

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: P894389

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894389
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-L830
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 30
Light Source: -
Ballast/Driver: -

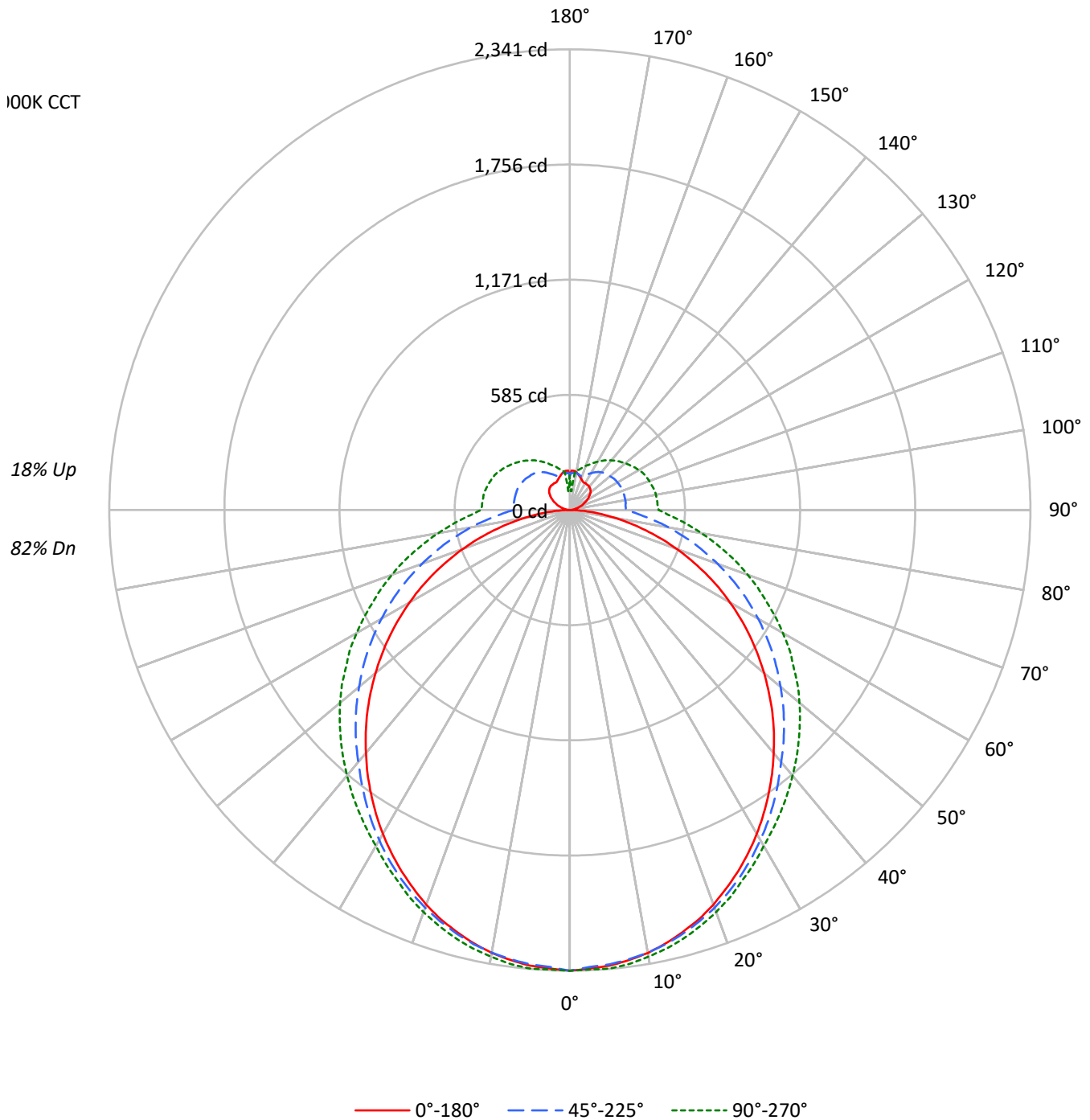
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8850.0 lumens
Efficiency: N/A
Efficacy: 126.4 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_{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

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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	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°	8306	8306	8306
5°	8258	7971	7949
10°	8196	7677	7572
15°	8095	7380	7211
20°	7980	7075	6844
25°	7831	6756	6473
30°	7671	6429	6135
35°	7493	6100	5856
40°	7306	5776	5589
45°	7120	5494	5336
50°	6901	5202	5090
55°	6668	4914	4815
60°	6387	4606	4554
65°	6051	4280	4258
70°	5608	3922	3983
75°	4994	3555	3686
80°	4186	3162	3382
85°	3151	2763	3104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	2.5
10°-20°	631.4	7.1
20°-30°	948.6	10.7
30°-40°	1139.1	12.9
40°-50°	1197.7	13.5
50°-60°	1125.4	12.7
60°-70°	935.8	10.6
70°-80°	667.8	7.5
80°-90°	397.5	4.5
90°-100°	287.7	3.3
100°-110°	283.9	3.2
110°-120°	266.7	3.0
120°-130°	236.3	2.7
130°-140°	195.8	2.2
140°-150°	146.6	1.7
150°-160°	96.4	1.1
160°-170°	54.7	0.6
170°-180°	17.4	0.2
0°-30°	1801.4	20.4
0°-40°	2940.4	33.2
0°-60°	5263.5	59.5
0°-90°	7264.5	82.1
90°-120°	838.3	9.5
90°-150°	1417.0	16.0
90°-180°	1585.0	17.9
0°-180°	8850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2324	2352	2318	2324	2339	221
15°	2219	2253	2228	2243	2251	626
25°	2025	2063	2052	2072	2076	933
35°	1762	1802	1809	1854	1871	1102
45°	1456	1496	1539	1618	1646	1122
55°	1118	1163	1255	1358	1388	999
65°	761	823	954	1073	1103	753
75°	400	490	652	778	819	425
85°	100	220	383	511	554	110
90°	0	126	284	408	451	7
95°	11	132	284	404	447	12
105°	41	148	286	400	438	43
115°	79	160	284	383	421	79
125°	120	171	276	359	387	107
135°	148	180	261	327	351	114
145°	156	175	235	291	308	98
155°	158	177	199	246	261	74
165°	182	192	186	188	218	51
175°	201	199	188	160	96	19
180°	175	175	175	175	175	



TEST NUMBER: P894389
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L830

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0
