

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: P894442

Luminaire Tested: 8TMB-10SL-RNDU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894442
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-L935
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT
Light Source: -
Ballast/Driver: -

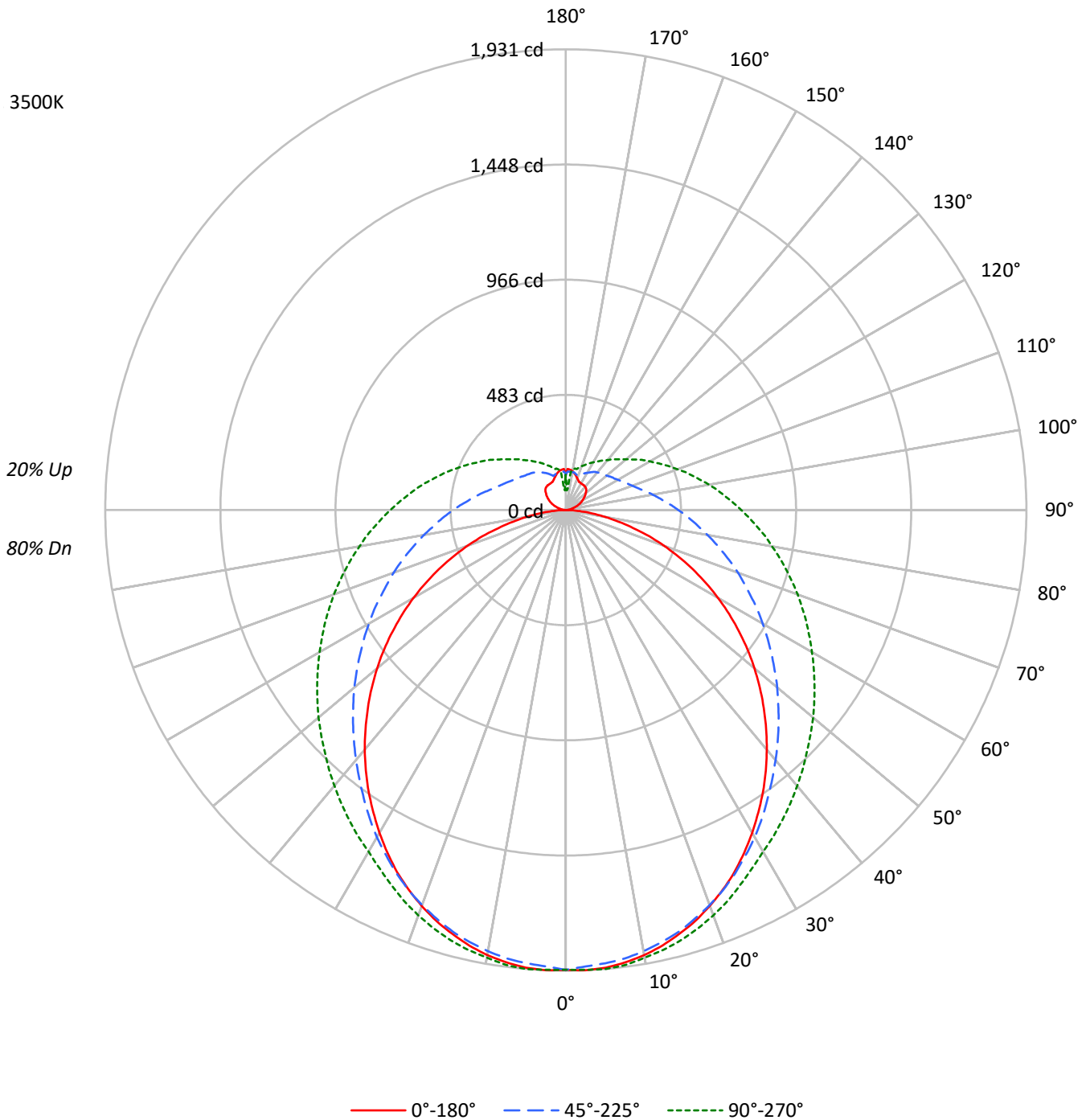
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8106.0 lumens
Efficiency: N/A
Efficacy: 115.8 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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CATALOG NUMBER: 8TMB-10SL-RNDU-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	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°	6838	6838	6838
5°	6842	6559	6563
10°	6793	6313	6259
15°	6709	6063	5979
20°	6605	5797	5692
25°	6476	5529	5403
30°	6306	5259	5148
35°	6131	4979	4960
40°	5943	4726	4788
45°	5739	4503	4636
50°	5527	4305	4519
55°	5282	4122	4416
60°	5004	3973	4340
65°	4665	3843	4297
70°	4243	3768	4282
75°	3665	3718	4301
80°	2970	3733	4369
85°	2069	3852	4512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	2.2
10°-20°	519.9	6.4
20°-30°	780.6	9.6
30°-40°	938.7	11.6
40°-50°	994.5	12.3
50°-60°	957.7	11.8
60°-70°	847.6	10.5
70°-80°	695.3	8.6
80°-90°	539.5	6.7
90°-100°	418.7	5.2
100°-110°	331.8	4.1
110°-120°	264.3	3.3
120°-130°	210.0	2.6
130°-140°	163.9	2.0
140°-150°	120.7	1.5
150°-160°	79.8	1.0
160°-170°	45.9	0.6
170°-180°	14.8	0.2
0°-30°	1482.9	18.3
0°-40°	2421.5	29.9
0°-60°	4373.8	54.0
0°-90°	6456.2	79.6
90°-120°	1014.8	12.5
90°-150°	1509.3	18.6
90°-180°	1650.0	20.4
0°-180°	8106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1925	1927	1907	1922	1931	183
15°	1839	1841	1830	1858	1867	519
25°	1674	1680	1680	1722	1733	770
35°	1441	1460	1476	1553	1584	901
45°	1174	1201	1262	1381	1430	906
55°	886	930	1052	1208	1273	792
65°	587	668	856	1036	1113	581
75°	293	440	682	875	955	314
85°	66	266	534	728	805	76
90°	2	209	471	660	735	5
95°	9	172	416	596	669	10
105°	33	139	328	488	552	35
115°	66	134	273	398	451	65
125°	95	139	238	328	369	85
135°	121	148	214	275	301	92
145°	128	147	194	236	251	80
155°	130	152	167	202	213	61
165°	154	163	158	158	178	43
175°	170	169	161	134	90	16
180°	148	148	148	148	148	



TEST NUMBER: P894442
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2
2.5°	1930.9	1929.0	1932.7	1936.4	1947.4	1932.7	1940.1	1919.9	1921.7	1923.5	1914.4
