705.1	1700.7	1702.9	1716.3	1736.5	1734.2
40°	1600.0	1595.5	1600.0	1611.2	1615.6	1626.8	1622.3	1626.8	1644.7	1662.6	1669.3
42.5°	1517.2	1514.9	1519.4	1530.6	1535.1	1546.3	1544.0	1550.7	1568.6	1595.5	1604.4
45°	1432.1	1432.1	1436.6	1447.8	1452.3	1465.7	1463.5	1472.4	1494.8	1523.9	1539.5
47.5°	1347.1	1349.3	1351.6	1365.0	1365.0	1387.4	1380.7	1394.1	1423.2	1456.8	1474.7
50°	1259.8	1264.3	1266.5	1277.7	1282.2	1302.4	1297.9	1320.3	1351.6	1387.4	1412.0
52.5°	1172.6	1177.0	1181.5	1190.5	1194.9	1219.6	1215.1	1244.2	1282.2	1320.3	1347.1
55°	1080.8	1089.8	1092.0	1103.2	1109.9	1134.5	1134.5	1168.1	1208.4	1250.9	1284.4
57.5°	991.3	1000.3	1002.5	1015.9	1024.9	1054.0	1058.4	1096.5	1141.2	1183.8	1224.0
60°	899.6	910.8	913.0	926.4	942.1	973.4	980.1	1022.6	1071.9	1116.6	1163.6
62.5°	807.8	819.0	823.5	836.9	861.5	892.8	904.0	953.3	1004.7	1054.0	1105.4
65°	716.1	727.3	734.0	751.9	781.0	814.5	830.2	881.7	939.8	991.3	1045.0
67.5°	624.3	637.7	646.7	669.1	707.1	742.9	758.6	816.8	877.2	933.1	989.1
70°	534.8	548.2	559.4	588.5	633.3	669.1	689.2	751.9	814.5	874.9	937.6
72.5°	447.5	461.0	476.6	512.4	561.7	601.9	624.3	689.2	758.6	819.0	883.9
75°	358.0	373.7	391.6	440.8	496.8	537.1	561.7	631.0	702.6	763.1	832.4
77.5°	277.5	293.1	320.0	369.2	431.9	476.6	503.5	577.3	651.2	711.6	783.2
80°	203.6	219.3	255.1	308.8	373.7	416.2	449.8	525.9	601.9	664.6	736.2
82.5°	138.7	154.4	196.9	255.1	324.5	367.0	398.3	478.9	555.0	619.8	691.5
85°	80.6	102.9	147.7	210.3	282.0	324.5	355.8	438.6	512.4	577.3	651.2
87.5°	35.8	62.7	111.9	174.5	246.1	286.4	320.0	396.1	474.4	539.3	613.1
90°	2.2	35.8	87.3	147.7	217.1	255.1	286.4	362.5	436.4	503.5	575.1
92.5°	4.5	24.6	71.6	127.5	192.4	230.5	261.8	333.4	402.8	472.2	541.5
95°	11.2	24.6	62.7	114.1	174.5	210.3	239.4	308.8	373.7	440.8	508.0
97.5°	17.9	26.9	60.4	107.4	161.1	194.7	221.5	286.4	351.3	411.7	478.9
100°	24.6	33.6	60.4	102.9	152.2	183.5	208.1	268.5	328.9	384.9	452.0
102.5°	31.3	40.3	64.9	102.9	147.7	174.5	199.2	255.1	311.0	362.5	425.2
105°	40.3	47.0	69.4	102.9	143.2	170.1	190.2	241.7	295.4	344.6	400.6
107.5°	49.2	53.7	73.8	105.2	143.2	165.6	185.7	232.7	282.0	326.7	380.4
110°	60.4	62.7	80.6	109.6	143.2	163.4	181.3	226.0	270.8	313.3	362.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	69.4	69.4	87.3	114.1	143.2	163.4	179.0	219.3	261.8	299.9	346.8
115°	80.6	80.6	94.0	118.6	145.5	163.4	179.0	217.1	255.1	288.7	333.4
117.5°	89.5	89.5	102.9	123.1	149.9	165.6	179.0	212.6	248.4	279.7	320.0
120°	98.5	98.5	107.4	127.5	152.2	167.8	179.0	210.3	241.7	273.0	308.8
122.5°	107.4	107.4	114.1	134.3	154.4	167.8	179.0	208.1	237.2	264.1	297.6
125°	116.4	116.4	120.8	138.7	158.9	170.1	181.3	208.1	235.0	257.3	290.9
