

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: P895420

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895420
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-SC3-FLTU-UNV-CC93-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

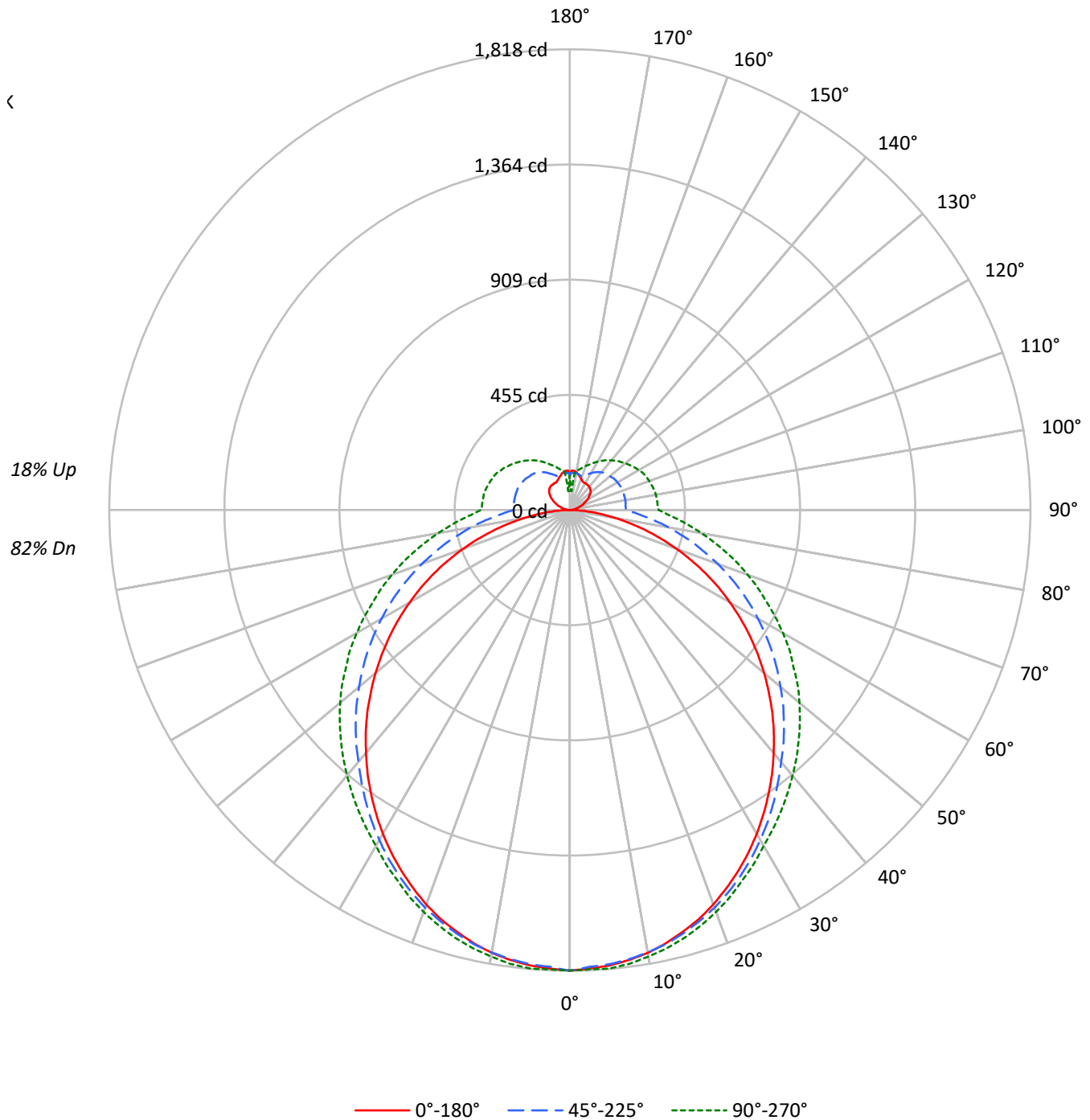
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6871.0 lumens
Efficiency: N/A
Efficacy: 102.7 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): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895420
CATALOG NUMBER: 8TMB-SC3-FLTU-UNV-CC93-MID-5000K

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°	6449	6449	6449
5°	6411	6188	6171
10°	6363	5960	5879
15°	6285	5730	5598
20°	6196	5493	5314
25°	6079	5245	5026
30°	5956	4991	4763
35°	5818	4736	4546
40°	5672	4485	4340
45°	5527	4265	4143
50°	5358	4038	3952
55°	5177	3815	3738
60°	4958	3576	3535
65°	4698	3323	3306
70°	4354	3045	3093
75°	3877	2759	2862
80°	3250	2455	2626
85°	2446	2145	2410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.5
10°-20°	490.2	7.1
20°-30°	736.5	10.7
30°-40°	884.4	12.9
40°-50°	929.9	13.5
50°-60°	873.7	12.7
60°-70°	726.5	10.6
70°-80°	518.4	7.5
80°-90°	308.6	4.5
90°-100°	223.4	3.3
100°-110°	220.4	3.2
110°-120°	207.0	3.0
120°-130°	183.4	2.7
130°-140°	152.0	2.2
140°-150°	113.8	1.7
150°-160°	74.8	1.1
160°-170°	42.4	0.6
170°-180°	13.5	0.2
0°-30°	1398.6	20.4
0°-40°	2282.9	33.2
0°-60°	4086.5	59.5
0°-90°	5640.1	82.1
90°-120°	650.8	9.5
90°-150°	1100.1	16.0
90°-180°	1231.0	17.9
0°-180°	6871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1804	1826	1799	1804	1816	171
15°	1723	1749	1730	1741	1748	486
25°	1572	1602	1593	1608	1612	724
35°	1368	1399	1404	1439	1452	856
45°	1130	1162	1195	1256	1278	871
55°	868	903	974	1054	1077	776
65°	591	639	740	833	856	585
75°	310	380	506	604	636	330
85°	78	171	297	397	430	85
90°	0	98	221	317	350	5
95°	8	103	221	314	347	9
105°	32	114	222	310	340	34
115°	61	124	221	297	327	61
125°	93	133	214	279	300	83
135°	114	139	202	254	272	88
145°	121	136	183	226	239	76
155°	123	138	154	191	202	57
165°	141	149	144	146	169	40
175°	156	154	146	124	75	15
180°	136	136	136	136	136	



TEST NUMBER: P895420
 CATALOG NUMBER: 8TMB-SC3-FLTU-UNV-CC93-MID-5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	1810.9	1815.8	1817.5	1834.1	1827.5	1834.1	1822.5	1809.2	1805.9	1814.2	1804.2
