

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: P895228

Luminaire Tested: 8TMB-8SL-FLTU-UNV-L950

Issue Date: 11/11/2024

**Test Information**

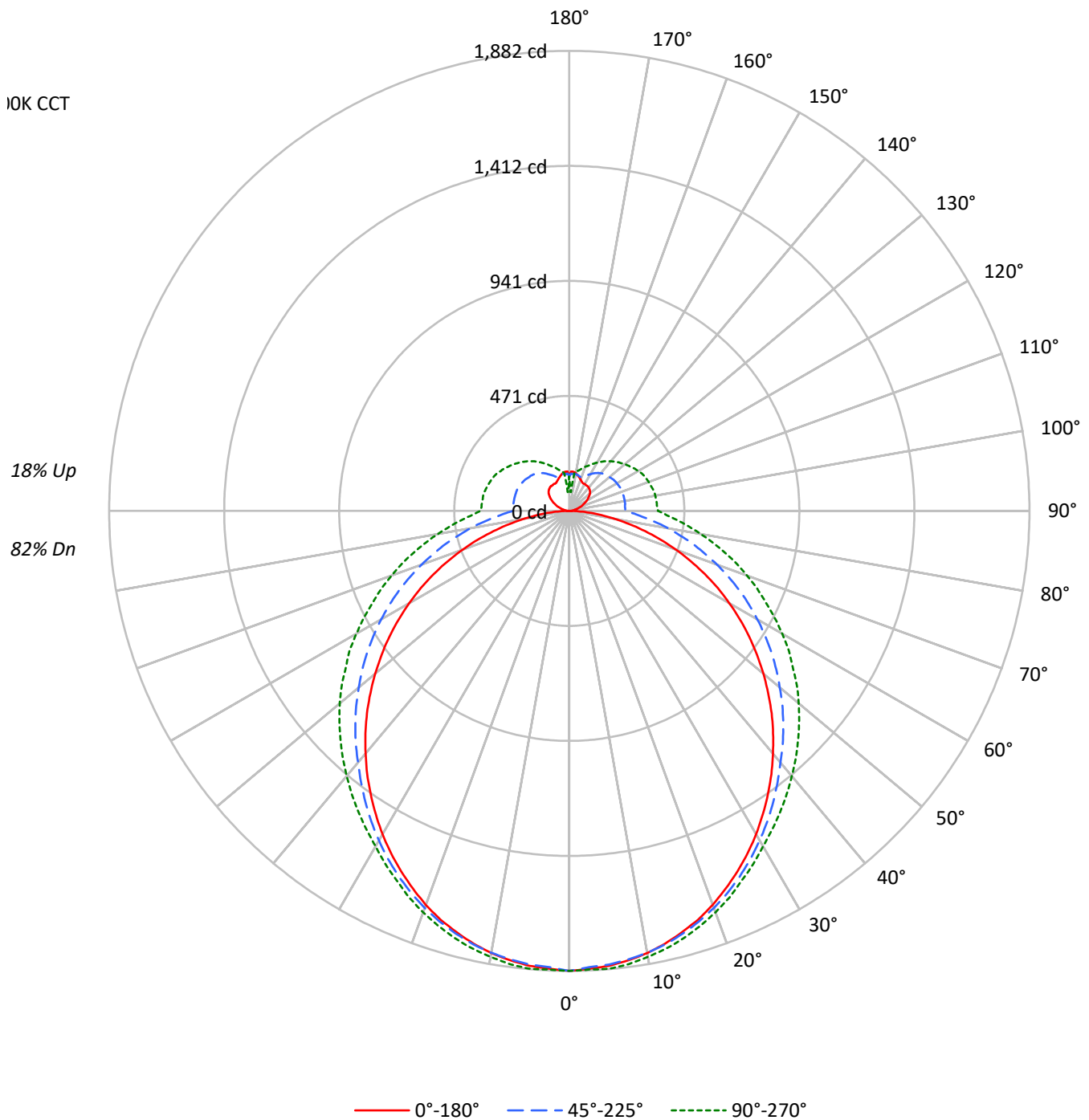
Test Method: LM-79-2019  
Report Number: P895228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-FLTU-UNV-L950  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 500  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7114.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 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): 59.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P895228  
CATALOG NUMBER: 8TMB-8SL-FLTU-UNV-L950

