

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: P895275

Luminaire Tested: 8TMB-8SL-RNDU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895275
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-8SL-RNDU-UNV-L940
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 4
Light Source: -
Ballast/Driver: -

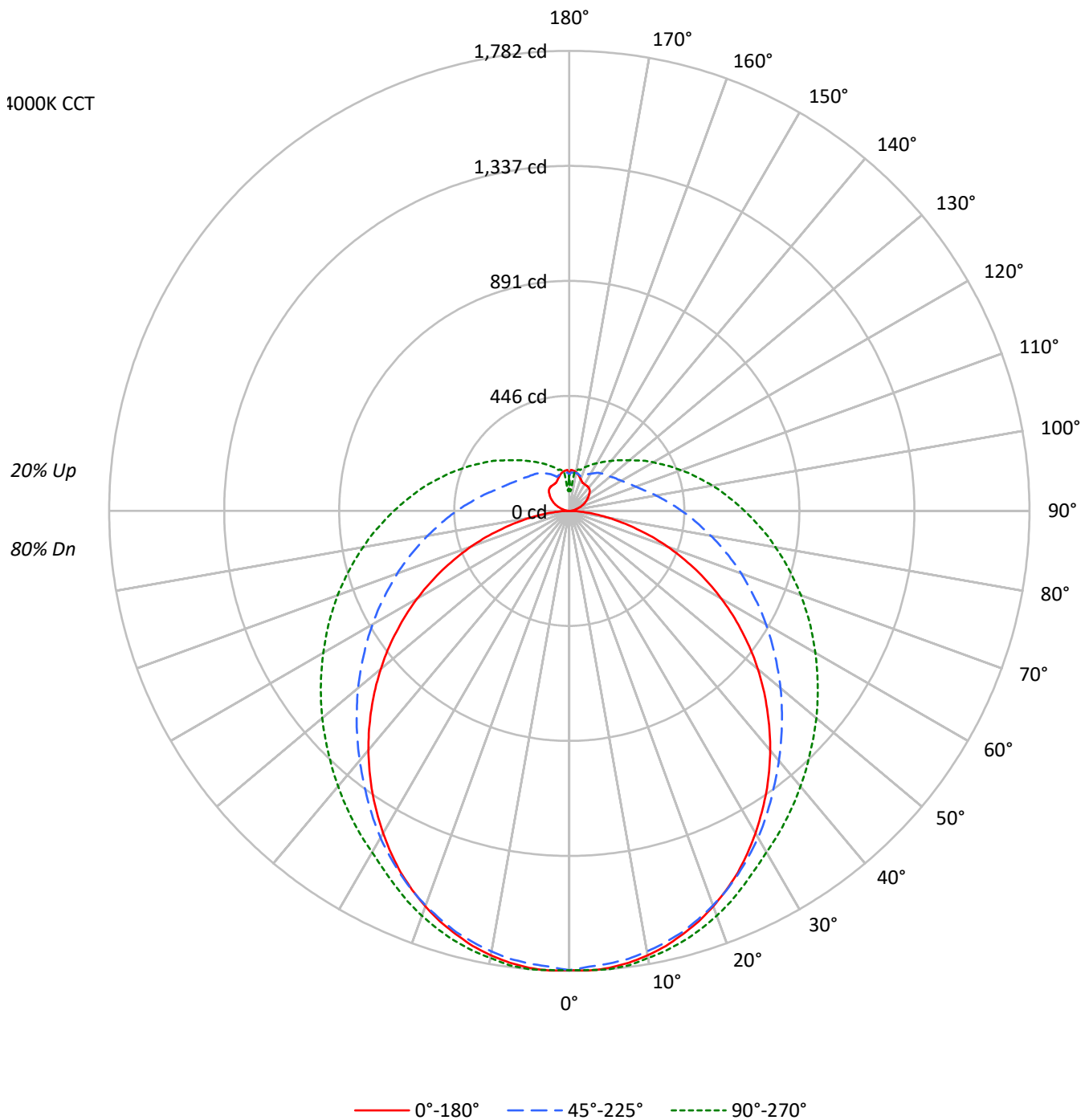
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7482.0 lumens
Efficiency: N/A
Efficacy: 125.5 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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°	6312	6312	6312
5°	6315	6054	6057
10°	6270	5827	5777
15°	6192	5596	5519
20°	6096	5351	5253
25°	5977	5104	4987
30°	5820	4854	4752
35°	5659	4595	4578
40°	5485	4362	4420
45°	5297	4156	4280
50°	5101	3973	4171
55°	4875	3804	4076
60°	4619	3667	4005
65°	4306	3548	3966
70°	3915	3478	3953
75°	3383	3432	3970
80°	2741	3445	4033
85°	1909	3555	4165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	2.2
10°-20°	479.9	6.4
20°-30°	720.5	9.6
30°-40°	866.4	11.6
40°-50°	918.0	12.3
50°-60°	884.0	11.8
60°-70°	782.4	10.5
70°-80°	641.7	8.6
80°-90°	498.0	6.7
90°-100°	386.5	5.2
100°-110°	306.2	4.1
110°-120°	244.0	3.3
120°-130°	193.8	2.6
130°-140°	151.3	2.0
140°-150°	111.4	1.5
150°-160°	73.7	1.0
160°-170°	42.4	0.6
170°-180°	13.6	0.2
0°-30°	1368.7	18.3
0°-40°	2235.1	29.9
0°-60°	4037.1	54.0
0°-90°	5959.2	79.6
90°-120°	936.7	12.5
90°-150°	1393.2	18.6
90°-180°	1523.0	20.4
0°-180°	7482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1777	1779	1760	1774	1782	169
15°	1698	1699	1689	1714	1723	479
25°	1545	1550	1550	1589	1599	711
35°	1330	1347	1362	1434	1462	832
45°	1083	1109	1164	1274	1320	836
55°	818	858	972	1115	1175	731
65°	542	616	790	956	1027	536
75°	271	406	630	807	882	290
85°	61	245	492	672	743	70
90°	2	193	435	609	679	5
95°	8	159	384	550	618	9
105°	30	129	303	450	510	33
115°	61	124	252	367	416	60
125°	88	129	220	303	340	79
135°	112	137	198	254	278	85
145°	118	135	179	218	232	74
155°	120	140	154	186	196	57
165°	142	151	146	146	164	40
175°	157	156	149	124	83	15
180°	137	137	137	137	137	



TEST NUMBER: P895275
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9
2.5°	1782.2	1780.5	1783.9	1787.3	1797.5	1783.9	1790.7	1772.1	1773.8	1775.5	1767.0
5°	1777.2	1772.1	1777.2	1780.5	1789.0	1778.9	1785.6	1765.3	1767.0	1770.4	1760.2
