

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: P895270

Luminaire Tested: 8TMB-8SL-RNDU-UNV-L835

Issue Date: 11/11/2024

**Test Information**

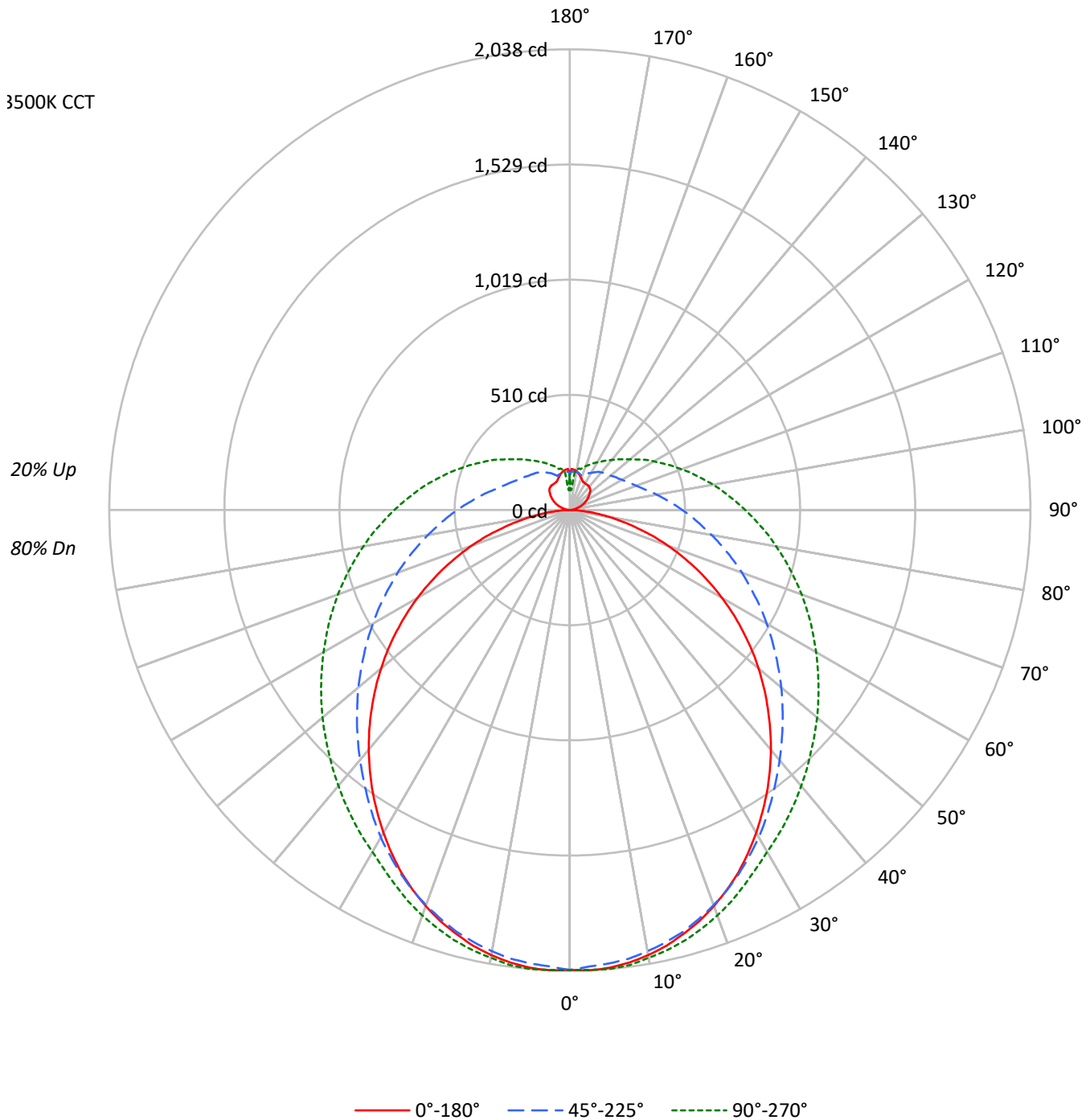
Test Method: LM-79-2019  
Report Number: P895270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-RNDU-UNV-L835  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8557.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 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<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

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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°	7218	7218	7218
5°	7223	6924	6928
10°	7171	6665	6608
15°	7082	6400	6312
20°	6972	6120	6008
25°	6836	5837	5704
30°	6656	5551	5434
35°	6472	5256	5236
40°	6273	4989	5055
45°	6058	4753	4895
50°	5834	4544	4771
55°	5576	4351	4662
60°	5283	4194	4581
65°	4925	4058	4535
70°	4478	3978	4520
75°	3869	3925	4540
80°	3136	3941	4612
85°	2185	4066	4763

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6058 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.5	2.2
10°-20°	548.8	6.4
20°-30°	824.0	9.6
30°-40°	990.9	11.6
40°-50°	1049.9	12.3
50°-60°	1011.0	11.8
60°-70°	894.8	10.5
70°-80°	733.9	8.6
80°-90°	569.5	6.7
90°-100°	442.0	5.2
100°-110°	350.2	4.1
110°-120°	279.0	3.3
120°-130°	221.6	2.6
130°-140°	173.1	2.0
140°-150°	127.4	1.5
150°-160°	84.2	1.0
160°-170°	48.5	0.6
170°-180°	15.6	0.2
0°-30°	1565.4	18.3
0°-40°	2556.3	29.9
0°-60°	4617.2	54.0
0°-90°	6815.4	79.6
90°-120°	1071.3	12.5
90°-150°	1593.3	18.6
90°-180°	1742.0	20.4
0°-180°	8557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2032	2034	2013	2029	2038	193
15°	1942	1944	1932	1961	1971	548
25°	1767	1773	1773	1818	1829	813
35°	1522	1541	1558	1640	1672	951
45°	1239	1268	1332	1458	1510	956
55°	935	981	1111	1276	1343	836
65°	619	705	904	1094	1175	613
75°	310	465	720	923	1008	331
85°	70	281	563	768	850	80
90°	2	221	498	697	776	5
95°	10	182	439	629	706	10
105°	35	147	346	515	583	37
115°	70	141	288	420	476	68
125°	101	147	252	346	389	90
135°	128	157	226	290	318	98
145°	136	155	205	250	265	85
155°	137	161	176	213	224	65
165°	163	172	166	166	188	46
175°	180	178	170	141	95	17
180°	157	157	157	157	157	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2038.3	2036.4	2040.2	2044.1	2055.7	2040.2	2048.0	2026.7	2028.6	2030.6	2020.9
