

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: P894555

Luminaire Tested: 8TMB-12SL-RNDU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894555
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-12SL-RNDU-UNV-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT
Light Source: -
Ballast/Driver: -

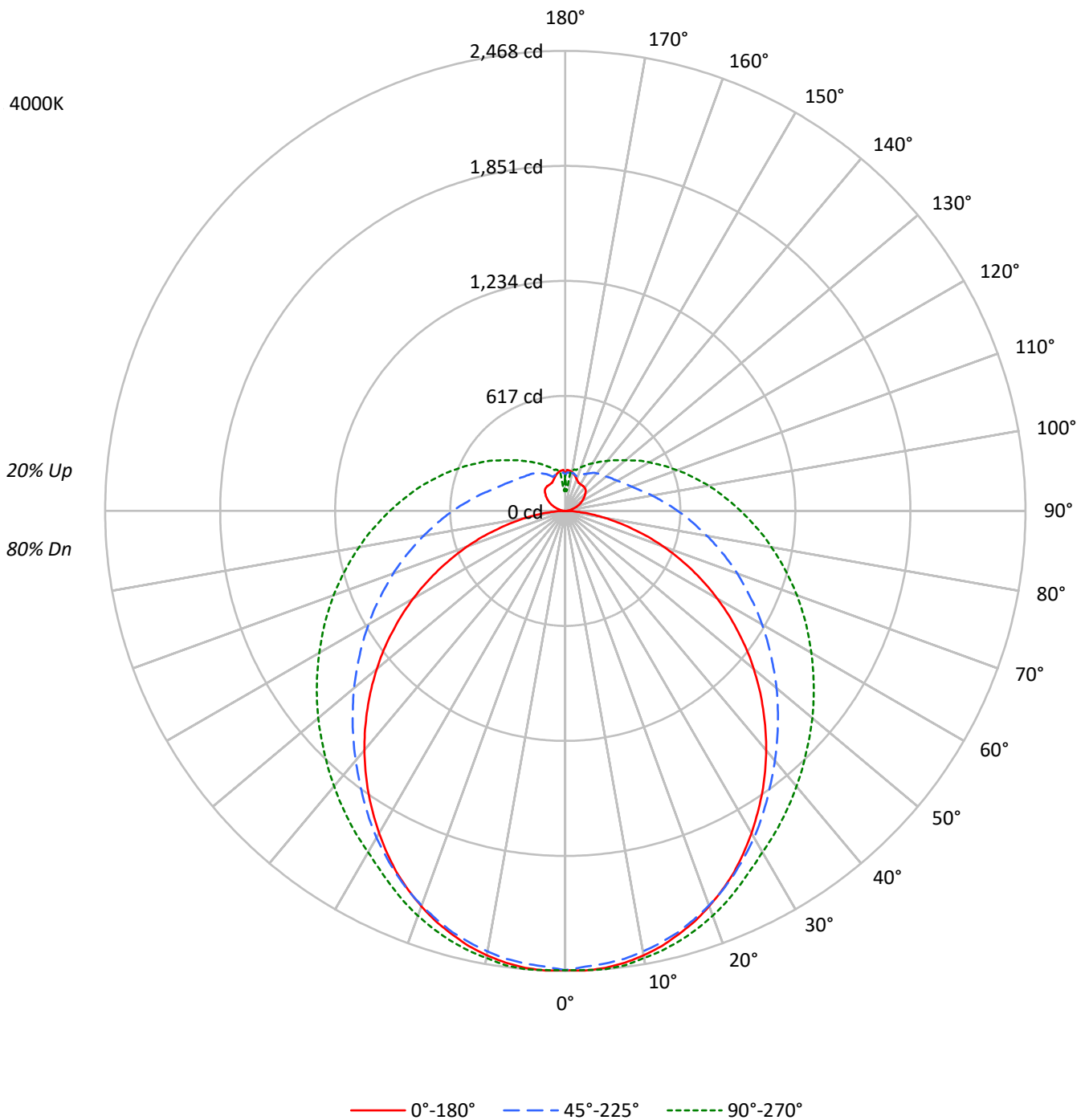
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10362.0 lumens
Efficiency: N/A
Efficacy: 116.7 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): 88.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
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°	8741	8741	8741
5°	8746	8385	8389
10°	8684	8070	8002
15°	8576	7750	7643
20°	8443	7411	7276
25°	8278	7068	6907
30°	8061	6722	6581
35°	7837	6364	6340
40°	7596	6042	6121
45°	7336	5756	5927
50°	7065	5503	5777
55°	6752	5269	5646
60°	6397	5079	5547
65°	5964	4914	5492
70°	5423	4817	5474
75°	4684	4753	5498
80°	3796	4772	5585
85°	2646	4924	5768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7336 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	2.2
10°-20°	664.6	6.4
20°-30°	997.9	9.6
30°-40°	1199.9	11.6
40°-50°	1271.3	12.3
50°-60°	1224.3	11.8
60°-70°	1083.5	10.5
70°-80°	888.8	8.6
80°-90°	689.6	6.7
90°-100°	535.2	5.2
100°-110°	424.1	4.1
110°-120°	337.9	3.3
120°-130°	268.4	2.6
130°-140°	209.6	2.0
140°-150°	154.2	1.5
150°-160°	102.0	1.0
160°-170°	58.7	0.6
170°-180°	18.9	0.2
0°-30°	1895.6	18.3
0°-40°	3095.5	29.9
0°-60°	5591.1	54.0
0°-90°	8253.0	79.6
90°-120°	1297.2	12.5
90°-150°	1929.4	18.6
90°-180°	2109.0	20.4
0°-180°	10362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2461	2464	2438	2456	2468	234
15°	2351	2353	2339	2374	2386	663
25°	2140	2147	2147	2201	2215	984
35°	1842	1866	1887	1985	2025	1152
45°	1500	1535	1613	1765	1828	1158
55°	1132	1188	1346	1545	1627	1013
65°	750	853	1095	1324	1423	742
75°	375	563	872	1118	1221	401
85°	84	340	682	931	1029	97
90°	2	267	602	844	940	6
95°	12	220	532	762	856	12
105°	42	178	420	624	706	45
115°	84	171	349	509	577	83
125°	122	178	305	420	471	109
135°	155	190	274	352	384	118
145°	164	188	248	302	321	103
155°	166	195	213	258	272	78
165°	197	209	202	202	227	55
175°	218	216	206	171	115	21
180°	190	190	190	190	190	



TEST NUMBER: P894555
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2468.3	2465.9	2470.6	2475.3	2489.4	2470.6	2480.0	2454.2	2456.5	2458.9	2447.2
