

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: P894506

Luminaire Tested: 8TMB-12SL-FLTU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894506
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-12SL-FLTU-UNV-L935
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 35
Light Source: -
Ballast/Driver: -

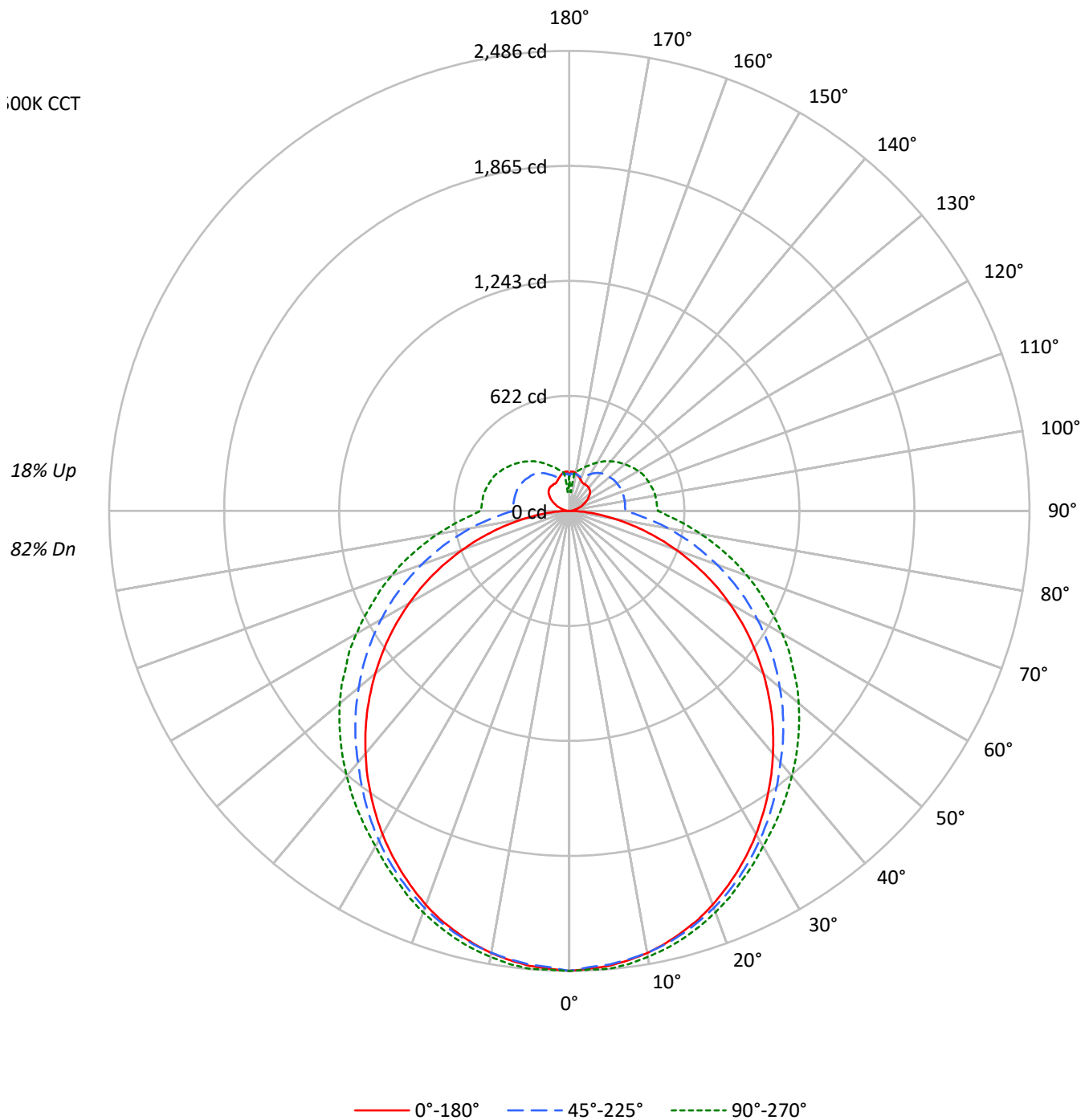
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9397.0 lumens
Efficiency: N/A
Efficacy: 105.8 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): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-12SL-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°	8820	8820	8820
5°	8768	8464	8440
10°	8703	8151	8040
15°	8595	7836	7656
20°	8474	7513	7268
25°	8315	7174	6873
30°	8145	6826	6514
35°	7957	6477	6218
40°	7758	6133	5935
45°	7560	5833	5666
50°	7328	5523	5405
55°	7080	5218	5112
60°	6781	4890	4835
65°	6425	4544	4521
70°	5955	4164	4230
75°	5303	3774	3914
80°	4444	3357	3591
85°	3345	2933	3295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	2.5
10°-20°	670.4	7.1
20°-30°	1007.3	10.7
30°-40°	1209.5	12.9
40°-50°	1271.8	13.5
50°-60°	1194.9	12.7
60°-70°	993.6	10.6
70°-80°	709.0	7.5
80°-90°	422.0	4.5
90°-100°	305.5	3.3
100°-110°	301.4	3.2
110°-120°	283.2	3.0
120°-130°	250.9	2.7
130°-140°	207.9	2.2
140°-150°	155.6	1.7
150°-160°	102.4	1.1
160°-170°	58.1	0.6
170°-180°	18.5	0.2
0°-30°	1912.7	20.4
0°-40°	3122.2	33.2
0°-60°	5588.9	59.5
0°-90°	7713.5	82.1
90°-120°	890.1	9.5
90°-150°	1504.6	16.0
90°-180°	1683.0	17.9
0°-180°	9397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2468	2497	2461	2468	2483	234
15°	2356	2393	2365	2381	2390	665
25°	2150	2191	2179	2200	2204	990
35°	1870	1914	1920	1968	1986	1170
45°	1546	1589	1634	1718	1748	1192
55°	1187	1235	1332	1442	1473	1061
65°	808	874	1012	1140	1171	799
75°	424	520	692	826	869	451
85°	107	234	406	542	588	117
90°	0	134	302	434	479	7
95°	11	141	302	429	474	13
105°	43	157	304	424	465	46
115°	84	170	302	406	447	84
125°	127	182	293	381	411	113
135°	157	191	277	347	372	121
145°	166	186	250	309	327	104
155°	168	188	211	261	277	79
165°	193	204	198	200	232	54
175°	213	211	200	170	102	20
180°	186	186	186	186	186	



TEST NUMBER: P894506
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2476.6	2483.4	2485.7	2508.4	2499.3	2508.4	2492.5	2474.3	2469.8	2481.1	2467.5