2.5°	2332.4	2338.8	2341.0	2362.4	2353.8	2362.4	2347.4	2330.3	2326.0	2336.7	2323.9
5°	2323.9	2330.3	2332.4	2353.8	2345.3	2351.7	2338.8	2321.7	2317.5	2330.3	2317.5
7.5°	2306.8	2313.2	2315.3	2338.8	2328.1	2336.7	2321.7	2304.6	2302.5	2315.3	2302.5
10°	2285.4	2291.8	2293.9	2315.3	2306.8	2315.3	2300.4	2283.3	2281.1	2296.1	2283.3
12.5°	2255.5	2261.9	2266.1	2287.5	2276.8	2287.5	2270.4	2253.3	2255.5	2268.3	2259.7
15°	2219.1	2227.7	2229.8	2251.2	2242.6	2253.3	2236.2	2219.1	2223.4	2236.2	2227.7
17.5°	2180.6	2189.2	2191.3	2210.6	2202.0	2214.8	2195.6	2180.6	2184.9	2197.7	2191.3
20°	2133.6	2142.2	2146.4	2165.7	2157.1	2169.9	2150.7	2137.9	2142.2	2157.1	2150.7
22.5°	2080.2	2093.0	2095.1	2116.5	2105.8	2118.6	2099.4	2088.7	2095.1	2110.1	2103.7
25°	2024.6	2037.4	2039.5	2060.9	2052.4	2063.1	2043.8	2033.1	2041.7	2056.6	2052.4
27.5°	1964.7	1977.5	1981.8	2001.1	1992.5	2005.3	1983.9	1977.5	1986.1	2001.1	1996.8
30°	1900.6	1913.4	1915.5	1934.8	1928.4	1941.2	1922.0	1913.4	1926.2	1941.2	1936.9
32.5°	1832.2	1845.0	1851.4	1868.5	1862.1	1872.8	1855.7	1851.4	1862.1	1877.1	1874.9
35°	1761.6	1774.4	1780.9	1800.1	1791.5	1802.2	1785.1	1780.9	1798.0	1808.6	1808.6
37.5°	1688.9	1701.7	1708.2	1727.4	1716.7	1729.5	1712.4	1710.3	1729.5	1740.2	1740.2
40°	1612.0	1626.9	1633.3	1650.4	1641.9	1652.6	1637.6	1639.8	1656.9	1669.7	1671.8
42.5°	1535.0	1550.0	1556.4	1575.6	1564.9	1575.6	1562.8	1564.9	1584.2	1597.0	1607.7
45°	1455.9	1468.7	1475.1	1496.5	1483.7	1496.5	1483.7	1488.0	1507.2	1526.4	1539.3
47.5°	1372.5	1385.3	1396.0	1413.1	1402.4	1413.1	1404.6	1411.0	1434.5	1453.8	1470.9
50°	1289.1	1302.0	1312.7	1327.6	1316.9	1331.9	1321.2	1329.8	1359.7	1378.9	1398.2
52.5°	1203.6	1214.3	1231.4	1240.0	1231.4	1248.5	1240.0	1252.8	1282.7	1306.2	1327.6
55°	1118.1	1128.8	1145.9	1152.3	1143.8	1163.0	1156.6	1173.7	1205.8	1231.4	1254.9
57.5°	1030.5	1041.1	1056.1	1062.5	1056.1	1077.5	1075.4	1094.6	1126.7	1154.5	1180.1
60°	940.7	951.4	964.2	970.6	970.6	992.0	992.0	1015.5	1049.7	1075.4	1105.3
62.5°	853.0	859.4	872.3	880.8	887.2	908.6	908.6	934.3	970.6	1000.5	1030.5
65°	761.1	767.5	778.2	788.9	799.6	823.1	825.2	853.0	889.4	919.3	953.5
67.5°	669.2	675.6	686.3	699.1	714.1	737.6	741.8	771.8	810.3	844.5	876.5
70°	579.4	581.5	594.3	611.4	628.5	652.1	658.5	690.5	731.2	765.4	799.6
72.5°	489.6	491.7	504.5	525.9	545.2	570.8	579.4	613.6	654.2	688.4	722.6
75°	399.8	401.9	419.0	444.7	466.1	489.6	500.3	536.6	577.2	613.6	652.1