5°	2461.2	2454.2	2461.2	2465.9	2477.6	2463.6	2473.0	2444.8	2447.2	2451.9	2437.8
7.5°	2444.8	2437.8	2442.5	2447.2	2458.9	2444.8	2456.5	2428.4	2433.1	2435.5	2423.7
10°	2421.4	2412.0	2416.7	2423.7	2433.1	2421.4	2430.8	2405.0	2407.3	2412.0	2400.3
12.5°	2390.9	2381.5	2386.2	2390.9	2402.6	2390.9	2400.3	2374.5	2379.2	2383.9	2372.2
15°	2351.1	2341.7	2346.4	2351.1	2360.4	2353.4	2362.8	2337.0	2341.7	2351.1	2339.3
17.5°	2308.9	2294.8	2299.5	2306.5	2315.9	2311.2	2318.3	2297.2	2299.5	2308.9	2297.2
20°	2257.3	2243.2	2247.9	2255.0	2264.3	2262.0	2266.7	2247.9	2252.6	2264.3	2252.6
22.5°	2201.0	2187.0	2191.7	2201.0	2208.1	2208.1	2210.4	2196.4	2201.0	2212.8	2203.4
25°	2140.1	2126.0	2130.7	2140.1	2147.1	2147.1	2151.8	2137.8	2144.8	2156.5	2147.1
27.5°	2069.8	2062.8	2062.8	2072.1	2076.8	2081.5	2083.8	2072.1	2081.5	2093.2	2086.2
30°	1997.1	1987.7	1992.4	2004.2	2004.2	2013.5	2013.5	2004.2	2015.9	2029.9	2025.2
32.5°	1919.8	1912.7	1915.1	1929.1	1929.1	1940.9	1938.5	1933.8	1945.5	1962.0	1957.3
35°	1842.4	1835.4	1837.7	1851.8	1851.8	1865.9	1861.2	1861.2	1872.9	1891.6	1886.9
37.5°	1760.4	1755.7	1758.0	1772.1	1772.1	1786.2	1781.5	1783.8	1797.9	1819.0	1816.6
40°	1676.0	1671.3	1676.0	1687.7	1692.4	1704.1	1699.4	1704.1	1722.9	1741.6	1748.7
42.5°	1589.3	1586.9	1591.6	1603.3	1608.0	1619.7	1617.4	1624.4	1643.2	1671.3	1680.7
45°	1500.2	1500.2	1504.9	1516.6	1521.3	1535.3	1533.0	1542.4	1565.8	1596.3	1612.7
47.5°	1411.1	1413.5	1415.8	1429.9	1429.9	1453.3	1446.3	1460.3	1490.8	1526.0	1544.7
50°	1319.7	1324.4	1326.7	1338.4	1343.1	1364.2	1359.5	1383.0	1415.8	1453.3	1479.1
52.5°	1228.3	1233.0	1237.7	1247.0	1251.7	1277.5	1272.8	1303.3	1343.1	1383.0	1411.1
55°	1132.2	1141.5	1143.9	1155.6	1162.6	1188.4	1188.4	1223.6	1265.8	1310.3	1345.5
57.5°	1038.4	1047.8	1050.1	1064.2	1073.6	1104.0	1108.7	1148.6	1195.5	1240.0	1282.2
60°	942.3	954.0	956.4	970.4	986.8	1019.7	1026.7	1071.2	1122.8	1169.7	1218.9
62.5°	846.2	857.9	862.6	876.7	902.5	935.3	947.0	998.6	1052.5	1104.0	1158.0
65°	750.1	761.8	768.8	787.6	818.1	853.2	869.6	923.6	984.5	1038.4	1094.7
67.5°	654.0	668.1	677.4	700.9	740.7	778.2	794.6	855.6	918.9	977.5	1036.1
70°	560.2	574.3	586.0	616.5	663.4	700.9	722.0	787.6	853.2	916.5	982.2
72.5°	468.8	482.9	499.3	536.8	588.4	630.5	654.0	722.0	794.6	857.9	925.9
75°	375.0	391.5	410.2	461.8	520.4	562.6	588.4	661.0	736.0	799.3	872.0
77.5°	290.7	307.1	335.2	386.8	452.4	499.3	527.4	604.8	682.1	745.4	820.4