5°	2467.5	2474.3	2476.6	2499.3	2490.2	2497.0	2483.4	2465.2	2460.7	2474.3	2460.7
7.5°	2449.3	2456.2	2458.4	2483.4	2472.0	2481.1	2465.2	2447.1	2444.8	2458.4	2444.8
10°	2426.6	2433.5	2435.7	2458.4	2449.3	2458.4	2442.5	2424.4	2422.1	2438.0	2424.4
12.5°	2394.9	2401.7	2406.2	2428.9	2417.6	2428.9	2410.8	2392.6	2394.9	2408.5	2399.4
15°	2356.3	2365.4	2367.6	2390.3	2381.2	2392.6	2374.4	2356.3	2360.8	2374.4	2365.4
17.5°	2315.4	2324.5	2326.8	2347.2	2338.1	2351.7	2331.3	2315.4	2320.0	2333.6	2326.8
20°	2265.5	2274.6	2279.1	2299.5	2290.4	2304.1	2283.6	2270.0	2274.6	2290.4	2283.6
22.5°	2208.7	2222.3	2224.6	2247.3	2236.0	2249.6	2229.2	2217.8	2224.6	2240.5	2233.7
25°	2149.7	2163.3	2165.6	2188.3	2179.2	2190.6	2170.1	2158.8	2167.9	2183.8	2179.2
27.5°	2086.1	2099.8	2104.3	2124.7	2115.7	2129.3	2106.6	2099.8	2108.8	2124.7	2120.2
30°	2018.0	2031.7	2033.9	2054.4	2047.6	2061.2	2040.7	2031.7	2045.3	2061.2	2056.6
32.5°	1945.4	1959.0	1965.8	1984.0	1977.2	1988.5	1970.4	1965.8	1977.2	1993.1	1990.8
35°	1870.5	1884.1	1890.9	1911.4	1902.3	1913.6	1895.5	1890.9	1909.1	1920.4	1920.4
37.5°	1793.3	1806.9	1813.7	1834.2	1822.8	1836.4	1818.3	1816.0	1836.4	1847.8	1847.8
40°	1711.6	1727.5	1734.3	1752.5	1743.4	1754.7	1738.8	1741.1	1759.3	1772.9	1775.2
42.5°	1629.9	1645.8	1652.6	1673.0	1661.7	1673.0	1659.4	1661.7	1682.1	1695.7	1707.1
45°	1545.9	1559.5	1566.3	1589.0	1575.4	1589.0	1575.4	1579.9	1600.4	1620.8	1634.4
47.5°	1457.3	1471.0	1482.3	1500.5	1489.1	1500.5	1491.4	1498.2	1523.2	1543.6	1561.8
50°	1368.8	1382.4	1393.8	1409.7	1398.3	1414.2	1402.9	1411.9	1443.7	1464.2	1484.6
52.5°	1278.0	1289.4	1307.5	1316.6	1307.5	1325.7	1316.6	1330.2	1362.0	1387.0	1409.7
55°	1187.2	1198.6	1216.7	1223.5	1214.5	1234.9	1228.1	1246.2	1280.3	1307.5	1332.5
57.5°	1094.1	1105.5	1121.4	1128.2	1121.4	1144.1	1141.8	1162.2	1196.3	1225.8	1253.0
60°	998.8	1010.2	1023.8	1030.6	1030.6	1053.3	1053.3	1078.3	1114.6	1141.8	1173.6
62.5°	905.7	912.5	926.2	935.2	942.1	964.8	964.8	992.0	1030.6	1062.4	1094.1
65°	808.1	814.9	826.3	837.6	849.0	874.0	876.2	905.7	944.3	976.1	1012.4
67.5°	710.5	717.3	728.7	742.3	758.2	783.2	787.7	819.5	860.3	896.7	930.7
70°	615.2	617.4	631.1	649.2	667.4	692.4	699.2	733.2	776.3	812.7	849.0
72.5°	519.8	522.1	535.7	558.4	578.9	606.1	615.2	651.5	694.6	730.9	767.3
75°	424.5	426.8	444.9	472.2	494.9	519.8	531.2	569.8	612.9	651.5	692.4
77.5°	333.7	338.2	356.4	383.6	410.9	440.4	451.7	490.3	538.0	574.3	612.9