7.5°	1765.3	1760.2	1763.6	1767.0	1775.5	1765.3	1773.8	1753.5	1756.9	1758.5	1750.1
10°	1748.4	1741.6	1745.0	1750.1	1756.9	1748.4	1755.2	1736.5	1738.2	1741.6	1733.2
12.5°	1726.4	1719.6	1723.0	1726.4	1734.9	1726.4	1733.2	1714.5	1717.9	1721.3	1712.8
15°	1697.6	1690.8	1694.2	1697.6	1704.4	1699.3	1706.1	1687.5	1690.8	1697.6	1689.2
17.5°	1667.1	1657.0	1660.4	1665.5	1672.2	1668.8	1673.9	1658.7	1660.4	1667.1	1658.7
20°	1629.9	1619.8	1623.1	1628.2	1635.0	1633.3	1636.7	1623.1	1626.5	1635.0	1626.5
22.5°	1589.3	1579.1	1582.5	1589.3	1594.4	1594.4	1596.1	1585.9	1589.3	1597.8	1591.0
25°	1545.3	1535.1	1538.5	1545.3	1550.4	1550.4	1553.7	1543.6	1548.7	1557.1	1550.4
27.5°	1494.5	1489.4	1489.4	1496.2	1499.6	1503.0	1504.7	1496.2	1503.0	1511.4	1506.4
30°	1442.0	1435.3	1438.7	1447.1	1447.1	1453.9	1453.9	1447.1	1455.6	1465.7	1462.4
32.5°	1386.2	1381.1	1382.8	1393.0	1393.0	1401.4	1399.7	1396.3	1404.8	1416.7	1413.3
35°	1330.3	1325.3	1326.9	1337.1	1337.1	1347.3	1343.9	1343.9	1352.3	1365.9	1362.5
37.5°	1271.1	1267.7	1269.4	1279.6	1279.6	1289.7	1286.3	1288.0	1298.2	1313.4	1311.7
40°	1210.2	1206.8	1210.2	1218.6	1222.0	1230.5	1227.1	1230.5	1244.0	1257.6	1262.6
42.5°	1147.5	1145.8	1149.2	1157.7	1161.1	1169.5	1167.9	1172.9	1186.5	1206.8	1213.5
45°	1083.2	1083.2	1086.6	1095.1	1098.5	1108.6	1106.9	1113.7	1130.6	1152.6	1164.5
47.5°	1018.9	1020.6	1022.3	1032.4	1032.4	1049.4	1044.3	1054.5	1076.5	1101.8	1115.4
50°	952.9	956.3	958.0	966.4	969.8	985.1	981.7	998.6	1022.3	1049.4	1068.0
52.5°	886.9	890.3	893.7	900.4	903.8	922.4	919.0	941.1	969.8	998.6	1018.9
55°	817.5	824.3	826.0	834.4	839.5	858.1	858.1	883.5	914.0	946.1	971.5
57.5°	749.8	756.6	758.3	768.4	775.2	797.2	800.6	829.3	863.2	895.4	925.8
60°	680.4	688.9	690.6	700.7	712.6	736.3	741.3	773.5	810.7	844.6	880.1
62.5°	611.0	619.5	622.9	633.0	651.6	675.3	683.8	721.0	759.9	797.2	836.1
65°	541.6	550.1	555.2	568.7	590.7	616.1	627.9	666.9	710.9	749.8	790.4
67.5°	472.2	482.4	489.1	506.1	534.8	561.9	573.8	617.8	663.5	705.8	748.1
70°	404.5	414.7	423.1	445.1	479.0	506.1	521.3	568.7	616.1	661.8	709.2
72.5°	338.5	348.7	360.5	387.6	424.8	455.3	472.2	521.3	573.8	619.5	668.6
75°	270.8	282.7	296.2	333.4	375.7	406.2	424.8	477.3	531.5	577.2	629.6
77.5°	209.9	221.7	242.0	279.3	326.7	360.5	380.8	436.7	492.5	538.2	592.4
80°	154.0	165.9	192.9	233.6	282.7	314.8	340.2	397.7	455.3	502.7	556.8
