

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: P894438

Luminaire Tested: 8TMB-10SL-RNDU-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894438
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-L835
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, CCT
Light Source: -
Ballast/Driver: -

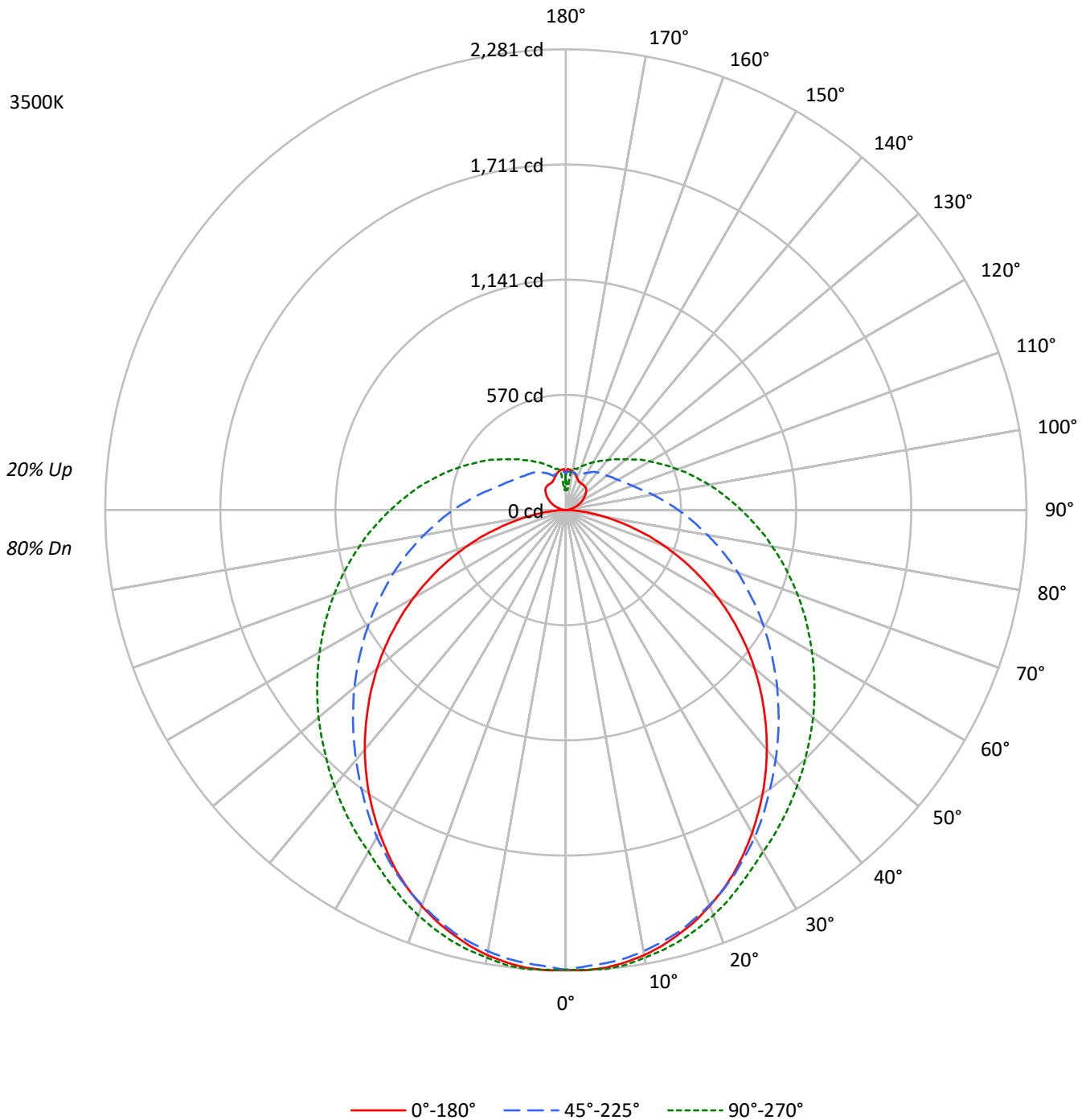
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9575.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

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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°	8077	8077	8077
5°	8082	7748	7752
10°	8024	7457	7394
15°	7925	7162	7063
20°	7802	6848	6723
25°	7649	6531	6383
30°	7448	6212	6081
35°	7242	5881	5858
40°	7019	5583	5656
45°	6779	5319	5477
50°	6528	5084	5338
55°	6239	4869	5217
60°	5911	4693	5126
65°	5510	4540	5075
70°	5011	4451	5058
75°	4330	4393	5081
80°	3508	4410	5161
85°	2446	4550	5330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6779 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	2.2
10°-20°	614.1	6.4
20°-30°	922.1	9.6
30°-40°	1108.8	11.6
40°-50°	1174.8	12.3
50°-60°	1131.3	11.8
60°-70°	1001.2	10.5
70°-80°	821.3	8.6
80°-90°	637.3	6.7
90°-100°	494.6	5.2
100°-110°	391.9	4.1
110°-120°	312.2	3.3
120°-130°	248.0	2.6
130°-140°	193.6	2.0
140°-150°	142.5	1.5
150°-160°	94.3	1.0
160°-170°	54.2	0.6
170°-180°	17.4	0.2
0°-30°	1751.6	18.3
0°-40°	2860.4	29.9
0°-60°	5166.4	54.0
0°-90°	7626.2	79.6
90°-120°	1198.7	12.5
90°-150°	1782.9	18.6
90°-180°	1949.0	20.4
0°-180°	9575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2276	2276	2276	2276	2276	
5°	2274	2276	2253	2270	2281	216
15°	2172	2175	2162	2194	2205	613
25°	1978	1984	1984	2034	2047	910
35°	1702	1724	1744	1835	1871	1064
45°	1386	1419	1490	1631	1690	1070
55°	1046	1098	1243	1427	1503	936
65°	693	788	1012	1224	1315	686
75°	347	520	806	1033	1128	371
85°	78	314	630	860	951	89
90°	2	247	557	780	869	6
95°	11	204	492	704	791	11
105°	39	165	388	576	652	42
115°	78	158	323	470	533	76
125°	113	165	282	388	435	101
135°	143	175	253	325	355	109
145°	152	173	230	279	297	95
155°	154	180	197	238	251	72
165°	182	193	186	186	210	51
175°	201	199	191	158	106	19
180°	175	175	175	175	175	



TEST NUMBER: P894438
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5
2.5°	2280.8	2278.6	2283.0	2287.3	2300.3	2283.0	2291.6	2267.8	2270.0	2272.1	2261.3
