

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: P894392

Luminaire Tested: 8TMB-10SL-FLTU-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894392
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-L850
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 50
Light Source: -
Ballast/Driver: -

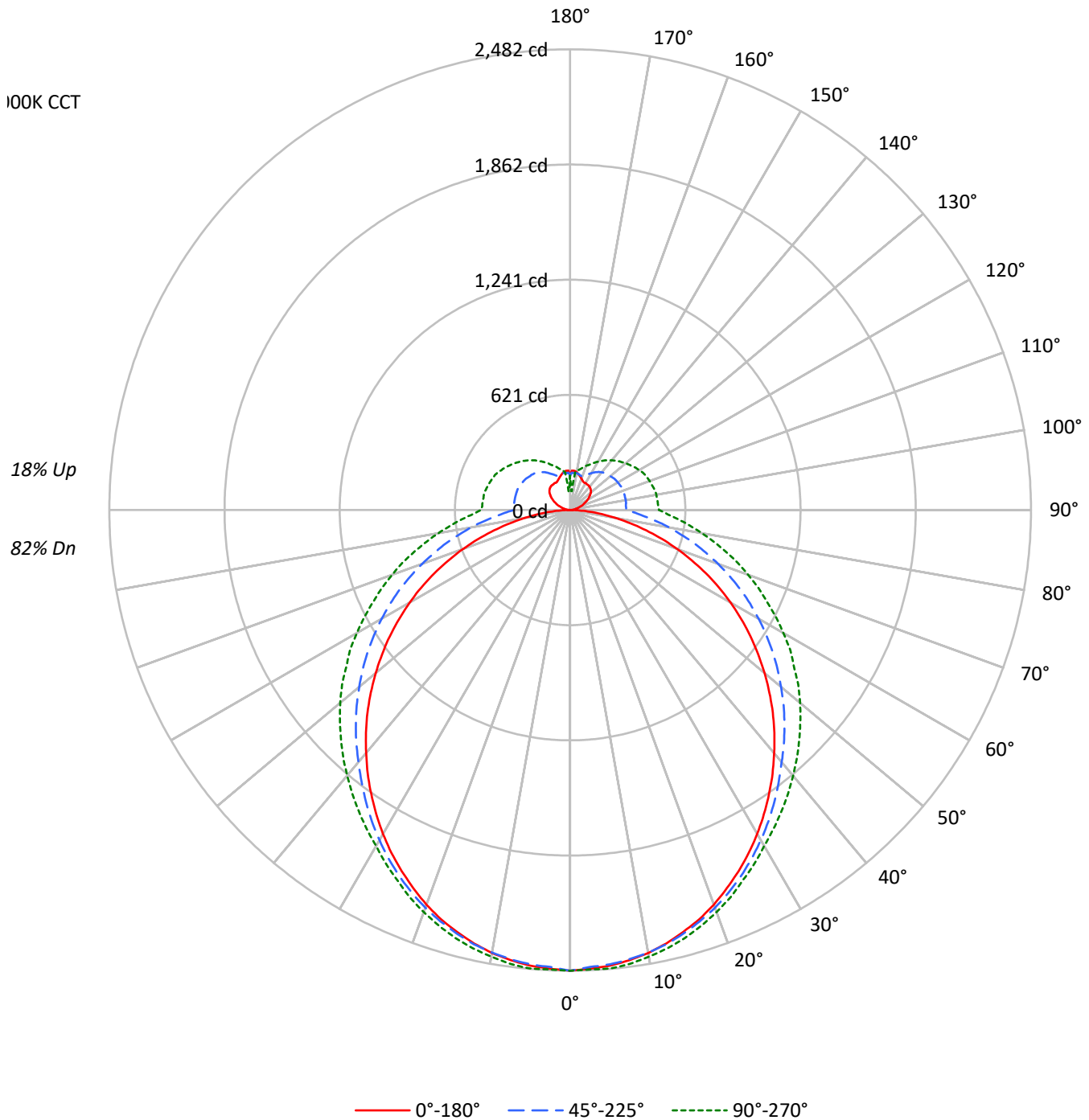
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9384.0 lumens
Efficiency: N/A
Efficacy: 134.1 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°	8807	8807	8807
5°	8756	8452	8429
10°	8691	8140	8029
15°	8583	7826	7646
20°	8462	7502	7257
25°	8303	7164	6863
30°	8134	6817	6505
35°	7945	6468	6209
40°	7747	6125	5927
45°	7549	5825	5658
50°	7317	5515	5397
55°	7070	5211	5106
60°	6772	4883	4828
65°	6416	4538	4515
70°	5946	4158	4224
75°	5295	3769	3909
80°	4439	3353	3586
85°	3339	2929	3291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7549 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	2.5
10°-20°	669.5	7.1
20°-30°	1005.9	10.7
30°-40°	1207.8	12.9
40°-50°	1270.0	13.5
50°-60°	1193.3	12.7
60°-70°	992.2	10.6
70°-80°	708.0	7.5
80°-90°	421.4	4.5
90°-100°	305.1	3.3
100°-110°	301.0	3.2
110°-120°	282.7	3.0
120°-130°	250.5	2.7
130°-140°	207.6	2.2
140°-150°	155.4	1.7
150°-160°	102.2	1.1
160°-170°	58.0	0.6
170°-180°	18.5	0.2
0°-30°	1910.1	20.4
0°-40°	3117.9	33.2
0°-60°	5581.1	59.5
0°-90°	7702.9	82.1
90°-120°	888.9	9.5
90°-150°	1502.5	16.0
90°-180°	1681.0	17.9
0°-180°	9384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2482	2482	2482	2482	2482	
5°	2464	2494	2457	2464	2480	234
15°	2353	2389	2362	2378	2387	664
25°	2147	2188	2176	2197	2201	989
35°	1868	1911	1918	1965	1984	1168
45°	1544	1587	1632	1716	1746	1190
55°	1186	1233	1331	1440	1471	1059
65°	807	873	1011	1138	1170	798
75°	424	519	691	825	868	450
85°	106	234	406	542	587	117
90°	0	134	302	433	478	7
95°	11	140	302	428	474	13
105°	43	156	304	424	465	46
115°	84	170	302	406	447	84
125°	127	181	292	381	410	113
135°	156	190	277	347	372	120
145°	166	186	249	308	326	104
155°	168	188	211	261	277	78
165°	193	204	197	200	231	54
175°	213	211	200	170	102	20
180°	186	186	186	186	186	



TEST NUMBER: P894392
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2
2.5°	2473.2	2480.0	2482.2	2504.9	2495.8	2504.9	2489.0	2470.9	2466.4	2477.7	2464.1
5°	2464.1	2470.9	2473.2	2495.8	2486.8	2493.6	2480.0	2461.8	2457.3	2470.9	2457.3