5°	1925.4	1919.9	1925.4	1929.0	1938.2	1927.2	1934.5	1912.5	1914.4	1918.0	1907.0
7.5°	1912.5	1907.0	1910.7	1914.4	1923.5	1912.5	1921.7	1899.7	1903.4	1905.2	1896.0
10°	1894.2	1886.9	1890.5	1896.0	1903.4	1894.2	1901.5	1881.4	1883.2	1886.9	1877.7
12.5°	1870.4	1863.0	1866.7	1870.4	1879.5	1870.4	1877.7	1857.5	1861.2	1864.9	1855.7
15°	1839.2	1831.9	1835.5	1839.2	1846.5	1841.0	1848.4	1828.2	1831.9	1839.2	1830.0
17.5°	1806.2	1795.2	1798.9	1804.4	1811.7	1808.0	1813.5	1797.0	1798.9	1806.2	1797.0
20°	1765.8	1754.8	1758.5	1764.0	1771.4	1769.5	1773.2	1758.5	1762.2	1771.4	1762.2
22.5°	1721.8	1710.8	1714.5	1721.8	1727.3	1727.3	1729.2	1718.2	1721.8	1731.0	1723.7
25°	1674.2	1663.2	1666.8	1674.2	1679.7	1679.7	1683.3	1672.3	1677.8	1687.0	1679.7
27.5°	1619.2	1613.7	1613.7	1621.0	1624.7	1628.3	1630.2	1621.0	1628.3	1637.5	1632.0
30°	1562.3	1555.0	1558.6	1567.8	1567.8	1575.1	1575.1	1567.8	1577.0	1588.0	1584.3
32.5°	1501.8	1496.3	1498.1	1509.1	1509.1	1518.3	1516.5	1512.8	1522.0	1534.8	1531.1
35°	1441.3	1435.8	1437.6	1448.6	1448.6	1459.6	1456.0	1456.0	1465.1	1479.8	1476.1
37.5°	1377.1	1373.4	1375.3	1386.3	1386.3	1397.3	1393.6	1395.4	1406.4	1422.9	1421.1
40°	1311.1	1307.4	1311.1	1320.3	1323.9	1333.1	1329.4	1333.1	1347.8	1362.4	1367.9
42.5°	1243.2	1241.4	1245.1	1254.2	1257.9	1267.1	1265.3	1270.8	1285.4	1307.4	1314.8
45°	1173.6	1173.6	1177.2	1186.4	1190.1	1201.1	1199.2	1206.6	1224.9	1248.7	1261.6
47.5°	1103.9	1105.7	1107.6	1118.6	1118.6	1136.9	1131.4	1142.4	1166.2	1193.7	1208.4
50°	1032.4	1036.0	1037.9	1047.0	1050.7	1067.2	1063.5	1081.9	1107.6	1136.9	1157.1
52.5°	960.9	964.5	968.2	975.5	979.2	999.4	995.7	1019.5	1050.7	1081.9	1103.9
55°	885.7	893.0	894.8	904.0	909.5	929.7	929.7	957.2	990.2	1025.0	1052.5
57.5°	812.3	819.7	821.5	832.5	839.8	863.7	867.3	898.5	935.2	970.0	1003.0
60°	737.1	746.3	748.1	759.2	772.0	797.7	803.2	838.0	878.3	915.0	953.5
62.5°	662.0	671.1	674.8	685.8	706.0	731.6	740.8	781.2	823.3	863.7	905.8
65°	586.8	596.0	601.5	616.1	640.0	667.5	680.3	722.5	770.2	812.3	856.3
67.5°	511.6	522.6	529.9	548.3	579.4	608.8	621.6	669.3	718.8	764.7	810.5
70°	438.3	449.3	458.4	482.3	518.9	548.3	564.8	616.1	667.5	717.0	768.3
72.5°	366.7	377.7	390.6	419.9	460.3	493.3	511.6	564.8	621.6	671.1	724.3
75°	293.4	306.2	320.9	361.2	407.1	440.1	460.3	517.1	575.8	625.3	682.1
