

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: P894441

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894441
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-L930
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT
Light Source: -
Ballast/Driver: -

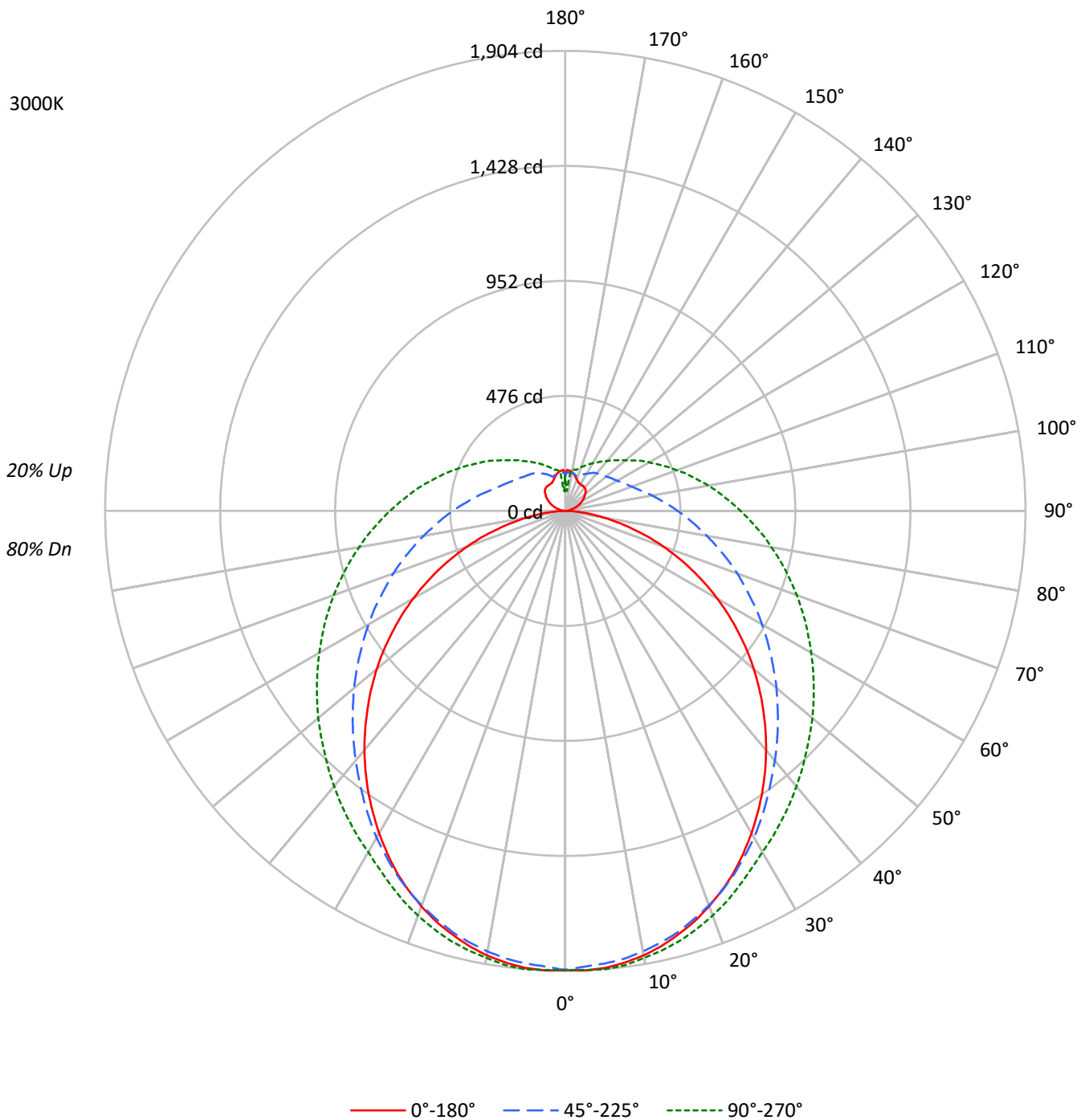
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7992.0 lumens
Efficiency: N/A
Efficacy: 114.2 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°	6742	6742	6742
5°	6746	6467	6470
10°	6698	6224	6171
15°	6615	5978	5895
20°	6512	5716	5612
25°	6384	5451	5327
30°	6217	5185	5075
35°	6045	4909	4890
40°	5859	4660	4721
45°	5658	4439	4571
50°	5449	4244	4455
55°	5207	4064	4354
60°	4934	3917	4278
65°	4599	3790	4236
70°	4183	3715	4222
75°	3614	3666	4241
80°	2928	3681	4308
85°	2041	3798	4449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	2.2
10°-20°	512.6	6.4
20°-30°	769.6	9.6
30°-40°	925.5	11.6
40°-50°	980.5	12.3
50°-60°	944.3	11.8
60°-70°	835.7	10.5
70°-80°	685.5	8.6
80°-90°	531.9	6.7
90°-100°	412.8	5.2
100°-110°	327.1	4.1
110°-120°	260.6	3.3
120°-130°	207.0	2.6
130°-140°	161.6	2.0
140°-150°	119.0	1.5
150°-160°	78.7	1.0
160°-170°	45.3	0.6
170°-180°	14.6	0.2
0°-30°	1462.0	18.3
0°-40°	2387.5	29.9
0°-60°	4312.3	54.0
0°-90°	6365.4	79.6
90°-120°	1000.5	12.5
90°-150°	1488.1	18.6
90°-180°	1627.0	20.4
0°-180°	7992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1898	1900	1880	1895	1904	180
15°	1813	1815	1804	1831	1840	511
25°	1651	1656	1656	1698	1708	759
35°	1421	1439	1455	1531	1562	888
45°	1157	1184	1244	1361	1410	893
55°	873	917	1038	1191	1255	781
65°	578	658	844	1022	1097	573
75°	289	434	672	862	942	309
85°	65	262	526	718	794	74
90°	2	206	465	651	725	5
95°	9	170	410	588	660	10
105°	32	137	324	481	544	35
115°	65	132	269	392	445	64
125°	94	137	235	324	363	84
135°	119	146	212	271	296	91
145°	127	145	192	233	248	79
155°	128	150	164	199	210	60
165°	152	161	156	156	175	43
175°	168	166	159	132	89	16
180°	146	146	146	146	146	



TEST NUMBER: P894441
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1
2.5°	1903.7	1901.9	1905.5	1909.2	1920.0	1905.5	1912.8	1892.9	1894.7	1896.5	1887.5
5°	1898.3	1892.9	1898.3	1901.9	1911.0	1900.1	1907.3	1885.6	1887.5	1891.1	1880.2
7.5°	1885.6	1880.2	1883.8	1887.5	1896.5	1885.6	1894.7	1873.0	1876.6	1878.4	1869.4