5°	2032.5	2026.7	2032.5	2036.4	2046.1	2034.4	2042.2	2019.0	2020.9	2024.8	2013.1
7.5°	2019.0	2013.1	2017.0	2020.9	2030.6	2019.0	2028.6	2005.4	2009.3	2011.2	2001.5
10°	1999.6	1991.9	1995.7	2001.5	2009.3	1999.6	2007.3	1986.0	1988.0	1991.9	1982.2
12.5°	1974.4	1966.7	1970.6	1974.4	1984.1	1974.4	1982.2	1960.9	1964.8	1968.6	1958.9
15°	1941.5	1933.8	1937.7	1941.5	1949.3	1943.5	1951.2	1929.9	1933.8	1941.5	1931.8
17.5°	1906.7	1895.1	1898.9	1904.7	1912.5	1908.6	1914.4	1897.0	1898.9	1906.7	1897.0
20°	1864.1	1852.5	1856.4	1862.2	1869.9	1868.0	1871.8	1856.4	1860.2	1869.9	1860.2
22.5°	1817.6	1806.0	1809.9	1817.6	1823.4	1823.4	1825.4	1813.8	1817.6	1827.3	1819.6
25°	1767.3	1755.7	1759.6	1767.3	1773.1	1773.1	1777.0	1765.4	1771.2	1780.9	1773.1
27.5°	1709.2	1703.4	1703.4	1711.2	1715.0	1718.9	1720.9	1711.2	1718.9	1728.6	1722.8
30°	1649.2	1641.5	1645.4	1655.0	1655.0	1662.8	1662.8	1655.0	1664.7	1676.3	1672.5
32.5°	1585.4	1579.5	1581.5	1593.1	1593.1	1602.8	1600.8	1597.0	1606.6	1620.2	1616.3
35°	1521.5	1515.7	1517.6	1529.2	1529.2	1540.8	1537.0	1537.0	1546.6	1562.1	1558.3
37.5°	1453.7	1449.9	1451.8	1463.4	1463.4	1475.0	1471.1	1473.1	1484.7	1502.1	1500.2
40°	1384.0	1380.2	1384.0	1393.7	1397.6	1407.3	1403.4	1407.3	1422.8	1438.2	1444.0
42.5°	1312.4	1310.5	1314.4	1324.0	1327.9	1337.6	1335.6	1341.5	1356.9	1380.2	1387.9
45°	1238.9	1238.9	1242.7	1252.4	1256.3	1267.9	1266.0	1273.7	1293.1	1318.2	1331.8
47.5°	1165.3	1167.2	1169.2	1180.8	1180.8	1200.1	1194.3	1206.0	1231.1	1260.2	1275.6
50°	1089.8	1093.7	1095.6	1105.3	1109.2	1126.6	1122.7	1142.1	1169.2	1200.1	1221.4
52.5°	1014.3	1018.2	1022.1	1029.8	1033.7	1055.0	1051.1	1076.3	1109.2	1142.1	1165.3
55°	935.0	942.7	944.6	954.3	960.1	981.4	981.4	1010.4	1045.3	1082.1	1111.1
57.5°	857.5	865.3	867.2	878.8	886.6	911.7	915.6	948.5	987.2	1024.0	1058.8
60°	778.2	787.8	789.8	801.4	814.9	842.0	847.8	884.6	927.2	965.9	1006.6
62.5°	698.8	708.5	712.3	724.0	745.3	772.4	782.0	824.6	869.1	911.7	956.2
65°	619.4	629.1	634.9	650.4	675.6	704.6	718.2	762.7	813.0	857.5	904.0
67.5°	540.1	551.7	559.4	578.8	611.7	642.7	656.2	706.5	758.8	807.2	855.6
70°	462.6	474.3	483.9	509.1	547.8	578.8	596.2	650.4	704.6	756.9	811.1
72.5°	387.1	398.8	412.3	443.3	485.9	520.7	540.1	596.2	656.2	708.5	764.6
75°	309.7	323.3	338.8	381.3	429.7	464.6	485.9	545.9	607.8	660.1	720.1
77.5°	240.0	253.6	276.8	319.4	373.6	412.3	435.5	499.4	563.3	615.6	677.5