77.5°	227.4	240.2	262.2	302.6	353.9	390.6	412.6	473.1	533.6	583.1	641.8
80°	166.9	179.7	209.0	253.1	306.2	341.1	368.6	430.9	493.3	544.6	603.3
82.5°	113.7	126.5	161.4	209.0	265.9	300.7	326.4	392.4	454.8	507.9	566.6
85°	66.0	84.4	121.0	172.4	231.0	265.9	291.6	359.4	419.9	473.1	533.6
87.5°	29.3	51.3	91.7	143.0	201.7	234.7	262.2	324.6	388.7	441.9	502.4
90°	1.8	29.3	71.5	121.0	177.9	209.0	234.7	297.1	357.6	412.6	471.3
92.5°	3.7	20.2	58.7	104.5	157.7	188.9	214.5	273.2	330.1	386.9	443.8
95°	9.2	20.2	51.3	93.5	143.0	172.4	196.2	253.1	306.2	361.2	416.2
97.5°	14.7	22.0	49.5	88.0	132.0	159.5	181.5	234.7	287.9	337.4	392.4
100°	20.2	27.5	49.5	84.4	124.7	150.4	170.5	220.0	269.6	315.4	370.4
102.5°	25.7	33.0	53.2	84.4	121.0	143.0	163.2	209.0	254.9	297.1	348.4
105°	33.0	38.5	56.8	84.4	117.4	139.4	155.9	198.0	242.0	282.4	328.2
107.5°	40.3	44.0	60.5	86.2	117.4	135.7	152.2	190.7	231.0	267.7	311.7
110°	49.5	51.3	66.0	89.9	117.4	133.9	148.5	185.2	221.9	256.7	297.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	56.8	56.8	71.5	93.5	117.4	133.9	146.7	179.7	214.5	245.7	284.2
115°	66.0	66.0	77.0	97.2	119.2	133.9	146.7	177.9	209.0	236.5	273.2
117.5°	73.3	73.3	84.4	100.9	122.9	135.7	146.7	174.2	203.5	229.2	262.2
120°	80.7	80.7	88.0	104.5	124.7	137.5	146.7	172.4	198.0	223.7	253.1
122.5°	88.0	88.0	93.5	110.0	126.5	137.5	146.7	170.5	194.4	216.4	243.9
125°	95.4	95.4	99.0	113.7	130.2	139.4	148.5	170.5	192.5	210.9	238.4
127.5°	102.7	100.9	106.4	119.2	132.0	141.2	150.4	170.5	188.9	207.2	231.0
130°	108.2	106.4	113.7	122.9	135.7	143.0	150.4	168.7	187.0	203.5	223.7
132.5°	115.5	111.9	121.0	124.7	139.4	146.7	152.2	168.7	185.2	199.9	220.0
135°	121.0	117.4	126.5	130.2	141.2	148.5	154.0	168.7	183.4	198.0	214.5
137.5°	124.7	122.9	132.0	135.7	143.0	150.4	155.9	168.7	181.5	194.4	210.9
140°	126.5	124.7	132.0	139.4	143.0	150.4	154.0	166.9	179.7	190.7	205.4
142.5°	128.4	128.4	133.9	141.2	143.0	148.5	154.0	165.0	176.0	185.2	201.7
145°	128.4	128.4	133.9	143.0	144.9	146.7	150.4	161.4	170.5	179.7	194.4
147.5°	128.4	128.4	135.7	143.0	146.7	148.5	146.7	157.7	166.9	174.2	187.0
150°	128.4	128.4	135.7	143.0	148.5	150.4	148.5	154.0	161.4	168.7	179.7
152.5°	130.2	130.2	135.7	143.0	148.5	150.4	150.4	150.4	155.9	163.2	174.2
155°	130.2	132.0	135.7	146.7	150.4	152.2	152.2	152.2	150.4	157.7	166.9
157.5°	135.7	137.5	139.4	148.5	152.2	154.0	154.0	154.0	152.2	150.4	159.5
