

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: P894498

Luminaire Tested: 8TMB-12SL-FLT-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894498
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-12SL-FLT-UNV-L935
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

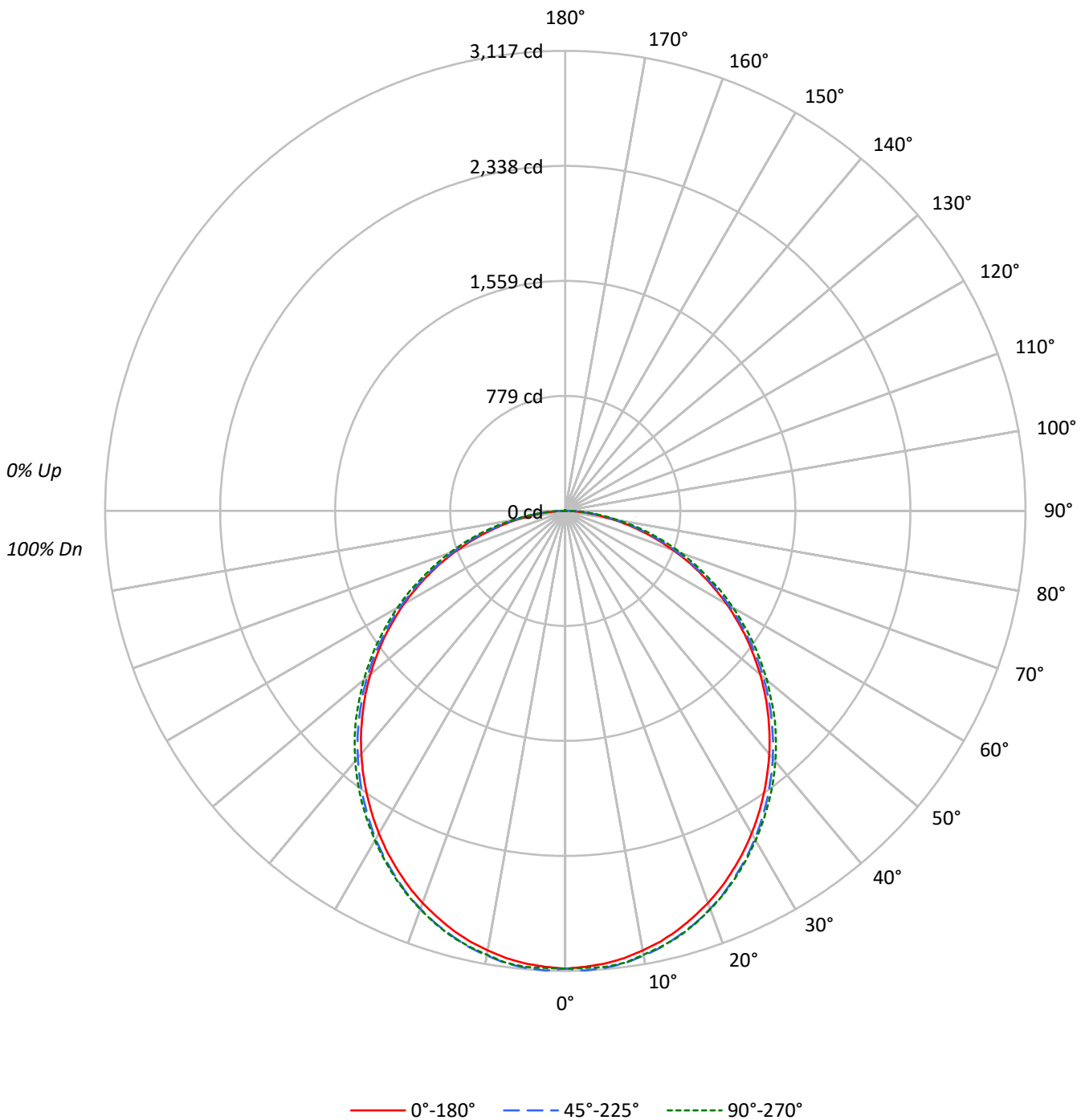
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8609.1 lumens
Efficiency: N/A
Efficacy: 96.9 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): 88.8
Input Voltage (V): 120
Input Current (A_{in}): 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				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°	11004	11004	11004
5°	10965	11070	11046
10°	10895	11026	11002
15°	10800	10942	10958
20°	10673	10836	10844
25°	10515	10684	10710
30°	10343	10520	10567
35°	10149	10326	10414
40°	9958	10126	10253
45°	9740	9900	10071
50°	9512	9662	9838
55°	9255	9396	9592
60°	8958	9102	9312
65°	8558	8730	8959
70°	8055	8291	8668
75°	7407	7718	8217
80°	6541	7051	7423
85°	5638	6469	6933

