

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: P895215

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-FLT-UNV-L840
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

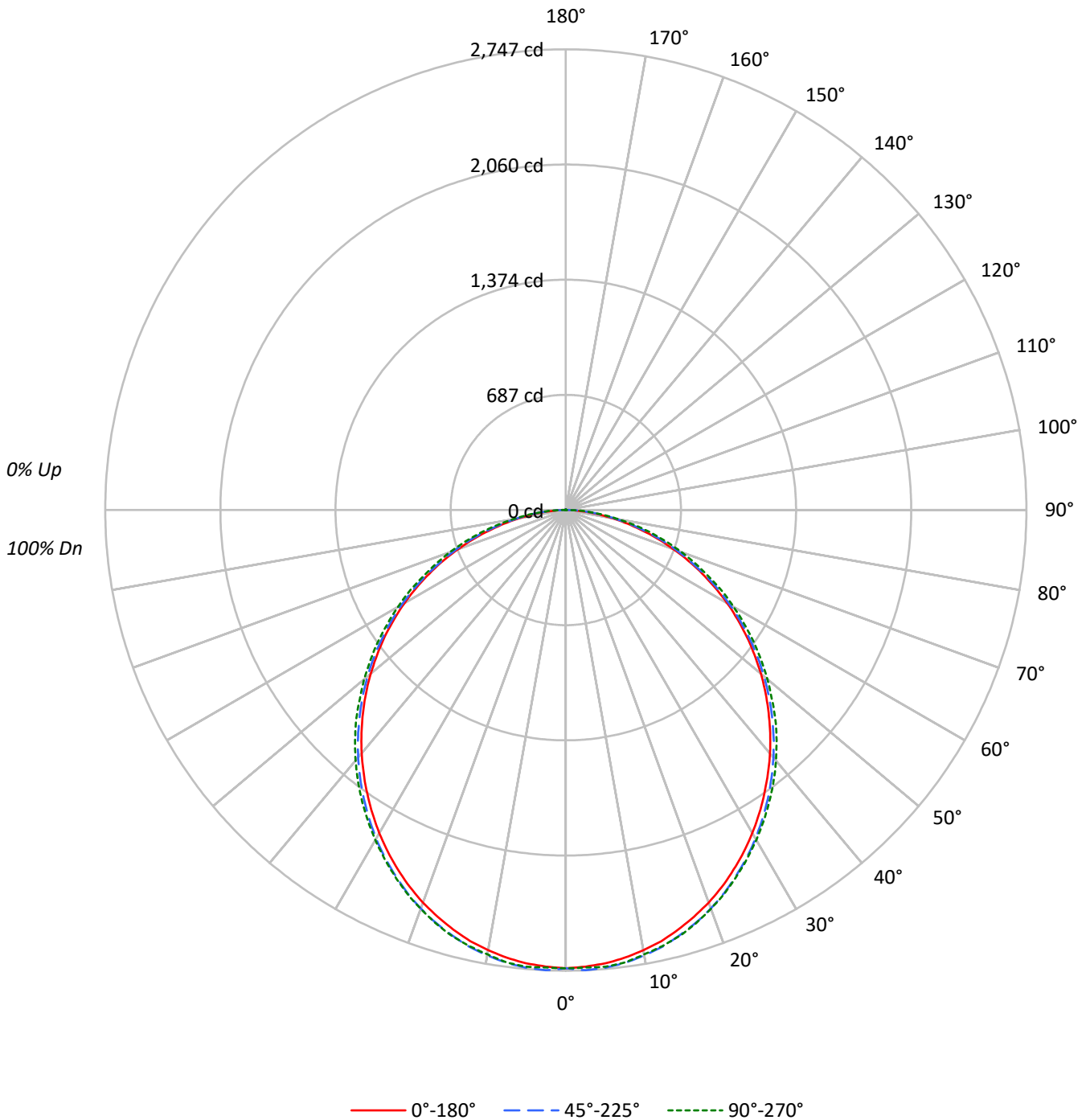
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7586.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
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 (A_{in}): 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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9696	9696	9696
5°	9662	9755	9733
10°	9601	9716	9695
15°	9516	9641	9656
20°	9405	9548	9556
25°	9265	9414	9438
30°	9114	9270	9311
35°	8943	9099	9177
40°	8775	8923	9034
45°	8583	8723	8874
50°	8381	8514	8668
55°	8156	8279	8453
60°	7893	8021	8205
65°	7542	7693	7894
70°	7098	7305	7637
75°	6527	6801	7240
80°	5764	6214	6541
85°	4967	5699	6107

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8874 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.4
10°-20°	736.5	9.7
20°-30°	1103.8	14.5
30°-40°	1313.3	17.3
40°-50°	1347.6	17.8
50°-60°	1207.3	15.9
60°-70°	917.3	12.1
70°-80°	533.2	7.0
80°-90°	160.0	2.1
90°-100°	3.8	0.1
100°-110°	0.7	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.0
130°-140°	0.8	0.0
140°-150°	1.2	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.3	0.0
0°-30°	2098.7	27.7
0°-40°	3412.1	45.0
0°-60°	5966.9	78.7
0°-90°	7577.4	99.9
90°-120°	4.5	0.1
90°-150°	6.8	0.1
90°-180°	9.0	0.1
0°-180°	7586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2733	2733	2733	2733	2733	
5°	2713	2759	2739	2725	2733	257
15°	2591	2641	2625	2621	2629	730
25°	2367	2421	2405	2401	2411	1091
35°	2065	2115	2101	2107	2119	1292
45°	1710	1752	1738	1752	1768	1320
55°	1318	1350	1338	1354	1366	1178
65°	898	920	916	932	940	889
75°	476	494	496	514	528	505
85°	122	132	140	150	150	133
90°	2	8	8	14	12	8
95°	0	2	2	4	6	0
105°	0	0	0	2	2	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
135°	0	0	2	0	0	1
145°	2	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	4	4	4	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P895215

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8
2.5°	2724.8	2720.8	2724.8	2722.8	2742.8	2766.8	2762.8	2744.8	2724.8	2730.8	2746.8
5°	2712.8	2710.8	2716.8	2712.8	2732.8	2758.8	2750.8	2734.8	2716.8	2722.8	2738.8
7.5°	2692.8	2692.8	2700.8	2696.8	2714.8	2740.8	2732.8	2718.8	2700.8	2706.8	2722.8
10°	2664.7	2666.7	2676.8	2670.8	2686.8	2714.8	2706.8	2692.8	2676.8	2680.8	2696.8
12.5°	2632.7	2632.7	2644.7	2638.7	2654.7	2680.8	2670.8	2660.7	2644.7	2648.7	2666.7