160°	141.2	143.0	144.9	152.2	155.9	157.7	157.7	157.7	154.0	152.2	152.2
162.5°	146.7	150.4	150.4	154.0	157.7	159.5	159.5	161.4	157.7	155.9	154.0
165°	154.0	155.9	155.9	157.7	161.4	163.2	161.4	163.2	161.4	159.5	157.7
167.5°	159.5	161.4	161.4	163.2	163.2	165.0	165.0	165.0	163.2	161.4	161.4
170°	165.0	166.9	166.9	166.9	166.9	166.9	166.9	166.9	165.0	161.4	161.4
172.5°	168.7	170.5	170.5	168.7	168.7	168.7	168.7	166.9	163.2	161.4	161.4
175°	170.5	172.4	172.4	170.5	168.7	168.7	168.7	166.9	163.2	161.4	161.4
177.5°	172.4	174.2	172.4	172.4	168.7	168.7	168.7	168.7	165.0	163.2	161.4
180°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2
2.5°	1925.4	1903.4	1918.0	1919.9	1927.2	1919.9	1925.4	1919.9	1934.5	1929.0
5°	1918.0	1897.9	1910.7	1912.5	1921.7	1912.5	1921.7	1918.0	1936.4	1930.9
7.5°	1905.2	1888.7	1899.7	1901.5	1912.5	1903.4	1912.5	1908.9	1930.9	1923.5
10°	1886.9	1874.0	1885.0	1886.9	1897.9	1888.7	1896.0	1892.4	1916.2	1905.2
12.5°	1866.7	1855.7	1864.9	1866.7	1879.5	1870.4	1879.5	1875.9	1899.7	1888.7
15°	1837.4	1831.9	1841.0	1844.7	1857.5	1850.2	1859.4	1855.7	1881.4	1866.7
17.5°	1808.0	1804.4	1813.5	1817.2	1831.9	1822.7	1831.9	1828.2	1853.9	1839.2
20°	1771.4	1769.5	1778.7	1784.2	1797.0	1787.9	1798.9	1795.2	1822.7	1808.0
22.5°	1732.8	1732.8	1740.2	1745.7	1758.5	1751.2	1762.2	1760.3	1787.9	1773.2
25°	1690.7	1692.5	1699.8	1707.2	1721.8	1716.3	1725.5	1725.5	1751.2	1732.8
27.5°	1643.0	1652.2	1657.7	1666.8	1679.7	1674.2	1683.3	1685.2	1710.8	1692.5
30°	1593.5	1606.3	1611.8	1622.8	1633.8	1633.8	1643.0	1646.7	1672.3	1654.0
32.5°	1542.1	1556.8	1564.1	1578.8	1593.5	1593.5	1606.3	1611.8	1637.5	1621.0
35°	1490.8	1511.0	1520.1	1538.5	1553.1	1555.0	1567.8	1575.1	1600.8	1584.3
37.5°	1441.3	1467.0	1476.1	1498.1	1511.0	1514.6	1529.3	1538.5	1562.3	1547.6
40°	1389.9	1421.1	1432.1	1456.0	1467.0	1474.3	1489.0	1500.0	1522.0	1509.1
42.5°	1340.4	1375.3	1386.3	1411.9	1424.8	1432.1	1446.8	1461.5	1483.5	1470.6
45°	1290.9	1329.4	1342.3	1369.8	1380.8	1391.8	1408.3	1421.1	1441.3	1430.3
47.5°	1243.2	1283.6	1296.4	1325.8	1338.6	1351.4	1366.1	1384.4	1402.8	1391.8
50°	1193.7	1235.9	1252.4	1283.6	1294.6	1309.3	1327.6	1344.1	1362.4	1353.3
52.5°	1146.1	1190.1	1206.6	1239.6	1252.4	1267.1	1285.4	1303.8	1320.3	1312.9
55°	1094.7	1142.4	1160.7	1195.6	1208.4	1223.1	1243.2	1263.4	1278.1	1272.6
57.5°	1047.0	1096.6	1114.9	1153.4	1164.4	1182.7	1202.9	1224.9	1237.7	1232.2
