

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: P894393

Luminaire Tested: 8TMB-10SL-FLTU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894393
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-L930
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 30
Light Source: -
Ballast/Driver: -

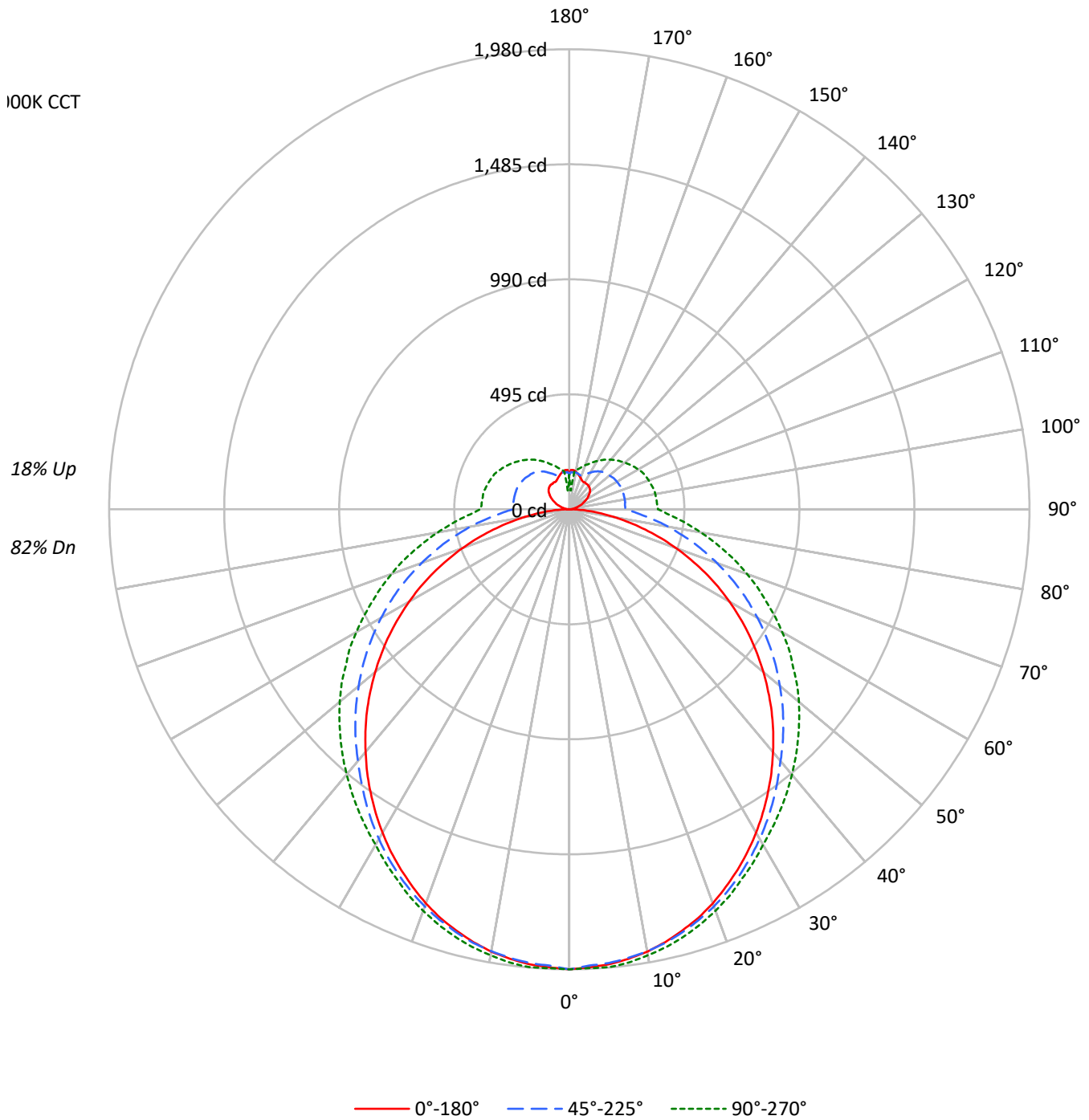
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7486.0 lumens
Efficiency: N/A
Efficacy: 106.9 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°	7026	7026	7026
5°	6985	6743	6724
10°	6933	6493	6405
15°	6847	6243	6099
20°	6750	5985	5790
25°	6624	5715	5475
30°	6489	5438	5189
35°	6338	5160	4953
40°	6180	4886	4728
45°	6022	4647	4514
50°	5838	4400	4306
55°	5640	4157	4073
60°	5402	3896	3852
65°	5118	3620	3602
70°	4744	3317	3370
75°	4225	3007	3118
80°	3540	2674	2861
85°	2665	2337	2625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.5
10°-20°	534.1	7.1
20°-30°	802.4	10.7
30°-40°	963.5	12.9
40°-50°	1013.1	13.5
50°-60°	951.9	12.7
60°-70°	791.6	10.6
70°-80°	564.8	7.5
80°-90°	336.2	4.5
90°-100°	243.4	3.3
100°-110°	240.1	3.2
110°-120°	225.6	3.0
120°-130°	199.9	2.7
130°-140°	165.6	2.2
140°-150°	124.0	1.7
150°-160°	81.5	1.1
160°-170°	46.2	0.6
170°-180°	14.7	0.2
0°-30°	1523.7	20.4
0°-40°	2487.2	33.2
0°-60°	4452.3	59.5
0°-90°	6144.9	82.1
90°-120°	709.1	9.5
90°-150°	1198.6	16.0
90°-180°	1341.0	17.9
0°-180°	7486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1966	1989	1960	1966	1978	187
15°	1877	1906	1884	1897	1904	530
25°	1712	1745	1736	1752	1756	789
35°	1490	1524	1530	1568	1582	932
45°	1232	1266	1302	1369	1392	949
55°	946	984	1062	1148	1174	845
65°	644	696	806	908	933	637
75°	338	414	552	658	693	359
85°	85	186	324	432	468	93
90°	0	107	240	345	382	6
95°	9	112	240	342	378	10
105°	34	125	242	338	371	37
115°	67	136	240	324	356	67
125°	101	145	233	304	327	90
135°	125	152	221	277	297	96
145°	132	148	199	246	260	83
155°	134	150	168	208	221	63
165°	154	163	157	159	184	43
175°	170	168	159	136	81	16
180°	148	148	148	148	148	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1972.9	1978.4	1980.2	1998.3	1991.0	1998.3	1985.6	1971.1	1967.5	1976.6	1965.7
5°	1965.7	1971.1	1972.9	1991.0	1983.8	1989.2	1978.4	1963.9	1960.3	1971.1	1960.3
7.5°	1951.2	1956.7	1958.5	1978.4	1969.3	1976.6	1963.9	1949.4	1947.6	1958.5	1947.6