10°	1867.6	1860.3	1864.0	1869.4	1876.6	1867.6	1874.8	1854.9	1856.7	1860.3	1851.3
12.5°	1844.1	1836.8	1840.4	1844.1	1853.1	1844.1	1851.3	1831.4	1835.0	1838.6	1829.6
15°	1813.3	1806.1	1809.7	1813.3	1820.6	1815.1	1822.4	1802.5	1806.1	1813.3	1804.3
17.5°	1780.8	1769.9	1773.6	1779.0	1786.2	1782.6	1788.0	1771.7	1773.6	1780.8	1771.7
20°	1741.0	1730.2	1733.8	1739.2	1746.4	1744.6	1748.2	1733.8	1737.4	1746.4	1737.4
22.5°	1697.6	1686.8	1690.4	1697.6	1703.0	1703.0	1704.9	1694.0	1697.6	1706.7	1699.4
25°	1650.6	1639.8	1643.4	1650.6	1656.0	1656.0	1659.7	1648.8	1654.2	1663.3	1656.0
27.5°	1596.4	1591.0	1591.0	1598.2	1601.8	1605.4	1607.2	1598.2	1605.4	1614.5	1609.0
30°	1540.3	1533.1	1536.7	1545.8	1545.8	1553.0	1553.0	1545.8	1554.8	1565.6	1562.0
32.5°	1480.7	1475.3	1477.1	1487.9	1487.9	1496.9	1495.1	1491.5	1500.6	1513.2	1509.6
35°	1421.0	1415.6	1417.4	1428.2	1428.2	1439.1	1435.5	1435.5	1444.5	1459.0	1455.4
37.5°	1357.7	1354.1	1355.9	1366.8	1366.8	1377.6	1374.0	1375.8	1386.7	1402.9	1401.1
40°	1292.7	1289.0	1292.7	1301.7	1305.3	1314.3	1310.7	1314.3	1328.8	1343.3	1348.7
42.5°	1225.8	1224.0	1227.6	1236.6	1240.2	1249.3	1247.5	1252.9	1267.3	1289.0	1296.3
45°	1157.1	1157.1	1160.7	1169.7	1173.3	1184.2	1182.4	1189.6	1207.7	1231.2	1243.8
47.5°	1088.4	1090.2	1092.0	1102.8	1102.8	1120.9	1115.5	1126.3	1149.8	1176.9	1191.4
50°	1017.9	1021.5	1023.3	1032.3	1035.9	1052.2	1048.6	1066.7	1092.0	1120.9	1140.8
52.5°	947.3	951.0	954.6	961.8	965.4	985.3	981.7	1005.2	1035.9	1066.7	1088.4
55°	873.2	880.5	882.3	891.3	896.7	916.6	916.6	943.7	976.3	1010.6	1037.7
57.5°	800.9	808.1	809.9	820.8	828.0	851.5	855.1	885.9	922.0	956.4	988.9
60°	726.8	735.8	737.6	748.5	761.1	786.4	791.9	826.2	866.0	902.1	940.1
62.5°	652.7	661.7	665.3	676.2	696.0	721.4	730.4	770.2	811.8	851.5	893.1
65°	578.5	587.6	593.0	607.5	631.0	658.1	670.7	712.3	759.3	800.9	844.3
67.5°	504.4	515.3	522.5	540.6	571.3	600.2	612.9	659.9	708.7	753.9	799.1
70°	432.1	442.9	452.0	475.5	511.6	540.6	556.8	607.5	658.1	706.9	757.5
72.5°	361.6	372.4	385.1	414.0	453.8	486.3	504.4	556.8	612.9	661.7	714.1
75°	289.3	301.9	316.4	356.2	401.4	433.9	453.8	509.8	567.7	616.5	672.5
77.5°	224.2	236.8	258.5	298.3	348.9	385.1	406.8	466.4	526.1	574.9	632.8
80°	164.5	177.2	206.1	249.5	301.9	336.3	363.4	424.9	486.3	536.9	594.8
82.5°	112.1	124.7	159.1	206.1	262.1	296.5	321.8	386.9	448.4	500.8	558.6