5°	1804.2	1809.2	1810.9	1827.5	1820.8	1825.8	1815.8	1802.6	1799.2	1809.2	1799.2
7.5°	1790.9	1795.9	1797.6	1815.8	1807.5	1814.2	1802.6	1789.3	1787.6	1797.6	1787.6
10°	1774.3	1779.3	1781.0	1797.6	1790.9	1797.6	1786.0	1772.7	1771.0	1782.6	1772.7
12.5°	1751.1	1756.1	1759.4	1776.0	1767.7	1776.0	1762.7	1749.4	1751.1	1761.1	1754.4
15°	1722.9	1729.5	1731.2	1747.8	1741.1	1749.4	1736.2	1722.9	1726.2	1736.2	1729.5
17.5°	1693.0	1699.6	1701.3	1716.2	1709.6	1719.6	1704.6	1693.0	1696.3	1706.3	1701.3
20°	1656.5	1663.1	1666.5	1681.4	1674.8	1684.7	1669.8	1659.8	1663.1	1674.8	1669.8
22.5°	1615.0	1625.0	1626.6	1643.2	1634.9	1644.9	1629.9	1621.6	1626.6	1638.2	1633.3
25°	1571.8	1581.8	1583.5	1600.1	1593.4	1601.7	1586.8	1578.5	1585.1	1596.7	1593.4
27.5°	1525.4	1535.3	1538.6	1553.6	1546.9	1556.9	1540.3	1535.3	1542.0	1553.6	1550.3
30°	1475.6	1485.5	1487.2	1502.1	1497.2	1507.1	1492.2	1485.5	1495.5	1507.1	1503.8
32.5°	1422.5	1432.4	1437.4	1450.7	1445.7	1454.0	1440.7	1437.4	1445.7	1457.3	1455.7
35°	1367.7	1377.6	1382.6	1397.6	1390.9	1399.2	1385.9	1382.6	1395.9	1404.2	1404.2
37.5°	1311.3	1321.2	1326.2	1341.1	1332.8	1342.8	1329.5	1327.9	1342.8	1351.1	1351.1
40°	1251.5	1263.1	1268.1	1281.4	1274.7	1283.0	1271.4	1273.1	1286.4	1296.3	1298.0
42.5°	1191.7	1203.4	1208.3	1223.3	1215.0	1223.3	1213.3	1215.0	1229.9	1239.9	1248.2
45°	1130.3	1140.3	1145.3	1161.9	1151.9	1161.9	1151.9	1155.2	1170.2	1185.1	1195.1
47.5°	1065.6	1075.6	1083.9	1097.1	1088.8	1097.1	1090.5	1095.5	1113.7	1128.7	1142.0
50°	1000.9	1010.8	1019.1	1030.7	1022.4	1034.1	1025.8	1032.4	1055.6	1070.6	1085.5
52.5°	934.5	942.8	956.1	962.7	956.1	969.3	962.7	972.7	995.9	1014.1	1030.7
55°	868.1	876.4	889.7	894.6	888.0	902.9	898.0	911.2	936.1	956.1	974.3
57.5°	800.0	808.3	819.9	824.9	819.9	836.5	834.9	849.8	874.7	896.3	916.2
60°	730.3	738.6	748.6	753.6	753.6	770.2	770.2	788.4	815.0	834.9	858.1
62.5°	662.3	667.2	677.2	683.8	688.8	705.4	705.4	725.3	753.6	776.8	800.0
65°	590.9	595.9	604.2	612.5	620.8	639.0	640.7	662.3	690.5	713.7	740.3
67.5°	519.5	524.5	532.8	542.8	554.4	572.6	576.0	599.2	629.1	655.6	680.5
70°	449.8	451.5	461.4	474.7	488.0	506.2	511.2	536.1	567.7	594.2	620.8
72.5°	380.1	381.8	391.7	408.3	423.3	443.2	449.8	476.4	507.9	534.5	561.0
75°	310.4	312.0	325.3	345.2	361.8	380.1	388.4	416.6	448.1	476.4	506.2
77.5°	244.0	247.3	260.6	280.5	300.4	322.0	330.3	358.5	393.4	419.9	448.1