127.5°	125.3	123.1	129.8	145.5	161.1	172.3	183.5	208.1	230.5	252.9	282.0
130°	132.0	129.8	138.7	149.9	165.6	174.5	183.5	205.9	228.2	248.4	273.0
132.5°	141.0	136.5	147.7	152.2	170.1	179.0	185.7	205.9	226.0	243.9	268.5
135°	147.7	143.2	154.4	158.9	172.3	181.3	188.0	205.9	223.8	241.7	261.8
137.5°	152.2	149.9	161.1	165.6	174.5	183.5	190.2	205.9	221.5	237.2	257.3
140°	154.4	152.2	161.1	170.1	174.5	183.5	188.0	203.6	219.3	232.7	250.6
142.5°	156.6	156.6	163.4	172.3	174.5	181.3	188.0	201.4	214.8	226.0	246.1
145°	156.6	156.6	163.4	174.5	176.8	179.0	183.5	196.9	208.1	219.3	237.2
147.5°	156.6	156.6	165.6	174.5	179.0	181.3	179.0	192.4	203.6	212.6	228.2
150°	156.6	156.6	165.6	174.5	181.3	183.5	181.3	188.0	196.9	205.9	219.3
152.5°	158.9	158.9	165.6	174.5	181.3	183.5	183.5	183.5	190.2	199.2	212.6
155°	158.9	161.1	165.6	179.0	183.5	185.7	185.7	185.7	183.5	192.4	203.6
157.5°	165.6	167.8	170.1	181.3	185.7	188.0	188.0	188.0	185.7	183.5	194.7
160°	172.3	174.5	176.8	185.7	190.2	192.4	192.4	192.4	188.0	185.7	185.7
162.5°	179.0	183.5	183.5	188.0	192.4	194.7	194.7	196.9	192.4	190.2	188.0
165°	188.0	190.2	190.2	192.4	196.9	199.2	196.9	199.2	196.9	194.7	192.4
167.5°	194.7	196.9	196.9	199.2	199.2	201.4	201.4	201.4	199.2	196.9	196.9
170°	201.4	203.6	203.6	203.6	203.6	203.6	203.6	203.6	201.4	196.9	196.9
172.5°	205.9	208.1	208.1	205.9	205.9	205.9	205.9	203.6	199.2	196.9	196.9
175°	208.1	210.3	210.3	208.1	205.9	205.9	205.9	203.6	199.2	196.9	196.9
177.5°	210.3	212.6	210.3	210.3	205.9	205.9	205.9	205.9	201.4	199.2	196.9
180°	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8
2.5°	2349.6	2322.7	2340.7	2342.9	2351.8	2342.9	2349.6	2342.9	2360.8	2354.1
5°	2340.7	2316.0	2331.7	2333.9	2345.1	2333.9	2345.1	2340.7	2363.0	2356.3
7.5°	2325.0	2304.8	2318.3	2320.5	2333.9	2322.7	2333.9	2329.5	2356.3	2347.4
10°	2302.6	2286.9	2300.4	2302.6	2316.0	2304.8	2313.8	2309.3	2338.4	2325.0
12.5°	2278.0	2264.6	2275.8	2278.0	2293.7	2282.5	2293.7	2289.2	2318.3	2304.8
15°	2242.2	2235.5	2246.7	2251.1	2266.8	2257.9	2269.0	2264.6	2295.9	2278.0
17.5°	2206.4	2201.9	2213.1	2217.6	2235.5	2224.3	2235.5	2231.0	2262.3	2244.4
20°	2161.6	2159.4	2170.6	2177.3	2193.0	2181.8	2195.2	2190.7	2224.3	2206.4
22.5°	2114.6	2114.6	2123.6	2130.3	2146.0	2137.0	2150.4	2148.2	2181.8	2163.9
25°	2063.2	2065.4	2074.4	2083.3	2101.2	2094.5	2105.7	2105.7	2137.0	2114.6
27.5°	2005.0	2016.2	2022.9	2034.1	2049.7	2043.0	2054.2	2056.5	2087.8	2065.4
30°	1944.6	1960.2	1967.0	1980.4	1993.8	1993.8	2005.0	2009.5	2040.8	2018.4
32.5°	1881.9	1899.8	1908.8	1926.7	1944.6	1944.6	1960.2	1967.0	1998.3	1978.1
35°	1819.3	1843.9	1855.1	1877.4	1895.3	1897.6	1913.2	1922.2	1953.5	1933.4
37.5°	1758.8	1790.2	1801.4	1828.2	1843.9	1848.4	1866.3	1877.4	1906.5	1888.6
