

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: P895263

Luminaire Tested: 8TMB-8SL-RND-UNV-L840

Issue Date: 11/11/2024

**Test Information**

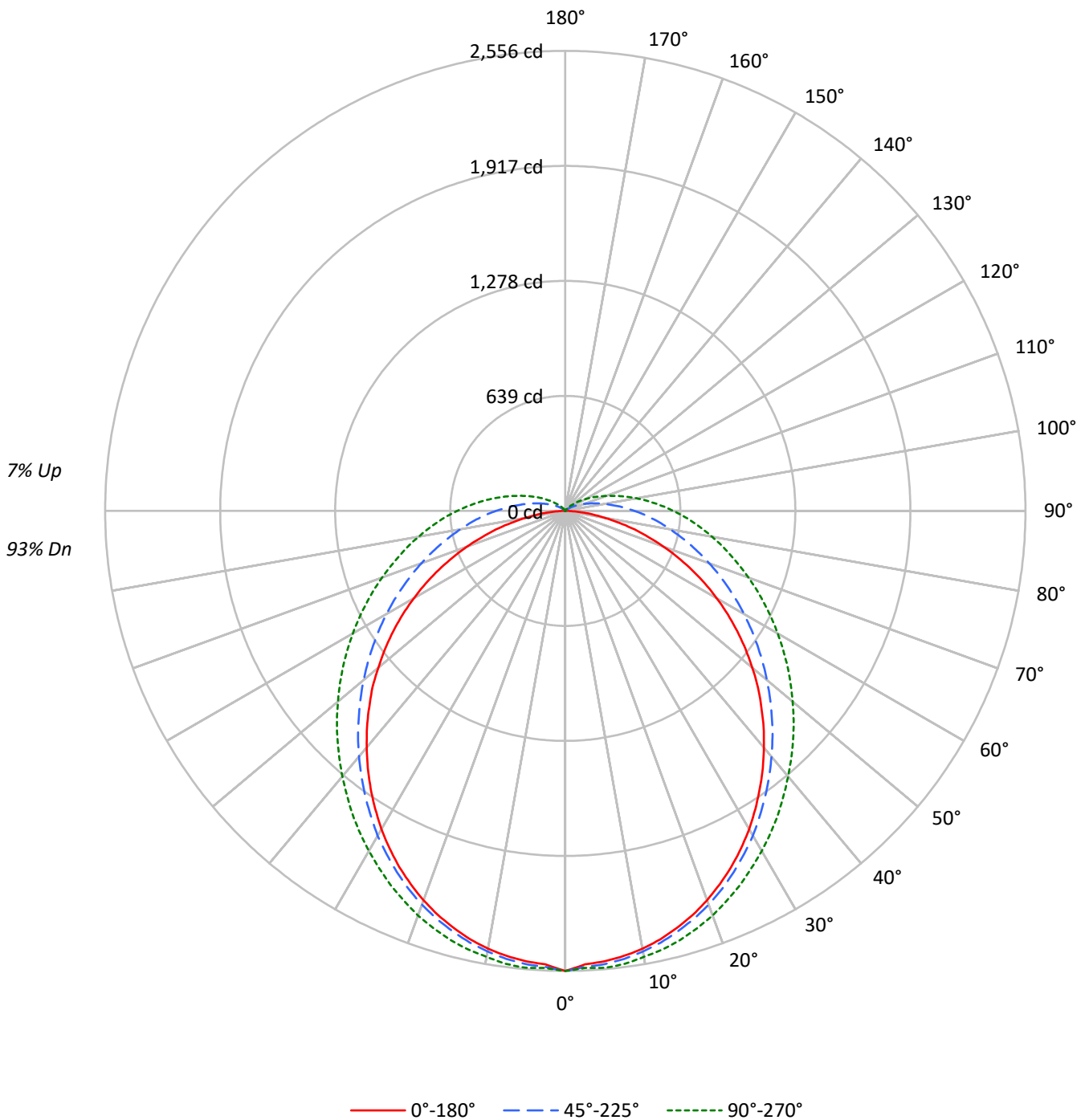
Test Method: LM-79-2019  
Report Number: P895263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-RND-UNV-L840  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8461.9 lumens  
Efficiency: N/A  
Efficacy: 142.0 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): 59.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P895263  
CATALOG NUMBER: 8TMB-8SL-RND-UNV-L840

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	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	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	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	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	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	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	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	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	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	20