80°	213.3	229.7	267.2	323.5	391.5	436.0	471.2	550.8	630.5	696.2	771.2
82.5°	145.3	161.7	206.3	267.2	339.9	384.4	417.2	501.6	581.3	649.3	724.3
85°	84.4	107.8	154.7	220.3	295.3	339.9	372.7	459.4	536.8	604.8	682.1
87.5°	37.5	65.6	117.2	182.8	257.8	300.0	335.2	414.9	496.9	564.9	642.3
90°	2.3	37.5	91.4	154.7	227.4	267.2	300.0	379.7	457.1	527.4	602.4
92.5°	4.7	25.8	75.0	133.6	201.6	241.4	274.3	349.3	421.9	494.6	567.3
95°	11.7	25.8	65.6	119.5	182.8	220.3	250.8	323.5	391.5	461.8	532.1
97.5°	18.8	28.1	63.3	112.5	168.8	203.9	232.1	300.0	368.0	431.3	501.6
100°	25.8	35.2	63.3	107.8	159.4	192.2	218.0	281.3	344.6	403.2	473.5
102.5°	32.8	42.2	68.0	107.8	154.7	182.8	208.6	267.2	325.8	379.7	445.4
105°	42.2	49.2	72.7	107.8	150.0	178.1	199.2	253.2	309.4	361.0	419.6
107.5°	51.6	56.3	77.4	110.2	150.0	173.5	194.6	243.8	295.3	342.2	398.5
110°	63.3	65.6	84.4	114.9	150.0	171.1	189.9	236.7	283.6	328.2	379.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	72.7	72.7	91.4	119.5	150.0	171.1	187.5	229.7	274.3	314.1	363.3
115°	84.4	84.4	98.4	124.2	152.4	171.1	187.5	227.4	267.2	302.4	349.3
117.5°	93.8	93.8	107.8	128.9	157.1	173.5	187.5	222.7	260.2	293.0	335.2
120°	103.1	103.1	112.5	133.6	159.4	175.8	187.5	220.3	253.2	286.0	323.5
122.5°	112.5	112.5	119.5	140.6	161.7	175.8	187.5	218.0	248.5	276.6	311.8
125°	121.9	121.9	126.6	145.3	166.4	178.1	189.9	218.0	246.1	269.6	304.7
127.5°	131.3	128.9	136.0	152.4	168.8	180.5	192.2	218.0	241.4	264.9	295.3
130°	138.3	136.0	145.3	157.1	173.5	182.8	192.2	215.7	239.1	260.2	286.0
132.5°	147.7	143.0	154.7	159.4	178.1	187.5	194.6	215.7	236.7	255.5	281.3
135°	154.7	150.0	161.7	166.4	180.5	189.9	196.9	215.7	234.4	253.2	274.3
137.5°	159.4	157.1	168.8	173.5	182.8	192.2	199.2	215.7	232.1	248.5	269.6
140°	161.7	159.4	168.8	178.1	182.8	192.2	196.9	213.3	229.7	243.8	262.5
142.5°	164.1	164.1	171.1	180.5	182.8	189.9	196.9	211.0	225.0	236.7	257.8
145°	164.1	164.1	171.1	182.8	185.2	187.5	192.2	206.3	218.0	229.7	248.5
147.5°	164.1	164.1	173.5	182.8	187.5	189.9	187.5	201.6	213.3	222.7	239.1
150°	164.1	164.1	173.5	182.8	189.9	192.2	189.9	196.9	206.3	215.7	229.7
152.5°	166.4	166.4	173.5	182.8	189.9	192.2	192.2	192.2	199.2	208.6	222.7
155°	166.4	168.8	173.5	187.5	192.2	194.6	194.6	194.6	192.2	201.6	213.3
157.5°	173.5	175.8	178.1	189.9	194.6	196.9	196.9	196.9	194.6	192.2	203.9