15°	2590.7	2592.7	2606.7	2600.7	2614.7	2640.7	2630.7	2622.7	2608.7	2610.7	2624.7
17.5°	2542.7	2548.7	2562.7	2556.7	2570.7	2596.7	2584.7	2576.7	2564.7	2566.7	2580.7
20°	2490.7	2496.7	2510.7	2506.7	2516.7	2542.7	2530.7	2526.7	2514.7	2516.7	2528.7
22.5°	2432.7	2438.7	2454.7	2450.7	2460.7	2486.7	2472.7	2470.7	2458.7	2460.7	2470.7
25°	2366.7	2374.7	2392.7	2388.7	2396.7	2420.7	2408.7	2404.7	2396.7	2396.7	2404.7
27.5°	2298.6	2306.6	2326.7	2320.7	2326.7	2352.7	2338.7	2336.7	2328.7	2328.7	2336.7
30°	2224.6	2232.6	2254.6	2248.6	2254.6	2276.6	2262.6	2264.6	2256.6	2256.6	2262.6
32.5°	2146.6	2152.6	2176.6	2172.6	2176.6	2198.6	2184.6	2186.6	2178.6	2180.6	2182.6
35°	2064.6	2070.6	2096.6	2092.6	2094.6	2114.6	2104.6	2104.6	2098.6	2096.6	2100.6
37.5°	1980.6	1986.6	2018.6	2008.6	2008.6	2028.6	2020.6	2020.6	2014.6	2012.6	2014.6
40°	1894.5	1898.5	1932.5	1922.5	1920.5	1938.5	1932.5	1932.5	1928.5	1924.5	1926.5
42.5°	1804.5	1810.5	1844.5	1836.5	1828.5	1848.5	1842.5	1844.5	1838.5	1834.5	1834.5
45°	1710.5	1716.5	1750.5	1746.5	1734.5	1752.5	1746.5	1750.5	1742.5	1738.5	1738.5
47.5°	1616.5	1624.5	1656.5	1650.5	1638.5	1656.5	1650.5	1654.5	1646.5	1642.5	1642.5
50°	1518.4	1526.4	1560.4	1550.4	1538.4	1556.4	1552.4	1554.4	1548.4	1544.4	1542.4
52.5°	1418.4	1428.4	1460.4	1448.4	1438.4	1454.4	1452.4	1454.4	1446.4	1444.4	1442.4
55°	1318.4	1328.4	1358.4	1344.4	1336.4	1350.4	1346.4	1350.4	1342.4	1340.4	1338.4
57.5°	1214.3	1224.3	1252.4	1238.3	1232.3	1244.3	1242.3	1244.3	1238.3	1236.3	1234.3
60°	1112.3	1120.3	1146.3	1132.3	1126.3	1138.3	1134.3	1140.3	1132.3	1132.3	1130.3
62.5°	1004.3	1014.3	1040.3	1024.3	1020.3	1030.3	1026.3	1032.3	1028.3	1024.3	1022.3
65°	898.3	904.3	928.3	914.3	908.3	920.3	918.3	922.3	916.3	918.3	916.3
67.5°	792.2	796.2	820.2	804.2	800.2	812.2	814.2	812.2	808.2	810.2	808.2
70°	684.2	688.2	708.2	694.2	692.2	702.2	706.2	704.2	700.2	702.2	704.2
72.5°	580.2	582.2	600.2	588.2	586.2	598.2	598.2	598.2	598.2	598.2	602.2
75°	476.1	478.1	494.1	484.1	482.1	494.1	494.1	494.1	494.1	498.1	496.1
77.5°	376.1	374.1	390.1	384.1	380.1	392.1	392.1	394.1	398.1	402.1	396.1
80°	282.1	280.1	292.1	284.1	284.1	296.1	294.1	296.1	300.1	302.1	304.1
82.5°	198.1	194.1	204.1	202.1	200.1	210.1	212.1	210.1	216.1	218.1	218.1
85°	122.0	122.0	128.0	124.0	124.0	132.0	132.0	134.0	138.0	140.0	140.0
87.5°	58.0	56.0	62.0	60.0	58.0	64.0	64.0	66.0	68.0	70.0	68.0
90°	2.0	2.0	4.0	4.0	4.0	8.0	8.0	8.0	10.0	10.0	8.0
92.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0
95°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0
132.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