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

	0°	45°	90°
0°	9069	9069	9069
5°	8947	9004	9076
10°	8899	8957	9065
15°	8809	8882	9066
20°	8692	8791	9032
25°	8543	8668	8981
30°	8367	8539	8940
35°	8161	8386	8923
40°	7949	8254	8921
45°	7728	8139	8982
50°	7486	8071	9097
55°	7213	8055	9317
60°	6898	8133	9666
65°	6515	8346	10243
70°	6038	8818	11226
75°	5456	9816	13025
80°	4618	12096	16918
85°	3745	19704	28986

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 53361 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	2.9
10°-20°	688.7	8.1
20°-30°	1031.3	12.2
30°-40°	1229.7	14.5
40°-50°	1275.4	15.1
50°-60°	1183.2	14.0
60°-70°	987.1	11.7
70°-80°	735.9	8.7
80°-90°	490.0	5.8
90°-100°	298.3	3.5
100°-110°	166.6	2.0
110°-120°	83.2	1.0
120°-130°	34.8	0.4
130°-140°	10.9	0.1
140°-150°	2.7	0.0
150°-160°	1.2	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	1961.8	23.2
0°-40°	3191.5	37.7
0°-60°	5650.1	66.8
0°-90°	7863.1	92.9
90°-120°	548.1	6.5
90°-150°	596.5	7.0
90°-180°	599.0	7.1
0°-180°	8461.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2556	2556	2556	2556	2556	
5°	2512	2570	2528	2542	2548	239
15°	2398	2460	2418	2462	2468	676
25°	2182	2240	2214	2276	2294	1005
35°	1884	1934	1936	2032	2060	1179
45°	1540	1580	1622	1750	1790	1189
55°	1166	1206	1302	1454	1506	1042
65°	776	838	994	1162	1220	768
75°	398	508	716	890	950	421
85°	92	252	484	650	712	103
90°	4	166	384	542	600	7
95°	0	102	296	444	496	0
105°	0	32	162	274	316	0
115°	2	8	76	154	184	2
125°	2	2	30	74	92	2
135°	2	2	8	26	34	2
145°	2	2	2	6	8	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: P895263  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1
2.5°	2522.1	2526.1	2562.1	2560.1	2554.1	2578.2	2584.2	2564.1	2532.1	2564.1	2536.1
5°	2512.1	2516.1	2552.1	2550.1	2544.1	2570.1	2572.1	2554.1	2522.1	2554.1	2528.1
7.5°	2494.1	2498.1	2534.1	2532.1	2528.1	2554.1	2552.1	2538.1	2504.1	2538.1	2510.1
10°	2470.1	2472.1	2510.1	2506.1	2504.1	2530.1	2524.1	2512.1	2478.1	2512.1	2486.1
12.5°	2438.1	2440.1	2478.1	2474.1	2474.1	2498.1	2490.1	2480.1	2446.1	2478.1	2456.1
15°	2398.1	2400.1	2436.1	2434.1	2434.1	2460.1	2448.1	2440.1	2408.1	2442.1	2418.1
17.5°	2354.1	2352.1	2390.1	2386.1	2390.1	2414.1	2398.1	2394.1	2364.1	2396.1	2376.1
20°	2302.1	2302.1	2336.1	2334.1	2340.1	2362.1	2342.1	2344.1	2314.1	2348.1	2328.1
22.5°	2244.1	2242.1	2276.1	2276.1	2282.1	2304.1	2282.1	2288.1	2258.1	2290.1	2274.1
25°	2182.1	2178.1	2212.1	2212.1	2222.1	2240.1	2216.1	2224.1	2196.1	2228.1	2214.1
27.5°	2114.1	2108.1	2142.1	2144.1	2152.1	2170.1	2144.1	2156.1	2130.1	2160.1	2150.1
30°	2042.1	2036.1	2070.1	2072.1	2082.1	2096.1	2070.1	2086.1	2062.1	2092.1	2084.1
32.5°	1964.1	1960.1	1992.1	1996.1	2006.1	2016.1	1992.1	2008.1	1988.1	2018.1	2010.1
35°	1884.1	1880.1	1910.1	1916.1	1926.1	1934.1	1908.1	1930.1	1912.1	1940.1	1936.1
37.5°	1802.1	1796.1	1828.1	1832.1	1844.1	1848.1	1824.1	1850.1	1834.1	1862.1	1860.1
40°	1716.1	1710.1	1742.1	1746.1	1758.1	1758.1	1738.1	1766.1	1754.1	1780.1	1782.1
42.5°	1630.1	1624.1	1652.1	1660.1	1670.1	1670.1	1650.1	1680.1	1672.1	1698.1	1704.1
45°	1540.1	1534.1	1560.1	1568.1	1580.1	1580.1	1560.1	1594.1	1588.1	1614.1	1622.1
47.5°	1452.1	1444.1	1468.1	1476.1	1488.1	1486.1	1470.1	1504.1	1502.1	1528.1	1542.1
50°	1356.1	1350.1	1374.1	1382.1	1396.1	1392.1	1380.1	1416.1	1416.1	1442.1	1462.1
52.5°	1262.1	1256.1	1280.1	1288.1	1300.1	1300.1	1288.1	1326.1	1332.1	1358.1	1382.1
55°	1166.1	1158.1	1182.1	1190.1	1204.1	1206.1	1196.1	1234.1	1246.1	1276.1	1302.1
57.5°	1070.1	1066.1	1086.1	1094.1	1112.1	1112.1	1106.1	1146.1	1162.1	1194.1	1224.1
60°	972.1	968.1	986.1	996.1	1016.1	1020.1	1016.1	1058.1	1080.1	1112.1	1146.1
62.5°	874.1	870.1	888.1	902.1	924.1	928.1	930.1	974.1	998.1	1032.1	1070.1
65°	776.0	772.0	790.0	806.0	832.0	838.0	844.0	890.1	918.1	954.1	994.1
67.5°	678.0	676.0	694.0	714.0	742.0	750.0	760.0	808.0	840.0	878.1	922.1
70°	582.0	580.0	598.0	622.0	656.0	666.0	678.0	726.0	766.0	806.0	850.0
72.5°	486.0	488.0	508.0	536.0	574.0	584.0	600.0	650.0	694.0	736.0	782.0
75°	398.0	398.0	420.0	452.0	494.0	508.0	526.0	578.0	624.0	668.0	716.0
77.5°	308.0	308.0	334.0	374.0	420.0	434.0	456.0	510.0	560.0	604.0	652.0
80°	226.0	230.0	260.0	300.0	348.0	366.0	392.0	446.0	500.0	544.0	592.0
82.5°	154.0	160.0	192.0	238.0	286.0	304.0	330.0	388.0	442.0	488.0	538.0
85°	92.0	102.0	136.0	182.0	232.0	252.0	280.0	334.0	388.0	434.0	484.0
87.5°	42.0	56.0	92.0	138.0	186.0	208.0	232.0	284.0	338.0	384.0	436.0
90°	4.0	24.0	60.0	100.0	146.0	166.0	190.0	240.0	292.0	334.0	384.0
92.5°	0.0	10.0	36.0	72.0	112.0	132.0	154.0	202.0	248.0	290.0	338.0
95°	0.0	4.0	20.0	50.0	84.0	102.0	122.0	166.0	212.0	252.0	296.0
97.5°	0.0	2.0	12.0	34.0	62.0	78.0	96.0	136.0	178.0	216.0	256.0
100°	0.0	2.0	6.0	22.0	46.0	58.0	76.0	110.0	148.0	182.0	222.0
102.5°	0.0	0.0	4.0	14.0	34.0	44.0	58.0	88.0	122.0	154.0	190.0
