

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: P894434

Luminaire Tested: 8TMB-10SL-RND-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-RND-UNV-L935
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

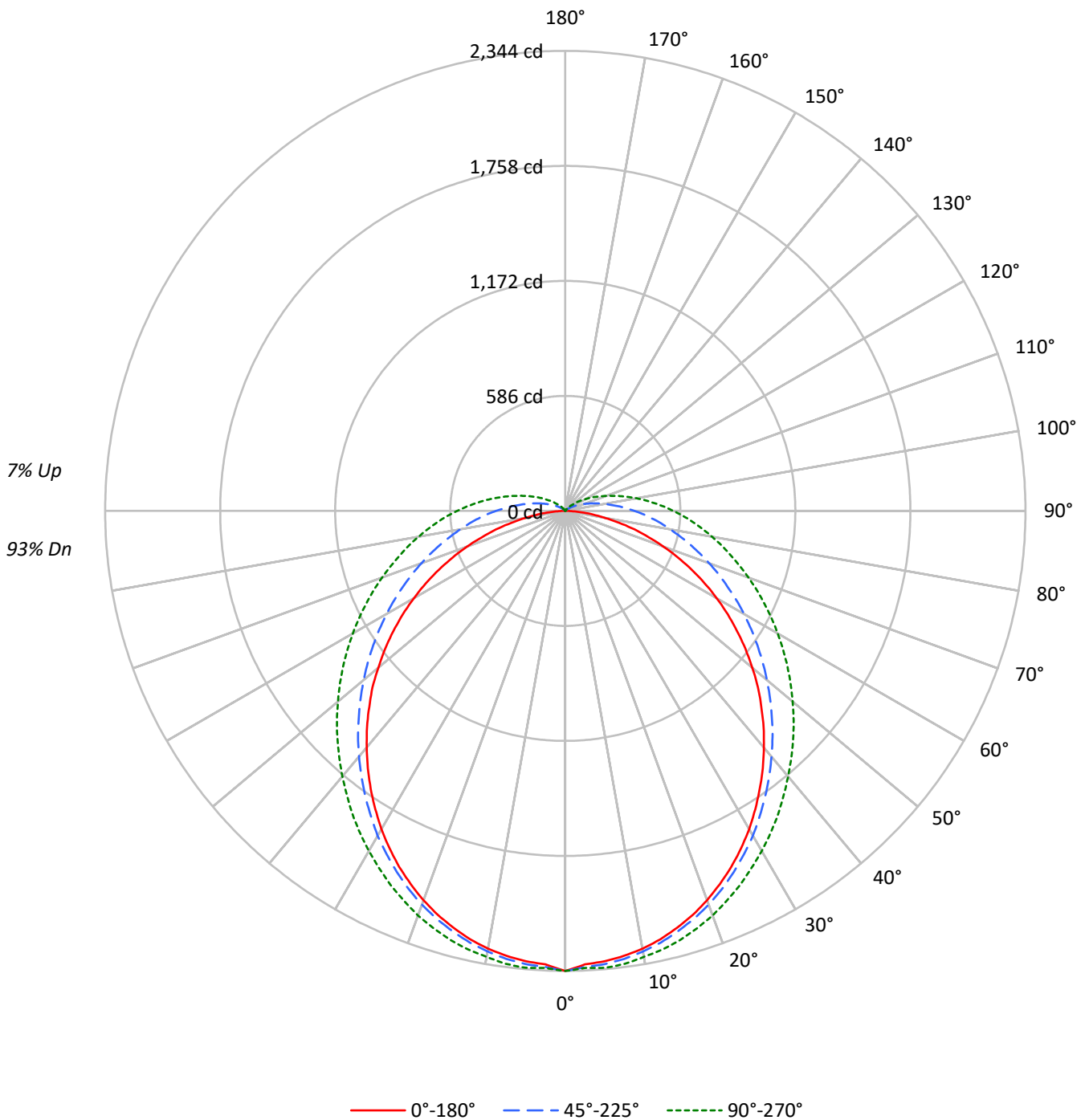
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7759.9 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: 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	50	30	10							
RCR																														
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	96	96								
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	76	74								
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	63	60								
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	53	50								
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	45	43								
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	39	37								
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	34	32								
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	30	28								
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	27	25								
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	24	23								
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	22	20								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8317	8317	8317
5°	8205	8257	8323
10°	8161	8214	8313
15°	8078	8146	8314
20°	7972	8061	8283
25°	7834	7949	8236
30°	7673	7830	8199
35°	7484	7691	8183
40°	7289	7570	8181
45°	7087	7464	8237
50°	6865	7401	8343
55°	6615	7387	8543
60°	6326	7458	8864
65°	5975	7653	9394
70°	5537	8087	10294
75°	5004	9001	11943
80°	4236	11093	15517
85°	3436	18071	26584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 48936 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	2.9
10°-20°	631.6	8.1
20°-30°	945.8	12.2
30°-40°	1127.7	14.5
40°-50°	1169.6	15.1
50°-60°	1085.1	14.0
60°-70°	905.2	11.7
70°-80°	674.9	8.7
80°-90°	449.4	5.8
90°-100°	273.6	3.5
100°-110°	152.7	2.0
110°-120°	76.3	1.0
120°-130°	31.9	0.4
130°-140°	10.0	0.1
140°-150°	2.5	0.0
150°-160°	1.1	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	1799.1	23.2
0°-40°	2926.8	37.7
0°-60°	5181.4	66.8
0°-90°	7210.8	92.9
90°-120°	502.6	6.5
90°-150°	547.0	7.0
90°-180°	549.0	7.1
0°-180°	7759.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2304	2357	2318	2331	2337	219
15°	2199	2256	2218	2258	2263	620
25°	2001	2054	2030	2087	2104	921
35°	1728	1774	1776	1864	1889	1081
45°	1412	1449	1488	1605	1642	1090
55°	1069	1106	1194	1334	1381	956
65°	712	768	912	1066	1119	704
75°	365	466	657	816	871	386
85°	84	231	444	596	653	95
90°	4	152	352	497	550	6
95°	0	94	272	407	455	0
105°	0	29	149	251	290	0
115°	2	7	70	141	169	2
125°	2	2	28	68	84	2
135°	2	2	7	24	31	1
145°	2	2	2	6	7	1
155°	4	4	2	2	2	2
165°	4	4	2	2	2	1
175°	4	4	4	2	0	0