### Luminous Intensity Polar Plot





TEST NUMBER: P895228

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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
RCR																				
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	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	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6677	6677	6677
5°	6638	6408	6390
10°	6589	6171	6087
15°	6507	5933	5796
20°	6415	5687	5502
25°	6295	5431	5203
30°	6166	5168	4932
35°	6024	4904	4707
40°	5873	4643	4493
45°	5723	4416	4290
50°	5548	4181	4092
55°	5360	3950	3870
60°	5133	3702	3660
65°	4864	3440	3423
70°	4508	3152	3202
75°	4015	2857	2963
80°	3364	2541	2719
85°	2533	2220	2495

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5723 cd/sqm



TEST NUMBER: P895228  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	2.5
10°-20°	507.6	7.1
20°-30°	762.5	10.7
30°-40°	915.6	12.9
40°-50°	962.8	13.5
50°-60°	904.6	12.7
60°-70°	752.2	10.6
70°-80°	536.8	7.5
80°-90°	319.5	4.5
90°-100°	231.3	3.3
100°-110°	228.2	3.2
110°-120°	214.4	3.0
120°-130°	189.9	2.7
130°-140°	157.4	2.2
140°-150°	117.8	1.7
150°-160°	77.5	1.1
160°-170°	43.9	0.6
170°-180°	14.0	0.2
0°-30°	1448.0	20.4
0°-40°	2363.7	33.2
0°-60°	4231.1	59.5
0°-90°	5839.5	82.1
90°-120°	673.9	9.5
90°-150°	1139.0	16.0
90°-180°	1274.0	17.9
0°-180°	7114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1868	1890	1863	1868	1880	177
15°	1784	1811	1791	1803	1810	503
25°	1627	1658	1650	1665	1669	750
35°	1416	1449	1454	1490	1504	886
45°	1170	1203	1237	1301	1323	902
55°	899	935	1009	1091	1115	803
65°	612	662	766	863	887	605
75°	321	394	524	626	658	341
85°	81	177	308	411	445	88
90°	0	101	229	328	363	6
95°	9	106	229	325	359	10
105°	33	119	230	321	352	35
115°	64	129	229	308	338	64
125°	96	138	222	289	311	86
135°	119	144	210	263	282	91
145°	126	141	189	234	248	79
155°	127	143	160	198	210	59
165°	146	155	150	151	175	41
175°	162	160	151	129	77	15
180°	141	141	141	141	141	