7.5°	2446.0	2452.8	2455.0	2480.0	2468.6	2477.7	2461.8	2443.7	2441.4	2455.0	2441.4
10°	2423.3	2430.1	2432.4	2455.0	2446.0	2455.0	2439.2	2421.0	2418.8	2434.6	2421.0
12.5°	2391.6	2398.4	2402.9	2425.6	2414.2	2425.6	2407.4	2389.3	2391.6	2405.2	2396.1
15°	2353.0	2362.1	2364.3	2387.0	2378.0	2389.3	2371.1	2353.0	2357.5	2371.1	2362.1
17.5°	2312.2	2321.3	2323.5	2343.9	2334.9	2348.5	2328.1	2312.2	2316.7	2330.3	2323.5
20°	2262.3	2271.4	2275.9	2296.3	2287.3	2300.9	2280.5	2266.9	2271.4	2287.3	2280.5
22.5°	2205.7	2219.3	2221.5	2244.2	2232.9	2246.5	2226.1	2214.7	2221.5	2237.4	2230.6
25°	2146.7	2160.3	2162.6	2185.3	2176.2	2187.5	2167.1	2155.8	2164.9	2180.7	2176.2
27.5°	2083.3	2096.9	2101.4	2121.8	2112.7	2126.3	2103.7	2096.9	2105.9	2121.8	2117.3
30°	2015.3	2028.9	2031.1	2051.5	2044.7	2058.3	2037.9	2028.9	2042.5	2058.3	2053.8
32.5°	1942.7	1956.3	1963.1	1981.2	1974.4	1985.8	1967.6	1963.1	1974.4	1990.3	1988.0
35°	1867.9	1881.5	1888.3	1908.7	1899.6	1911.0	1892.8	1888.3	1906.4	1917.8	1917.8
37.5°	1790.8	1804.4	1811.2	1831.6	1820.3	1833.9	1815.8	1813.5	1833.9	1845.2	1845.2
40°	1709.2	1725.1	1731.9	1750.0	1741.0	1752.3	1736.4	1738.7	1756.8	1770.4	1772.7
42.5°	1627.6	1643.5	1650.3	1670.7	1659.4	1670.7	1657.1	1659.4	1679.8	1693.4	1704.7
45°	1543.7	1557.3	1564.1	1586.8	1573.2	1586.8	1573.2	1577.7	1598.1	1618.5	1632.1
47.5°	1455.3	1468.9	1480.3	1498.4	1487.1	1498.4	1489.3	1496.1	1521.1	1541.5	1559.6
50°	1366.9	1380.5	1391.9	1407.7	1396.4	1412.3	1400.9	1410.0	1441.7	1462.1	1482.5
52.5°	1276.2	1287.6	1305.7	1314.8	1305.7	1323.9	1314.8	1328.4	1360.1	1385.1	1407.7
55°	1185.6	1196.9	1215.0	1221.8	1212.8	1233.2	1226.4	1244.5	1278.5	1305.7	1330.7
57.5°	1092.6	1104.0	1119.8	1126.6	1119.8	1142.5	1140.2	1160.6	1194.6	1224.1	1251.3
60°	997.4	1008.8	1022.4	1029.2	1029.2	1051.8	1051.8	1076.8	1113.0	1140.2	1172.0
62.5°	904.5	911.3	924.9	934.0	940.8	963.4	963.4	990.6	1029.2	1060.9	1092.6
65°	807.0	813.8	825.1	836.5	847.8	872.7	875.0	904.5	943.0	974.8	1011.0
67.5°	709.5	716.3	727.7	741.3	757.1	782.1	786.6	818.3	859.1	895.4	929.4
70°	614.3	616.6	630.2	648.3	666.5	691.4	698.2	732.2	775.3	811.5	847.8
72.5°	519.1	521.4	535.0	557.7	578.1	605.3	614.3	650.6	693.7	729.9	766.2
75°	423.9	426.2	444.3	471.5	494.2	519.1	530.4	569.0	612.1	650.6	691.4
77.5°	333.2	337.8	355.9	383.1	410.3	439.8	451.1	489.6	537.2	573.5	612.1