80°	182.6	185.9	200.8	222.4	244.0	263.9	273.9	302.1	338.6	365.2	396.7
82.5°	126.1	131.1	149.4	172.6	194.2	215.8	225.7	252.3	285.5	315.4	345.2
85°	78.0	84.7	102.9	127.8	151.0	171.0	180.9	209.1	240.7	268.9	297.1
87.5°	36.5	46.5	64.7	89.6	114.5	131.1	142.7	171.0	200.8	229.1	257.3
90°	0.0	14.9	33.2	58.1	83.0	97.9	111.2	137.8	167.6	194.2	220.8
92.5°	3.3	16.6	36.5	59.8	84.7	99.6	112.9	139.4	167.6	194.2	220.8
95°	8.3	18.3	38.2	63.1	88.0	102.9	114.5	141.1	169.3	195.9	220.8
97.5°	14.9	23.2	43.2	66.4	91.3	104.6	117.8	144.4	171.0	197.5	222.4
100°	19.9	26.6	46.5	69.7	94.6	107.9	121.2	146.1	172.6	199.2	222.4
102.5°	24.9	33.2	51.5	73.0	97.9	111.2	122.8	147.7	174.3	199.2	222.4
105°	31.5	38.2	54.8	78.0	101.2	114.5	126.1	151.0	175.9	200.8	222.4
107.5°	38.2	43.2	59.8	81.3	104.6	116.2	127.8	152.7	177.6	200.8	222.4
110°	46.5	49.8	64.7	84.7	106.2	119.5	131.1	154.4	177.6	200.8	222.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	54.8	54.8	69.7	88.0	109.5	121.2	132.8	156.0	179.3	200.8	222.4
115°	61.4	63.1	74.7	91.3	112.9	124.5	134.4	156.0	179.3	200.8	220.8
117.5°	69.7	69.7	81.3	94.6	114.5	126.1	137.8	157.7	179.3	199.2	219.1
120°	78.0	76.4	86.3	99.6	117.8	127.8	139.4	159.3	179.3	199.2	217.4
122.5°	86.3	83.0	89.6	102.9	119.5	131.1	139.4	159.3	179.3	197.5	215.8
125°	92.9	89.6	94.6	107.9	122.8	132.8	141.1	159.3	179.3	195.9	214.1
127.5°	99.6	96.3	101.2	111.2	124.5	132.8	142.7	159.3	179.3	194.2	210.8
130°	106.2	101.2	107.9	114.5	127.8	134.4	142.7	159.3	177.6	192.5	207.5
132.5°	111.2	106.2	112.9	117.8	129.5	136.1	144.4	159.3	175.9	190.9	205.8
135°	114.5	109.5	117.8	121.2	132.8	139.4	146.1	159.3	174.3	189.2	202.5
137.5°	117.8	111.2	121.2	124.5	134.4	141.1	146.1	157.7	172.6	185.9	199.2
140°	119.5	114.5	124.5	127.8	132.8	139.4	146.1	156.0	169.3	182.6	194.2
142.5°	121.2	114.5	126.1	129.5	132.8	137.8	144.4	152.7	166.0	177.6	189.2
145°	121.2	116.2	126.1	129.5	132.8	136.1	141.1	151.0	161.0	171.0	182.6
147.5°	121.2	117.8	127.8	131.1	134.4	134.4	137.8	147.7	156.0	166.0	175.9
150°	122.8	117.8	127.8	131.1	136.1	136.1	137.8	142.7	152.7	159.3	167.6
152.5°	121.2	119.5	126.1	132.8	136.1	137.8	137.8	139.4	147.7	154.4	161.0
155°	122.8	122.8	127.8	136.1	137.8	137.8	139.4	137.8	141.1	147.7	154.4
157.5°	126.1	129.5	129.5	137.8	141.1	141.1	142.7	141.1	139.4	141.1	147.7