80°	249.7	254.2	274.7	304.2	333.7	360.9	374.6	413.1	463.1	499.4	542.5
82.5°	172.5	179.3	204.3	236.1	265.6	295.1	308.7	345.0	390.4	431.3	472.2
85°	106.7	115.8	140.7	174.8	206.6	233.8	247.4	286.0	329.2	367.7	406.3
87.5°	49.9	63.6	88.5	122.6	156.6	179.3	195.2	233.8	274.7	313.3	351.9
90°	0.0	20.4	45.4	79.5	113.5	133.9	152.1	188.4	229.3	265.6	301.9
92.5°	4.5	22.7	49.9	81.7	115.8	136.2	154.4	190.7	229.3	265.6	301.9
95°	11.4	25.0	52.2	86.3	120.3	140.7	156.6	193.0	231.5	267.9	301.9
97.5°	20.4	31.8	59.0	90.8	124.9	143.0	161.2	197.5	233.8	270.1	304.2
100°	27.2	36.3	63.6	95.3	129.4	147.6	165.7	199.8	236.1	272.4	304.2
102.5°	34.1	45.4	70.4	99.9	133.9	152.1	168.0	202.0	238.4	272.4	304.2
105°	43.1	52.2	74.9	106.7	138.5	156.6	172.5	206.6	240.6	274.7	304.2
107.5°	52.2	59.0	81.7	111.2	143.0	158.9	174.8	208.8	242.9	274.7	304.2
110°	63.6	68.1	88.5	115.8	145.3	163.4	179.3	211.1	242.9	274.7	304.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	74.9	74.9	95.3	120.3	149.8	165.7	181.6	213.4	245.2	274.7	304.2
115°	84.0	86.3	102.2	124.9	154.4	170.3	183.9	213.4	245.2	274.7	301.9
117.5°	95.3	95.3	111.2	129.4	156.6	172.5	188.4	215.7	245.2	272.4	299.6
120°	106.7	104.4	118.0	136.2	161.2	174.8	190.7	217.9	245.2	272.4	297.4
122.5°	118.0	113.5	122.6	140.7	163.4	179.3	190.7	217.9	245.2	270.1	295.1
125°	127.1	122.6	129.4	147.6	168.0	181.6	193.0	217.9	245.2	267.9	292.8
127.5°	136.2	131.7	138.5	152.1	170.3	181.6	195.2	217.9	245.2	265.6	288.3
130°	145.3	138.5	147.6	156.6	174.8	183.9	195.2	217.9	242.9	263.3	283.8
132.5°	152.1	145.3	154.4	161.2	177.1	186.1	197.5	217.9	240.6	261.1	281.5
135°	156.6	149.8	161.2	165.7	181.6	190.7	199.8	217.9	238.4	258.8	276.9
137.5°	161.2	152.1	165.7	170.3	183.9	193.0	199.8	215.7	236.1	254.2	272.4
140°	163.4	156.6	170.3	174.8	181.6	190.7	199.8	213.4	231.5	249.7	265.6
142.5°	165.7	156.6	172.5	177.1	181.6	188.4	197.5	208.8	227.0	242.9	258.8
145°	165.7	158.9	172.5	177.1	181.6	186.1	193.0	206.6	220.2	233.8	249.7
147.5°	165.7	161.2	174.8	179.3	183.9	183.9	188.4	202.0	213.4	227.0	240.6
150°	168.0	161.2	174.8	179.3	186.1	186.1	188.4	195.2	208.8	217.9	229.3
152.5°	165.7	163.4	172.5	181.6	186.1	188.4	188.4	190.7	202.0	211.1	220.2
155°	168.0	168.0	174.8	186.1	188.4	188.4	190.7	188.4	193.0	202.0	211.1
157.5°	172.5	177.1	177.1	188.4	193.0	193.0	195.2	193.0	190.7	193.0	202.0