60°	999.4	1048.9	1070.9	1109.4	1122.2	1140.6	1160.7	1184.6	1195.6	1191.9
62.5°	951.7	1003.0	1026.9	1067.2	1078.2	1098.4	1122.2	1142.4	1153.4	1151.6
65°	907.7	957.2	984.7	1025.0	1036.0	1058.0	1080.0	1102.1	1113.1	1113.1
67.5°	861.8	915.0	942.5	984.7	993.9	1017.7	1041.5	1063.5	1072.7	1072.7
70°	819.7	871.0	902.2	944.4	953.5	975.5	1001.2	1025.0	1032.4	1034.2
72.5°	777.5	828.8	861.8	905.8	915.0	937.0	960.9	986.5	992.0	993.9
75°	737.1	788.5	821.5	865.5	874.7	896.7	922.3	946.2	953.5	955.4
77.5°	696.8	748.1	784.8	827.0	836.2	858.2	883.8	907.7	913.2	916.8
80°	660.1	709.6	744.5	790.3	799.5	821.5	845.3	869.2	872.8	878.3
82.5°	623.5	673.0	709.6	753.6	762.8	784.8	808.7	832.5	836.2	843.5
85°	588.6	638.1	674.8	717.0	728.0	748.1	773.8	795.8	799.5	805.0
87.5°	557.4	603.3	641.8	682.1	693.1	713.3	739.0	761.0	762.8	770.2
90°	524.4	570.3	608.8	649.1	660.1	678.5	704.1	726.1	729.8	735.3
92.5°	496.9	539.1	579.4	618.0	627.1	647.3	671.1	693.1	696.8	702.3
95°	467.6	509.8	550.1	586.8	596.0	616.1	638.1	660.1	663.8	669.3
97.5°	441.9	482.3	520.8	557.4	566.6	584.9	608.8	629.0	632.6	640.0
100°	418.1	456.6	496.9	529.9	539.1	557.4	579.4	599.6	603.3	610.6
102.5°	396.1	432.8	471.3	502.4	513.4	529.9	551.9	570.3	573.9	579.4
105°	375.9	410.7	447.4	476.8	487.8	504.3	524.4	542.8	546.4	551.9
107.5°	355.7	388.7	423.6	452.9	462.1	476.8	496.9	515.3	518.9	526.3
110°	337.4	370.4	403.4	430.9	441.9	452.9	473.1	489.6	493.3	498.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	320.9	350.2	383.2	408.9	418.1	430.9	447.4	463.9	467.6	474.9
115°	306.2	333.7	366.7	390.6	397.9	408.9	427.3	441.9	445.6	451.1
117.5°	293.4	317.2	346.6	370.4	379.6	388.7	405.2	418.1	423.6	427.3
120°	282.4	304.4	330.1	352.1	363.1	370.4	385.1	397.9	403.4	407.1
122.5°	271.4	291.6	315.4	335.6	344.7	350.2	366.7	377.7	383.2	388.7
125°	262.2	280.6	302.6	319.1	328.2	333.7	348.4	359.4	364.9	368.6
127.5°	253.1	269.6	291.6	304.4	313.6	317.2	330.1	341.1	346.6	348.4
130°	243.9	260.4	278.7	291.6	298.9	304.4	315.4	322.7	328.2	330.1
132.5°	236.5	251.2	267.7	280.6	287.9	289.7	300.7	308.1	313.6	315.4
135°	231.0	242.0	258.6	269.6	275.1	278.7	287.9	293.4	298.9	300.7
137.5°	223.7	234.7	249.4	256.7	264.1	265.9	275.1	280.6	286.1	287.9
140°	218.2	227.4	240.2	247.5	254.9	254.9	262.2	267.7	273.2	273.2
142.5°	212.7	221.9	232.9	240.2	245.7	245.7	253.1	256.7	262.2	262.2