85°	65.1	83.2	119.3	169.9	227.8	262.1	287.5	354.3	414.0	466.4	526.1
87.5°	28.9	50.6	90.4	141.0	198.9	231.4	258.5	320.0	383.3	435.7	495.4
90°	1.8	28.9	70.5	119.3	175.4	206.1	231.4	292.9	352.5	406.8	464.6
92.5°	3.6	19.9	57.9	103.1	155.5	186.2	211.5	269.4	325.4	381.5	437.5
95°	9.0	19.9	50.6	92.2	141.0	169.9	193.4	249.5	301.9	356.2	410.4
97.5°	14.5	21.7	48.8	86.8	130.2	157.3	179.0	231.4	283.8	332.7	386.9
100°	19.9	27.1	48.8	83.2	122.9	148.2	168.1	216.9	265.8	311.0	365.2
102.5°	25.3	32.5	52.4	83.2	119.3	141.0	160.9	206.1	251.3	292.9	343.5
105°	32.5	38.0	56.0	83.2	115.7	137.4	153.7	195.3	238.6	278.4	323.6
107.5°	39.8	43.4	59.7	85.0	115.7	133.8	150.1	188.0	227.8	264.0	307.3
110°	48.8	50.6	65.1	88.6	115.7	132.0	146.4	182.6	218.8	253.1	292.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	56.0	56.0	70.5	92.2	115.7	132.0	144.6	177.2	211.5	242.3	280.2
115°	65.1	65.1	75.9	95.8	117.5	132.0	144.6	175.4	206.1	233.2	269.4
117.5°	72.3	72.3	83.2	99.4	121.1	133.8	144.6	171.8	200.7	226.0	258.5
120°	79.5	79.5	86.8	103.1	122.9	135.6	144.6	169.9	195.3	220.6	249.5
122.5°	86.8	86.8	92.2	108.5	124.7	135.6	144.6	168.1	191.6	213.3	240.5
125°	94.0	94.0	97.6	112.1	128.4	137.4	146.4	168.1	189.8	207.9	235.0
127.5°	101.2	99.4	104.9	117.5	130.2	139.2	148.2	168.1	186.2	204.3	227.8
130°	106.7	104.9	112.1	121.1	133.8	141.0	148.2	166.3	184.4	200.7	220.6
132.5°	113.9	110.3	119.3	122.9	137.4	144.6	150.1	166.3	182.6	197.1	216.9
135°	119.3	115.7	124.7	128.4	139.2	146.4	151.9	166.3	180.8	195.3	211.5
137.5°	122.9	121.1	130.2	133.8	141.0	148.2	153.7	166.3	179.0	191.6	207.9
140°	124.7	122.9	130.2	137.4	141.0	148.2	151.9	164.5	177.2	188.0	202.5
142.5°	126.6	126.6	132.0	139.2	141.0	146.4	151.9	162.7	173.6	182.6	198.9
145°	126.6	126.6	132.0	141.0	142.8	144.6	148.2	159.1	168.1	177.2	191.6
147.5°	126.6	126.6	133.8	141.0	144.6	146.4	144.6	155.5	164.5	171.8	184.4
150°	126.6	126.6	133.8	141.0	146.4	148.2	146.4	151.9	159.1	166.3	177.2
152.5°	128.4	128.4	133.8	141.0	146.4	148.2	148.2	148.2	153.7	160.9	171.8
155°	128.4	130.2	133.8	144.6	148.2	150.1	150.1	150.1	148.2	155.5	164.5
157.5°	133.8	135.6	137.4	146.4	150.1	151.9	151.9	151.9	150.1	148.2	157.3
160°	139.2	141.0	142.8	150.1	153.7	155.5	155.5	155.5	151.9	150.1	150.1
162.5°	144.6	148.2	148.2	151.9	155.5	157.3	157.3	159.1	155.5	153.7	151.9