TEST NUMBER: P895228  
 CATALOG NUMBER: 8TMB-8SL-FLTU-UNV-L950

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1874.9	1880.1	1881.8	1899.0	1892.1	1899.0	1886.9	1873.2	1869.7	1878.3	1868.0
5°	1868.0	1873.2	1874.9	1892.1	1885.2	1890.4	1880.1	1866.3	1862.9	1873.2	1862.9
7.5°	1854.3	1859.4	1861.2	1880.1	1871.5	1878.3	1866.3	1852.6	1850.8	1861.2	1850.8
10°	1837.1	1842.2	1844.0	1861.2	1854.3	1861.2	1849.1	1835.4	1833.7	1845.7	1835.4
12.5°	1813.0	1818.2	1821.6	1838.8	1830.2	1838.8	1825.1	1811.3	1813.0	1823.3	1816.5
15°	1783.8	1790.7	1792.4	1809.6	1802.7	1811.3	1797.6	1783.8	1787.3	1797.6	1790.7
17.5°	1752.9	1759.8	1761.5	1776.9	1770.1	1780.4	1764.9	1752.9	1756.3	1766.6	1761.5
20°	1715.1	1722.0	1725.4	1740.9	1734.0	1744.3	1728.8	1718.5	1722.0	1734.0	1728.8
22.5°	1672.1	1682.4	1684.1	1701.3	1692.7	1703.0	1687.6	1679.0	1684.1	1696.2	1691.0
25°	1627.4	1637.7	1639.5	1656.6	1649.8	1658.4	1642.9	1634.3	1641.2	1653.2	1649.8
27.5°	1579.3	1589.6	1593.1	1608.5	1601.7	1612.0	1594.8	1589.6	1596.5	1608.5	1605.1
30°	1527.8	1538.1	1539.8	1555.3	1550.1	1560.4	1544.9	1538.1	1548.4	1560.4	1557.0
32.5°	1472.8	1483.1	1488.2	1502.0	1496.8	1505.4	1491.7	1488.2	1496.8	1508.9	1507.1
35°	1416.1	1426.4	1431.5	1447.0	1440.1	1448.7	1435.0	1431.5	1445.3	1453.9	1453.9
37.5°	1357.6	1367.9	1373.1	1388.6	1380.0	1390.3	1376.5	1374.8	1390.3	1398.9	1398.9
40°	1295.8	1307.8	1312.9	1326.7	1319.8	1328.4	1316.4	1318.1	1331.8	1342.2	1343.9
42.5°	1233.9	1245.9	1251.1	1266.5	1258.0	1266.5	1256.2	1258.0	1273.4	1283.7	1292.3
45°	1170.3	1180.6	1185.8	1203.0	1192.6	1203.0	1192.6	1196.1	1211.6	1227.0	1237.3
47.5°	1103.3	1113.6	1122.2	1135.9	1127.3	1135.9	1129.1	1134.2	1153.1	1168.6	1182.3
50°	1036.3	1046.6	1055.2	1067.2	1058.6	1070.6	1062.0	1068.9	1093.0	1108.4	1123.9
52.5°	967.5	976.1	989.9	996.7	989.9	1003.6	996.7	1007.0	1031.1	1050.0	1067.2
55°	898.8	907.4	921.1	926.3	919.4	934.9	929.7	943.5	969.2	989.9	1008.8
57.5°	828.3	836.9	848.9	854.1	848.9	866.1	864.4	879.9	905.7	928.0	948.6
60°	756.1	764.7	775.1	780.2	780.2	797.4	797.4	816.3	843.8	864.4	888.5
62.5°	685.7	690.8	701.2	708.0	713.2	730.4	730.4	751.0	780.2	804.3	828.3
65°	611.8	616.9	625.5	634.1	642.7	661.6	663.3	685.7	714.9	739.0	766.5
67.5°	537.9	543.1	551.6	562.0	574.0	592.9	596.3	620.4	651.3	678.8	704.6
70°	465.7	467.4	477.7	491.5	505.2	524.1	529.3	555.1	587.7	615.2	642.7
72.5°	393.5	395.3	405.6	422.8	438.2	458.8	465.7	493.2	525.9	553.4	580.9
75°	321.4	323.1	336.8	357.5	374.6	393.5	402.1	431.3	464.0	493.2	524.1
77.5°	252.6	256.1	269.8	290.4	311.1	333.4	342.0	371.2	407.3	434.8	464.0
80°	189.0	192.5	207.9	230.3	252.6	273.2	283.6	312.8	350.6	378.1	410.7
82.5°	130.6	135.8	154.7	178.7	201.1	223.4	233.7	261.2	295.6	326.5	357.5
85°	80.8	87.6	106.5	132.3	156.4	177.0	187.3	216.5	249.2	278.4	307.6
87.5°	37.8	48.1	67.0	92.8	118.6	135.8	147.8	177.0	207.9	237.2	266.4
90°	0.0	15.5	34.4	60.1	85.9	101.4	115.1	142.6	173.6	201.1	228.6
92.5°	3.4	17.2	37.8	61.9	87.6	103.1	116.9	144.4	173.6	201.1	228.6
95°	8.6	18.9	39.5	65.3	91.1	106.5	118.6	146.1	175.3	202.8	228.6
97.5°	15.5	24.1	44.7	68.7	94.5	108.3	122.0	149.5	177.0	204.5	230.3
100°	20.6	27.5	48.1	72.2	98.0	111.7	125.5	151.2	178.7	206.2	230.3
102.5°	25.8	34.4	53.3	75.6	101.4	115.1	127.2	152.9	180.4	206.2	230.3
105°	32.7	39.5	56.7	80.8	104.8	118.6	130.6	156.4	182.2	207.9	230.3
107.5°	39.5	44.7	61.9	84.2	108.3	120.3	132.3	158.1	183.9	207.9	230.3
110°	48.1	51.6	67.0	87.6	110.0	123.7	135.8	159.8	183.9	207.9	230.3