10°	1933.2	1938.6	1940.4	1958.5	1951.2	1958.5	1945.8	1931.3	1929.5	1942.2	1931.3
12.5°	1907.8	1913.3	1916.9	1935.0	1925.9	1935.0	1920.5	1906.0	1907.8	1918.7	1911.5
15°	1877.1	1884.3	1886.1	1904.2	1897.0	1906.0	1891.6	1877.1	1880.7	1891.6	1884.3
17.5°	1844.5	1851.8	1853.6	1869.9	1862.6	1873.5	1857.2	1844.5	1848.2	1859.0	1853.6
20°	1804.8	1812.0	1815.6	1831.9	1824.7	1835.5	1819.2	1808.4	1812.0	1824.7	1819.2
22.5°	1759.6	1770.4	1772.2	1790.3	1781.3	1792.1	1775.8	1766.8	1772.2	1784.9	1779.4
25°	1712.5	1723.4	1725.2	1743.3	1736.0	1745.1	1728.8	1719.8	1727.0	1739.7	1736.0
27.5°	1661.9	1672.7	1676.4	1692.6	1685.4	1696.3	1678.2	1672.7	1680.0	1692.6	1689.0
30°	1607.6	1618.5	1620.3	1636.6	1631.2	1642.0	1625.7	1618.5	1629.3	1642.0	1638.4
32.5°	1549.8	1560.6	1566.1	1580.5	1575.1	1584.1	1569.7	1566.1	1575.1	1587.8	1585.9
35°	1490.1	1501.0	1506.4	1522.7	1515.4	1524.5	1510.0	1506.4	1520.8	1529.9	1529.9
37.5°	1428.6	1439.5	1444.9	1461.2	1452.1	1463.0	1448.5	1446.7	1463.0	1472.0	1472.0
40°	1363.5	1376.2	1381.6	1396.1	1388.8	1397.9	1385.2	1387.0	1401.5	1412.3	1414.2
42.5°	1298.4	1311.1	1316.5	1332.8	1323.7	1332.8	1321.9	1323.7	1340.0	1350.9	1359.9
45°	1231.5	1242.4	1247.8	1265.9	1255.0	1265.9	1255.0	1258.6	1274.9	1291.2	1302.0
47.5°	1161.0	1171.8	1180.9	1195.3	1186.3	1195.3	1188.1	1193.5	1213.4	1229.7	1244.2
50°	1090.5	1101.3	1110.3	1123.0	1114.0	1126.6	1117.6	1124.8	1150.1	1166.4	1182.7
52.5°	1018.1	1027.2	1041.6	1048.9	1041.6	1056.1	1048.9	1059.7	1085.0	1104.9	1123.0
55°	945.8	954.8	969.3	974.7	967.5	983.8	978.3	992.8	1019.9	1041.6	1061.5
57.5°	871.6	880.7	893.3	898.8	893.3	911.4	909.6	925.9	953.0	976.5	998.2
60°	795.7	804.7	815.6	821.0	821.0	839.1	839.1	859.0	887.9	909.6	934.9
62.5°	721.5	727.0	737.8	745.1	750.5	768.6	768.6	790.3	821.0	846.3	871.6
65°	643.8	649.2	658.2	667.3	676.3	696.2	698.0	721.5	752.3	777.6	806.5
67.5°	566.0	571.4	580.5	591.3	604.0	623.9	627.5	652.8	685.4	714.3	741.4
70°	490.1	491.9	502.7	517.2	531.7	551.6	557.0	584.1	618.5	647.4	676.3
72.5°	414.1	415.9	426.8	444.9	461.1	482.8	490.1	519.0	553.4	582.3	611.2
75°	338.2	340.0	354.4	376.1	394.2	414.1	423.2	453.9	488.3	519.0	551.6
77.5°	265.8	269.4	283.9	305.6	327.3	350.8	359.9	390.6	428.6	457.5	488.3
80°	198.9	202.5	218.8	242.3	265.8	287.5	298.4	329.1	368.9	397.8	432.2