80°	249.4	253.9	274.3	303.8	333.2	360.4	374.0	412.6	462.4	498.7	541.8
82.5°	172.3	179.1	204.0	235.8	265.2	294.7	308.3	344.6	389.9	430.7	471.5
85°	106.5	115.6	140.5	174.5	206.3	233.5	247.1	285.6	328.7	367.2	405.8
87.5°	49.9	63.5	88.4	122.4	156.4	179.1	195.0	233.5	274.3	312.8	351.4
90°	0.0	20.4	45.3	79.3	113.3	133.7	151.9	188.2	229.0	265.2	301.5
92.5°	4.5	22.7	49.9	81.6	115.6	136.0	154.1	190.4	229.0	265.2	301.5
95°	11.3	24.9	52.1	86.1	120.1	140.5	156.4	192.7	231.2	267.5	301.5
97.5°	20.4	31.7	58.9	90.7	124.7	142.8	160.9	197.2	233.5	269.8	303.8
100°	27.2	36.3	63.5	95.2	129.2	147.3	165.5	199.5	235.8	272.0	303.8
102.5°	34.0	45.3	70.3	99.7	133.7	151.9	167.7	201.8	238.0	272.0	303.8
105°	43.1	52.1	74.8	106.5	138.3	156.4	172.3	206.3	240.3	274.3	303.8
107.5°	52.1	58.9	81.6	111.1	142.8	158.7	174.5	208.6	242.6	274.3	303.8
110°	63.5	68.0	88.4	115.6	145.1	163.2	179.1	210.8	242.6	274.3	303.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	74.8	74.8	95.2	120.1	149.6	165.5	181.3	213.1	244.8	274.3	303.8
115°	83.9	86.1	102.0	124.7	154.1	170.0	183.6	213.1	244.8	274.3	301.5
117.5°	95.2	95.2	111.1	129.2	156.4	172.3	188.2	215.4	244.8	272.0	299.2
120°	106.5	104.3	117.9	136.0	160.9	174.5	190.4	217.6	244.8	272.0	297.0
122.5°	117.9	113.3	122.4	140.5	163.2	179.1	190.4	217.6	244.8	269.8	294.7
125°	126.9	122.4	129.2	147.3	167.7	181.3	192.7	217.6	244.8	267.5	292.4
127.5°	136.0	131.5	138.3	151.9	170.0	181.3	195.0	217.6	244.8	265.2	287.9
130°	145.1	138.3	147.3	156.4	174.5	183.6	195.0	217.6	242.6	263.0	283.4
132.5°	151.9	145.1	154.1	160.9	176.8	185.9	197.2	217.6	240.3	260.7	281.1
135°	156.4	149.6	160.9	165.5	181.3	190.4	199.5	217.6	238.0	258.4	276.6
137.5°	160.9	151.9	165.5	170.0	183.6	192.7	199.5	215.4	235.8	253.9	272.0
140°	163.2	156.4	170.0	174.5	181.3	190.4	199.5	213.1	231.2	249.4	265.2
142.5°	165.5	156.4	172.3	176.8	181.3	188.2	197.2	208.6	226.7	242.6	258.4
145°	165.5	158.7	172.3	176.8	181.3	185.9	192.7	206.3	219.9	233.5	249.4
147.5°	165.5	160.9	174.5	179.1	183.6	183.6	188.2	201.8	213.1	226.7	240.3
150°	167.7	160.9	174.5	179.1	185.9	185.9	188.2	195.0	208.6	217.6	229.0
152.5°	165.5	163.2	172.3	181.3	185.9	188.2	188.2	190.4	201.8	210.8	219.9
155°	167.7	167.7	174.5	185.9	188.2	188.2	190.4	188.2	192.7	201.8	210.8
157.5°	172.3	176.8	176.8	188.2	192.7	192.7	195.0	192.7	190.4	192.7	201.8