165°	151.9	153.7	153.7	155.5	159.1	160.9	159.1	160.9	159.1	157.3	155.5
167.5°	157.3	159.1	159.1	160.9	160.9	162.7	162.7	162.7	160.9	159.1	159.1
170°	162.7	164.5	164.5	164.5	164.5	164.5	164.5	164.5	162.7	159.1	159.1
172.5°	166.3	168.1	168.1	166.3	166.3	166.3	166.3	164.5	160.9	159.1	159.1
175°	168.1	169.9	169.9	168.1	166.3	166.3	166.3	164.5	160.9	159.1	159.1
177.5°	169.9	171.8	169.9	169.9	166.3	166.3	166.3	166.3	162.7	160.9	159.1
180°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1	1900.1
2.5°	1898.3	1876.6	1891.1	1892.9	1900.1	1892.9	1898.3	1892.9	1907.3	1901.9
5°	1891.1	1871.2	1883.8	1885.6	1894.7	1885.6	1894.7	1891.1	1909.2	1903.7
7.5°	1878.4	1862.1	1873.0	1874.8	1885.6	1876.6	1885.6	1882.0	1903.7	1896.5
10°	1860.3	1847.7	1858.5	1860.3	1871.2	1862.1	1869.4	1865.8	1889.3	1878.4
12.5°	1840.4	1829.6	1838.6	1840.4	1853.1	1844.1	1853.1	1849.5	1873.0	1862.1
15°	1811.5	1806.1	1815.1	1818.8	1831.4	1824.2	1833.2	1829.6	1854.9	1840.4
17.5°	1782.6	1779.0	1788.0	1791.6	1806.1	1797.1	1806.1	1802.5	1827.8	1813.3
20°	1746.4	1744.6	1753.7	1759.1	1771.7	1762.7	1773.6	1769.9	1797.1	1782.6
22.5°	1708.5	1708.5	1715.7	1721.1	1733.8	1726.6	1737.4	1735.6	1762.7	1748.2
25°	1666.9	1668.7	1675.9	1683.2	1697.6	1692.2	1701.2	1701.2	1726.6	1708.5
27.5°	1619.9	1628.9	1634.3	1643.4	1656.0	1650.6	1659.7	1661.5	1686.8	1668.7
30°	1571.1	1583.7	1589.2	1600.0	1610.8	1610.8	1619.9	1623.5	1648.8	1630.7
32.5°	1520.5	1534.9	1542.1	1556.6	1571.1	1571.1	1583.7	1589.2	1614.5	1598.2
35°	1469.8	1489.7	1498.8	1516.8	1531.3	1533.1	1545.8	1553.0	1578.3	1562.0
37.5°	1421.0	1446.3	1455.4	1477.1	1489.7	1493.3	1507.8	1516.8	1540.3	1525.9
40°	1370.4	1401.1	1412.0	1435.5	1446.3	1453.6	1468.0	1478.9	1500.6	1487.9
42.5°	1321.6	1355.9	1366.8	1392.1	1404.7	1412.0	1426.4	1440.9	1462.6	1449.9
45°	1272.8	1310.7	1323.4	1350.5	1361.4	1372.2	1388.5	1401.1	1421.0	1410.2
47.5°	1225.8	1265.5	1278.2	1307.1	1319.8	1332.4	1346.9	1365.0	1383.0	1372.2
50°	1176.9	1218.5	1234.8	1265.5	1276.4	1290.8	1308.9	1325.2	1343.3	1334.2
52.5°	1129.9	1173.3	1189.6	1222.1	1234.8	1249.3	1267.3	1285.4	1301.7	1294.5
55°	1079.3	1126.3	1144.4	1178.8	1191.4	1205.9	1225.8	1245.6	1260.1	1254.7
57.5°	1032.3	1081.1	1099.2	1137.2	1148.0	1166.1	1186.0	1207.7	1220.3	1214.9
60°	985.3	1034.1	1055.8	1093.8	1106.4	1124.5	1144.4	1167.9	1178.8	1175.1