77.5°	314.3	318.5	335.6	361.3	387.0	414.7	425.4	461.8	506.7	540.9	577.2
80°	235.2	239.4	258.7	286.5	314.3	339.9	352.7	389.1	436.1	470.3	511.0
82.5°	162.5	168.9	192.4	222.3	250.1	277.9	290.8	325.0	367.7	406.2	444.7
85°	100.5	109.0	132.5	164.6	194.5	220.2	233.0	269.4	310.0	346.3	382.7
87.5°	47.0	59.9	83.4	115.4	147.5	168.9	183.9	220.2	258.7	295.0	331.4
90°	0.0	19.2	42.8	74.8	106.9	126.1	143.2	177.4	215.9	250.1	284.3
92.5°	4.3	21.4	47.0	77.0	109.0	128.3	145.4	179.6	215.9	250.1	284.3
95°	10.7	23.5	49.2	81.2	113.3	132.5	147.5	181.7	218.1	252.3	284.3
97.5°	19.2	29.9	55.6	85.5	117.6	134.7	151.8	186.0	220.2	254.4	286.5
100°	25.7	34.2	59.9	89.8	121.9	139.0	156.1	188.1	222.3	256.5	286.5
102.5°	32.1	42.8	66.3	94.1	126.1	143.2	158.2	190.3	224.5	256.5	286.5
105°	40.6	49.2	70.5	100.5	130.4	147.5	162.5	194.5	226.6	258.7	286.5
107.5°	49.2	55.6	77.0	104.8	134.7	149.7	164.6	196.7	228.8	258.7	286.5
110°	59.9	64.1	83.4	109.0	136.8	153.9	168.9	198.8	228.8	258.7	286.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.5	70.5	89.8	113.3	141.1	156.1	171.0	201.0	230.9	258.7	286.5
115°	79.1	81.2	96.2	117.6	145.4	160.3	173.2	201.0	230.9	258.7	284.3
117.5°	89.8	89.8	104.8	121.9	147.5	162.5	177.4	203.1	230.9	256.5	282.2
120°	100.5	98.3	111.2	128.3	151.8	164.6	179.6	205.2	230.9	256.5	280.1
122.5°	111.2	106.9	115.4	132.5	153.9	168.9	179.6	205.2	230.9	254.4	277.9
125°	119.7	115.4	121.9	139.0	158.2	171.0	181.7	205.2	230.9	252.3	275.8
127.5°	128.3	124.0	130.4	143.2	160.3	171.0	183.9	205.2	230.9	250.1	271.5
130°	136.8	130.4	139.0	147.5	164.6	173.2	183.9	205.2	228.8	248.0	267.2
132.5°	143.2	136.8	145.4	151.8	166.8	175.3	186.0	205.2	226.6	245.9	265.1
135°	147.5	141.1	151.8	156.1	171.0	179.6	188.1	205.2	224.5	243.7	260.8
137.5°	151.8	143.2	156.1	160.3	173.2	181.7	188.1	203.1	222.3	239.4	256.5
140°	153.9	147.5	160.3	164.6	171.0	179.6	188.1	201.0	218.1	235.2	250.1
142.5°	156.1	147.5	162.5	166.8	171.0	177.4	186.0	196.7	213.8	228.8	243.7
145°	156.1	149.7	162.5	166.8	171.0	175.3	181.7	194.5	207.4	220.2	235.2
147.5°	156.1	151.8	164.6	168.9	173.2	173.2	177.4	190.3	201.0	213.8	226.6
150°	158.2	151.8	164.6	168.9	175.3	175.3	177.4	183.9	196.7	205.2	215.9
152.5°	156.1	153.9	162.5	171.0	175.3	177.4	177.4	179.6	190.3	198.8	207.4
155°	158.2	158.2	164.6	175.3	177.4	177.4	179.6	177.4	181.7	190.3	198.8