82.5°	137.4	142.9	162.8	188.1	211.6	235.1	245.9	274.9	311.0	343.6	376.1
85°	85.0	92.2	112.1	139.2	164.6	186.3	197.1	227.9	262.2	293.0	323.7
87.5°	39.8	50.6	70.5	97.7	124.8	142.9	155.5	186.3	218.8	249.6	280.3
90°	0.0	16.3	36.2	63.3	90.4	106.7	121.2	150.1	182.6	211.6	240.5
92.5°	3.6	18.1	39.8	65.1	92.2	108.5	123.0	151.9	182.6	211.6	240.5
95°	9.0	19.9	41.6	68.7	95.8	112.1	124.8	153.7	184.5	213.4	240.5
97.5°	16.3	25.3	47.0	72.3	99.5	113.9	128.4	157.3	186.3	215.2	242.3
100°	21.7	28.9	50.6	76.0	103.1	117.5	132.0	159.1	188.1	217.0	242.3
102.5°	27.1	36.2	56.1	79.6	106.7	121.2	133.8	160.9	189.9	217.0	242.3
105°	34.4	41.6	59.7	85.0	110.3	124.8	137.4	164.6	191.7	218.8	242.3
107.5°	41.6	47.0	65.1	88.6	113.9	126.6	139.2	166.4	193.5	218.8	242.3
110°	50.6	54.3	70.5	92.2	115.7	130.2	142.9	168.2	193.5	218.8	242.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	59.7	59.7	76.0	95.8	119.4	132.0	144.7	170.0	195.3	218.8	242.3
115°	66.9	68.7	81.4	99.5	123.0	135.6	146.5	170.0	195.3	218.8	240.5
117.5°	76.0	76.0	88.6	103.1	124.8	137.4	150.1	171.8	195.3	217.0	238.7
120°	85.0	83.2	94.0	108.5	128.4	139.2	151.9	173.6	195.3	217.0	236.9
122.5°	94.0	90.4	97.7	112.1	130.2	142.9	151.9	173.6	195.3	215.2	235.1
125°	101.3	97.7	103.1	117.5	133.8	144.7	153.7	173.6	195.3	213.4	233.3
127.5°	108.5	104.9	110.3	121.2	135.6	144.7	155.5	173.6	195.3	211.6	229.7
130°	115.7	110.3	117.5	124.8	139.2	146.5	155.5	173.6	193.5	209.8	226.0
132.5°	121.2	115.7	123.0	128.4	141.1	148.3	157.3	173.6	191.7	208.0	224.2
135°	124.8	119.4	128.4	132.0	144.7	151.9	159.1	173.6	189.9	206.2	220.6
137.5°	128.4	121.2	132.0	135.6	146.5	153.7	159.1	171.8	188.1	202.5	217.0
140°	130.2	124.8	135.6	139.2	144.7	151.9	159.1	170.0	184.5	198.9	211.6
142.5°	132.0	124.8	137.4	141.1	144.7	150.1	157.3	166.4	180.8	193.5	206.2
145°	132.0	126.6	137.4	141.1	144.7	148.3	153.7	164.6	175.4	186.3	198.9
147.5°	132.0	128.4	139.2	142.9	146.5	146.5	150.1	160.9	170.0	180.8	191.7
150°	133.8	128.4	139.2	142.9	148.3	148.3	150.1	155.5	166.4	173.6	182.6
152.5°	132.0	130.2	137.4	144.7	148.3	150.1	150.1	151.9	160.9	168.2	175.4
155°	133.8	133.8	139.2	148.3	150.1	150.1	151.9	150.1	153.7	160.9	168.2
157.5°	137.4	141.1	141.1	150.1	153.7	153.7	155.5	153.7	151.9	153.7	160.9
160°	142.9	146.5	146.5	151.9	157.3	157.3	159.1	157.3	155.5	153.7	153.7