80°	176.2	189.7	220.7	267.1	323.3	360.0	389.1	454.9	520.7	574.9	636.9
82.5°	120.0	133.6	170.3	220.7	280.7	317.5	344.6	414.2	480.1	536.2	598.1
85°	69.7	89.0	127.8	182.0	243.9	280.7	307.8	379.4	443.3	499.4	563.3
87.5°	31.0	54.2	96.8	151.0	212.9	247.8	276.8	342.6	410.4	466.5	530.4
90°	1.9	31.0	75.5	127.8	187.8	220.7	247.8	313.6	377.5	435.5	497.5
92.5°	3.9	21.3	61.9	110.3	166.5	199.4	226.5	288.4	348.4	408.4	468.4
95°	9.7	21.3	54.2	98.7	151.0	182.0	207.1	267.1	323.3	381.3	439.4
97.5°	15.5	23.2	52.3	92.9	139.4	168.4	191.6	247.8	303.9	356.2	414.2
100°	21.3	29.0	52.3	89.0	131.6	158.7	180.0	232.3	284.6	332.9	391.0
102.5°	27.1	34.8	56.1	89.0	127.8	151.0	172.3	220.7	269.1	313.6	367.8
105°	34.8	40.7	60.0	89.0	123.9	147.1	164.5	209.1	255.5	298.1	346.5
107.5°	42.6	46.5	63.9	91.0	123.9	143.2	160.7	201.3	243.9	282.6	329.1
110°	52.3	54.2	69.7	94.9	123.9	141.3	156.8	195.5	234.2	271.0	313.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	60.0	60.0	75.5	98.7	123.9	141.3	154.9	189.7	226.5	259.4	300.0
115°	69.7	69.7	81.3	102.6	125.8	141.3	154.9	187.8	220.7	249.7	288.4
117.5°	77.4	77.4	89.0	106.5	129.7	143.2	154.9	183.9	214.9	242.0	276.8
120°	85.2	85.2	92.9	110.3	131.6	145.2	154.9	182.0	209.1	236.2	267.1
122.5°	92.9	92.9	98.7	116.1	133.6	145.2	154.9	180.0	205.2	228.4	257.5
125°	100.7	100.7	104.5	120.0	137.4	147.1	156.8	180.0	203.3	222.6	251.6
127.5°	108.4	106.5	112.3	125.8	139.4	149.1	158.7	180.0	199.4	218.7	243.9
130°	114.2	112.3	120.0	129.7	143.2	151.0	158.7	178.1	197.4	214.9	236.2
132.5°	122.0	118.1	127.8	131.6	147.1	154.9	160.7	178.1	195.5	211.0	232.3
135°	127.8	123.9	133.6	137.4	149.1	156.8	162.6	178.1	193.6	209.1	226.5
137.5°	131.6	129.7	139.4	143.2	151.0	158.7	164.5	178.1	191.6	205.2	222.6
140°	133.6	131.6	139.4	147.1	151.0	158.7	162.6	176.2	189.7	201.3	216.8
142.5°	135.5	135.5	141.3	149.1	151.0	156.8	162.6	174.2	185.8	195.5	212.9
145°	135.5	135.5	141.3	151.0	152.9	154.9	158.7	170.3	180.0	189.7	205.2
147.5°	135.5	135.5	143.2	151.0	154.9	156.8	154.9	166.5	176.2	183.9	197.4
150°	135.5	135.5	143.2	151.0	156.8	158.7	156.8	162.6	170.3	178.1	189.7
152.5°	137.4	137.4	143.2	151.0	156.8	158.7	158.7	158.7	164.5	172.3	183.9
155°	137.4	139.4	143.2	154.9	158.7	160.7	160.7	160.7	158.7	166.5	176.2
157.5°	143.2	145.2	147.1	156.8	160.7	162.6	162.6	162.6	160.7	158.7	168.4
160°	149.1	151.0	152.9	160.7	164.5	166.5	166.5	166.5	162.6	160.7	160.7