62.5°	938.3	988.9	1012.4	1052.2	1063.0	1082.9	1106.4	1126.3	1137.2	1135.4
65°	894.9	943.7	970.8	1010.6	1021.5	1043.2	1064.9	1086.6	1097.4	1097.4
67.5°	849.7	902.1	929.3	970.8	979.9	1003.4	1026.9	1048.6	1057.6	1057.6
70°	808.1	858.8	889.5	931.1	940.1	961.8	987.1	1010.6	1017.9	1019.7
72.5°	766.6	817.2	849.7	893.1	902.1	923.8	947.3	972.7	978.1	979.9
75°	726.8	777.4	809.9	853.3	862.4	884.1	909.4	932.9	940.1	941.9
77.5°	687.0	737.6	773.8	815.4	824.4	846.1	871.4	894.9	900.3	904.0
80°	650.8	699.7	734.0	779.2	788.2	809.9	833.4	856.9	860.6	866.0
82.5°	614.7	663.5	699.7	743.0	752.1	773.8	797.3	820.8	824.4	831.6
85°	580.3	629.2	665.3	706.9	717.7	737.6	762.9	784.6	788.2	793.7
87.5°	549.6	594.8	632.8	672.5	683.4	703.3	728.6	750.3	752.1	759.3
90°	517.1	562.3	600.2	640.0	650.8	668.9	694.2	715.9	719.5	725.0
92.5°	489.9	531.5	571.3	609.3	618.3	638.2	661.7	683.4	687.0	692.4
95°	461.0	502.6	542.4	578.5	587.6	607.5	629.2	650.8	654.5	659.9
97.5°	435.7	475.5	513.4	549.6	558.6	576.7	600.2	620.1	623.7	631.0
100°	412.2	450.2	489.9	522.5	531.5	549.6	571.3	591.2	594.8	602.0
102.5°	390.5	426.7	464.6	495.4	506.2	522.5	544.2	562.3	565.9	571.3
105°	370.6	405.0	441.1	470.1	480.9	497.2	517.1	535.1	538.8	544.2
107.5°	350.7	383.3	417.6	446.6	455.6	470.1	489.9	508.0	511.6	518.9
110°	332.7	365.2	397.7	424.9	435.7	446.6	466.4	482.7	486.3	491.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	316.4	345.3	377.9	403.2	412.2	424.9	441.1	457.4	461.0	468.2
115°	301.9	329.0	361.6	385.1	392.3	403.2	421.2	435.7	439.3	444.7
117.5°	289.3	312.8	341.7	365.2	374.2	383.3	399.5	412.2	417.6	421.2
120°	278.4	300.1	325.4	347.1	358.0	365.2	379.7	392.3	397.7	401.4
122.5°	267.6	287.5	311.0	330.8	339.9	345.3	361.6	372.4	377.9	383.3
125°	258.5	276.6	298.3	314.6	323.6	329.0	343.5	354.3	359.8	363.4
127.5°	249.5	265.8	287.5	300.1	309.2	312.8	325.4	336.3	341.7	343.5
130°	240.5	256.7	274.8	287.5	294.7	300.1	311.0	318.2	323.6	325.4
132.5°	233.2	247.7	264.0	276.6	283.8	285.6	296.5	303.7	309.2	311.0
135°	227.8	238.6	254.9	265.8	271.2	274.8	283.8	289.3	294.7	296.5
137.5°	220.6	231.4	245.9	253.1	260.3	262.1	271.2	276.6	282.0	283.8
140°	215.1	224.2	236.8	244.1	251.3	251.3	258.5	264.0	269.4	269.4
142.5°	209.7	218.8	229.6	236.8	242.3	242.3	249.5	253.1	258.5	258.5