82.5°	104.9	116.8	148.9	192.9	245.4	277.6	301.3	362.2	419.7	468.8	523.0
85°	60.9	77.9	111.7	159.1	213.3	245.4	269.1	331.7	387.6	436.7	492.5
87.5°	27.1	47.4	84.6	132.0	186.2	216.6	242.0	299.6	358.8	407.9	463.8
90°	1.7	27.1	66.0	111.7	164.2	192.9	216.6	274.2	330.0	380.8	435.0
92.5°	3.4	18.6	54.2	96.5	145.6	174.3	198.0	252.2	304.7	357.1	409.6
95°	8.5	18.6	47.4	86.3	132.0	159.1	181.1	233.6	282.7	333.4	384.2
97.5°	13.5	20.3	45.7	81.2	121.9	147.3	167.6	216.6	265.7	311.4	362.2
100°	18.6	25.4	45.7	77.9	115.1	138.8	157.4	203.1	248.8	291.1	341.9
102.5°	23.7	30.5	49.1	77.9	111.7	132.0	150.6	192.9	235.3	274.2	321.6
105°	30.5	35.5	52.5	77.9	108.3	128.6	143.9	182.8	223.4	260.7	303.0
107.5°	37.2	40.6	55.9	79.5	108.3	125.2	140.5	176.0	213.3	247.1	287.7
110°	45.7	47.4	60.9	82.9	108.3	123.6	137.1	170.9	204.8	237.0	274.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	52.5	52.5	66.0	86.3	108.3	123.6	135.4	165.9	198.0	226.8	262.3
115°	60.9	60.9	71.1	89.7	110.0	123.6	135.4	164.2	192.9	218.3	252.2
117.5°	67.7	67.7	77.9	93.1	113.4	125.2	135.4	160.8	187.9	211.6	242.0
120°	74.5	74.5	81.2	96.5	115.1	126.9	135.4	159.1	182.8	206.5	233.6
122.5°	81.2	81.2	86.3	101.6	116.8	126.9	135.4	157.4	179.4	199.7	225.1
125°	88.0	88.0	91.4	104.9	120.2	128.6	137.1	157.4	177.7	194.6	220.0
127.5°	94.8	93.1	98.2	110.0	121.9	130.3	138.8	157.4	174.3	191.3	213.3
130°	99.9	98.2	104.9	113.4	125.2	132.0	138.8	155.7	172.6	187.9	206.5
132.5°	106.6	103.2	111.7	115.1	128.6	135.4	140.5	155.7	170.9	184.5	203.1
135°	111.7	108.3	116.8	120.2	130.3	137.1	142.2	155.7	169.3	182.8	198.0
137.5°	115.1	113.4	121.9	125.2	132.0	138.8	143.9	155.7	167.6	179.4	194.6
140°	116.8	115.1	121.9	128.6	132.0	138.8	142.2	154.0	165.9	176.0	189.6
142.5°	118.5	118.5	123.6	130.3	132.0	137.1	142.2	152.3	162.5	170.9	186.2
145°	118.5	118.5	123.6	132.0	133.7	135.4	138.8	148.9	157.4	165.9	179.4
147.5°	118.5	118.5	125.2	132.0	135.4	137.1	135.4	145.6	154.0	160.8	172.6
150°	118.5	118.5	125.2	132.0	137.1	138.8	137.1	142.2	148.9	155.7	165.9
152.5°	120.2	120.2	125.2	132.0	137.1	138.8	138.8	138.8	143.9	150.6	160.8
155°	120.2	121.9	125.2	135.4	138.8	140.5	140.5	140.5	138.8	145.6	154.0
157.5°	125.2	126.9	128.6	137.1	140.5	142.2	142.2	142.2	140.5	138.8	147.3
160°	130.3	132.0	133.7	140.5	143.9	145.6	145.6	145.6	142.2	140.5	140.5