160°	179.3	183.9	183.9	190.7	197.5	197.5	199.8	197.5	195.2	193.0	193.0
162.5°	186.1	190.7	190.7	193.0	199.8	202.0	204.3	202.0	199.8	195.2	193.0
165°	193.0	197.5	197.5	197.5	202.0	204.3	206.6	204.3	204.3	199.8	197.5
167.5°	199.8	204.3	204.3	202.0	204.3	206.6	208.8	206.6	206.6	204.3	199.8
170°	206.6	211.1	211.1	206.6	208.8	208.8	211.1	208.8	208.8	204.3	202.0
172.5°	211.1	215.7	213.4	211.1	211.1	211.1	211.1	208.8	206.6	202.0	202.0
175°	213.4	217.9	217.9	213.4	211.1	211.1	213.4	208.8	206.6	204.3	199.8
177.5°	213.4	217.9	217.9	213.4	213.4	211.1	213.4	211.1	211.1	206.6	202.0
180°	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2476.6	2474.3	2460.7	2476.6	2476.6	2472.0	2490.2	2487.9	2485.7	2481.1
5°	2467.5	2465.2	2451.6	2467.5	2467.5	2465.2	2483.4	2485.7	2487.9	2483.4
7.5°	2453.9	2451.6	2438.0	2453.9	2453.9	2451.6	2472.0	2474.3	2476.6	2469.8
10°	2433.5	2431.2	2417.6	2433.5	2435.7	2433.5	2449.3	2451.6	2456.2	2447.1
12.5°	2406.2	2406.2	2392.6	2408.5	2410.8	2408.5	2424.4	2428.9	2433.5	2422.1
15°	2372.2	2374.4	2363.1	2379.0	2381.2	2381.2	2397.1	2399.4	2406.2	2390.3
17.5°	2331.3	2335.8	2326.8	2342.7	2344.9	2347.2	2356.3	2363.1	2369.9	2351.7
20°	2288.2	2290.4	2283.6	2297.3	2301.8	2299.5	2310.9	2320.0	2326.8	2308.6
22.5°	2236.0	2238.2	2231.4	2245.0	2249.6	2251.9	2260.9	2272.3	2276.8	2260.9
25°	2176.9	2186.0	2181.5	2195.1	2199.6	2199.6	2208.7	2220.1	2226.9	2204.2
27.5°	2120.2	2131.5	2127.0	2140.6	2145.2	2147.4	2152.0	2165.6	2172.4	2152.0
30°	2056.6	2070.3	2068.0	2081.6	2086.1	2083.9	2093.0	2106.6	2115.7	2093.0
32.5°	1986.3	2004.4	2002.2	2020.3	2024.9	2027.1	2033.9	2052.1	2061.2	2040.7
35°	1918.2	1938.6	1940.9	1961.3	1968.1	1970.4	1979.5	1997.6	2006.7	1986.3
37.5°	1847.8	1875.0	1881.8	1902.3	1909.1	1911.4	1920.4	1940.9	1949.9	1929.5
40°	1779.7	1811.5	1820.6	1838.7	1845.5	1852.3	1859.1	1879.6	1890.9	1870.5
42.5°	1711.6	1745.6	1757.0	1775.2	1782.0	1788.8	1797.9	1820.6	1829.6	1811.5
45°	1641.2	1677.5	1691.2	1709.3	1718.4	1725.2	1734.3	1754.7	1766.1	1747.9
47.5°	1570.8	1607.2	1620.8	1641.2	1650.3	1659.4	1666.2	1691.2	1702.5	1684.4
50°	1495.9	1536.8	1552.7	1570.8	1584.5	1591.3	1600.4	1623.1	1634.4	1618.5
52.5°	1421.0	1464.2	1482.3	1500.5	1514.1	1525.4	1530.0	1555.0	1566.3	1550.4
55°	1343.8	1387.0	1407.4	1427.8	1441.5	1455.1	1459.6	1484.6	1495.9	1473.2
57.5°	1266.7	1312.1	1332.5	1355.2	1366.5	1382.4	1389.2	1411.9	1423.3	1407.4