TEST NUMBER: P895228  
 CATALOG NUMBER: 8TMB-8SL-FLTU-UNV-L950

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	56.7	56.7	72.2	91.1	113.4	125.5	137.5	161.5	185.6	207.9	230.3
115°	63.6	65.3	77.3	94.5	116.9	128.9	139.2	161.5	185.6	207.9	228.6
117.5°	72.2	72.2	84.2	98.0	118.6	130.6	142.6	163.3	185.6	206.2	226.8
120°	80.8	79.1	89.4	103.1	122.0	132.3	144.4	165.0	185.6	206.2	225.1
122.5°	89.4	85.9	92.8	106.5	123.7	135.8	144.4	165.0	185.6	204.5	223.4
125°	96.2	92.8	98.0	111.7	127.2	137.5	146.1	165.0	185.6	202.8	221.7
127.5°	103.1	99.7	104.8	115.1	128.9	137.5	147.8	165.0	185.6	201.1	218.3
130°	110.0	104.8	111.7	118.6	132.3	139.2	147.8	165.0	183.9	199.3	214.8
132.5°	115.1	110.0	116.9	122.0	134.0	140.9	149.5	165.0	182.2	197.6	213.1
135°	118.6	113.4	122.0	125.5	137.5	144.4	151.2	165.0	180.4	195.9	209.7
137.5°	122.0	115.1	125.5	128.9	139.2	146.1	151.2	163.3	178.7	192.5	206.2
140°	123.7	118.6	128.9	132.3	137.5	144.4	151.2	161.5	175.3	189.0	201.1
142.5°	125.5	118.6	130.6	134.0	137.5	142.6	149.5	158.1	171.9	183.9	195.9
145°	125.5	120.3	130.6	134.0	137.5	140.9	146.1	156.4	166.7	177.0	189.0
147.5°	125.5	122.0	132.3	135.8	139.2	139.2	142.6	152.9	161.5	171.9	182.2
150°	127.2	122.0	132.3	135.8	140.9	140.9	142.6	147.8	158.1	165.0	173.6
152.5°	125.5	123.7	130.6	137.5	140.9	142.6	142.6	144.4	152.9	159.8	166.7
155°	127.2	127.2	132.3	140.9	142.6	142.6	144.4	142.6	146.1	152.9	159.8
157.5°	130.6	134.0	134.0	142.6	146.1	146.1	147.8	146.1	144.4	146.1	152.9
160°	135.8	139.2	139.2	144.4	149.5	149.5	151.2	149.5	147.8	146.1	146.1
162.5°	140.9	144.4	144.4	146.1	151.2	152.9	154.7	152.9	151.2	147.8	146.1
165°	146.1	149.5	149.5	149.5	152.9	154.7	156.4	154.7	154.7	151.2	149.5
167.5°	151.2	154.7	154.7	152.9	154.7	156.4	158.1	156.4	156.4	154.7	151.2
170°	156.4	159.8	159.8	156.4	158.1	158.1	159.8	158.1	158.1	154.7	152.9
172.5°	159.8	163.3	161.5	159.8	159.8	159.8	159.8	158.1	156.4	152.9	152.9
175°	161.5	165.0	165.0	161.5	159.8	159.8	161.5	158.1	156.4	154.7	151.2
177.5°	161.5	165.0	165.0	161.5	161.5	159.8	161.5	159.8	159.8	156.4	152.9
180°	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1874.9	1873.2	1862.9	1874.9	1874.9	1871.5	1885.2	1883.5	1881.8	1878.3
5°	1868.0	1866.3	1856.0	1868.0	1868.0	1866.3	1880.1	1881.8	1883.5	1880.1
7.5°	1857.7	1856.0	1845.7	1857.7	1857.7	1856.0	1871.5	1873.2	1874.9	1869.7
10°	1842.2	1840.5	1830.2	1842.2	1844.0	1842.2	1854.3	1856.0	1859.4	1852.6
12.5°	1821.6	1821.6	1811.3	1823.3	1825.1	1823.3	1835.4	1838.8	1842.2	1833.7
15°	1795.8	1797.6	1789.0	1801.0	1802.7	1802.7	1814.8	1816.5	1821.6	1809.6
17.5°	1764.9	1768.4	1761.5	1773.5	1775.2	1776.9	1783.8	1789.0	1794.1	1780.4
20°	1732.3	1734.0	1728.8	1739.1	1742.6	1740.9	1749.4	1756.3	1761.5	1747.7
22.5°	1692.7	1694.5	1689.3	1699.6	1703.0	1704.8	1711.6	1720.2	1723.7	1711.6
25°	1648.1	1654.9	1651.5	1661.8	1665.2	1665.2	1672.1	1680.7	1685.9	1668.7
27.5°	1605.1	1613.7	1610.2	1620.6	1624.0	1625.7	1629.2	1639.5	1644.6	1629.2
30°	1557.0	1567.3	1565.6	1575.9	1579.3	1577.6	1584.5	1594.8	1601.7	1584.5
32.5°	1503.7	1517.4	1515.7	1529.5	1532.9	1534.6	1539.8	1553.5	1560.4	1544.9
35°	1452.1	1467.6	1469.3	1484.8	1490.0	1491.7	1498.5	1512.3	1519.2	1503.7
37.5°	1398.9	1419.5	1424.6	1440.1	1445.3	1447.0	1453.9	1469.3	1476.2	1460.7
40°	1347.3	1371.4	1378.2	1392.0	1397.2	1402.3	1407.5	1422.9	1431.5	1416.1
42.5°	1295.8	1321.5	1330.1	1343.9	1349.0	1354.2	1361.1	1378.2	1385.1	1371.4
45°	1242.5	1270.0	1280.3	1294.0	1300.9	1306.1	1312.9	1328.4	1337.0	1323.3
47.5°	1189.2	1216.7	1227.0	1242.5	1249.4	1256.2	1261.4	1280.3	1288.9	1275.1
50°	1132.5	1163.4	1175.5	1189.2	1199.5	1204.7	1211.6	1228.7	1237.3	1225.3
52.5°	1075.8	1108.4	1122.2	1135.9	1146.2	1154.8	1158.3	1177.2	1185.8	1173.7
55°	1017.4	1050.0	1065.5	1080.9	1091.3	1101.6	1105.0	1123.9	1132.5	1115.3
57.5°	958.9	993.3	1008.8	1026.0	1034.5	1046.6	1051.7	1068.9	1077.5	1065.5
60°	900.5	933.2	952.1	967.5	979.6	989.9	993.3	1012.2	1020.8	1005.3
62.5°	840.4	874.7	893.6	910.8	921.1	933.2	938.3	955.5	962.4	946.9
65°	778.5	812.9	833.5	848.9	862.7	873.0	876.4	895.3	902.2	886.8
67.5°	716.6	751.0	773.3	790.5	802.5	814.6	818.0	836.9	843.8	831.8
70°	656.5	690.8	713.2	733.8	742.4	754.4	759.6	776.8	783.6	773.3
72.5°	596.3	630.7	654.8	675.4	684.0	696.0	702.9	716.6	726.9	718.3
75°	537.9	572.3	596.3	616.9	625.5	637.6	644.4	658.2	665.1	658.2
77.5°	481.2	515.6	537.9	558.5	568.8	579.1	586.0	599.8	608.4	601.5
80°	426.2	460.6	482.9	501.8	512.1	522.4	529.3	544.8	551.6	546.5
82.5°	374.6	407.3	431.3	450.3	460.6	470.9	477.7	491.5	500.1	493.2
85°	328.2	360.9	383.2	402.1	410.7	421.0	427.9	441.7	448.5	445.1
87.5°	283.6	312.8	338.5	357.5	366.0	376.4	384.9	395.3	403.9	398.7
90°	249.2	275.0	299.0	317.9	328.2	338.5	348.9	359.2	366.0	362.6
92.5°	250.9	275.0	297.3	314.5	324.8	335.1	345.4	357.5	362.6	359.2
95°	250.9	275.0	297.3	314.5	324.8	335.1	345.4	357.5	362.6	359.2
97.5°	250.9	275.0	297.3	314.5	324.8	335.1	345.4	357.5	362.6	357.5
100°	250.9	275.0	297.3	314.5	324.8	333.4	343.7	355.7	360.9	357.5
102.5°	250.9	275.0	295.6	312.8	323.1	331.7	342.0	354.0	359.2	355.7
105°	250.9	273.2	295.6	311.1	321.4	330.0	340.3	350.6	355.7	352.3
107.5°	249.2	271.5	292.1	309.3	317.9	326.5	336.8	347.1	352.3	348.9
110°	249.2	269.8	290.4	305.9	314.5	323.1	333.4	343.7	348.9	345.4