160°	179.1	183.6	183.6	190.4	197.2	197.2	199.5	197.2	195.0	192.7	192.7
162.5°	185.9	190.4	190.4	192.7	199.5	201.8	204.0	201.8	199.5	195.0	192.7
165°	192.7	197.2	197.2	197.2	201.8	204.0	206.3	204.0	204.0	199.5	197.2
167.5°	199.5	204.0	204.0	201.8	204.0	206.3	208.6	206.3	206.3	204.0	199.5
170°	206.3	210.8	210.8	206.3	208.6	208.6	210.8	208.6	208.6	204.0	201.8
172.5°	210.8	215.4	213.1	210.8	210.8	210.8	210.8	208.6	206.3	201.8	201.8
175°	213.1	217.6	217.6	213.1	210.8	210.8	213.1	208.6	206.3	204.0	199.5
177.5°	213.1	217.6	217.6	213.1	213.1	210.8	213.1	210.8	210.8	206.3	201.8
180°	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2	2482.2
2.5°	2473.2	2470.9	2457.3	2473.2	2473.2	2468.6	2486.8	2484.5	2482.2	2477.7
5°	2464.1	2461.8	2448.2	2464.1	2464.1	2461.8	2480.0	2482.2	2484.5	2480.0
7.5°	2450.5	2448.2	2434.6	2450.5	2450.5	2448.2	2468.6	2470.9	2473.2	2466.4
10°	2430.1	2427.8	2414.2	2430.1	2432.4	2430.1	2446.0	2448.2	2452.8	2443.7
12.5°	2402.9	2402.9	2389.3	2405.2	2407.4	2405.2	2421.0	2425.6	2430.1	2418.8
15°	2368.9	2371.1	2359.8	2375.7	2378.0	2378.0	2393.8	2396.1	2402.9	2387.0
17.5°	2328.1	2332.6	2323.5	2339.4	2341.7	2343.9	2353.0	2359.8	2366.6	2348.5
20°	2285.0	2287.3	2280.5	2294.1	2298.6	2296.3	2307.7	2316.7	2323.5	2305.4
22.5°	2232.9	2235.1	2228.3	2241.9	2246.5	2248.7	2257.8	2269.1	2273.7	2257.8
25°	2173.9	2183.0	2178.5	2192.1	2196.6	2196.6	2205.7	2217.0	2223.8	2201.1
27.5°	2117.3	2128.6	2124.1	2137.7	2142.2	2144.5	2149.0	2162.6	2169.4	2149.0
30°	2053.8	2067.4	2065.1	2078.7	2083.3	2081.0	2090.1	2103.7	2112.7	2090.1
32.5°	1983.5	2001.6	1999.4	2017.5	2022.1	2024.3	2031.1	2049.3	2058.3	2037.9
35°	1915.5	1935.9	1938.2	1958.6	1965.4	1967.6	1976.7	1994.8	2003.9	1983.5
37.5°	1845.2	1872.4	1879.2	1899.6	1906.4	1908.7	1917.8	1938.2	1947.2	1926.8
40°	1777.2	1809.0	1818.0	1836.2	1843.0	1849.8	1856.6	1877.0	1888.3	1867.9
42.5°	1709.2	1743.2	1754.6	1772.7	1779.5	1786.3	1795.4	1818.0	1827.1	1809.0
45°	1638.9	1675.2	1688.8	1707.0	1716.0	1722.8	1731.9	1752.3	1763.6	1745.5
47.5°	1568.7	1604.9	1618.5	1638.9	1648.0	1657.1	1663.9	1688.8	1700.2	1682.0
50°	1493.9	1534.7	1550.5	1568.7	1582.3	1589.1	1598.1	1620.8	1632.1	1616.3
52.5°	1419.1	1462.1	1480.3	1498.4	1512.0	1523.3	1527.9	1552.8	1564.1	1548.3
55°	1342.0	1385.1	1405.5	1425.9	1439.5	1453.1	1457.6	1482.5	1493.9	1471.2
57.5°	1264.9	1310.3	1330.7	1353.3	1364.7	1380.5	1387.3	1410.0	1421.3	1405.5