145°	205.4	214.5	225.5	231.0	236.5	236.5	242.0	245.7	251.2	251.2
147.5°	198.0	207.2	218.2	221.9	227.4	227.4	232.9	236.5	240.2	240.2
150°	188.9	196.2	209.0	214.5	220.0	220.0	223.7	227.4	231.0	231.0
152.5°	181.5	187.0	198.0	205.4	210.9	210.9	214.5	218.2	221.9	221.9
155°	172.4	177.9	187.0	196.2	201.7	203.5	207.2	209.0	212.7	212.7
157.5°	165.0	170.5	177.9	185.2	190.7	194.4	199.9	201.7	203.5	203.5
160°	155.9	159.5	166.9	174.2	179.7	183.4	192.5	194.4	196.2	196.2
162.5°	152.2	152.2	155.9	161.4	166.9	168.7	177.9	185.2	188.9	187.0
165°	154.0	152.2	152.2	154.0	157.7	159.5	165.0	176.0	179.7	177.9
167.5°	157.7	154.0	152.2	152.2	155.9	155.9	161.4	170.5	181.5	177.9
170°	157.7	152.2	148.5	148.5	150.4	150.4	154.0	159.5	170.5	172.4
172.5°	155.9	152.2	146.7	139.4	141.2	139.4	137.5	141.2	143.0	161.4
175°	157.7	152.2	146.7	137.5	133.9	128.4	119.2	111.9	110.0	89.9
177.5°	155.9	150.4	143.0	135.7	132.0	124.7	113.7	100.9	93.5	82.5
180°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5



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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	13.63	14.94	14.28	15.61	16.38	17.26	18.57	17.90	19.23	20.00
	3H	14.98	16.18	15.64	16.85	17.66	20.21	21.41	20.87	22.08	22.89
	4H	15.38	16.52	16.06	17.21	18.02	21.72	22.86	22.39	23.55	24.36
	6H	15.60	16.66	16.29	17.36	18.19	23.33	24.39	24.02	25.09	25.92
	8H	15.63	16.65	16.33	17.37	18.20	24.18	25.20	24.88	25.92	26.75
	12H	15.64	16.61	16.34	17.33	18.19	25.13	26.10	25.83	26.81	27.68
4H	2H	14.79	15.93	15.47	16.62	17.43	17.57	18.71	18.25	19.40	20.21
	3H	16.43	17.41	17.12	18.13	18.97	20.76	21.74	21.45	22.46	23.29
	4H	17.00	17.90	17.71	18.63	19.49	22.44	23.34	23.14	24.06	24.92
	6H	17.34	18.14	18.06	18.89	19.76	24.26	25.05	24.98	25.80	26.67
	8H	17.41	18.17	18.14	18.91	19.80	25.23	25.98	25.96	26.73	27.61
	12H	17.44	18.13	18.19	18.90	19.78	26.32	27.00	27.06	27.77	28.66
8H	4H	18.11	18.86	18.83	19.61	20.49	22.61	23.36	23.33	24.11	24.99
	6H	18.72	19.36	19.47	20.14	21.03	24.60	25.24	25.36	26.03	26.92
	8H	18.91	19.49	19.68	20.28	21.18	25.72	26.30	26.49	27.09	27.99
	12H	19.02	19.54	19.79	20.32	21.28	27.00	27.52	27.77	28.30	29.25
12H	4H	18.47	19.16	19.22	19.93	20.82	22.60	23.29	23.35	24.06	24.95
	6H	19.25	19.83	20.02	20.62	21.52	24.63	25.21	25.40	26.00	26.90
	8H	19.58	20.10	20.35	20.88	21.83	25.81	26.33	26.58	27.11	28.07