TEST NUMBER: P895228  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	247.5	268.1	288.7	302.5	311.1	319.6	328.2	340.3	345.4	342.0
115°	245.7	266.4	285.3	299.0	307.6	314.5	324.8	336.8	340.3	338.5
117.5°	244.0	262.9	281.8	295.6	304.2	311.1	319.6	330.0	335.1	333.4
120°	242.3	259.5	278.4	290.4	299.0	305.9	312.8	323.1	328.2	324.8
122.5°	238.9	256.1	275.0	287.0	293.9	300.7	307.6	316.2	321.4	319.6
125°	235.4	252.6	269.8	281.8	288.7	293.9	300.7	309.3	312.8	311.1
127.5°	232.0	249.2	264.7	275.0	283.6	288.7	293.9	302.5	305.9	304.2
130°	228.6	244.0	259.5	269.8	276.7	281.8	287.0	295.6	297.3	297.3
132.5°	225.1	238.9	254.3	264.7	271.5	275.0	280.1	287.0	290.4	288.7
135°	221.7	233.7	249.2	257.8	262.9	268.1	273.2	280.1	281.8	281.8
137.5°	216.5	228.6	242.3	250.9	256.1	259.5	264.7	271.5	273.2	273.2
140°	211.4	223.4	235.4	242.3	249.2	252.6	256.1	262.9	264.7	264.7
142.5°	206.2	216.5	228.6	235.4	242.3	244.0	249.2	254.3	256.1	256.1
145°	199.3	211.4	221.7	228.6	233.7	235.4	240.6	245.7	245.7	247.5
147.5°	190.8	201.1	214.8	220.0	225.1	226.8	232.0	235.4	237.2	237.2
150°	182.2	192.5	204.5	213.1	218.3	220.0	221.7	226.8	226.8	228.6
152.5°	173.6	182.2	194.2	202.8	209.7	211.4	213.1	216.5	216.5	218.3
155°	165.0	171.9	182.2	190.8	197.6	201.1	204.5	207.9	207.9	209.7
157.5°	158.1	165.0	173.6	180.4	185.6	190.8	195.9	199.3	199.3	199.3
160°	149.5	154.7	163.3	168.4	175.3	178.7	187.3	190.8	190.8	192.5
162.5°	144.4	146.1	151.2	156.4	161.5	165.0	173.6	182.2	182.2	183.9
165°	146.1	144.4	146.1	147.8	151.2	152.9	158.1	170.1	173.6	175.3
167.5°	149.5	144.4	144.4	144.4	147.8	147.8	152.9	159.8	171.9	168.4
170°	149.5	144.4	140.9	140.9	142.6	140.9	144.4	149.5	156.4	163.3
172.5°	151.2	146.1	140.9	134.0	135.8	134.0	130.6	130.6	132.3	154.7
175°	149.5	146.1	139.2	130.6	128.9	123.7	113.4	104.8	99.7	77.3
177.5°	147.8	142.6	137.5	130.6	127.2	122.0	110.0	96.2	82.5	79.1
180°	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9	140.9