60°	1187.8	1230.9	1255.8	1276.2	1292.1	1305.7	1310.3	1335.2	1346.5	1326.1
62.5°	1108.5	1153.8	1178.8	1201.4	1215.0	1230.9	1237.7	1260.4	1269.4	1249.0
65°	1026.9	1072.2	1099.4	1119.8	1138.0	1151.6	1156.1	1181.0	1190.1	1169.7
67.5°	945.3	990.6	1020.1	1042.8	1058.6	1074.5	1079.0	1104.0	1113.0	1097.2
70°	865.9	911.3	940.8	968.0	979.3	995.2	1002.0	1024.6	1033.7	1020.1
72.5°	786.6	831.9	863.7	890.9	902.2	918.1	927.2	945.3	958.9	947.6
75°	709.5	754.9	786.6	813.8	825.1	841.0	850.1	868.2	877.3	868.2
77.5°	634.7	680.1	709.5	736.7	750.3	763.9	773.0	791.1	802.5	793.4
80°	562.2	607.5	637.0	661.9	675.5	689.1	698.2	718.6	727.7	720.9
82.5°	494.2	537.2	569.0	593.9	607.5	621.1	630.2	648.3	659.7	650.6
85°	433.0	476.0	505.5	530.4	541.8	555.4	564.5	582.6	591.7	587.1
87.5°	374.0	412.6	446.6	471.5	482.8	496.4	507.8	521.4	532.7	525.9
90°	328.7	362.7	394.4	419.4	433.0	446.6	460.2	473.8	482.8	478.3
92.5°	331.0	362.7	392.2	414.8	428.4	442.0	455.6	471.5	478.3	473.8
95°	331.0	362.7	392.2	414.8	428.4	442.0	455.6	471.5	478.3	473.8
97.5°	331.0	362.7	392.2	414.8	428.4	442.0	455.6	471.5	478.3	471.5
100°	331.0	362.7	392.2	414.8	428.4	439.8	453.4	469.2	476.0	471.5
102.5°	331.0	362.7	389.9	412.6	426.2	437.5	451.1	467.0	473.8	469.2
105°	331.0	360.4	389.9	410.3	423.9	435.2	448.8	462.4	469.2	464.7
107.5°	328.7	358.2	385.4	408.0	419.4	430.7	444.3	457.9	464.7	460.2
110°	328.7	355.9	383.1	403.5	414.8	426.2	439.8	453.4	460.2	455.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	326.4	353.6	380.8	399.0	410.3	421.6	433.0	448.8	455.6	451.1
115°	324.2	351.4	376.3	394.4	405.8	414.8	428.4	444.3	448.8	446.6
117.5°	321.9	346.8	371.8	389.9	401.2	410.3	421.6	435.2	442.0	439.8
120°	319.6	342.3	367.2	383.1	394.4	403.5	412.6	426.2	433.0	428.4
122.5°	315.1	337.8	362.7	378.6	387.6	396.7	405.8	417.1	423.9	421.6
125°	310.6	333.2	355.9	371.8	380.8	387.6	396.7	408.0	412.6	410.3
127.5°	306.0	328.7	349.1	362.7	374.0	380.8	387.6	399.0	403.5	401.2
130°	301.5	321.9	342.3	355.9	365.0	371.8	378.6	389.9	392.2	392.2
132.5°	297.0	315.1	335.5	349.1	358.2	362.7	369.5	378.6	383.1	380.8
135°	292.4	308.3	328.7	340.0	346.8	353.6	360.4	369.5	371.8	371.8
137.5°	285.6	301.5	319.6	331.0	337.8	342.3	349.1	358.2	360.4	360.4
140°	278.8	294.7	310.6	319.6	328.7	333.2	337.8	346.8	349.1	349.1
142.5°	272.0	285.6	301.5	310.6	319.6	321.9	328.7	335.5	337.8	337.8