162.5°	154.9	158.7	158.7	162.6	166.5	168.4	168.4	170.3	166.5	164.5	162.6
165°	162.6	164.5	164.5	166.5	170.3	172.3	170.3	172.3	170.3	168.4	166.5
167.5°	168.4	170.3	170.3	172.3	172.3	174.2	174.2	174.2	172.3	170.3	170.3
170°	174.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2	174.2	170.3	170.3
172.5°	178.1	180.0	180.0	178.1	178.1	178.1	178.1	176.2	172.3	170.3	170.3
175°	180.0	182.0	182.0	180.0	178.1	178.1	178.1	176.2	172.3	170.3	170.3
177.5°	182.0	183.9	182.0	182.0	178.1	178.1	178.1	178.1	174.2	172.3	170.3
180°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2032.5	2009.3	2024.8	2026.7	2034.4	2026.7	2032.5	2026.7	2042.2	2036.4
5°	2024.8	2003.5	2017.0	2019.0	2028.6	2019.0	2028.6	2024.8	2044.1	2038.3
7.5°	2011.2	1993.8	2005.4	2007.3	2019.0	2009.3	2019.0	2015.1	2038.3	2030.6
10°	1991.9	1978.3	1989.9	1991.9	2003.5	1993.8	2001.5	1997.7	2022.8	2011.2
12.5°	1970.6	1958.9	1968.6	1970.6	1984.1	1974.4	1984.1	1980.2	2005.4	1993.8
15°	1939.6	1933.8	1943.5	1947.3	1960.9	1953.1	1962.8	1958.9	1986.0	1970.6
17.5°	1908.6	1904.7	1914.4	1918.3	1933.8	1924.1	1933.8	1929.9	1957.0	1941.5
20°	1869.9	1868.0	1877.6	1883.5	1897.0	1887.3	1898.9	1895.1	1924.1	1908.6
22.5°	1829.3	1829.3	1837.0	1842.8	1856.4	1848.6	1860.2	1858.3	1887.3	1871.8
25°	1784.7	1786.7	1794.4	1802.2	1817.6	1811.8	1821.5	1821.5	1848.6	1829.3
27.5°	1734.4	1744.1	1749.9	1759.6	1773.1	1767.3	1777.0	1778.9	1806.0	1786.7
30°	1682.1	1695.7	1701.5	1713.1	1724.7	1724.7	1734.4	1738.3	1765.4	1746.0
32.5°	1627.9	1643.4	1651.2	1666.7	1682.1	1682.1	1695.7	1701.5	1728.6	1711.2
35°	1573.7	1595.0	1604.7	1624.1	1639.6	1641.5	1655.0	1662.8	1689.9	1672.5
37.5°	1521.5	1548.6	1558.3	1581.5	1595.0	1598.9	1614.4	1624.1	1649.2	1633.7
40°	1467.3	1500.2	1511.8	1537.0	1548.6	1556.3	1571.8	1583.4	1606.6	1593.1
42.5°	1415.0	1451.8	1463.4	1490.5	1504.1	1511.8	1527.3	1542.8	1566.0	1552.4
45°	1362.7	1403.4	1416.9	1446.0	1457.6	1469.2	1486.6	1500.2	1521.5	1509.9
47.5°	1312.4	1355.0	1368.6	1399.5	1413.1	1426.6	1442.1	1461.5	1480.8	1469.2
50°	1260.2	1304.7	1322.1	1355.0	1366.6	1382.1	1401.5	1418.9	1438.2	1428.6
52.5°	1209.8	1256.3	1273.7	1308.5	1322.1	1337.6	1356.9	1376.3	1393.7	1386.0
55°	1155.6	1206.0	1225.3	1262.1	1275.6	1291.1	1312.4	1333.7	1349.2	1343.4
57.5°	1105.3	1157.6	1176.9	1217.6	1229.2	1248.5	1269.8	1293.1	1306.6	1300.8