180°	4	4	4	4	4	



TEST NUMBER: P894434

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1
2.5°	2312.9	2316.6	2349.6	2347.8	2342.3	2364.3	2369.8	2351.4	2322.1	2351.4	2325.8
5°	2303.7	2307.4	2340.4	2338.6	2333.1	2356.9	2358.8	2342.3	2312.9	2342.3	2318.4
7.5°	2287.2	2290.9	2323.9	2322.1	2318.4	2342.3	2340.4	2327.6	2296.4	2327.6	2301.9
10°	2265.2	2267.1	2301.9	2298.2	2296.4	2320.2	2314.7	2303.7	2272.6	2303.7	2279.9
12.5°	2235.9	2237.7	2272.6	2268.9	2268.9	2290.9	2283.6	2274.4	2243.2	2272.6	2252.4
15°	2199.2	2201.0	2234.0	2232.2	2232.2	2256.1	2245.0	2237.7	2208.4	2239.5	2217.5
17.5°	2158.8	2157.0	2191.9	2188.2	2191.9	2213.9	2199.2	2195.5	2168.0	2197.4	2179.0
20°	2111.2	2111.2	2142.3	2140.5	2146.0	2166.2	2147.8	2149.7	2122.2	2153.3	2135.0
22.5°	2058.0	2056.1	2087.3	2087.3	2092.8	2113.0	2092.8	2098.3	2070.8	2100.1	2085.5
25°	2001.1	1997.4	2028.6	2028.6	2037.8	2054.3	2032.3	2039.6	2013.9	2043.3	2030.4
27.5°	1938.7	1933.2	1964.4	1966.3	1973.6	1990.1	1966.3	1977.3	1953.4	1980.9	1971.8
30°	1872.7	1867.2	1898.4	1900.2	1909.4	1922.2	1898.4	1913.1	1891.0	1918.6	1911.2
32.5°	1801.2	1797.5	1826.9	1830.5	1839.7	1848.9	1826.9	1841.5	1823.2	1850.7	1843.4
35°	1727.8	1724.1	1751.7	1757.2	1766.3	1773.7	1749.8	1770.0	1753.5	1779.2	1775.5
37.5°	1652.6	1647.1	1676.4	1680.1	1691.1	1694.8	1672.8	1696.6	1682.0	1707.6	1705.8
40°	1573.7	1568.2	1597.6	1601.2	1612.3	1612.3	1593.9	1619.6	1608.6	1632.4	1634.3
42.5°	1494.9	1489.4	1515.0	1522.4	1531.5	1531.5	1513.2	1540.7	1533.4	1557.2	1562.7
45°	1412.3	1406.8	1430.7	1438.0	1449.0	1449.0	1430.7	1461.8	1456.3	1480.2	1487.5
47.5°	1331.6	1324.3	1346.3	1353.6	1364.6	1362.8	1348.1	1379.3	1377.5	1401.3	1414.2
50°	1243.6	1238.1	1260.1	1267.4	1280.3	1276.6	1265.6	1298.6	1298.6	1322.4	1340.8
52.5°	1157.4	1151.9	1173.9	1181.2	1192.2	1192.2	1181.2	1216.1	1221.6	1245.4	1267.4
55°	1069.3	1062.0	1084.0	1091.3	1104.2	1106.0	1096.8	1131.7	1142.7	1170.2	1194.1
57.5°	981.3	977.6	996.0	1003.3	1019.8	1019.8	1014.3	1051.0	1065.7	1095.0	1122.5
60°	891.4	887.7	904.3	913.4	931.8	935.4	931.8	970.3	990.5	1019.8	1051.0
62.5°	801.5	797.9	814.4	827.2	847.4	851.1	852.9	893.2	915.3	946.4	981.3
65°	711.7	708.0	724.5	739.2	763.0	768.5	774.0	816.2	841.9	874.9	911.6
67.5°	621.8	620.0	636.5	654.8	680.5	687.8	697.0	741.0	770.4	805.2	845.6
70°	533.7	531.9	548.4	570.4	601.6	610.8	621.8	665.8	702.5	739.2	779.5
72.5°	445.7	447.5	465.9	491.6	526.4	535.6	550.3	596.1	636.5	675.0	717.2
75°	365.0	365.0	385.2	414.5	453.0	465.9	482.4	530.1	572.3	612.6	656.6
77.5°	282.5	282.5	306.3	343.0	385.2	398.0	418.2	467.7	513.6	553.9	597.9
80°	207.3	210.9	238.4	275.1	319.1	335.7	359.5	409.0	458.5	498.9	542.9
82.5°	141.2	146.7	176.1	218.3	262.3	278.8	302.6	355.8	405.4	447.5	493.4
85°	84.4	93.5	124.7	166.9	212.8	231.1	256.8	306.3	355.8	398.0	443.9