5°	2274.3	2267.8	2274.3	2278.6	2289.5	2276.5	2285.1	2259.1	2261.3	2265.6	2252.6
7.5°	2259.1	2252.6	2257.0	2261.3	2272.1	2259.1	2270.0	2244.0	2248.3	2250.5	2239.6
10°	2237.5	2228.8	2233.2	2239.6	2248.3	2237.5	2246.1	2222.3	2224.5	2228.8	2218.0
12.5°	2209.3	2200.7	2205.0	2209.3	2220.2	2209.3	2218.0	2194.2	2198.5	2202.8	2192.0
15°	2172.5	2163.8	2168.2	2172.5	2181.2	2174.7	2183.3	2159.5	2163.8	2172.5	2161.7
17.5°	2133.5	2120.5	2124.9	2131.3	2140.0	2135.7	2142.2	2122.7	2124.9	2133.5	2122.7
20°	2085.9	2072.9	2077.2	2083.7	2092.4	2090.2	2094.5	2077.2	2081.5	2092.4	2081.5
22.5°	2033.9	2020.9	2025.2	2033.9	2040.4	2040.4	2042.5	2029.5	2033.9	2044.7	2036.0
25°	1977.6	1964.6	1968.9	1977.6	1984.1	1984.1	1988.4	1975.4	1981.9	1992.7	1984.1
27.5°	1912.6	1906.1	1906.1	1914.7	1919.1	1923.4	1925.6	1914.7	1923.4	1934.2	1927.7
30°	1845.4	1836.8	1841.1	1851.9	1851.9	1860.6	1860.6	1851.9	1862.8	1875.8	1871.4
32.5°	1774.0	1767.5	1769.6	1782.6	1782.6	1793.5	1791.3	1787.0	1797.8	1812.9	1808.6
35°	1702.5	1696.0	1698.1	1711.1	1711.1	1724.1	1719.8	1719.8	1730.6	1748.0	1743.6
37.5°	1626.7	1622.3	1624.5	1637.5	1637.5	1650.5	1646.2	1648.3	1661.3	1680.8	1678.7
40°	1548.7	1544.4	1548.7	1559.5	1563.9	1574.7	1570.4	1574.7	1592.0	1609.3	1615.8
42.5°	1468.6	1466.4	1470.7	1481.5	1485.9	1496.7	1494.5	1501.0	1518.4	1544.4	1553.0
45°	1386.2	1386.2	1390.6	1401.4	1405.7	1418.7	1416.6	1425.2	1446.9	1475.0	1490.2
47.5°	1303.9	1306.1	1308.3	1321.3	1321.3	1342.9	1336.4	1349.4	1377.6	1410.1	1427.4
50°	1219.5	1223.8	1226.0	1236.8	1241.1	1260.6	1256.3	1277.9	1308.3	1342.9	1366.7
52.5°	1135.0	1139.3	1143.7	1152.3	1156.6	1180.5	1176.1	1204.3	1241.1	1277.9	1303.9
55°	1046.2	1054.8	1057.0	1067.8	1074.3	1098.2	1098.2	1130.7	1169.6	1210.8	1243.3
57.5°	959.5	968.2	970.4	983.4	992.0	1020.2	1024.5	1061.3	1104.7	1145.8	1184.8
60°	870.7	881.6	883.7	896.7	911.9	942.2	948.7	989.9	1037.5	1080.8	1126.3
62.5°	781.9	792.8	797.1	810.1	833.9	864.2	875.1	922.7	972.5	1020.2	1070.0
65°	693.1	704.0	710.4	727.8	755.9	788.4	803.6	853.4	909.7	959.5	1011.5
67.5°	604.3	617.3	626.0	647.6	684.5	719.1	734.3	790.6	849.1	903.2	957.4
70°	517.7	530.7	541.5	569.7	613.0	647.6	667.1	727.8	788.4	846.9	907.6
72.5°	433.2	446.2	461.4	496.0	543.7	582.7	604.3	667.1	734.3	792.8	855.6
75°	346.6	361.7	379.1	426.7	480.9	519.8	543.7	610.8	680.1	738.6	805.8
77.5°	268.6	283.7	309.7	357.4	418.0	461.4	487.4	558.8	630.3	688.8	758.1