60°	1055.0	1107.2	1130.5	1171.1	1184.7	1204.0	1225.3	1250.5	1262.1	1258.2
62.5°	1004.6	1058.8	1084.0	1126.6	1138.2	1159.5	1184.7	1206.0	1217.6	1215.6
65°	958.2	1010.4	1039.5	1082.1	1093.7	1116.9	1140.1	1163.4	1175.0	1175.0
67.5°	909.8	965.9	995.0	1039.5	1049.2	1074.3	1099.5	1122.7	1132.4	1132.4
70°	865.3	919.5	952.4	996.9	1006.6	1029.8	1056.9	1082.1	1089.8	1091.7
72.5°	820.7	874.9	909.8	956.2	965.9	989.2	1014.3	1041.4	1047.2	1049.2
75°	778.2	832.4	867.2	913.7	923.3	946.6	973.7	998.8	1006.6	1008.5
77.5°	735.6	789.8	828.5	873.0	882.7	905.9	933.0	958.2	964.0	967.9
80°	696.9	749.1	785.9	834.3	844.0	867.2	892.4	917.5	921.4	927.2
82.5°	658.1	710.4	749.1	795.6	805.3	828.5	853.7	878.8	882.7	890.4
85°	621.4	673.6	712.3	756.9	768.5	789.8	816.9	840.1	844.0	849.8
87.5°	588.5	636.9	677.5	720.1	731.7	753.0	780.1	803.3	805.3	813.0
90°	553.6	602.0	642.7	685.2	696.9	716.2	743.3	766.5	770.4	776.2
92.5°	524.6	569.1	611.7	652.3	662.0	683.3	708.5	731.7	735.6	741.4
95°	493.6	538.1	580.7	619.4	629.1	650.4	673.6	696.9	700.7	706.5
97.5°	466.5	509.1	549.7	588.5	598.1	617.5	642.7	664.0	667.8	675.6
100°	441.3	482.0	524.6	559.4	569.1	588.5	611.7	633.0	636.9	644.6
102.5°	418.1	456.8	497.5	530.4	542.0	559.4	582.7	602.0	605.9	611.7
105°	396.8	433.6	472.3	503.3	514.9	532.3	553.6	573.0	576.8	582.7
107.5°	375.5	410.4	447.2	478.1	487.8	503.3	524.6	543.9	547.8	555.6
110°	356.2	391.0	425.9	454.9	466.5	478.1	499.4	516.8	520.7	526.5





TEST NUMBER: P895270  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	338.8	369.7	404.6	431.7	441.3	454.9	472.3	489.7	493.6	501.4
115°	323.3	352.3	387.1	412.3	420.1	431.7	451.0	466.5	470.4	476.2
117.5°	309.7	334.9	365.9	391.0	400.7	410.4	427.8	441.3	447.2	451.0
120°	298.1	321.3	348.4	371.7	383.3	391.0	406.5	420.1	425.9	429.7
122.5°	286.5	307.8	332.9	354.2	363.9	369.7	387.1	398.8	404.6	410.4
125°	276.8	296.2	319.4	336.8	346.5	352.3	367.8	379.4	385.2	389.1
127.5°	267.1	284.6	307.8	321.3	331.0	334.9	348.4	360.0	365.9	367.8
130°	257.5	274.9	294.2	307.8	315.5	321.3	332.9	340.7	346.5	348.4
132.5°	249.7	265.2	282.6	296.2	303.9	305.8	317.5	325.2	331.0	332.9
135°	243.9	255.5	272.9	284.6	290.4	294.2	303.9	309.7	315.5	317.5
137.5°	236.2	247.8	263.3	271.0	278.7	280.7	290.4	296.2	302.0	303.9
140°	230.4	240.0	253.6	261.3	269.1	269.1	276.8	282.6	288.4	288.4
142.5°	224.5	234.2	245.8	253.6	259.4	259.4	267.1	271.0	276.8	276.8