145°	202.5	211.5	222.4	227.8	233.2	233.2	238.6	242.3	247.7	247.7
147.5°	195.3	204.3	215.1	218.8	224.2	224.2	229.6	233.2	236.8	236.8
150°	186.2	193.4	206.1	211.5	216.9	216.9	220.6	224.2	227.8	227.8
152.5°	179.0	184.4	195.3	202.5	207.9	207.9	211.5	215.1	218.8	218.8
155°	169.9	175.4	184.4	193.4	198.9	200.7	204.3	206.1	209.7	209.7
157.5°	162.7	168.1	175.4	182.6	188.0	191.6	197.1	198.9	200.7	200.7
160°	153.7	157.3	164.5	171.8	177.2	180.8	189.8	191.6	193.4	193.4
162.5°	150.1	150.1	153.7	159.1	164.5	166.3	175.4	182.6	186.2	184.4
165°	151.9	150.1	150.1	151.9	155.5	157.3	162.7	173.6	177.2	175.4
167.5°	155.5	151.9	150.1	150.1	153.7	153.7	159.1	168.1	179.0	175.4
170°	155.5	150.1	146.4	146.4	148.2	148.2	151.9	157.3	168.1	169.9
172.5°	153.7	150.1	144.6	137.4	139.2	137.4	135.6	139.2	141.0	159.1
175°	155.5	150.1	144.6	135.6	132.0	126.6	117.5	110.3	108.5	88.6
177.5°	153.7	148.2	141.0	133.8	130.2	122.9	112.1	99.4	92.2	81.4
180°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4



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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	13.59	14.90	14.23	15.56	16.33	17.21	18.52	17.85	19.18	19.95
	3H	14.93	16.13	15.59	16.81	17.61	20.16	21.36	20.82	22.04	22.84
	4H	15.34	16.47	16.01	17.16	17.98	21.67	22.81	22.34	23.50	24.31
	6H	15.55	16.61	16.24	17.31	18.14	23.28	24.34	23.97	25.04	25.87
	8H	15.58	16.60	16.28	17.32	18.15	24.13	25.15	24.83	25.87	26.70
	12H	15.59	16.56	16.29	17.28	18.14	25.08	26.05	25.78	26.76	27.63
4H	2H	14.74	15.88	15.42	16.57	17.38	17.52	18.66	18.20	19.35	20.16
	3H	16.38	17.36	17.07	18.08	18.92	20.71	21.69	21.40	22.41	23.24
	4H	16.95	17.85	17.66	18.58	19.44	22.39	23.29	23.09	24.01	24.88
	6H	17.29	18.09	18.01	18.84	19.71	24.21	25.00	24.93	25.75	26.62
	8H	17.37	18.12	18.09	18.86	19.75	25.18	25.93	25.91	26.68	27.56
	12H	17.39	18.08	18.14	18.85	19.74	26.27	26.95	27.02	27.72	28.61
8H	4H	18.06	18.81	18.78	19.56	20.44	22.56	23.31	23.28	24.06	24.94
	6H	18.67	19.31	19.42	20.09	20.98	24.55	25.20	25.31	25.98	26.87
	8H	18.86	19.44	19.63	20.23	21.13	25.67	26.25	26.44	27.04	27.94
	12H	18.98	19.49	19.74	20.27	21.23	26.95	27.47	27.72	28.25	29.20
12H	4H	18.42	19.11	19.17	19.88	20.77	22.55	23.24	23.30	24.01	24.90
	6H	19.20	19.78	19.97	20.57	21.47	24.58	25.16	25.35	25.95	26.85
	8H	19.53	20.05	20.30	20.83	21.78	25.76	26.28	26.53	27.06	28.02