160°	131.1	134.4	134.4	139.4	144.4	144.4	146.1	144.4	142.7	141.1	141.1
162.5°	136.1	139.4	139.4	141.1	146.1	147.7	149.4	147.7	146.1	142.7	141.1
165°	141.1	144.4	144.4	144.4	147.7	149.4	151.0	149.4	149.4	146.1	144.4
167.5°	146.1	149.4	149.4	147.7	149.4	151.0	152.7	151.0	151.0	149.4	146.1
170°	151.0	154.4	154.4	151.0	152.7	152.7	154.4	152.7	152.7	149.4	147.7
172.5°	154.4	157.7	156.0	154.4	154.4	154.4	154.4	152.7	151.0	147.7	147.7
175°	156.0	159.3	159.3	156.0	154.4	154.4	156.0	152.7	151.0	149.4	146.1
177.5°	156.0	159.3	159.3	156.0	156.0	154.4	156.0	154.4	154.4	151.0	147.7
180°	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	1810.9	1809.2	1799.2	1810.9	1810.9	1807.5	1820.8	1819.2	1817.5	1814.2
5°	1804.2	1802.6	1792.6	1804.2	1804.2	1802.6	1815.8	1817.5	1819.2	1815.8
7.5°	1794.3	1792.6	1782.6	1794.3	1794.3	1792.6	1807.5	1809.2	1810.9	1805.9
10°	1779.3	1777.7	1767.7	1779.3	1781.0	1779.3	1790.9	1792.6	1795.9	1789.3
12.5°	1759.4	1759.4	1749.4	1761.1	1762.7	1761.1	1772.7	1776.0	1779.3	1771.0
15°	1734.5	1736.2	1727.9	1739.5	1741.1	1741.1	1752.8	1754.4	1759.4	1747.8
17.5°	1704.6	1707.9	1701.3	1712.9	1714.6	1716.2	1722.9	1727.9	1732.8	1719.6
20°	1673.1	1674.8	1669.8	1679.7	1683.1	1681.4	1689.7	1696.3	1701.3	1688.0
22.5°	1634.9	1636.6	1631.6	1641.6	1644.9	1646.5	1653.2	1661.5	1664.8	1653.2
25°	1591.8	1598.4	1595.1	1605.0	1608.4	1608.4	1615.0	1623.3	1628.3	1611.7
27.5°	1550.3	1558.6	1555.2	1565.2	1568.5	1570.2	1573.5	1583.5	1588.4	1573.5
30°	1503.8	1513.7	1512.1	1522.0	1525.4	1523.7	1530.3	1540.3	1546.9	1530.3
32.5°	1452.3	1465.6	1464.0	1477.2	1480.6	1482.2	1487.2	1500.5	1507.1	1492.2
35°	1402.5	1417.5	1419.1	1434.1	1439.1	1440.7	1447.4	1460.6	1467.3	1452.3
37.5°	1351.1	1371.0	1376.0	1390.9	1395.9	1397.6	1404.2	1419.1	1425.8	1410.8
40°	1301.3	1324.5	1331.2	1344.4	1349.4	1354.4	1359.4	1374.3	1382.6	1367.7
42.5°	1251.5	1276.4	1284.7	1298.0	1303.0	1307.9	1314.6	1331.2	1337.8	1324.5
45°	1200.0	1226.6	1236.6	1249.8	1256.5	1261.5	1268.1	1283.0	1291.3	1278.1
47.5°	1148.6	1175.1	1185.1	1200.0	1206.7	1213.3	1218.3	1236.6	1244.9	1231.6
50°	1093.8	1123.7	1135.3	1148.6	1158.5	1163.5	1170.2	1186.8	1195.1	1183.4
52.5°	1039.0	1070.6	1083.9	1097.1	1107.1	1115.4	1118.7	1137.0	1145.3	1133.7
55°	982.6	1014.1	1029.1	1044.0	1054.0	1063.9	1067.3	1085.5	1093.8	1077.2
57.5°	926.2	959.4	974.3	990.9	999.2	1010.8	1015.8	1032.4	1040.7	1029.1