160°	180.5	182.8	185.2	194.6	199.2	201.6	201.6	201.6	196.9	194.6	194.6
162.5°	187.5	192.2	192.2	196.9	201.6	203.9	203.9	206.3	201.6	199.2	196.9
165°	196.9	199.2	199.2	201.6	206.3	208.6	206.3	208.6	206.3	203.9	201.6
167.5°	203.9	206.3	206.3	208.6	208.6	211.0	211.0	211.0	208.6	206.3	206.3
170°	211.0	213.3	213.3	213.3	213.3	213.3	213.3	213.3	211.0	206.3	206.3
172.5°	215.7	218.0	218.0	215.7	215.7	215.7	215.7	213.3	208.6	206.3	206.3
175°	218.0	220.3	220.3	218.0	215.7	215.7	215.7	213.3	208.6	206.3	206.3
177.5°	220.3	222.7	220.3	220.3	215.7	215.7	215.7	215.7	211.0	208.6	206.3
180°	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2461.2	2433.1	2451.9	2454.2	2463.6	2454.2	2461.2	2454.2	2473.0	2465.9
5°	2451.9	2426.1	2442.5	2444.8	2456.5	2444.8	2456.5	2451.9	2475.3	2468.3
7.5°	2435.5	2414.4	2428.4	2430.8	2444.8	2433.1	2444.8	2440.1	2468.3	2458.9
10°	2412.0	2395.6	2409.7	2412.0	2426.1	2414.4	2423.7	2419.0	2449.5	2435.5
12.5°	2386.2	2372.2	2383.9	2386.2	2402.6	2390.9	2402.6	2397.9	2428.4	2414.4
15°	2348.7	2341.7	2353.4	2358.1	2374.5	2365.1	2376.9	2372.2	2405.0	2386.2
17.5°	2311.2	2306.5	2318.3	2322.9	2341.7	2330.0	2341.7	2337.0	2369.8	2351.1
20°	2264.3	2262.0	2273.7	2280.7	2297.2	2285.4	2299.5	2294.8	2330.0	2311.2
22.5°	2215.1	2215.1	2224.5	2231.5	2247.9	2238.6	2252.6	2250.3	2285.4	2266.7
25°	2161.2	2163.5	2172.9	2182.3	2201.0	2194.0	2205.7	2205.7	2238.6	2215.1
27.5°	2100.3	2112.0	2119.0	2130.7	2147.1	2140.1	2151.8	2154.2	2187.0	2163.5
30°	2037.0	2053.4	2060.4	2074.5	2088.5	2088.5	2100.3	2104.9	2137.8	2114.3
32.5°	1971.3	1990.1	1999.5	2018.2	2037.0	2037.0	2053.4	2060.4	2093.2	2072.1
35°	1905.7	1931.5	1943.2	1966.6	1985.4	1987.7	2004.2	2013.5	2046.3	2025.2
37.5°	1842.4	1875.2	1886.9	1915.1	1931.5	1936.2	1954.9	1966.6	1997.1	1978.4
40°	1776.8	1816.6	1830.7	1861.2	1875.2	1884.6	1903.4	1917.4	1945.5	1929.1
42.5°	1713.5	1758.0	1772.1	1804.9	1821.3	1830.7	1849.4	1868.2	1896.3	1879.9
45°	1650.2	1699.4	1715.8	1751.0	1765.1	1779.1	1800.2	1816.6	1842.4	1828.3
47.5°	1589.3	1640.8	1657.2	1694.7	1711.1	1727.6	1746.3	1769.7	1793.2	1779.1
50°	1526.0	1579.9	1601.0	1640.8	1654.9	1673.6	1697.1	1718.2	1741.6	1729.9
52.5°	1465.0	1521.3	1542.4	1584.6	1601.0	1619.7	1643.2	1666.6	1687.7	1678.3
55°	1399.4	1460.3	1483.8	1528.3	1544.7	1563.5	1589.3	1615.0	1633.8	1626.8
57.5°	1338.4	1401.7	1425.2	1474.4	1488.5	1511.9	1537.7	1565.8	1582.2	1575.2