145°	263.0	278.8	292.4	301.5	308.3	310.6	317.4	324.2	324.2	326.4
147.5°	251.6	265.2	283.4	290.2	297.0	299.2	306.0	310.6	312.8	312.8
150°	240.3	253.9	269.8	281.1	287.9	290.2	292.4	299.2	299.2	301.5
152.5°	229.0	240.3	256.2	267.5	276.6	278.8	281.1	285.6	285.6	287.9
155°	217.6	226.7	240.3	251.6	260.7	265.2	269.8	274.3	274.3	276.6
157.5°	208.6	217.6	229.0	238.0	244.8	251.6	258.4	263.0	263.0	263.0
160°	197.2	204.0	215.4	222.2	231.2	235.8	247.1	251.6	251.6	253.9
162.5°	190.4	192.7	199.5	206.3	213.1	217.6	229.0	240.3	240.3	242.6
165°	192.7	190.4	192.7	195.0	199.5	201.8	208.6	224.4	229.0	231.2
167.5°	197.2	190.4	190.4	190.4	195.0	195.0	201.8	210.8	226.7	222.2
170°	197.2	190.4	185.9	185.9	188.2	185.9	190.4	197.2	206.3	215.4
172.5°	199.5	192.7	185.9	176.8	179.1	176.8	172.3	172.3	174.5	204.0
175°	197.2	192.7	183.6	172.3	170.0	163.2	149.6	138.3	131.5	102.0
177.5°	195.0	188.2	181.3	172.3	167.7	160.9	145.1	126.9	108.8	104.3
180°	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9	185.9



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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	15.88	17.22	17.94	17.90	19.21	18.51	19.85	20.57
	3H	16.67	17.87	17.30	18.51	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	22.66	22.17	23.32	24.09
	6H	17.33	18.39	18.00	19.06	19.84	22.71	23.76	23.37	24.43	25.21
	8H	17.38	18.39	18.05	19.08	19.86	23.30	24.31	23.97	25.00	25.78
	12H	17.39	18.36	18.07	19.04	19.85	23.93	24.90	24.61	25.58	26.40
4H	2H	16.17	17.31	16.82	17.96	18.73	18.24	19.38	18.89	20.03	20.80
	3H	17.79	18.76	18.45	19.45	20.24	20.90	21.87	21.57	22.56	23.35
	4H	18.35	19.23	19.03	19.93	20.75	22.22	23.10	22.90	23.80	24.62
	6H	18.68	19.46	19.38	20.18	21.01	23.57	24.35	24.27	25.07	25.90
	8H	18.76	19.49	19.46	20.21	21.05	24.26	24.99	24.96	25.71	26.55
	12H	18.79	19.45	19.51	20.20	21.04	25.01	25.68	25.74	26.42	27.27
8H	4H	19.01	19.74	19.71	20.46	21.30	22.37	23.10	23.07	23.82	24.66
	6H	19.51	20.13	20.25	20.89	21.73	23.86	24.48	24.59	25.24	26.08
	8H	19.67	20.22	20.41	20.98	21.84	24.67	25.23	25.42	25.99	26.85
	12H	19.76	20.25	20.51	21.00	21.92	25.58	26.08	26.33	26.83	27.75
12H	4H	19.18	19.84	19.90	20.59	21.43	22.36	23.02	23.08	23.76	24.61
	6H	19.78	20.33	20.52	21.10	21.95	23.88	24.43	24.62	25.20	26.05
	8H	20.01	20.51	20.76	21.26	22.18	24.74	25.23	25.49	25.99	26.90