60°	869.7	901.3	919.5	934.5	946.1	956.1	959.4	977.6	985.9	971.0
62.5°	811.6	844.8	863.1	879.7	889.7	901.3	906.3	922.9	929.5	914.6
65°	751.9	785.1	805.0	819.9	833.2	843.2	846.5	864.8	871.4	856.5
67.5°	692.1	725.3	746.9	763.5	775.1	786.8	790.1	808.3	815.0	803.3
70°	634.0	667.2	688.8	708.7	717.0	728.7	733.6	750.2	756.9	746.9
72.5°	576.0	609.2	632.4	652.3	660.6	672.2	678.9	692.1	702.1	693.8
75°	519.5	552.7	576.0	595.9	604.2	615.8	622.4	635.7	642.3	635.7
77.5°	464.7	497.9	519.5	539.4	549.4	559.4	566.0	579.3	587.6	580.9
80°	411.6	444.8	466.4	484.7	494.6	504.6	511.2	526.2	532.8	527.8
82.5°	361.8	393.4	416.6	434.9	444.8	454.8	461.4	474.7	483.0	476.4
85°	317.0	348.6	370.1	388.4	396.7	406.7	413.3	426.6	433.2	429.9
87.5°	273.9	302.1	327.0	345.2	353.5	363.5	371.8	381.8	390.1	385.1
90°	240.7	265.6	288.8	307.1	317.0	327.0	336.9	346.9	353.5	350.2
92.5°	242.3	265.6	287.1	303.7	313.7	323.7	333.6	345.2	350.2	346.9
95°	242.3	265.6	287.1	303.7	313.7	323.7	333.6	345.2	350.2	346.9
97.5°	242.3	265.6	287.1	303.7	313.7	323.7	333.6	345.2	350.2	345.2
100°	242.3	265.6	287.1	303.7	313.7	322.0	332.0	343.6	348.6	345.2
102.5°	242.3	265.6	285.5	302.1	312.0	320.3	330.3	341.9	346.9	343.6
105°	242.3	263.9	285.5	300.4	310.4	318.7	328.6	338.6	343.6	340.3
107.5°	240.7	262.3	282.2	298.8	307.1	315.4	325.3	335.3	340.3	336.9
110°	240.7	260.6	280.5	295.4	303.7	312.0	322.0	332.0	336.9	333.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	239.0	258.9	278.8	292.1	300.4	308.7	317.0	328.6	333.6	330.3
115°	237.4	257.3	275.5	288.8	297.1	303.7	313.7	325.3	328.6	327.0
117.5°	235.7	254.0	272.2	285.5	293.8	300.4	308.7	318.7	323.7	322.0
120°	234.0	250.6	268.9	280.5	288.8	295.4	302.1	312.0	317.0	313.7
122.5°	230.7	247.3	265.6	277.2	283.8	290.5	297.1	305.4	310.4	308.7
125°	227.4	244.0	260.6	272.2	278.8	283.8	290.5	298.8	302.1	300.4
127.5°	224.1	240.7	255.6	265.6	273.9	278.8	283.8	292.1	295.4	293.8
130°	220.8	235.7	250.6	260.6	267.2	272.2	277.2	285.5	287.1	287.1
132.5°	217.4	230.7	245.7	255.6	262.3	265.6	270.5	277.2	280.5	278.8
135°	214.1	225.7	240.7	249.0	254.0	258.9	263.9	270.5	272.2	272.2
137.5°	209.1	220.8	234.0	242.3	247.3	250.6	255.6	262.3	263.9	263.9
140°	204.2	215.8	227.4	234.0	240.7	244.0	247.3	254.0	255.6	255.6
142.5°	199.2	209.1	220.8	227.4	234.0	235.7	240.7	245.7	247.3	247.3