135°	0.0	2.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	2.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
140°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
145°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
147.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
152.5°	2.0	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	2.0
157.5°	2.0	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	2.0
162.5°	2.0	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	2.0
167.5°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
170°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
175°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8	2732.8
2.5°	2722.8	2708.8	2702.8	2706.8	2734.8	2706.8	2736.8	2746.8	2710.8	2730.8
5°	2714.8	2700.8	2692.8	2696.8	2724.8	2698.8	2730.8	2742.8	2712.8	2732.8
7.5°	2698.8	2682.8	2678.8	2684.8	2708.8	2686.8	2718.8	2730.8	2700.8	2720.8
10°	2674.8	2660.7	2656.7	2662.7	2684.8	2662.7	2690.8	2700.8	2672.8	2690.8
12.5°	2644.7	2630.7	2626.7	2634.7	2654.7	2634.7	2662.7	2672.8	2644.7	2662.7
15°	2606.7	2592.7	2590.7	2602.7	2620.7	2602.7	2630.7	2638.7	2610.7	2628.7
17.5°	2560.7	2546.7	2548.7	2562.7	2576.7	2560.7	2586.7	2594.7	2568.7	2582.7
20°	2510.7	2494.7	2498.7	2510.7	2522.7	2506.7	2532.7	2540.7	2516.7	2530.7
22.5°	2452.7	2436.7	2440.7	2454.7	2462.7	2448.7	2472.7	2480.7	2460.7	2474.7
25°	2388.7	2374.7	2380.7	2394.7	2400.7	2388.7	2410.7	2416.7	2398.7	2410.7
27.5°	2324.7	2308.6	2316.7	2330.7	2334.7	2322.7	2344.7	2348.7	2330.7	2342.7
30°	2252.6	2236.6	2246.6	2262.6	2262.6	2254.6	2272.6	2276.6	2262.6	2272.6
32.5°	2172.6	2160.6	2172.6	2186.6	2184.6	2178.6	2196.6	2200.6	2188.6	2196.6
35°	2092.6	2082.6	2094.6	2108.6	2106.6	2100.6	2118.6	2120.6	2110.6	2118.6
37.5°	2010.6	2002.6	2014.6	2026.6	2022.6	2018.6	2034.6	2034.6	2028.6	2036.6
40°	1926.5	1918.5	1928.5	1942.5	1934.5	1934.5	1944.5	1948.5	1942.5	1950.5
42.5°	1838.5	1830.5	1842.5	1854.5	1846.5	1844.5	1856.5	1858.5	1854.5	1860.5
45°	1746.5	1738.5	1750.5	1760.5	1752.5	1752.5	1762.5	1762.5	1760.5	1768.5
47.5°	1652.5	1646.5	1656.5	1666.5	1658.5	1664.5	1664.5	1664.5	1668.5	1666.5
50°	1556.4	1550.4	1558.4	1570.4	1560.4	1562.4	1566.4	1566.4	1568.4	1570.4
52.5°	1456.4	1448.4	1456.4	1470.4	1456.4	1462.4	1464.4	1466.4	1472.4	1468.4
55°	1356.4	1348.4	1356.4	1368.4	1354.4	1362.4	1362.4	1364.4	1370.4	1366.4
57.5°	1252.4	1244.3	1256.4	1264.4	1250.4	1258.4	1258.4	1262.4	1266.4	1260.4
60°	1148.3	1142.3	1146.3	1160.3	1146.3	1154.3	1154.3	1154.3	1162.3	1156.3
62.5°	1042.3	1038.3	1042.3	1054.3	1040.3	1048.3	1046.3	1048.3	1056.3	1054.3