40°	1696.2	1734.2	1747.7	1776.7	1790.2	1799.1	1817.0	1830.5	1857.3	1841.6
42.5°	1635.8	1678.3	1691.7	1723.0	1738.7	1747.7	1765.6	1783.5	1810.3	1794.6
45°	1575.4	1622.3	1638.0	1671.6	1685.0	1698.4	1718.6	1734.2	1758.8	1745.4
47.5°	1517.2	1566.4	1582.1	1617.9	1633.5	1649.2	1667.1	1689.5	1711.9	1698.4
50°	1456.8	1508.2	1528.4	1566.4	1579.8	1597.7	1620.1	1640.2	1662.6	1651.4
52.5°	1398.6	1452.3	1472.4	1512.7	1528.4	1546.3	1568.6	1591.0	1611.2	1602.2
55°	1335.9	1394.1	1416.5	1459.0	1474.7	1492.6	1517.2	1541.8	1559.7	1553.0
57.5°	1277.7	1338.2	1360.5	1407.5	1420.9	1443.3	1467.9	1494.8	1510.5	1503.7
60°	1219.6	1280.0	1306.8	1353.8	1369.5	1391.9	1416.5	1445.6	1459.0	1454.5
62.5°	1161.4	1224.0	1253.1	1302.4	1315.8	1340.4	1369.5	1394.1	1407.5	1405.3
65°	1107.7	1168.1	1201.7	1250.9	1264.3	1291.2	1318.0	1344.9	1358.3	1358.3
67.5°	1051.7	1116.6	1150.2	1201.7	1212.8	1241.9	1271.0	1297.9	1309.1	1309.1
70°	1000.3	1062.9	1101.0	1152.4	1163.6	1190.5	1221.8	1250.9	1259.8	1262.1
72.5°	948.8	1011.4	1051.7	1105.4	1116.6	1143.5	1172.6	1203.9	1210.6	1212.8
75°	899.6	962.2	1002.5	1056.2	1067.4	1094.2	1125.6	1154.7	1163.6	1165.8
77.5°	850.3	913.0	957.7	1009.2	1020.4	1047.3	1078.6	1107.7	1114.4	1118.9
80°	805.6	866.0	908.5	964.5	975.6	1002.5	1031.6	1060.7	1065.2	1071.9
82.5°	760.8	821.2	866.0	919.7	930.9	957.7	986.8	1015.9	1020.4	1029.3
85°	718.3	778.7	823.5	874.9	888.4	913.0	944.3	971.2	975.6	982.4
87.5°	680.3	736.2	783.2	832.4	845.9	870.5	901.8	928.7	930.9	939.8
90°	640.0	695.9	742.9	792.2	805.6	828.0	859.3	886.1	890.6	897.3
92.5°	606.4	657.9	707.1	754.1	765.3	789.9	819.0	845.9	850.3	857.0
95°	570.6	622.1	671.3	716.1	727.3	751.9	778.7	805.6	810.1	816.8
97.5°	539.3	588.5	635.5	680.3	691.5	713.8	742.9	767.5	772.0	781.0
100°	510.2	557.2	606.4	646.7	657.9	680.3	707.1	731.7	736.2	745.2
102.5°	483.3	528.1	575.1	613.1	626.6	646.7	673.6	695.9	700.4	707.1
105°	458.7	501.2	546.0	581.8	595.2	615.4	640.0	662.4	666.8	673.6
107.5°	434.1	474.4	516.9	552.7	563.9	581.8	606.4	628.8	633.3	642.2
110°	411.7	452.0	492.3	525.9	539.3	552.7	577.3	597.5	601.9	608.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	391.6	427.4	467.7	499.0	510.2	525.9	546.0	566.1	570.6	579.6
115°	373.7	407.3	447.5	476.6	485.6	499.0	521.4	539.3	543.8	550.5
117.5°	358.0	387.1	422.9	452.0	463.2	474.4	494.5	510.2	516.9	521.4
120°	344.6	371.5	402.8	429.6	443.1	452.0	469.9	485.6	492.3	496.8
122.5°	331.2	355.8	384.9	409.5	420.7	427.4	447.5	461.0	467.7	474.4
125°	320.0	342.4	369.2	389.4	400.6	407.3	425.2	438.6	445.3	449.8
127.5°	308.8	328.9	355.8	371.5	382.6	387.1	402.8	416.2	422.9	425.2
130°	297.6	317.8	340.1	355.8	364.7	371.5	384.9	393.8	400.6	402.8