162.5°	148.3	151.9	151.9	153.7	159.1	160.9	162.8	160.9	159.1	155.5	153.7
165°	153.7	157.3	157.3	157.3	160.9	162.8	164.6	162.8	162.8	159.1	157.3
167.5°	159.1	162.8	162.8	160.9	162.8	164.6	166.4	164.6	164.6	162.8	159.1
170°	164.6	168.2	168.2	164.6	166.4	166.4	168.2	166.4	166.4	162.8	160.9
172.5°	168.2	171.8	170.0	168.2	168.2	168.2	168.2	166.4	164.6	160.9	160.9
175°	170.0	173.6	173.6	170.0	168.2	168.2	170.0	166.4	164.6	162.8	159.1
177.5°	170.0	173.6	173.6	170.0	170.0	168.2	170.0	168.2	168.2	164.6	160.9
180°	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1972.9	1971.1	1960.3	1972.9	1972.9	1969.3	1983.8	1982.0	1980.2	1976.6
5°	1965.7	1963.9	1953.0	1965.7	1965.7	1963.9	1978.4	1980.2	1982.0	1978.4
7.5°	1954.9	1953.0	1942.2	1954.9	1954.9	1953.0	1969.3	1971.1	1972.9	1967.5
10°	1938.6	1936.8	1925.9	1938.6	1940.4	1938.6	1951.2	1953.0	1956.7	1949.4
12.5°	1916.9	1916.9	1906.0	1918.7	1920.5	1918.7	1931.3	1935.0	1938.6	1929.5
15°	1889.8	1891.6	1882.5	1895.2	1897.0	1897.0	1909.6	1911.5	1916.9	1904.2
17.5°	1857.2	1860.8	1853.6	1866.2	1868.1	1869.9	1877.1	1882.5	1887.9	1873.5
20°	1822.8	1824.7	1819.2	1830.1	1833.7	1831.9	1840.9	1848.2	1853.6	1839.1
22.5°	1781.3	1783.1	1777.6	1788.5	1792.1	1793.9	1801.1	1810.2	1813.8	1801.1
25°	1734.2	1741.5	1737.9	1748.7	1752.3	1752.3	1759.6	1768.6	1774.0	1755.9
27.5°	1689.0	1698.1	1694.5	1705.3	1708.9	1710.7	1714.3	1725.2	1730.6	1714.3
30°	1638.4	1649.2	1647.4	1658.3	1661.9	1660.1	1667.3	1678.2	1685.4	1667.3
32.5°	1582.3	1596.8	1595.0	1609.5	1613.1	1614.9	1620.3	1634.8	1642.0	1625.7
35°	1528.1	1544.4	1546.2	1562.4	1567.9	1569.7	1576.9	1591.4	1598.6	1582.3
37.5°	1472.0	1493.7	1499.1	1515.4	1520.8	1522.7	1529.9	1546.2	1553.4	1537.1
40°	1417.8	1443.1	1450.3	1464.8	1470.2	1475.6	1481.1	1497.3	1506.4	1490.1
42.5°	1363.5	1390.6	1399.7	1414.2	1419.6	1425.0	1432.2	1450.3	1457.6	1443.1
45°	1307.5	1336.4	1347.2	1361.7	1368.9	1374.4	1381.6	1397.9	1406.9	1392.5
47.5°	1251.4	1280.3	1291.2	1307.5	1314.7	1321.9	1327.3	1347.2	1356.3	1341.8
50°	1191.7	1224.3	1236.9	1251.4	1262.2	1267.7	1274.9	1293.0	1302.0	1289.4
52.5°	1132.0	1166.4	1180.9	1195.3	1206.2	1215.2	1218.8	1238.7	1247.8	1235.1
55°	1070.6	1104.9	1121.2	1137.5	1148.3	1159.2	1162.8	1182.7	1191.7	1173.6
57.5°	1009.1	1045.2	1061.5	1079.6	1088.6	1101.3	1106.7	1124.8	1133.9	1121.2