80°	197.1	212.3	246.9	298.9	361.7	402.9	435.4	509.0	582.7	643.3	712.6
82.5°	134.3	149.5	190.6	246.9	314.1	355.2	385.5	463.5	537.2	600.0	669.3
85°	78.0	99.6	143.0	203.6	272.9	314.1	344.4	424.5	496.0	558.8	630.3
87.5°	34.7	60.6	108.3	168.9	238.3	277.2	309.7	383.4	459.2	522.0	593.5
90°	2.2	34.7	84.5	143.0	210.1	246.9	277.2	350.9	422.4	487.4	556.7
92.5°	4.3	23.8	69.3	123.5	186.3	223.1	253.4	322.7	389.9	457.0	524.2
95°	10.8	23.8	60.6	110.5	168.9	203.6	231.8	298.9	361.7	426.7	491.7
97.5°	17.3	26.0	58.5	104.0	156.0	188.4	214.4	277.2	340.1	398.5	463.5
100°	23.8	32.5	58.5	99.6	147.3	177.6	201.4	259.9	318.4	372.6	437.5
102.5°	30.3	39.0	62.8	99.6	143.0	168.9	192.8	246.9	301.1	350.9	411.5
105°	39.0	45.5	67.1	99.6	138.6	164.6	184.1	233.9	285.9	333.6	387.7
107.5°	47.7	52.0	71.5	101.8	138.6	160.3	179.8	225.3	272.9	316.2	368.2
110°	58.5	60.6	78.0	106.1	138.6	158.1	175.4	218.8	262.1	303.2	350.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	67.1	67.1	84.5	110.5	138.6	158.1	173.3	212.3	253.4	290.2	335.7
115°	78.0	78.0	91.0	114.8	140.8	158.1	173.3	210.1	246.9	279.4	322.7
117.5°	86.6	86.6	99.6	119.1	145.1	160.3	173.3	205.8	240.4	270.8	309.7
120°	95.3	95.3	104.0	123.5	147.3	162.5	173.3	203.6	233.9	264.3	298.9
122.5°	104.0	104.0	110.5	130.0	149.5	162.5	173.3	201.4	229.6	255.6	288.1
125°	112.6	112.6	117.0	134.3	153.8	164.6	175.4	201.4	227.4	249.1	281.6
127.5°	121.3	119.1	125.6	140.8	156.0	166.8	177.6	201.4	223.1	244.8	272.9
130°	127.8	125.6	134.3	145.1	160.3	168.9	177.6	199.3	220.9	240.4	264.3
132.5°	136.5	132.1	143.0	147.3	164.6	173.3	179.8	199.3	218.8	236.1	259.9
135°	143.0	138.6	149.5	153.8	166.8	175.4	181.9	199.3	216.6	233.9	253.4
137.5°	147.3	145.1	156.0	160.3	168.9	177.6	184.1	199.3	214.4	229.6	249.1
140°	149.5	147.3	156.0	164.6	168.9	177.6	181.9	197.1	212.3	225.3	242.6
142.5°	151.6	151.6	158.1	166.8	168.9	175.4	181.9	194.9	207.9	218.8	238.3
145°	151.6	151.6	158.1	168.9	171.1	173.3	177.6	190.6	201.4	212.3	229.6
147.5°	151.6	151.6	160.3	168.9	173.3	175.4	173.3	186.3	197.1	205.8	220.9
150°	151.6	151.6	160.3	168.9	175.4	177.6	175.4	181.9	190.6	199.3	212.3
152.5°	153.8	153.8	160.3	168.9	175.4	177.6	177.6	177.6	184.1	192.8	205.8
155°	153.8	156.0	160.3	173.3	177.6	179.8	179.8	179.8	177.6	186.3	197.1
157.5°	160.3	162.5	164.6	175.4	179.8	181.9	181.9	181.9	179.8	177.6	188.4