162.5°	135.4	138.8	138.8	142.2	145.6	147.3	147.3	148.9	145.6	143.9	142.2
165°	142.2	143.9	143.9	145.6	148.9	150.6	148.9	150.6	148.9	147.3	145.6
167.5°	147.3	148.9	148.9	150.6	150.6	152.3	152.3	152.3	150.6	148.9	148.9
170°	152.3	154.0	154.0	154.0	154.0	154.0	154.0	154.0	152.3	148.9	148.9
172.5°	155.7	157.4	157.4	155.7	155.7	155.7	155.7	154.0	150.6	148.9	148.9
175°	157.4	159.1	159.1	157.4	155.7	155.7	155.7	154.0	150.6	148.9	148.9
177.5°	159.1	160.8	159.1	159.1	155.7	155.7	155.7	155.7	152.3	150.6	148.9
180°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9	1778.9
2.5°	1777.2	1756.9	1770.4	1772.1	1778.9	1772.1	1777.2	1772.1	1785.6	1780.5
5°	1770.4	1751.8	1763.6	1765.3	1773.8	1765.3	1773.8	1770.4	1787.3	1782.2
7.5°	1758.5	1743.3	1753.5	1755.2	1765.3	1756.9	1765.3	1761.9	1782.2	1775.5
10°	1741.6	1729.8	1739.9	1741.6	1751.8	1743.3	1750.1	1746.7	1768.7	1758.5
12.5°	1723.0	1712.8	1721.3	1723.0	1734.9	1726.4	1734.9	1731.5	1753.5	1743.3
15°	1695.9	1690.8	1699.3	1702.7	1714.5	1707.8	1716.2	1712.8	1736.5	1723.0
17.5°	1668.8	1665.5	1673.9	1677.3	1690.8	1682.4	1690.8	1687.5	1711.2	1697.6
20°	1635.0	1633.3	1641.8	1646.8	1658.7	1650.2	1660.4	1657.0	1682.4	1668.8
22.5°	1599.4	1599.4	1606.2	1611.3	1623.1	1616.4	1626.5	1624.8	1650.2	1636.7
25°	1560.5	1562.2	1569.0	1575.8	1589.3	1584.2	1592.7	1592.7	1616.4	1599.4
27.5°	1516.5	1525.0	1530.1	1538.5	1550.4	1545.3	1553.7	1555.4	1579.1	1562.2
30°	1470.8	1482.7	1487.7	1497.9	1508.1	1508.1	1516.5	1519.9	1543.6	1526.7
32.5°	1423.4	1437.0	1443.7	1457.3	1470.8	1470.8	1482.7	1487.7	1511.4	1496.2
35°	1376.0	1394.7	1403.1	1420.0	1433.6	1435.3	1447.1	1453.9	1477.6	1462.4
37.5°	1330.3	1354.0	1362.5	1382.8	1394.7	1398.0	1411.6	1420.0	1442.0	1428.5
40°	1282.9	1311.7	1321.9	1343.9	1354.0	1360.8	1374.3	1384.5	1404.8	1393.0
42.5°	1237.2	1269.4	1279.6	1303.3	1315.1	1321.9	1335.4	1349.0	1369.3	1357.4
45°	1191.5	1227.1	1238.9	1264.3	1274.5	1284.6	1299.9	1311.7	1330.3	1320.2
47.5°	1147.5	1184.8	1196.6	1223.7	1235.6	1247.4	1260.9	1277.9	1294.8	1284.6
50°	1101.8	1140.8	1156.0	1184.8	1194.9	1208.5	1225.4	1240.6	1257.6	1249.1
52.5°	1057.8	1098.5	1113.7	1144.2	1156.0	1169.5	1186.5	1203.4	1218.6	1211.9
55°	1010.4	1054.5	1071.4	1103.5	1115.4	1128.9	1147.5	1166.2	1179.7	1174.6
57.5°	966.4	1012.1	1029.1	1064.6	1074.8	1091.7	1110.3	1130.6	1142.5	1137.4