60°	1189.5	1232.6	1257.6	1278.0	1293.9	1307.5	1312.1	1337.0	1348.4	1328.0
62.5°	1110.0	1155.4	1180.4	1203.1	1216.7	1232.6	1239.4	1262.1	1271.2	1250.8
65°	1028.3	1073.7	1101.0	1121.4	1139.5	1153.2	1157.7	1182.7	1191.8	1171.3
67.5°	946.6	992.0	1021.5	1044.2	1060.1	1076.0	1080.5	1105.5	1114.6	1098.7
70°	867.1	912.5	942.1	969.3	980.6	996.5	1003.3	1026.0	1035.1	1021.5
72.5°	787.7	833.1	864.9	892.1	903.5	919.4	928.4	946.6	960.2	948.9
75°	710.5	755.9	787.7	814.9	826.3	842.2	851.3	869.4	878.5	869.4
77.5°	635.6	681.0	710.5	737.8	751.4	765.0	774.1	792.2	803.6	794.5
80°	563.0	608.4	637.9	662.8	676.5	690.1	699.2	719.6	728.7	721.9
82.5°	494.9	538.0	569.8	594.7	608.4	622.0	631.1	649.2	660.6	651.5
85°	433.6	476.7	506.2	531.2	542.5	556.2	565.2	583.4	592.5	587.9
87.5°	374.6	413.1	447.2	472.2	483.5	497.1	508.5	522.1	533.5	526.6
90°	329.2	363.2	395.0	420.0	433.6	447.2	460.8	474.4	483.5	479.0
92.5°	331.4	363.2	392.7	415.4	429.0	442.7	456.3	472.2	479.0	474.4
95°	331.4	363.2	392.7	415.4	429.0	442.7	456.3	472.2	479.0	474.4
97.5°	331.4	363.2	392.7	415.4	429.0	442.7	456.3	472.2	479.0	472.2
100°	331.4	363.2	392.7	415.4	429.0	440.4	454.0	469.9	476.7	472.2
102.5°	331.4	363.2	390.4	413.1	426.8	438.1	451.7	467.6	474.4	469.9
105°	331.4	360.9	390.4	410.9	424.5	435.8	449.5	463.1	469.9	465.4
107.5°	329.2	358.7	385.9	408.6	420.0	431.3	444.9	458.5	465.4	460.8
110°	329.2	356.4	383.6	404.1	415.4	426.8	440.4	454.0	460.8	456.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	326.9	354.1	381.4	399.5	410.9	422.2	433.6	449.5	456.3	451.7
115°	324.6	351.9	376.8	395.0	406.3	415.4	429.0	444.9	449.5	447.2
117.5°	322.3	347.3	372.3	390.4	401.8	410.9	422.2	435.8	442.7	440.4
120°	320.1	342.8	367.7	383.6	395.0	404.1	413.1	426.8	433.6	429.0
122.5°	315.5	338.2	363.2	379.1	388.2	397.3	406.3	417.7	424.5	422.2
125°	311.0	333.7	356.4	372.3	381.4	388.2	397.3	408.6	413.1	410.9
127.5°	306.5	329.2	349.6	363.2	374.6	381.4	388.2	399.5	404.1	401.8
130°	301.9	322.3	342.8	356.4	365.5	372.3	379.1	390.4	392.7	392.7
132.5°	297.4	315.5	336.0	349.6	358.7	363.2	370.0	379.1	383.6	381.4
135°	292.8	308.7	329.2	340.5	347.3	354.1	360.9	370.0	372.3	372.3
137.5°	286.0	301.9	320.1	331.4	338.2	342.8	349.6	358.7	360.9	360.9
140°	279.2	295.1	311.0	320.1	329.2	333.7	338.2	347.3	349.6	349.6
142.5°	272.4	286.0	301.9	311.0	320.1	322.3	329.2	336.0	338.2	338.2