65°	934.3	930.3	934.3	946.3	932.3	940.3	940.3	942.3	948.3	940.3
67.5°	828.2	822.2	828.2	838.2	826.2	832.2	832.2	832.2	842.2	838.2
70°	720.2	716.2	720.2	730.2	720.2	724.2	724.2	724.2	734.2	736.2
72.5°	614.2	614.2	618.2	626.2	618.2	626.2	620.2	616.2	630.2	632.2
75°	510.1	512.1	514.1	522.1	514.1	522.1	518.1	514.1	526.1	528.1
77.5°	414.1	414.1	416.1	422.1	416.1	422.1	418.1	418.1	426.1	424.1
80°	316.1	316.1	318.1	324.1	318.1	324.1	320.1	320.1	328.1	320.1
82.5°	230.1	230.1	230.1	236.1	232.1	236.1	234.1	230.1	240.1	232.1
85°	148.0	150.0	150.0	152.0	150.0	152.0	152.0	150.0	156.0	150.0
87.5°	76.0	76.0	76.0	78.0	76.0	76.0	78.0	76.0	80.0	78.0
90°	14.0	12.0	12.0	16.0	14.0	14.0	16.0	12.0	14.0	12.0
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0
95°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0
100°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
102.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
105°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0
140°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0
145°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
147.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	2.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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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	19.40	21.04	19.77	21.35	21.67	19.54	21.17	19.90	21.49	21.81
	3H	21.22	22.70	21.60	23.03	23.40	21.37	22.85	21.75	23.18	23.54
	4H	21.88	23.28	22.28	23.63	24.01	22.08	23.47	22.48	23.82	24.20
	6H	22.34	23.63	22.75	24.00	24.39	22.63	23.93	23.05	24.29	24.69
	8H	22.48	23.71	22.90	24.10	24.50	22.83	24.06	23.25	24.46	24.86
	12H	22.57	23.76	23.00	24.14	24.57	22.97	24.15	23.40	24.54	24.97
4H	2H	20.03	21.43	20.43	21.78	22.16	20.14	21.54	20.54	21.89	22.27
	3H	22.07	23.25	22.49	23.65	24.05	22.21	23.38	22.62	23.78	24.18
	4H	22.87	23.93	23.30	24.34	24.78	23.05	24.11	23.49	24.53	24.97
	6H	23.44	24.37	23.90	24.81	25.27	23.75	24.67	24.20	25.12	25.57
	8H	23.63	24.50	24.09	24.95	25.41	23.99	24.86	24.45	25.30	25.77
	12H	23.78	24.56	24.26	25.04	25.51	24.18	24.97	24.67	25.44	25.91
8H	4H	23.20	24.07	23.66	24.51	24.98	23.36	24.23	23.82	24.68	25.14
	6H	23.90	24.62	24.39	25.11	25.59	24.19	24.91	24.68	25.40	25.88
	8H	24.16	24.81	24.67	25.32	25.81	24.52	25.17	25.03	25.68	26.16
	12H	24.38	24.95	24.89	25.45	26.01	24.80	25.38	25.31	25.87	26.43
12H	4H	23.24	24.02	23.72	24.50	24.97	23.39	24.18	23.88	24.65	25.13
	6H	23.97	24.62	24.48	25.13	25.62	24.24	24.90	24.75	25.40	25.89
	8H	24.30	24.87	24.80	25.36	25.93	24.64	25.21	25.15	25.71	26.27