157.5°	162.5	166.8	166.8	177.4	181.7	181.7	183.9	181.7	179.6	181.7	190.3
160°	168.9	173.2	173.2	179.6	186.0	186.0	188.1	186.0	183.9	181.7	181.7
162.5°	175.3	179.6	179.6	181.7	188.1	190.3	192.4	190.3	188.1	183.9	181.7
165°	181.7	186.0	186.0	186.0	190.3	192.4	194.5	192.4	192.4	188.1	186.0
167.5°	188.1	192.4	192.4	190.3	192.4	194.5	196.7	194.5	194.5	192.4	188.1
170°	194.5	198.8	198.8	194.5	196.7	196.7	198.8	196.7	196.7	192.4	190.3
172.5°	198.8	203.1	201.0	198.8	198.8	198.8	198.8	196.7	194.5	190.3	190.3
175°	201.0	205.2	205.2	201.0	198.8	198.8	201.0	196.7	194.5	192.4	188.1
177.5°	201.0	205.2	205.2	201.0	198.8	198.8	201.0	198.8	198.8	194.5	190.3
180°	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0	2341.0
2.5°	2332.4	2330.3	2317.5	2332.4	2332.4	2328.1	2345.3	2343.1	2341.0	2336.7
5°	2323.9	2321.7	2308.9	2323.9	2323.9	2321.7	2338.8	2341.0	2343.1	2338.8
7.5°	2311.0	2308.9	2296.1	2311.0	2311.0	2308.9	2328.1	2330.3	2332.4	2326.0
10°	2291.8	2289.7	2276.8	2291.8	2293.9	2291.8	2306.8	2308.9	2313.2	2304.6
12.5°	2266.1	2266.1	2253.3	2268.3	2270.4	2268.3	2283.3	2287.5	2291.8	2281.1
15°	2234.1	2236.2	2225.5	2240.5	2242.6	2242.6	2257.6	2259.7	2266.1	2251.2
17.5°	2195.6	2199.9	2191.3	2206.3	2208.4	2210.6	2219.1	2225.5	2231.9	2214.8
20°	2155.0	2157.1	2150.7	2163.5	2167.8	2165.7	2176.4	2184.9	2191.3	2174.2
22.5°	2105.8	2107.9	2101.5	2114.4	2118.6	2120.8	2129.3	2140.0	2144.3	2129.3
25°	2050.2	2058.8	2054.5	2067.3	2071.6	2071.6	2080.2	2090.8	2097.3	2075.9
27.5°	1996.8	2007.5	2003.2	2016.0	2020.3	2022.4	2026.7	2039.5	2045.9	2026.7
30°	1936.9	1949.7	1947.6	1960.4	1964.7	1962.6	1971.1	1983.9	1992.5	1971.1
32.5°	1870.6	1887.7	1885.6	1902.7	1907.0	1909.1	1915.5	1932.6	1941.2	1922.0
35°	1806.5	1825.7	1827.9	1847.1	1853.5	1855.7	1864.2	1881.3	1889.9	1870.6
37.5°	1740.2	1765.9	1772.3	1791.5	1798.0	1800.1	1808.6	1827.9	1836.4	1817.2
40°	1676.1	1706.0	1714.6	1731.7	1738.1	1744.5	1750.9	1770.2	1780.9	1761.6
42.5°	1612.0	1644.0	1654.7	1671.8	1678.2	1684.6	1693.2	1714.6	1723.1	1706.0
45°	1545.7	1579.9	1592.7	1609.8	1618.4	1624.8	1633.3	1652.6	1663.3	1646.2
47.5°	1479.4	1513.6	1526.4	1545.7	1554.2	1562.8	1569.2	1592.7	1603.4	1586.3
50°	1408.9	1447.3	1462.3	1479.4	1492.2	1498.7	1507.2	1528.6	1539.3	1524.3
52.5°	1338.3	1378.9	1396.0	1413.1	1426.0	1436.7	1440.9	1464.4	1475.1	1460.2
55°	1265.6	1306.2	1325.5	1344.7	1357.6	1370.4	1374.7	1398.2	1408.9	1387.5