60°	947.6	981.9	1001.8	1018.1	1030.8	1041.6	1045.2	1065.1	1074.2	1057.9
62.5°	884.3	920.5	940.4	958.4	969.3	981.9	987.4	1005.5	1012.7	996.4
65°	819.2	855.4	877.1	893.3	907.8	918.7	922.3	942.2	949.4	933.1
67.5°	754.1	790.3	813.8	831.9	844.5	857.2	860.8	880.7	887.9	875.3
70°	690.8	727.0	750.5	772.2	781.2	793.9	799.3	817.4	824.6	813.8
72.5°	627.5	663.7	689.0	710.7	719.7	732.4	739.6	754.1	764.9	755.9
75°	566.0	602.2	627.5	649.2	658.2	670.9	678.1	692.6	699.8	692.6
77.5°	506.3	542.5	566.0	587.7	598.6	609.4	616.7	631.1	640.2	632.9
80°	448.5	484.6	508.2	528.0	538.9	549.7	557.0	573.3	580.5	575.1
82.5°	394.2	428.6	453.9	473.8	484.6	495.5	502.7	517.2	526.2	519.0
85°	345.4	379.8	403.3	423.2	432.2	443.1	450.3	464.8	472.0	468.4
87.5°	298.4	329.1	356.3	376.1	385.2	396.0	405.1	415.9	425.0	419.5
90°	262.2	289.3	314.7	334.5	345.4	356.3	367.1	378.0	385.2	381.6
92.5°	264.0	289.3	312.8	330.9	341.8	352.6	363.5	376.1	381.6	378.0
95°	264.0	289.3	312.8	330.9	341.8	352.6	363.5	376.1	381.6	378.0
97.5°	264.0	289.3	312.8	330.9	341.8	352.6	363.5	376.1	381.6	376.1
100°	264.0	289.3	312.8	330.9	341.8	350.8	361.7	374.3	379.8	376.1
102.5°	264.0	289.3	311.0	329.1	340.0	349.0	359.9	372.5	378.0	374.3
105°	264.0	287.5	311.0	327.3	338.2	347.2	358.1	368.9	374.3	370.7
107.5°	262.2	285.7	307.4	325.5	334.5	343.6	354.4	365.3	370.7	367.1
110°	262.2	283.9	305.6	321.9	330.9	340.0	350.8	361.7	367.1	363.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	260.4	282.1	303.8	318.3	327.3	336.4	345.4	358.1	363.5	359.9
115°	258.6	280.3	300.2	314.7	323.7	330.9	341.8	354.4	358.1	356.3
117.5°	256.8	276.7	296.6	311.0	320.1	327.3	336.4	347.2	352.6	350.8
120°	255.0	273.1	293.0	305.6	314.7	321.9	329.1	340.0	345.4	341.8
122.5°	251.4	269.4	289.3	302.0	309.2	316.5	323.7	332.7	338.2	336.4
125°	247.7	265.8	283.9	296.6	303.8	309.2	316.5	325.5	329.1	327.3
127.5°	244.1	262.2	278.5	289.3	298.4	303.8	309.2	318.3	321.9	320.1
130°	240.5	256.8	273.1	283.9	291.1	296.6	302.0	311.0	312.8	312.8
132.5°	236.9	251.4	267.6	278.5	285.7	289.3	294.8	302.0	305.6	303.8
135°	233.3	245.9	262.2	271.3	276.7	282.1	287.5	294.8	296.6	296.6
137.5°	227.9	240.5	255.0	264.0	269.4	273.1	278.5	285.7	287.5	287.5
140°	222.4	235.1	247.7	255.0	262.2	265.8	269.4	276.7	278.5	278.5
142.5°	217.0	227.9	240.5	247.7	255.0	256.8	262.2	267.6	269.4	269.4
145°	209.8	222.4	233.3	240.5	245.9	247.7	253.2	258.6	258.6	260.4