87.5°	38.5	51.4	84.4	126.6	170.6	190.8	212.8	260.5	310.0	352.2	399.9
90°	3.7	22.0	55.0	91.7	133.9	152.2	174.2	220.1	267.8	306.3	352.2
92.5°	0.0	9.2	33.0	66.0	102.7	121.1	141.2	185.3	227.4	266.0	310.0
95°	0.0	3.7	18.3	45.9	77.0	93.5	111.9	152.2	194.4	231.1	271.5
97.5°	0.0	1.8	11.0	31.2	56.9	71.5	88.0	124.7	163.2	198.1	234.8
100°	0.0	1.8	5.5	20.2	42.2	53.2	69.7	100.9	135.7	166.9	203.6
102.5°	0.0	0.0	3.7	12.8	31.2	40.4	53.2	80.7	111.9	141.2	174.2
105°	0.0	0.0	1.8	9.2	22.0	29.3	40.4	64.2	91.7	117.4	148.6
107.5°	0.0	0.0	1.8	5.5	14.7	22.0	31.2	49.5	73.4	97.2	124.7
110°	1.8	1.8	1.8	3.7	11.0	16.5	22.0	38.5	60.5	80.7	104.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.8	1.8	1.8	1.8	7.3	11.0	16.5	29.3	47.7	64.2	86.2
115°	1.8	1.8	1.8	1.8	5.5	7.3	11.0	22.0	36.7	51.4	69.7
117.5°	1.8	1.8	1.8	1.8	3.7	5.5	7.3	16.5	27.5	40.4	56.9
120°	1.8	1.8	1.8	1.8	1.8	3.7	5.5	11.0	22.0	31.2	45.9
122.5°	1.8	1.8	1.8	1.8	1.8	3.7	3.7	9.2	16.5	23.8	34.8
125°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	11.0	18.3	27.5
127.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	7.3	12.8	20.2
130°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	9.2	14.7
132.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	7.3	11.0
135°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5	7.3
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5
140°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
142.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
145°	1.8	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
147.5°	1.8	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
150°	1.8	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
152.5°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8
155°	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8
157.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8
160°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8
162.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8
165°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8
167.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8
170°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
172.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8
175°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
177.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1
2.5°	2333.1	2338.6	2344.1	2329.4	2338.6	2355.1	2360.6	2338.6	2345.9	2331.3
5°	2325.8	2329.4	2336.8	2318.4	2331.3	2345.9	2355.1	2336.8	2347.8	2336.8
7.5°	2311.1	2314.7	2323.9	2305.6	2322.1	2334.9	2345.9	2327.6	2338.6	2327.6
10°	2289.1	2294.6	2307.4	2285.4	2305.6	2316.6	2327.6	2307.4	2318.4	2307.4
12.5°	2261.6	2270.7	2281.7	2261.6	2281.7	2290.9	2305.6	2285.4	2298.2	2289.1
15°	2228.5	2237.7	2252.4	2232.2	2257.9	2265.2	2279.9	2259.7	2272.6	2263.4