145°	263.3	279.2	292.8	301.9	308.7	311.0	317.8	324.6	324.6	326.9
147.5°	252.0	265.6	283.8	290.6	297.4	299.6	306.5	311.0	313.3	313.3
150°	240.6	254.2	270.1	281.5	288.3	290.6	292.8	299.6	299.6	301.9
152.5°	229.3	240.6	256.5	267.9	276.9	279.2	281.5	286.0	286.0	288.3
155°	217.9	227.0	240.6	252.0	261.1	265.6	270.1	274.7	274.7	276.9
157.5°	208.8	217.9	229.3	238.4	245.2	252.0	258.8	263.3	263.3	263.3
160°	197.5	204.3	215.7	222.5	231.5	236.1	247.4	252.0	252.0	254.2
162.5°	190.7	193.0	199.8	206.6	213.4	217.9	229.3	240.6	240.6	242.9
165°	193.0	190.7	193.0	195.2	199.8	202.0	208.8	224.7	229.3	231.5
167.5°	197.5	190.7	190.7	190.7	195.2	195.2	202.0	211.1	227.0	222.5
170°	197.5	190.7	186.1	186.1	188.4	186.1	190.7	197.5	206.6	215.7
172.5°	199.8	193.0	186.1	177.1	179.3	177.1	172.5	172.5	174.8	204.3
175°	197.5	193.0	183.9	172.5	170.3	163.4	149.8	138.5	131.7	102.2
177.5°	195.2	188.4	181.6	172.5	168.0	161.2	145.3	127.1	109.0	104.4
180°	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1	186.1



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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	15.27	16.59	15.89	17.22	17.95	17.90	19.22	18.52	19.85	20.57
	3H	16.67	17.87	17.30	18.52	19.27	20.36	21.56	20.99	22.20	22.96
	4H	17.10	18.24	17.75	18.89	19.66	21.53	22.67	22.18	23.32	24.09
	6H	17.34	18.40	18.00	19.06	19.85	22.71	23.77	23.37	24.43	25.22
	8H	17.38	18.39	18.05	19.08	19.87	23.30	24.31	23.97	25.00	25.79
	12H	17.39	18.36	18.07	19.04	19.86	23.94	24.90	24.61	25.59	26.40
4H	2H	16.17	17.31	16.82	17.97	18.74	18.24	19.38	18.89	20.04	20.81
	3H	17.80	18.76	18.46	19.46	20.24	20.91	21.87	21.57	22.57	23.36
	4H	18.35	19.24	19.03	19.93	20.75	22.22	23.11	22.90	23.81	24.62
	6H	18.69	19.47	19.39	20.19	21.02	23.58	24.35	24.27	25.08	25.90
	8H	18.76	19.50	19.47	20.21	21.06	24.27	25.00	24.97	25.72	26.56
	12H	18.79	19.46	19.52	20.20	21.05	25.02	25.68	25.74	26.42	27.27
8H	4H	19.01	19.75	19.72	20.46	21.30	22.37	23.10	23.08	23.82	24.66
	6H	19.52	20.14	20.25	20.89	21.74	23.87	24.48	24.60	25.24	26.09
	8H	19.67	20.23	20.42	20.99	21.85	24.68	25.23	25.42	25.99	26.85
	12H	19.76	20.26	20.51	21.01	21.93	25.59	26.08	26.33	26.83	27.75
12H	4H	19.18	19.85	19.91	20.59	21.44	22.36	23.03	23.09	23.77	24.61
	6H	19.78	20.34	20.53	21.10	21.96	23.88	24.44	24.63	25.20	26.06
	8H	20.02	20.51	20.77	21.26	22.18	24.74	25.24	25.49	25.99	26.91