105°	0.0	0.0	2.0	10.0	24.0	32.0	44.0	70.0	100.0	128.0	162.0
107.5°	0.0	0.0	2.0	6.0	16.0	24.0	34.0	54.0	80.0	106.0	136.0
110°	2.0	2.0	2.0	4.0	12.0	18.0	24.0	42.0	66.0	88.0	114.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.0	2.0	2.0	2.0	8.0	12.0	18.0	32.0	52.0	70.0	94.0
115°	2.0	2.0	2.0	2.0	6.0	8.0	12.0	24.0	40.0	56.0	76.0
117.5°	2.0	2.0	2.0	2.0	4.0	6.0	8.0	18.0	30.0	44.0	62.0
120°	2.0	2.0	2.0	2.0	2.0	4.0	6.0	12.0	24.0	34.0	50.0
122.5°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	10.0	18.0	26.0	38.0
125°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	12.0	20.0	30.0
127.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.0	14.0	22.0
130°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	10.0	16.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.0	12.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0
140°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0
145°	2.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
147.5°	2.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
152.5°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
157.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0
160°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0
162.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0
165°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0
167.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
170°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
172.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
175°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
177.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
180°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1
2.5°	2544.1	2550.1	2556.1	2540.1	2550.1	2568.1	2574.1	2550.1	2558.1	2542.1
5°	2536.1	2540.1	2548.1	2528.1	2542.1	2558.1	2568.1	2548.1	2560.1	2548.1
7.5°	2520.1	2524.1	2534.1	2514.1	2532.1	2546.1	2558.1	2538.1	2550.1	2538.1
10°	2496.1	2502.1	2516.1	2492.1	2514.1	2526.1	2538.1	2516.1	2528.1	2516.1
12.5°	2466.1	2476.1	2488.1	2466.1	2488.1	2498.1	2514.1	2492.1	2506.1	2496.1
15°	2430.1	2440.1	2456.1	2434.1	2462.1	2470.1	2486.1	2464.1	2478.1	2468.1
17.5°	2388.1	2400.1	2420.1	2394.1	2426.1	2432.1	2448.1	2428.1	2442.1	2432.1
20°	2340.1	2352.1	2372.1	2348.1	2380.1	2384.1	2402.1	2384.1	2398.1	2392.1
22.5°	2284.1	2298.1	2318.1	2296.1	2330.1	2330.1	2352.1	2334.1	2350.1	2344.1
25°	2226.1	2242.1	2264.1	2240.1	2276.1	2276.1	2300.1	2282.1	2298.1	2294.1
27.5°	2164.1	2182.1	2208.1	2184.1	2220.1	2218.1	2242.1	2226.1	2244.1	2238.1
30°	2098.1	2118.1	2144.1	2124.1	2162.1	2158.1	2182.1	2168.1	2184.1	2182.1
32.5°	2026.1	2048.1	2080.1	2058.1	2096.1	2092.1	2122.1	2106.1	2126.1	2122.1
35°	1954.1	1978.1	2010.1	1990.1	2032.1	2026.1	2056.1	2042.1	2062.1	2060.1
37.5°	1880.1	1906.1	1938.1	1922.1	1962.1	1956.1	1988.1	1976.1	1998.1	1992.1
40°	1804.1	1830.1	1864.1	1850.1	1892.1	1884.1	1918.1	1908.1	1930.1	1926.1
42.5°	1728.1	1756.1	1790.1	1782.1	1822.1	1814.1	1848.1	1840.1	1862.1	1858.1
45°	1650.1	1680.1	1716.1	1708.1	1750.1	1742.1	1776.1	1770.1	1792.1	1790.1
47.5°	1572.1	1604.1	1640.1	1636.1	1676.1	1668.1	1704.1	1698.1	1720.1	1720.1
50°	1492.1	1528.1	1564.1	1562.1	1602.1	1594.1	1626.1	1626.1	1650.1	1648.1
52.5°	1412.1	1450.1	1488.1	1488.1	1528.1	1520.1	1556.1	1554.1	1578.1	1578.1
55°	1336.1	1370.1	1408.1	1416.1	1454.1	1442.1	1480.1	1484.1	1504.1	1506.1
57.5°	1260.1	1296.1	1334.1	1344.1	1380.1	1372.1	1408.1	1412.1	1432.1	1434.1
60°	1184.1	1218.1	1256.1	1270.1	1306.1	1298.1	1334.1	1338.1	1360.1	1362.1
62.5°	1108.1	1142.1	1184.1	1198.1	1232.1	1226.1	1264.1	1268.1	1288.1	1292.1
65°	1034.1	1070.1	1110.1	1130.1	1162.1	1154.1	1192.1	1196.1	1218.1	1220.1
67.5°	962.1	998.1	1038.1	1060.1	1090.1	1086.1	1122.1	1130.1	1148.1	1152.1
70°	892.1	928.1	970.1	992.1	1022.1	1020.1	1054.1	1060.1	1080.1	1082.1
72.5°	824.0	860.1	902.1	928.1	954.1	952.1	986.1	994.1	1014.1	1016.1
75°	758.0	796.0	836.0	864.1	890.1	888.1	922.1	930.1	948.1	950.1
77.5°	696.0	734.0	776.0	804.0	826.0	828.0	858.0	866.1	884.1	890.1
80°	638.0	674.0	714.0	744.0	764.0	768.0	796.0	806.0	820.0	828.0
82.5°	582.0	618.0	658.0	686.0	706.0	710.0	736.0	748.0	762.0	768.0
85°	528.0	564.0	602.0	632.0	650.0	652.0	678.0	690.0	702.0	712.0
87.5°	476.0	512.0	548.0	580.0	596.0	600.0	624.0	636.0	646.0	656.0
90°	424.0	460.0	496.0	526.0	542.0	544.0	570.0	582.0	592.0	600.0
92.5°	376.0	412.0	448.0	478.0	492.0	496.0	518.0	532.0	540.0	548.0
95°	330.0	366.0	398.0	430.0	444.0	450.0	470.0	482.0	492.0	496.0
97.5°	290.0	322.0	352.0	384.0	396.0	402.0	422.0	436.0	444.0	448.0
100°	252.0	282.0	310.0	340.0	352.0	358.0	376.0	388.0	396.0	402.0
102.5°	218.0	246.0	272.0	300.0	312.0	316.0	332.0	344.0	352.0	358.0
105°	188.0	214.0	238.0	264.0	274.0	280.0	294.0	304.0	312.0	316.0
107.5°	160.0	186.0	206.0	230.0	240.0	244.0	258.0	270.0	276.0	278.0
110°	136.0	158.0	178.0	198.0	210.0	214.0	226.0	236.0	242.0	244.0