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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	14.30	15.62	14.92	16.26	16.98	16.93	18.25	17.55	18.89	19.61
	3H	15.71	16.91	16.34	17.55	18.31	19.40	20.60	20.02	21.24	21.99
	4H	16.14	17.27	16.78	17.93	18.70	20.56	21.70	21.21	22.36	23.12
	6H	16.37	17.43	17.03	18.09	18.88	21.74	22.80	22.40	23.47	24.25
	8H	16.41	17.43	17.09	18.11	18.90	22.33	23.35	23.01	24.03	24.82
	12H	16.42	17.39	17.10	18.07	18.89	22.97	23.94	23.65	24.62	25.44
4H	2H	15.21	16.34	15.86	17.00	17.77	17.28	18.42	17.93	19.07	19.84
	3H	16.83	17.80	17.49	18.49	19.28	19.94	20.91	20.60	21.60	22.39
	4H	17.38	18.27	18.06	18.97	19.78	21.26	22.14	21.94	22.84	23.66
	6H	17.72	18.50	18.42	19.22	20.05	22.61	23.39	23.31	24.11	24.94
	8H	17.80	18.53	18.50	19.25	20.09	23.30	24.03	24.00	24.75	25.59
	12H	17.83	18.49	18.55	19.23	20.08	24.05	24.71	24.77	25.46	26.30
8H	4H	18.05	18.78	18.75	19.50	20.34	21.41	22.14	22.11	22.86	23.70
	6H	18.55	19.17	19.28	19.93	20.77	22.90	23.52	23.63	24.28	25.12
	8H	18.71	19.26	19.45	20.02	20.88	23.71	24.26	24.45	25.03	25.88
	12H	18.79	19.29	19.54	20.04	20.96	24.62	25.11	25.37	25.87	26.78
12H	4H	18.22	18.88	18.94	19.62	20.47	21.39	22.06	22.12	22.80	23.65
	6H	18.82	19.37	19.56	20.13	20.99	22.92	23.47	23.66	24.23	25.09
	8H	19.05	19.54	19.80	20.30	21.21	23.78	24.27	24.52	25.02	25.94