60°	1277.5	1340.8	1368.9	1418.1	1434.6	1458.0	1483.8	1514.2	1528.3	1523.6
62.5°	1216.6	1282.2	1312.7	1364.2	1378.3	1404.1	1434.6	1460.3	1474.4	1472.1
65°	1160.3	1223.6	1258.7	1310.3	1324.4	1352.5	1380.6	1408.8	1422.8	1422.8
67.5°	1101.7	1169.7	1204.8	1258.7	1270.5	1300.9	1331.4	1359.5	1371.3	1371.3
70°	1047.8	1113.4	1153.3	1207.2	1218.9	1247.0	1279.8	1310.3	1319.7	1322.0
72.5°	993.9	1059.5	1101.7	1158.0	1169.7	1197.8	1228.3	1261.1	1268.1	1270.5
75°	942.3	1007.9	1050.1	1106.4	1118.1	1146.2	1179.1	1209.5	1218.9	1221.2
77.5°	890.7	956.4	1003.2	1057.2	1068.9	1097.0	1129.8	1160.3	1167.3	1172.0
80°	843.9	907.1	951.7	1010.3	1022.0	1050.1	1080.6	1111.1	1115.8	1122.8
82.5°	797.0	860.3	907.1	963.4	975.1	1003.2	1033.7	1064.2	1068.9	1078.3
85°	752.4	815.7	862.6	916.5	930.6	956.4	989.2	1017.3	1022.0	1029.0
87.5°	712.6	771.2	820.4	872.0	886.0	911.8	944.6	972.8	975.1	984.5
90°	670.4	729.0	778.2	829.8	843.9	867.3	900.1	928.2	932.9	940.0
92.5°	635.2	689.1	740.7	789.9	801.7	827.4	857.9	886.0	890.7	897.8
95°	597.7	651.6	703.2	750.1	761.8	787.6	815.7	843.9	848.5	855.6
97.5°	564.9	616.5	665.7	712.6	724.3	747.7	778.2	804.0	808.7	818.1
100°	534.4	583.7	635.2	677.4	689.1	712.6	740.7	766.5	771.2	780.6
102.5°	506.3	553.2	602.4	642.3	656.3	677.4	705.6	729.0	733.7	740.7
105°	480.5	525.1	571.9	609.4	623.5	644.6	670.4	693.8	698.5	705.6
107.5°	454.7	496.9	541.5	579.0	590.7	609.4	635.2	658.7	663.4	672.7
110°	431.3	473.5	515.7	550.8	564.9	579.0	604.8	625.9	630.5	637.6



TEST NUMBER: P894555
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	410.2	447.7	489.9	522.7	534.4	550.8	571.9	593.0	597.7	607.1
115°	391.5	426.6	468.8	499.3	508.7	522.7	546.2	564.9	569.6	576.6
117.5°	375.0	405.5	443.0	473.5	485.2	496.9	518.0	534.4	541.5	546.2
120°	361.0	389.1	421.9	450.1	464.1	473.5	492.2	508.7	515.7	520.4
122.5°	346.9	372.7	403.2	429.0	440.7	447.7	468.8	482.9	489.9	496.9
125°	335.2	358.6	386.8	407.9	419.6	426.6	445.4	459.4	466.5	471.2
127.5°	323.5	344.6	372.7	389.1	400.8	405.5	421.9	436.0	443.0	445.4
130°	311.8	332.9	356.3	372.7	382.1	389.1	403.2	412.6	419.6	421.9
132.5°	302.4	321.1	342.2	358.6	368.0	370.4	384.4	393.8	400.8	403.2
135°	295.3	309.4	330.5	344.6	351.6	356.3	368.0	375.0	382.1	384.4
137.5°	286.0	300.0	318.8	328.2	337.5	339.9	351.6	358.6	365.7	368.0
140°	278.9	290.7	307.1	316.4	325.8	325.8	335.2	342.2	349.3	349.3
142.5°	271.9	283.6	297.7	307.1	314.1	314.1	323.5	328.2	335.2	335.2