160°	166.8	168.9	171.1	179.8	184.1	186.3	186.3	186.3	181.9	179.8	179.8
162.5°	173.3	177.6	177.6	181.9	186.3	188.4	188.4	190.6	186.3	184.1	181.9
165°	181.9	184.1	184.1	186.3	190.6	192.8	190.6	192.8	190.6	188.4	186.3
167.5°	188.4	190.6	190.6	192.8	192.8	194.9	194.9	194.9	192.8	190.6	190.6
170°	194.9	197.1	197.1	197.1	197.1	197.1	197.1	197.1	194.9	190.6	190.6
172.5°	199.3	201.4	201.4	199.3	199.3	199.3	199.3	197.1	192.8	190.6	190.6
175°	201.4	203.6	203.6	201.4	199.3	199.3	199.3	197.1	192.8	190.6	190.6
177.5°	203.6	205.8	203.6	203.6	199.3	199.3	199.3	199.3	194.9	192.8	190.6
180°	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5	2276.5
2.5°	2274.3	2248.3	2265.6	2267.8	2276.5	2267.8	2274.3	2267.8	2285.1	2278.6
5°	2265.6	2241.8	2257.0	2259.1	2270.0	2259.1	2270.0	2265.6	2287.3	2280.8
7.5°	2250.5	2231.0	2244.0	2246.1	2259.1	2248.3	2259.1	2254.8	2280.8	2272.1
10°	2228.8	2213.7	2226.7	2228.8	2241.8	2231.0	2239.6	2235.3	2263.5	2250.5
12.5°	2205.0	2192.0	2202.8	2205.0	2220.2	2209.3	2220.2	2215.8	2244.0	2231.0
15°	2170.3	2163.8	2174.7	2179.0	2194.2	2185.5	2196.3	2192.0	2222.3	2205.0
17.5°	2135.7	2131.3	2142.2	2146.5	2163.8	2153.0	2163.8	2159.5	2189.8	2172.5
20°	2092.4	2090.2	2101.0	2107.5	2122.7	2111.9	2124.9	2120.5	2153.0	2135.7
22.5°	2046.9	2046.9	2055.5	2062.0	2077.2	2068.5	2081.5	2079.4	2111.9	2094.5
25°	1997.1	1999.2	2007.9	2016.6	2033.9	2027.4	2038.2	2038.2	2068.5	2046.9
27.5°	1940.7	1951.6	1958.1	1968.9	1984.1	1977.6	1988.4	1990.6	2020.9	1999.2
30°	1882.3	1897.4	1903.9	1916.9	1929.9	1929.9	1940.7	1945.1	1975.4	1953.7
32.5°	1821.6	1838.9	1847.6	1864.9	1882.3	1882.3	1897.4	1903.9	1934.2	1914.7
35°	1761.0	1784.8	1795.6	1817.3	1834.6	1836.8	1851.9	1860.6	1890.9	1871.4
37.5°	1702.5	1732.8	1743.6	1769.6	1784.8	1789.1	1806.4	1817.3	1845.4	1828.1
40°	1641.8	1678.7	1691.7	1719.8	1732.8	1741.5	1758.8	1771.8	1797.8	1782.6
42.5°	1583.3	1624.5	1637.5	1667.8	1683.0	1691.7	1709.0	1726.3	1752.3	1737.1
45°	1524.9	1570.4	1585.5	1618.0	1631.0	1644.0	1663.5	1678.7	1702.5	1689.5
47.5°	1468.6	1516.2	1531.4	1566.0	1581.2	1596.3	1613.7	1635.3	1657.0	1644.0
50°	1410.1	1459.9	1479.4	1516.2	1529.2	1546.5	1568.2	1587.7	1609.3	1598.5
52.5°	1353.8	1405.7	1425.2	1464.2	1479.4	1496.7	1518.4	1540.0	1559.5	1550.9
55°	1293.1	1349.4	1371.1	1412.2	1427.4	1444.7	1468.6	1492.4	1509.7	1503.2
57.5°	1236.8	1295.3	1316.9	1362.4	1375.4	1397.1	1420.9	1446.9	1462.1	1455.6