TEST NUMBER: P895263  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	114.0	134.0	152.0	170.0	180.0	184.0	196.0	206.0	210.0	212.0
115°	94.0	114.0	128.0	146.0	154.0	158.0	168.0	178.0	180.0	184.0
117.5°	76.0	94.0	108.0	122.0	130.0	134.0	142.0	150.0	154.0	156.0
120°	62.0	76.0	88.0	102.0	108.0	112.0	120.0	128.0	130.0	132.0
122.5°	50.0	62.0	72.0	84.0	90.0	94.0	100.0	106.0	108.0	110.0
125°	38.0	50.0	58.0	68.0	74.0	76.0	82.0	88.0	90.0	92.0
127.5°	30.0	38.0	46.0	54.0	58.0	60.0	66.0	70.0	72.0	74.0
130°	22.0	28.0	34.0	42.0	46.0	48.0	52.0	56.0	58.0	58.0
132.5°	16.0	22.0	26.0	32.0	34.0	36.0	40.0	44.0	44.0	46.0
135°	10.0	14.0	18.0	22.0	26.0	26.0	30.0	32.0	34.0	34.0
137.5°	8.0	10.0	12.0	16.0	18.0	20.0	20.0	24.0	24.0	24.0
140°	6.0	8.0	8.0	10.0	12.0	14.0	14.0	16.0	16.0	16.0
142.5°	4.0	6.0	6.0	8.0	8.0	10.0	10.0	10.0	12.0	12.0
145°	4.0	4.0	4.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0
147.5°	2.0	2.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0
150°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
180°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