60°	922.4	968.1	988.4	1024.0	1035.8	1052.8	1071.4	1093.4	1103.5	1100.1
62.5°	878.4	925.8	947.8	985.1	995.2	1013.8	1035.8	1054.5	1064.6	1062.9
65°	837.8	883.5	908.9	946.1	956.3	976.6	996.9	1017.2	1027.4	1027.4
67.5°	795.5	844.6	870.0	908.9	917.4	939.4	961.4	981.7	990.1	990.1
70°	756.6	804.0	832.7	871.7	880.1	900.4	924.1	946.1	952.9	954.6
72.5°	717.6	765.0	795.5	836.1	844.6	864.9	886.9	910.6	915.7	917.4
75°	680.4	727.8	758.3	798.9	807.3	827.7	851.3	873.3	880.1	881.8
77.5°	643.2	690.6	724.4	763.3	771.8	792.1	815.8	837.8	842.9	846.3
80°	609.3	655.0	687.2	729.5	737.9	758.3	780.3	802.3	805.6	810.7
82.5°	575.5	621.2	655.0	695.6	704.1	724.4	746.4	768.4	771.8	778.6
85°	543.3	589.0	622.9	661.8	671.9	690.6	714.3	734.6	737.9	743.0
87.5°	514.5	556.8	592.4	629.6	639.8	658.4	682.1	702.4	704.1	710.9
90°	484.1	526.4	561.9	599.2	609.3	626.2	649.9	670.2	673.6	678.7
92.5°	458.7	497.6	534.8	570.4	578.8	597.5	619.5	639.8	643.2	648.2
95°	431.6	470.5	507.8	541.6	550.1	568.7	589.0	609.3	612.7	617.8
97.5°	407.9	445.1	480.7	514.5	523.0	539.9	561.9	580.5	583.9	590.7
100°	385.9	421.4	458.7	489.1	497.6	514.5	534.8	553.5	556.8	563.6
102.5°	365.6	399.4	435.0	463.8	473.9	489.1	509.5	526.4	529.8	534.8
105°	347.0	379.1	413.0	440.1	450.2	465.4	484.1	501.0	504.4	509.5
107.5°	328.4	358.8	391.0	418.1	426.5	440.1	458.7	475.6	479.0	485.8
110°	311.4	341.9	372.4	397.7	407.9	418.1	436.7	451.9	455.3	460.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	296.2	323.3	353.7	377.4	385.9	397.7	413.0	428.2	431.6	438.4
115°	282.7	308.0	338.5	360.5	367.3	377.4	394.4	407.9	411.3	416.4
117.5°	270.8	292.8	319.9	341.9	350.4	358.8	374.1	385.9	391.0	394.4
120°	260.7	281.0	304.7	325.0	335.1	341.9	355.4	367.3	372.4	375.7
122.5°	250.5	269.1	291.1	309.7	318.2	323.3	338.5	348.7	353.7	358.8
125°	242.0	259.0	279.3	294.5	303.0	308.0	321.6	331.7	336.8	340.2
127.5°	233.6	248.8	269.1	281.0	289.4	292.8	304.7	314.8	319.9	321.6
130°	225.1	240.3	257.3	269.1	275.9	281.0	291.1	297.9	303.0	304.7
132.5°	218.3	231.9	247.1	259.0	265.7	267.4	277.6	284.3	289.4	291.1
135°	213.3	223.4	238.6	248.8	253.9	257.3	265.7	270.8	275.9	277.6
137.5°	206.5	216.6	230.2	237.0	243.7	245.4	253.9	259.0	264.0	265.7
140°	201.4	209.9	221.7	228.5	235.3	235.3	242.0	247.1	252.2	252.2
142.5°	196.3	204.8	215.0	221.7	226.8	226.8	233.6	237.0	242.0	242.0