145°	192.5	204.2	214.1	220.8	225.7	227.4	232.4	237.4	237.4	239.0
147.5°	184.2	194.2	207.5	212.5	217.4	219.1	224.1	227.4	229.1	229.1
150°	175.9	185.9	197.5	205.8	210.8	212.5	214.1	219.1	219.1	220.8
152.5°	167.6	175.9	187.6	195.9	202.5	204.2	205.8	209.1	209.1	210.8
155°	159.3	166.0	175.9	184.2	190.9	194.2	197.5	200.8	200.8	202.5
157.5°	152.7	159.3	167.6	174.3	179.3	184.2	189.2	192.5	192.5	192.5
160°	144.4	149.4	157.7	162.7	169.3	172.6	180.9	184.2	184.2	185.9
162.5°	139.4	141.1	146.1	151.0	156.0	159.3	167.6	175.9	175.9	177.6
165°	141.1	139.4	141.1	142.7	146.1	147.7	152.7	164.3	167.6	169.3
167.5°	144.4	139.4	139.4	139.4	142.7	142.7	147.7	154.4	166.0	162.7
170°	144.4	139.4	136.1	136.1	137.8	136.1	139.4	144.4	151.0	157.7
172.5°	146.1	141.1	136.1	129.5	131.1	129.5	126.1	126.1	127.8	149.4
175°	144.4	141.1	134.4	126.1	124.5	119.5	109.5	101.2	96.3	74.7
177.5°	142.7	137.8	132.8	126.1	122.8	117.8	106.2	92.9	79.7	76.4
180°	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1



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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	14.18	15.50	14.80	16.14	16.86	16.81	18.13	17.43	18.76	19.49
	3H	15.59	16.79	16.22	17.43	18.19	19.27	20.47	19.90	21.12	21.87
	4H	16.01	17.15	16.66	17.81	18.58	20.44	21.58	21.09	22.23	23.00
	6H	16.25	17.31	16.91	17.97	18.76	21.62	22.68	22.28	23.34	24.13
	8H	16.29	17.31	16.97	17.99	18.78	22.21	23.23	22.89	23.91	24.70
	12H	16.30	17.27	16.98	17.95	18.77	22.85	23.82	23.53	24.50	25.32
4H	2H	15.09	16.22	15.74	16.88	17.65	17.16	18.29	17.81	18.95	19.72
	3H	16.71	17.68	17.37	18.37	19.16	19.82	20.79	20.48	21.48	22.27
	4H	17.26	18.15	17.94	18.84	19.66	21.14	22.02	21.82	22.72	23.54
	6H	17.60	18.38	18.30	19.10	19.93	22.49	23.27	23.19	23.99	24.81
	8H	17.68	18.41	18.38	19.13	19.97	23.18	23.91	23.88	24.63	25.47
	12H	17.71	18.37	18.43	19.11	19.96	23.93	24.59	24.65	25.34	26.18
8H	4H	17.93	18.66	18.63	19.38	20.22	21.28	22.02	21.99	22.73	23.58
	6H	18.43	19.05	19.16	19.81	20.65	22.78	23.40	23.51	24.16	25.00
	8H	18.58	19.14	19.33	19.90	20.76	23.59	24.14	24.33	24.91	25.76
	12H	18.67	19.17	19.42	19.92	20.84	24.50	24.99	25.25	25.75	26.66
12H	4H	18.10	18.76	18.82	19.50	20.35	21.27	21.94	22.00	22.68	23.53
	6H	18.70	19.25	19.44	20.01	20.87	22.79	23.35	23.54	24.11	24.97
	8H	18.93	19.42	19.68	20.18	21.09	23.66	24.15	24.40	24.90	25.82