60°	1180.5	1239.0	1264.9	1310.4	1325.6	1347.3	1371.1	1399.2	1412.2	1407.9
62.5°	1124.2	1184.8	1213.0	1260.6	1273.6	1297.4	1325.6	1349.4	1362.4	1360.3
65°	1072.2	1130.7	1163.1	1210.8	1223.8	1249.8	1275.8	1301.8	1314.8	1314.8
67.5°	1018.0	1080.8	1113.3	1163.1	1174.0	1202.1	1230.3	1256.3	1267.1	1267.1
70°	968.2	1028.9	1065.7	1115.5	1126.3	1152.3	1182.6	1210.8	1219.5	1221.6
72.5°	918.4	979.0	1018.0	1070.0	1080.8	1106.8	1135.0	1165.3	1171.8	1174.0
75°	870.7	931.4	970.4	1022.4	1033.2	1059.2	1089.5	1117.7	1126.3	1128.5
77.5°	823.1	883.7	927.1	976.9	987.7	1013.7	1044.0	1072.2	1078.7	1083.0
80°	779.8	838.2	879.4	933.5	944.4	970.4	998.5	1026.7	1031.0	1037.5
82.5°	736.4	794.9	838.2	890.2	901.1	927.1	955.2	983.4	987.7	996.4
85°	695.3	753.8	797.1	846.9	859.9	883.7	914.1	940.0	944.4	950.9
87.5°	658.5	712.6	758.1	805.8	818.7	842.6	872.9	898.9	901.1	909.7
90°	619.5	673.6	719.1	766.8	779.8	801.4	831.7	857.7	862.1	868.6
92.5°	587.0	636.8	684.5	729.9	740.8	764.6	792.8	818.7	823.1	829.6
95°	552.3	602.1	649.8	693.1	704.0	727.8	753.8	779.8	784.1	790.6
97.5°	522.0	569.7	615.1	658.5	669.3	691.0	719.1	742.9	747.3	755.9
100°	493.8	539.3	587.0	626.0	636.8	658.5	684.5	708.3	712.6	721.3
102.5°	467.9	511.2	556.7	593.5	606.5	626.0	652.0	673.6	678.0	684.5
105°	444.0	485.2	528.5	563.2	576.2	595.7	619.5	641.1	645.5	652.0
107.5°	420.2	459.2	500.3	535.0	545.8	563.2	587.0	608.6	613.0	621.6
110°	398.5	437.5	476.5	509.0	522.0	535.0	558.8	578.3	582.7	589.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	379.1	413.7	452.7	483.0	493.8	509.0	528.5	548.0	552.3	561.0
115°	361.7	394.2	433.2	461.4	470.0	483.0	504.7	522.0	526.3	532.8
117.5°	346.6	374.7	409.4	437.5	448.4	459.2	478.7	493.8	500.3	504.7
120°	333.6	359.6	389.9	415.9	428.9	437.5	454.9	470.0	476.5	480.9
122.5°	320.6	344.4	372.6	396.4	407.2	413.7	433.2	446.2	452.7	459.2
125°	309.7	331.4	357.4	376.9	387.7	394.2	411.5	424.5	431.0	435.4
127.5°	298.9	318.4	344.4	359.6	370.4	374.7	389.9	402.9	409.4	411.5
130°	288.1	307.6	329.2	344.4	353.1	359.6	372.6	381.2	387.7	389.9
132.5°	279.4	296.7	316.2	331.4	340.1	342.2	355.2	363.9	370.4	372.6
135°	272.9	285.9	305.4	318.4	324.9	329.2	340.1	346.6	353.1	355.2
137.5°	264.3	277.2	294.6	303.2	311.9	314.1	324.9	331.4	337.9	340.1
140°	257.8	268.6	283.7	292.4	301.1	301.1	309.7	316.2	322.7	322.7
142.5°	251.3	262.1	275.1	283.7	290.2	290.2	298.9	303.2	309.7	309.7