145°	216.8	226.5	238.1	243.9	249.7	249.7	255.5	259.4	265.2	265.2
147.5°	209.1	218.7	230.4	234.2	240.0	240.0	245.8	249.7	253.6	253.6
150°	199.4	207.1	220.7	226.5	232.3	232.3	236.2	240.0	243.9	243.9
152.5°	191.6	197.4	209.1	216.8	222.6	222.6	226.5	230.4	234.2	234.2
155°	182.0	187.8	197.4	207.1	212.9	214.9	218.7	220.7	224.5	224.5
157.5°	174.2	180.0	187.8	195.5	201.3	205.2	211.0	212.9	214.9	214.9
160°	164.5	168.4	176.2	183.9	189.7	193.6	203.3	205.2	207.1	207.1
162.5°	160.7	160.7	164.5	170.3	176.2	178.1	187.8	195.5	199.4	197.4
165°	162.6	160.7	160.7	162.6	166.5	168.4	174.2	185.8	189.7	187.8
167.5°	166.5	162.6	160.7	160.7	164.5	164.5	170.3	180.0	191.6	187.8
170°	166.5	160.7	156.8	156.8	158.7	158.7	162.6	168.4	180.0	182.0
172.5°	164.5	160.7	154.9	147.1	149.1	147.1	145.2	149.1	151.0	170.3
175°	166.5	160.7	154.9	145.2	141.3	135.5	125.8	118.1	116.1	94.9
177.5°	164.5	158.7	151.0	143.2	139.4	131.6	120.0	106.5	98.7	87.1
180°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8



TEST NUMBER: P895270  
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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	13.82	15.13	14.46	15.80	16.57	17.45	18.76	18.09	19.42	20.19
	3H	15.17	16.37	15.82	17.04	17.85	20.40	21.60	21.06	22.27	23.08
	4H	15.57	16.71	16.25	17.40	18.21	21.91	23.05	22.58	23.73	24.55
	6H	15.79	16.85	16.47	17.55	18.38	23.52	24.58	24.20	25.28	26.11
	8H	15.82	16.84	16.52	17.56	18.39	24.37	25.39	25.07	26.10	26.94
	12H	15.83	16.80	16.53	17.51	18.38	25.31	26.29	26.02	27.00	27.86
4H	2H	14.98	16.12	15.66	16.81	17.62	17.76	18.90	18.44	19.59	20.40
	3H	16.62	17.60	17.31	18.32	19.15	20.95	21.92	21.63	22.65	23.48
	4H	17.19	18.09	17.89	18.82	19.68	22.63	23.53	23.33	24.25	25.11
	6H	17.53	18.33	18.25	19.08	19.94	24.45	25.24	25.17	25.99	26.86
	8H	17.60	18.35	18.33	19.10	19.98	25.42	26.17	26.15	26.92	27.80
	12H	17.63	18.31	18.38	19.08	19.97	26.51	27.19	27.25	27.96	28.85
8H	4H	18.30	19.05	19.02	19.79	20.68	22.80	23.55	23.52	24.29	25.18
	6H	18.90	19.55	19.66	20.33	21.22	24.79	25.43	25.55	26.22	27.10
	8H	19.10	19.68	19.87	20.47	21.37	25.91	26.49	26.68	27.28	28.18
	12H	19.21	19.73	19.98	20.51	21.46	27.19	27.71	27.96	28.48	29.44
12H	4H	18.66	19.35	19.41	20.12	21.01	22.79	23.47	23.54	24.24	25.13
	6H	19.44	20.02	20.21	20.81	21.71	24.82	25.40	25.59	26.19	27.09
	8H	19.77	20.29	20.54	21.06	22.02	26.00	26.52	26.77	27.30	28.25