147.5°	200.7	211.6	226.0	231.5	236.9	238.7	244.1	247.7	249.6	249.6
150°	191.7	202.5	215.2	224.2	229.7	231.5	233.3	238.7	238.7	240.5
152.5°	182.6	191.7	204.3	213.4	220.6	222.4	224.2	227.9	227.9	229.7
155°	173.6	180.8	191.7	200.7	208.0	211.6	215.2	218.8	218.8	220.6
157.5°	166.4	173.6	182.6	189.9	195.3	200.7	206.2	209.8	209.8	209.8
160°	157.3	162.8	171.8	177.2	184.5	188.1	197.1	200.7	200.7	202.5
162.5°	151.9	153.7	159.1	164.6	170.0	173.6	182.6	191.7	191.7	193.5
165°	153.7	151.9	153.7	155.5	159.1	160.9	166.4	179.0	182.6	184.5
167.5°	157.3	151.9	151.9	151.9	155.5	155.5	160.9	168.2	180.8	177.2
170°	157.3	151.9	148.3	148.3	150.1	148.3	151.9	157.3	164.6	171.8
172.5°	159.1	153.7	148.3	141.1	142.9	141.1	137.4	137.4	139.2	162.8
175°	157.3	153.7	146.5	137.4	135.6	130.2	119.4	110.3	104.9	81.4
177.5°	155.5	150.1	144.7	137.4	133.8	128.4	115.7	101.3	86.8	83.2
180°	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3	148.3



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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	14.48	15.80	15.10	16.43	17.16	17.11	18.43	17.73	19.06	19.78
	3H	15.88	17.08	16.51	17.73	18.48	19.57	20.77	20.20	21.41	22.17
	4H	16.31	17.45	16.96	18.10	18.87	20.74	21.88	21.39	22.53	23.30
	6H	16.55	17.61	17.21	18.27	19.06	21.92	22.98	22.58	23.64	24.43
	8H	16.59	17.60	17.26	18.29	19.08	22.51	23.52	23.18	24.21	25.00
	12H	16.60	17.57	17.28	18.25	19.07	23.15	24.11	23.82	24.80	25.61
4H	2H	15.38	16.52	16.03	17.18	17.95	17.45	18.59	18.10	19.25	20.02
	3H	17.01	17.97	17.67	18.67	19.45	20.12	21.08	20.78	21.78	22.57
	4H	17.56	18.45	18.24	19.14	19.96	21.43	22.32	22.11	23.02	23.83
	6H	17.90	18.68	18.60	19.40	20.23	22.79	23.56	23.48	24.29	25.11
	8H	17.97	18.71	18.68	19.42	20.26	23.48	24.21	24.18	24.93	25.77
	12H	18.00	18.67	18.73	19.41	20.26	24.23	24.89	24.95	25.63	26.48
8H	4H	18.22	18.96	18.93	19.67	20.51	21.58	22.31	22.29	23.03	23.87
	6H	18.73	19.35	19.46	20.10	20.95	23.08	23.69	23.81	24.45	25.30
	8H	18.88	19.44	19.63	20.20	21.06	23.89	24.44	24.63	25.20	26.06
	12H	18.97	19.47	19.72	20.22	21.14	24.80	25.29	25.54	26.04	26.96
12H	4H	18.39	19.06	19.12	19.80	20.65	21.57	22.24	22.30	22.98	23.82
	6H	18.99	19.55	19.74	20.31	21.17	23.09	23.65	23.84	24.41	25.27
	8H	19.23	19.72	19.98	20.47	21.39	23.95	24.45	24.70	25.20	26.12