57.5°	1192.9	1235.7	1254.9	1276.3	1287.0	1302.0	1308.4	1329.8	1340.4	1325.5
60°	1120.2	1160.9	1184.4	1203.6	1218.6	1231.4	1235.7	1259.2	1269.9	1250.7
62.5°	1045.4	1088.2	1111.7	1133.1	1145.9	1160.9	1167.3	1188.7	1197.2	1178.0
65°	968.5	1011.2	1036.9	1056.1	1073.2	1086.0	1090.3	1113.8	1122.4	1103.1
67.5°	891.5	934.3	962.0	983.4	998.4	1013.4	1017.6	1041.1	1049.7	1034.7
70°	816.7	859.4	887.2	912.9	923.6	938.5	944.9	966.3	974.9	962.0
72.5°	741.8	784.6	814.5	840.2	850.9	865.8	874.4	891.5	904.3	893.6
75°	669.2	711.9	741.8	767.5	778.2	793.2	801.7	818.8	827.4	818.8
77.5°	598.6	641.4	669.2	694.8	707.6	720.5	729.0	746.1	756.8	748.3
80°	530.2	573.0	600.7	624.3	637.1	649.9	658.5	677.7	686.3	679.8
82.5°	466.1	506.7	536.6	560.1	573.0	585.8	594.3	611.4	622.1	613.6
85°	408.3	449.0	476.7	500.3	511.0	523.8	532.3	549.4	558.0	553.7
87.5°	352.7	389.1	421.2	444.7	455.4	468.2	478.9	491.7	502.4	496.0
90°	310.0	342.1	372.0	395.5	408.3	421.2	434.0	446.8	455.4	451.1
92.5°	312.1	342.1	369.9	391.2	404.1	416.9	429.7	444.7	451.1	446.8
95°	312.1	342.1	369.9	391.2	404.1	416.9	429.7	444.7	451.1	446.8
97.5°	312.1	342.1	369.9	391.2	404.1	416.9	429.7	444.7	451.1	444.7
100°	312.1	342.1	369.9	391.2	404.1	414.7	427.6	442.5	449.0	444.7
102.5°	312.1	342.1	367.7	389.1	401.9	412.6	425.4	440.4	446.8	442.5
105°	312.1	339.9	367.7	387.0	399.8	410.5	423.3	436.1	442.5	438.3
107.5°	310.0	337.8	363.4	384.8	395.5	406.2	419.0	431.9	438.3	434.0
110°	310.0	335.6	361.3	380.5	391.2	401.9	414.7	427.6	434.0	429.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	307.9	333.5	359.2	376.3	387.0	397.6	408.3	423.3	429.7	425.4
115°	305.7	331.4	354.9	372.0	382.7	391.2	404.1	419.0	423.3	421.2
117.5°	303.6	327.1	350.6	367.7	378.4	387.0	397.6	410.5	416.9	414.7
120°	301.4	322.8	346.3	361.3	372.0	380.5	389.1	401.9	408.3	404.1
122.5°	297.2	318.5	342.1	357.0	365.6	374.1	382.7	393.4	399.8	397.6
125°	292.9	314.3	335.6	350.6	359.2	365.6	374.1	384.8	389.1	387.0
127.5°	288.6	310.0	329.2	342.1	352.7	359.2	365.6	376.3	380.5	378.4
130°	284.3	303.6	322.8	335.6	344.2	350.6	357.0	367.7	369.9	369.9
132.5°	280.1	297.2	316.4	329.2	337.8	342.1	348.5	357.0	361.3	359.2
135°	275.8	290.8	310.0	320.7	327.1	333.5	339.9	348.5	350.6	350.6
137.5°	269.4	284.3	301.4	312.1	318.5	322.8	329.2	337.8	339.9	339.9
140°	263.0	277.9	292.9	301.4	310.0	314.3	318.5	327.1	329.2	329.2
142.5°	256.5	269.4	284.3	292.9	301.4	303.6	310.0	316.4	318.5	318.5