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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	17.95	19.49	18.42	19.94	20.43	19.52	21.06	19.99	21.51	22.00
	3H	19.62	21.03	20.11	21.49	22.02	22.15	23.55	22.63	24.02	24.54
	4H	20.22	21.55	20.73	22.04	22.58	23.46	24.79	23.96	25.27	25.81
	6H	20.62	21.86	21.14	22.36	22.92	24.86	26.10	25.38	26.60	27.16
	8H	20.74	21.93	21.27	22.45	23.01	25.61	26.80	26.14	27.32	27.88
	12H	20.81	21.95	21.35	22.47	23.06	26.46	27.60	27.00	28.12	28.71
4H	2H	18.88	20.21	19.38	20.69	21.23	20.07	21.40	20.58	21.89	22.43
	3H	20.86	21.99	21.37	22.52	23.08	22.99	24.12	23.50	24.65	25.21
	4H	21.63	22.67	22.17	23.21	23.81	24.51	25.55	25.05	26.09	26.69
	6H	22.21	23.13	22.77	23.70	24.30	26.15	27.07	26.71	27.64	28.25
	8H	22.39	23.26	22.95	23.82	24.45	27.04	27.90	27.60	28.47	29.09
	12H	22.52	23.31	23.10	23.90	24.52	28.04	28.83	28.62	29.42	30.05
8H	4H	22.51	23.38	23.07	23.94	24.56	24.87	25.74	25.43	26.30	26.93
	6H	23.39	24.13	23.98	24.73	25.36	26.77	27.51	27.37	28.12	28.74
	8H	23.74	24.40	24.35	25.02	25.66	27.86	28.52	28.46	29.14	29.78
	12H	24.01	24.61	24.62	25.21	25.92	29.12	29.72	29.73	30.32	31.03
12H	4H	22.79	23.57	23.37	24.17	24.79	24.91	25.70	25.50	26.29	26.92
	6H	23.84	24.51	24.45	25.12	25.76	26.88	27.55	27.49	28.17	28.81
	8H	24.36	24.95	24.97	25.56	26.26	28.08	28.68	28.69	29.28	29.99