17.5°	2190.0	2201.0	2219.4	2195.5	2224.9	2230.4	2245.0	2226.7	2239.5	2230.4
20°	2146.0	2157.0	2175.3	2153.3	2182.7	2186.4	2202.9	2186.4	2199.2	2193.7
22.5°	2094.6	2107.5	2125.8	2105.6	2136.8	2136.8	2157.0	2140.5	2155.2	2149.7
25°	2041.5	2056.1	2076.3	2054.3	2087.3	2087.3	2109.3	2092.8	2107.5	2103.8
27.5°	1984.6	2001.1	2024.9	2002.9	2035.9	2034.1	2056.1	2041.5	2058.0	2052.5
30°	1924.1	1942.4	1966.3	1947.9	1982.8	1979.1	2001.1	1988.3	2002.9	2001.1
32.5°	1858.0	1878.2	1907.6	1887.4	1922.2	1918.6	1946.1	1931.4	1949.7	1946.1
35°	1792.0	1814.0	1843.4	1825.0	1863.5	1858.0	1885.5	1872.7	1891.0	1889.2
37.5°	1724.1	1748.0	1777.3	1762.7	1799.3	1793.8	1823.2	1812.2	1832.4	1826.9
40°	1654.4	1678.3	1709.5	1696.6	1735.1	1727.8	1759.0	1749.8	1770.0	1766.3
42.5°	1584.7	1610.4	1641.6	1634.3	1670.9	1663.6	1694.8	1687.5	1707.6	1704.0
45°	1513.2	1540.7	1573.7	1566.4	1604.9	1597.6	1628.8	1623.3	1643.4	1641.6
47.5°	1441.7	1471.0	1504.0	1500.4	1537.0	1529.7	1562.7	1557.2	1577.4	1577.4
50°	1368.3	1401.3	1434.3	1432.5	1469.2	1461.8	1491.2	1491.2	1513.2	1511.4
52.5°	1294.9	1329.8	1364.6	1364.6	1401.3	1394.0	1427.0	1425.2	1447.2	1447.2
55°	1225.2	1256.4	1291.3	1298.6	1333.5	1322.4	1357.3	1361.0	1379.3	1381.1
57.5°	1155.5	1188.6	1223.4	1232.6	1265.6	1258.3	1291.3	1294.9	1313.3	1315.1
60°	1085.8	1117.0	1151.9	1164.7	1197.7	1190.4	1223.4	1227.1	1247.2	1249.1
62.5°	1016.1	1047.3	1085.8	1098.7	1129.9	1124.4	1159.2	1162.9	1181.2	1184.9
65°	948.3	981.3	1018.0	1036.3	1065.7	1058.3	1093.2	1096.8	1117.0	1118.9
67.5°	882.2	915.3	951.9	972.1	999.6	996.0	1029.0	1036.3	1052.8	1056.5
70°	818.0	851.1	889.6	909.8	937.3	935.4	966.6	972.1	990.5	992.3
72.5°	755.7	788.7	827.2	851.1	874.9	873.1	904.3	911.6	929.9	931.8
75°	695.2	730.0	766.7	792.4	816.2	814.4	845.6	852.9	869.4	871.2
77.5°	638.3	673.1	711.7	737.3	757.5	759.4	786.9	794.2	810.7	816.2
80°	585.1	618.1	654.8	682.3	700.7	704.3	730.0	739.2	752.0	759.4
82.5°	533.7	566.8	603.4	629.1	647.5	651.1	675.0	686.0	698.8	704.3
85°	484.2	517.2	552.1	579.6	596.1	597.9	621.8	632.8	643.8	653.0
87.5°	436.5	469.6	502.6	531.9	546.6	550.3	572.3	583.3	592.4	601.6
90°	388.8	421.9	454.9	482.4	497.1	498.9	522.7	533.7	542.9	550.3
92.5°	344.8	377.8	410.9	438.4	451.2	454.9	475.1	487.9	495.2	502.6
95°	302.6	335.7	365.0	394.4	407.2	412.7	431.0	442.0	451.2	454.9
97.5°	266.0	295.3	322.8	352.2	363.2	368.7	387.0	399.9	407.2	410.9
100°	231.1	258.6	284.3	311.8	322.8	328.3	344.8	355.8	363.2	368.7
102.5°	199.9	225.6	249.4	275.1	286.1	289.8	304.5	315.5	322.8	328.3
105°	172.4	196.3	218.3	242.1	251.3	256.8	269.6	278.8	286.1	289.8
107.5°	146.7	170.6	188.9	210.9	220.1	223.8	236.6	247.6	253.1	255.0
110°	124.7	144.9	163.2	181.6	192.6	196.3	207.3	216.4	221.9	223.8



TEST NUMBER: P894434
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	104.5	122.9	139.4	155.9	165.1	168.7	179.8	188.9	192.6	194.4