145°	262.5	274.3	288.3	295.3	302.4	302.4	309.4	314.1	321.1	321.1
147.5°	253.2	264.9	278.9	283.6	290.7	290.7	297.7	302.4	307.1	307.1
150°	241.4	250.8	267.2	274.3	281.3	281.3	286.0	290.7	295.3	295.3
152.5°	232.1	239.1	253.2	262.5	269.6	269.6	274.3	278.9	283.6	283.6
155°	220.3	227.4	239.1	250.8	257.8	260.2	264.9	267.2	271.9	271.9
157.5°	211.0	218.0	227.4	236.7	243.8	248.5	255.5	257.8	260.2	260.2
160°	199.2	203.9	213.3	222.7	229.7	234.4	246.1	248.5	250.8	250.8
162.5°	194.6	194.6	199.2	206.3	213.3	215.7	227.4	236.7	241.4	239.1
165°	196.9	194.6	194.6	196.9	201.6	203.9	211.0	225.0	229.7	227.4
167.5°	201.6	196.9	194.6	194.6	199.2	199.2	206.3	218.0	232.1	227.4
170°	201.6	194.6	189.9	189.9	192.2	192.2	196.9	203.9	218.0	220.3
172.5°	199.2	194.6	187.5	178.1	180.5	178.1	175.8	180.5	182.8	206.3
175°	201.6	194.6	187.5	175.8	171.1	164.1	152.4	143.0	140.6	114.9
177.5°	199.2	192.2	182.8	173.5	168.8	159.4	145.3	128.9	119.5	105.5
180°	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9



TEST NUMBER: P894555
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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	14.49	15.80	15.13	16.46	17.23	18.11	19.42	18.75	20.09	20.86
	3H	15.84	17.03	16.49	17.71	18.51	21.07	22.26	21.72	22.94	23.74
	4H	16.24	17.38	16.91	18.06	18.88	22.57	23.71	23.25	24.40	25.21
	6H	16.45	17.52	17.14	18.21	19.04	24.18	25.25	24.87	25.94	26.77
	8H	16.49	17.51	17.18	18.22	19.06	25.03	26.05	25.73	26.77	27.60
	12H	16.49	17.47	17.19	18.18	19.04	25.98	26.95	26.68	27.67	28.53
4H	2H	15.65	16.78	16.32	17.47	18.29	18.43	19.57	19.10	20.25	21.07
	3H	17.29	18.26	17.97	18.99	19.82	21.61	22.59	22.30	23.31	24.14
	4H	17.85	18.76	18.56	19.48	20.34	23.29	24.19	23.99	24.92	25.78
	6H	18.20	18.99	18.92	19.74	20.61	25.11	25.91	25.83	26.66	27.53
	8H	18.27	19.02	18.99	19.77	20.65	26.08	26.84	26.81	27.58	28.47
	12H	18.29	18.98	19.04	19.75	20.64	27.17	27.86	27.92	28.63	29.51
8H	4H	18.96	19.71	19.69	20.46	21.34	23.46	24.21	24.19	24.96	25.84
	6H	19.57	20.21	20.32	21.00	21.88	25.46	26.10	26.21	26.88	27.77
	8H	19.77	20.34	20.53	21.13	22.03	26.58	27.15	27.34	27.94	28.84
	12H	19.88	20.40	20.65	21.17	22.13	27.85	28.37	28.62	29.15	30.11
12H	4H	19.33	20.01	20.07	20.78	21.67	23.45	24.14	24.20	24.91	25.80
	6H	20.11	20.68	20.87	21.47	22.37	25.49	26.07	26.25	26.85	27.75
	8H	20.43	20.95	21.20	21.73	22.69	26.67	27.18	27.44	27.96	28.92