145°	248.0	263.0	275.8	284.3	290.8	292.9	299.3	305.7	305.7	307.9
147.5°	237.3	250.1	267.2	273.6	280.1	282.2	288.6	292.9	295.0	295.0
150°	226.6	239.4	254.4	265.1	271.5	273.6	275.8	282.2	282.2	284.3
152.5°	215.9	226.6	241.6	252.3	260.8	263.0	265.1	269.4	269.4	271.5
155°	205.2	213.8	226.6	237.3	245.9	250.1	254.4	258.7	258.7	260.8
157.5°	196.7	205.2	215.9	224.5	230.9	237.3	243.7	248.0	248.0	248.0
160°	186.0	192.4	203.1	209.5	218.1	222.3	233.0	237.3	237.3	239.4
162.5°	179.6	181.7	188.1	194.5	201.0	205.2	215.9	226.6	226.6	228.8
165°	181.7	179.6	181.7	183.9	188.1	190.3	196.7	211.6	215.9	218.1
167.5°	186.0	179.6	179.6	179.6	183.9	183.9	190.3	198.8	213.8	209.5
170°	186.0	179.6	175.3	175.3	177.4	175.3	179.6	186.0	194.5	203.1
172.5°	188.1	181.7	175.3	166.8	168.9	166.8	162.5	162.5	164.6	192.4
175°	186.0	181.7	173.2	162.5	160.3	153.9	141.1	130.4	124.0	96.2
177.5°	183.9	177.4	171.0	162.5	158.2	151.8	136.8	119.7	102.6	98.3
180°	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3



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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	15.06	16.38	15.68	17.02	17.74	17.69	19.01	18.31	19.64	20.37
	3H	16.47	17.67	17.09	18.31	19.07	20.15	21.35	20.78	22.00	22.75
	4H	16.89	18.03	17.54	18.69	19.46	21.32	22.46	21.97	23.11	23.88
	6H	17.13	18.19	17.79	18.85	19.64	22.50	23.56	23.16	24.22	25.01
	8H	17.17	18.18	17.84	18.87	19.66	23.09	24.11	23.77	24.79	25.58
	12H	17.18	18.15	17.86	18.83	19.65	23.73	24.70	24.41	25.38	26.19
4H	2H	15.97	17.10	16.62	17.76	18.53	18.04	19.17	18.69	19.83	20.60
	3H	17.59	18.55	18.25	19.25	20.04	20.70	21.67	21.36	22.36	23.15
	4H	18.14	19.03	18.82	19.72	20.54	22.01	22.90	22.70	23.60	24.42
	6H	18.48	19.26	19.18	19.98	20.81	23.37	24.15	24.07	24.87	25.69
	8H	18.56	19.29	19.26	20.01	20.85	24.06	24.79	24.76	25.51	26.35
	12H	18.59	19.25	19.31	19.99	20.84	24.81	25.47	25.53	26.22	27.06
8H	4H	18.81	19.54	19.51	20.26	21.10	22.16	22.90	22.87	23.61	24.45
	6H	19.31	19.93	20.04	20.69	21.53	23.66	24.28	24.39	25.04	25.88
	8H	19.46	20.02	20.21	20.78	21.64	24.47	25.02	25.21	25.78	26.64
	12H	19.55	20.05	20.30	20.80	21.72	25.38	25.87	26.13	26.62	27.54
12H	4H	18.98	19.64	19.70	20.38	21.23	22.15	22.82	22.88	23.56	24.41
	6H	19.57	20.13	20.32	20.89	21.75	23.67	24.23	24.42	24.99	25.85
	8H	19.81	20.30	20.56	21.06	21.97	24.54	25.03	25.28	25.78	26.70