145°	189.6	198.0	208.2	213.3	218.3	218.3	223.4	226.8	231.9	231.9
147.5°	182.8	191.3	201.4	204.8	209.9	209.9	215.0	218.3	221.7	221.7
150°	174.3	181.1	192.9	198.0	203.1	203.1	206.5	209.9	213.3	213.3
152.5°	167.6	172.6	182.8	189.6	194.6	194.6	198.0	201.4	204.8	204.8
155°	159.1	164.2	172.6	181.1	186.2	187.9	191.3	192.9	196.3	196.3
157.5°	152.3	157.4	164.2	170.9	176.0	179.4	184.5	186.2	187.9	187.9
160°	143.9	147.3	154.0	160.8	165.9	169.3	177.7	179.4	181.1	181.1
162.5°	140.5	140.5	143.9	148.9	154.0	155.7	164.2	170.9	174.3	172.6
165°	142.2	140.5	140.5	142.2	145.6	147.3	152.3	162.5	165.9	164.2
167.5°	145.6	142.2	140.5	140.5	143.9	143.9	148.9	157.4	167.6	164.2
170°	145.6	140.5	137.1	137.1	138.8	138.8	142.2	147.3	157.4	159.1
172.5°	143.9	140.5	135.4	128.6	130.3	128.6	126.9	130.3	132.0	148.9
175°	145.6	140.5	135.4	126.9	123.6	118.5	110.0	103.2	101.6	82.9
177.5°	143.9	138.8	132.0	125.2	121.9	115.1	104.9	93.1	86.3	76.2
180°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1



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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	13.36	14.67	14.00	15.33	16.10	16.98	18.29	17.62	18.96	19.73
	3H	14.70	15.90	15.36	16.58	17.38	19.93	21.13	20.59	21.81	22.61
	4H	15.11	16.25	15.78	16.93	17.75	21.44	22.58	22.11	23.27	24.08
	6H	15.32	16.38	16.01	17.08	17.91	23.05	24.11	23.74	24.81	25.64
	8H	15.36	16.37	16.05	17.09	17.92	23.90	24.92	24.60	25.64	26.47
	12H	15.36	16.34	16.06	17.05	17.91	24.85	25.82	25.55	26.54	27.40
4H	2H	14.51	15.65	15.19	16.34	17.15	17.29	18.43	17.97	19.12	19.93
	3H	16.15	17.13	16.84	17.85	18.69	20.48	21.46	21.17	22.18	23.01
	4H	16.72	17.62	17.43	18.35	19.21	22.16	23.06	22.86	23.79	24.65
	6H	17.06	17.86	17.78	18.61	19.48	23.98	24.78	24.70	25.53	26.39
	8H	17.14	17.89	17.86	18.63	19.52	24.95	25.70	25.68	26.45	27.33
	12H	17.16	17.85	17.91	18.62	19.51	26.04	26.72	26.79	27.49	28.38
8H	4H	17.83	18.58	18.55	19.33	20.21	22.33	23.08	23.06	23.83	24.71
	6H	18.44	19.08	19.19	19.87	20.75	24.32	24.97	25.08	25.75	26.64
	8H	18.63	19.21	19.40	20.00	20.90	25.44	26.02	26.21	26.81	27.71
	12H	18.75	19.26	19.52	20.04	21.00	26.72	27.24	27.49	28.02	28.97
12H	4H	18.19	18.88	18.94	19.65	20.54	22.32	23.01	23.07	23.78	24.67
	6H	18.97	19.55	19.74	20.34	21.24	24.35	24.93	25.12	25.72	26.62
	8H	19.30	19.82	20.07	20.60	21.55	25.54	26.05	26.30	26.83	27.79