145°	242.6	253.4	266.4	272.9	279.4	279.4	285.9	290.2	296.7	296.7
147.5°	233.9	244.8	257.8	262.1	268.6	268.6	275.1	279.4	283.7	283.7
150°	223.1	231.8	246.9	253.4	259.9	259.9	264.3	268.6	272.9	272.9
152.5°	214.4	220.9	233.9	242.6	249.1	249.1	253.4	257.8	262.1	262.1
155°	203.6	210.1	220.9	231.8	238.3	240.4	244.8	246.9	251.3	251.3
157.5°	194.9	201.4	210.1	218.8	225.3	229.6	236.1	238.3	240.4	240.4
160°	184.1	188.4	197.1	205.8	212.3	216.6	227.4	229.6	231.8	231.8
162.5°	179.8	179.8	184.1	190.6	197.1	199.3	210.1	218.8	223.1	220.9
165°	181.9	179.8	179.8	181.9	186.3	188.4	194.9	207.9	212.3	210.1
167.5°	186.3	181.9	179.8	179.8	184.1	184.1	190.6	201.4	214.4	210.1
170°	186.3	179.8	175.4	175.4	177.6	177.6	181.9	188.4	201.4	203.6
172.5°	184.1	179.8	173.3	164.6	166.8	164.6	162.5	166.8	168.9	190.6
175°	186.3	179.8	173.3	162.5	158.1	151.6	140.8	132.1	130.0	106.1
177.5°	184.1	177.6	168.9	160.3	156.0	147.3	134.3	119.1	110.5	97.5
180°	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4



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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	14.21	15.52	14.85	16.19	16.96	17.84	19.15	18.48	19.81	20.58
	3H	15.56	16.76	16.22	17.43	18.24	20.79	21.99	21.45	22.66	23.47
	4H	15.96	17.10	16.64	17.79	18.60	22.30	23.44	22.97	24.12	24.94
	6H	16.18	17.24	16.87	17.94	18.77	23.91	24.97	24.60	25.67	26.50
	8H	16.21	17.23	16.91	17.95	18.78	24.76	25.78	25.46	26.50	27.33
	12H	16.22	17.19	16.92	17.90	18.77	25.70	26.68	26.41	27.39	28.25
4H	2H	15.37	16.51	16.05	17.20	18.01	18.15	19.29	18.83	19.98	20.79
	3H	17.01	17.99	17.70	18.71	19.54	21.34	22.31	22.02	23.04	23.87
	4H	17.58	18.48	18.28	19.21	20.07	23.02	23.92	23.72	24.64	25.50
	6H	17.92	18.72	18.64	19.47	20.34	24.84	25.63	25.56	26.38	27.25
	8H	17.99	18.74	18.72	19.49	20.37	25.81	26.56	26.54	27.31	28.19
	12H	18.02	18.70	18.77	19.47	20.36	26.90	27.58	27.64	28.35	29.24
8H	4H	18.69	19.44	19.41	20.18	21.07	23.19	23.94	23.91	24.68	25.57
	6H	19.29	19.94	20.05	20.72	21.61	25.18	25.82	25.94	26.61	27.49
	8H	19.49	20.07	20.26	20.86	21.76	26.30	26.88	27.07	27.67	28.57
	12H	19.60	20.12	20.37	20.90	21.86	27.58	28.10	28.35	28.88	29.83
12H	4H	19.05	19.74	19.80	20.51	21.40	23.18	23.87	23.93	24.63	25.52
	6H	19.83	20.41	20.60	21.20	22.10	25.21	25.79	25.98	26.58	27.48
	8H	20.16	20.68	20.93	21.46	22.41	26.39	26.91	27.16	27.69	28.64