115°	86.2	104.5	117.4	133.9	141.2	144.9	154.1	163.2	165.1	168.7
117.5°	69.7	86.2	99.0	111.9	119.2	122.9	130.2	137.6	141.2	143.1
120°	56.9	69.7	80.7	93.5	99.0	102.7	110.1	117.4	119.2	121.1
122.5°	45.9	56.9	66.0	77.0	82.5	86.2	91.7	97.2	99.0	100.9
125°	34.8	45.9	53.2	62.4	67.9	69.7	75.2	80.7	82.5	84.4
127.5°	27.5	34.8	42.2	49.5	53.2	55.0	60.5	64.2	66.0	67.9
130°	20.2	25.7	31.2	38.5	42.2	44.0	47.7	51.4	53.2	53.2
132.5°	14.7	20.2	23.8	29.3	31.2	33.0	36.7	40.4	40.4	42.2
135°	9.2	12.8	16.5	20.2	23.8	23.8	27.5	29.3	31.2	31.2
137.5°	7.3	9.2	11.0	14.7	16.5	18.3	18.3	22.0	22.0	22.0
140°	5.5	7.3	7.3	9.2	11.0	12.8	12.8	14.7	14.7	14.7
142.5°	3.7	5.5	5.5	7.3	7.3	9.2	9.2	9.2	11.0	11.0
145°	3.7	3.7	3.7	5.5	5.5	5.5	5.5	7.3	7.3	7.3
147.5°	1.8	1.8	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5
150°	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7
152.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
155°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
157.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
162.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
167.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
170°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
172.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
175°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
177.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7



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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	17.65	19.18	18.12	19.64	20.13	19.22	20.75	19.69	21.21	21.70
	3H	19.32	20.73	19.81	21.19	21.72	21.84	23.25	22.33	23.71	24.24
	4H	19.92	21.25	20.43	21.74	22.28	23.16	24.49	23.66	24.97	25.51
	6H	20.32	21.56	20.84	22.06	22.61	24.56	25.80	25.08	26.30	26.85
	8H	20.44	21.62	20.97	22.15	22.71	25.31	26.50	25.84	27.02	27.58
	12H	20.51	21.65	21.05	22.17	22.76	26.16	27.30	26.70	27.82	28.41
4H	2H	18.57	19.91	19.08	20.39	20.93	19.77	21.10	20.28	21.59	22.13
	3H	20.55	21.69	21.07	22.22	22.78	22.69	23.82	23.20	24.35	24.91
	4H	21.33	22.37	21.87	22.91	23.50	24.21	25.25	24.75	25.79	26.39
	6H	21.91	22.83	22.47	23.39	24.00	25.85	26.77	26.41	27.34	27.95
	8H	22.09	22.96	22.65	23.52	24.14	26.73	27.60	27.30	28.17	28.79
	12H	22.22	23.00	22.80	23.60	24.22	27.74	28.53	28.32	29.12	29.75
8H	4H	22.21	23.08	22.77	23.64	24.26	24.57	25.44	25.13	26.00	26.62
	6H	23.09	23.83	23.68	24.43	25.06	26.47	27.21	27.07	27.82	28.44
	8H	23.44	24.10	24.04	24.72	25.36	27.56	28.22	28.16	28.84	29.48
	12H	23.71	24.30	24.32	24.91	25.62	28.82	29.42	29.43	30.02	30.73
12H	4H	22.49	23.27	23.07	23.87	24.49	24.61	25.40	25.20	25.99	26.62
	6H	23.54	24.21	24.15	24.82	25.46	26.58	27.25	27.19	27.87	28.51
	8H	24.06	24.65	24.67	25.26	25.96	27.78	28.37	28.39	28.98	29.69