132.5°	288.7	306.6	326.7	342.4	351.3	353.6	367.0	375.9	382.6	384.9
135°	282.0	295.4	315.5	328.9	335.7	340.1	351.3	358.0	364.7	367.0
137.5°	273.0	286.4	304.3	313.3	322.2	324.5	335.7	342.4	349.1	351.3
140°	266.3	277.5	293.1	302.1	311.0	311.0	320.0	326.7	333.4	333.4
142.5°	259.6	270.8	284.2	293.1	299.9	299.9	308.8	313.3	320.0	320.0
145°	250.6	261.8	275.2	282.0	288.7	288.7	295.4	299.9	306.6	306.6
147.5°	241.7	252.9	266.3	270.8	277.5	277.5	284.2	288.7	293.1	293.1
150°	230.5	239.4	255.1	261.8	268.5	268.5	273.0	277.5	282.0	282.0
152.5°	221.5	228.2	241.7	250.6	257.3	257.3	261.8	266.3	270.8	270.8
155°	210.3	217.1	228.2	239.4	246.1	248.4	252.9	255.1	259.6	259.6
157.5°	201.4	208.1	217.1	226.0	232.7	237.2	243.9	246.1	248.4	248.4
160°	190.2	194.7	203.6	212.6	219.3	223.8	235.0	237.2	239.4	239.4
162.5°	185.7	185.7	190.2	196.9	203.6	205.9	217.1	226.0	230.5	228.2
165°	188.0	185.7	185.7	188.0	192.4	194.7	201.4	214.8	219.3	217.1
167.5°	192.4	188.0	185.7	185.7	190.2	190.2	196.9	208.1	221.5	217.1
170°	192.4	185.7	181.3	181.3	183.5	183.5	188.0	194.7	208.1	210.3
172.5°	190.2	185.7	179.0	170.1	172.3	170.1	167.8	172.3	174.5	196.9
175°	192.4	185.7	179.0	167.8	163.4	156.6	145.5	136.5	134.3	109.6
177.5°	190.2	183.5	174.5	165.6	161.1	152.2	138.7	123.1	114.1	100.7
180°	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3



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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	14.33	15.64	14.97	16.30	17.07	17.95	19.26	18.59	19.93	20.70
	3H	15.67	16.87	16.33	17.55	18.35	20.90	22.10	21.56	22.78	23.58
	4H	16.08	17.22	16.75	17.90	18.72	22.41	23.55	23.08	24.24	25.05
	6H	16.29	17.35	16.98	18.05	18.88	24.02	25.08	24.71	25.78	26.61
	8H	16.33	17.34	17.02	18.06	18.89	24.87	25.89	25.57	26.61	27.44
	12H	16.33	17.31	17.03	18.02	18.88	25.82	26.79	26.52	27.51	28.37
4H	2H	15.48	16.62	16.16	17.31	18.12	18.26	19.40	18.94	20.09	20.90
	3H	17.12	18.10	17.81	18.82	19.66	21.45	22.43	22.14	23.15	23.98
	4H	17.69	18.59	18.40	19.32	20.18	23.13	24.03	23.83	24.76	25.62
	6H	18.03	18.83	18.75	19.58	20.45	24.95	25.75	25.67	26.50	27.36
	8H	18.11	18.86	18.83	19.60	20.49	25.92	26.67	26.65	27.42	28.31
	12H	18.13	18.82	18.88	19.59	20.48	27.01	27.69	27.76	28.46	29.35
8H	4H	18.80	19.55	19.53	20.30	21.18	23.30	24.05	24.03	24.80	25.68
	6H	19.41	20.05	20.16	20.84	21.72	25.30	25.94	26.05	26.72	27.61
	8H	19.60	20.18	20.37	20.97	21.87	26.41	26.99	27.18	27.78	28.68
	12H	19.72	20.23	20.49	21.01	21.97	27.69	28.21	28.46	28.99	29.94
12H	4H	19.16	19.85	19.91	20.62	21.51	23.29	23.98	24.04	24.75	25.64
	6H	19.94	20.52	20.71	21.31	22.21	25.32	25.90	26.09	26.69	27.59
	8H	20.27	20.79	21.04	21.57	22.52	26.51	27.02	27.28	27.80	28.76