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10071 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	3.4
10°-20°	835.9	9.7
20°-30°	1252.6	14.5
30°-40°	1490.4	17.3
40°-50°	1529.3	17.8
50°-60°	1370.1	15.9
60°-70°	1041.0	12.1
70°-80°	605.1	7.0
80°-90°	181.6	2.1
90°-100°	4.3	0.1
100°-110°	0.8	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.0
130°-140°	0.9	0.0
140°-150°	1.4	0.0
150°-160°	1.1	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	2381.8	27.7
0°-40°	3872.2	45.0
0°-60°	6771.6	78.7
0°-90°	8599.2	99.9
90°-120°	5.1	0.1
90°-150°	7.8	0.1
90°-180°	10.0	0.1
0°-180°	8609.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3101	3101	3101	3101	3101	
5°	3079	3131	3108	3092	3101	292
15°	2940	2997	2979	2974	2983	829
25°	2686	2747	2729	2724	2736	1238
35°	2343	2400	2384	2391	2404	1466
45°	1941	1989	1973	1989	2007	1498
55°	1496	1532	1519	1537	1551	1337
65°	1019	1044	1040	1058	1067	1009
75°	540	561	563	584	599	573
85°	138	150	159	170	170	151
90°	2	9	9	16	14	10
95°	0	2	2	4	7	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: P894498

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3092.2	3087.7	3092.2	3089.9	3112.6	3139.9	3135.3	3114.9	3092.2	3099.0	3117.2
5°	3078.6	3076.3	3083.1	3078.6	3101.3	3130.8	3121.7	3103.6	3083.1	3089.9	3108.1
7.5°	3055.9	3055.9	3065.0	3060.4	3080.9	3110.4	3101.3	3085.4	3065.0	3071.8	3089.9
10°	3024.1	3026.4	3037.7	3030.9	3049.1	3080.9	3071.8	3055.9	3037.7	3042.3	3060.4
12.5°	2987.8	2987.8	3001.4	2994.6	3012.7	3042.3	3030.9	3019.6	3001.4	3005.9	3026.4
15°	2940.1	2942.4	2958.3	2951.4	2967.3	2996.9	2985.5	2976.4	2960.5	2962.8	2978.7
17.5°	2885.6	2892.4	2908.3	2901.5	2917.4	2946.9	2933.3	2924.2	2910.6	2912.9	2928.7
20°	2826.6	2833.4	2849.3	2844.7	2856.1	2885.6	2872.0	2867.4	2853.8	2856.1	2869.7
22.5°	2760.7	2767.6	2785.7	2781.2	2792.5	2822.0	2806.1	2803.9	2790.3	2792.5	2803.9
25°	2685.8	2694.9	2715.3	2710.8	2719.9	2747.1	2733.5	2729.0	2719.9	2719.9	2729.0
27.5°	2608.6	2617.7	2640.4	2633.6	2640.4	2669.9	2654.0	2651.8	2642.7	2642.7	2651.8
30°	2524.6	2533.7	2558.7	2551.9	2558.7	2583.7	2567.8	2570.0	2560.9	2560.9	2567.8
32.5°	2436.1	2442.9	2470.1	2465.6	2470.1	2495.1	2479.2	2481.5	2472.4	2474.7	2476.9
35°	2343.0	2349.8	2379.3	2374.8	2377.1	2399.8	2388.4	2388.4	2381.6	2379.3	2383.9
37.5°	2247.6	2254.5	2290.8	2279.4	2279.4	2302.1	2293.0	2293.0	2286.2	2284.0	2286.2
40°	2150.0	2154.6	2193.2	2181.8	2179.5	2200.0	2193.2	2193.2	2188.6	2184.1	2186.3
42.5°	2047.9	2054.7	2093.3	2084.2	2075.1	2097.8	2091.0	2093.3	2086.4	2081.9	2081.9
45°	1941.1	1948.0	1986.6	1982.0	1968.4	1988.8	1982.0	1986.6	1977.5	1972.9	1972.9
47.5°	1834.4	1843.5	1879.8	1873.0	1859.4	1879.8	1873.0	1877.6	1868.5	1864.0	1864.0
50°	1723.2	1732.3	1770.9	1759.5	1745.9	1766.3	1761.8	1764.1	1757.2	1752.7	1750.4
52.5°	1609.7	1621.0	1657.4	1643.7	1632.4	1650.5	1648.3	1650.5	1641.5	1639.2	1636.9
55°	1496.2	1507.5	1541.6	1525.7	1516.6	1532.5	1527.9	1532.5	1523.4	1521.1	1518.9
57.5°	1378.1	1389.5	1421.2	1405.3	1398.5	1412.2	1409.9	1412.2	1405.3	1403.1	1400.8
60°	1262.3	1271.4	1300.9	1285.0	1278.2	1291.8	1287.3	1294.1	1285.0	1285.0	1282.7
62.5°	1139.7	1151.1	1180.6	1162.4	1157.9	1169.2	1164.7	1171.5	1167.0	1162.4	1160.1
65°	1019.4	1026.2	1053.4	1037.5	1030.7	1044.4	1042.1	1046.6	1039.8	1042.1	1039.8
67.5°	899.1	903.6	930.8	912.7	908.1	921.8	924.0	921.8	917.2	919.5	917.2
70°	776.5	781.0	803.7	787.8	785.5	796.9	801.4	799.2	794.6	796.9	799.2
72.5°	658.4	660.7	681.1	667.5	665.2	678.8	678.8	678.8	678.8	678.8	683.4
75°	540.3	542.6	560.8	549.4	547.2	560.8	560.8	560.8	560.8	565.3	563.0
77.5°	426.8	424.6	442.7	435.9	431.4	445.0	445.0	447.3	451.8	456.3	449.5
80°	320.1	317.8	331.5	322.4	322.4	336.0	333.7	336.0	340.6	342.8	345.1
82.5°	224.8	220.2	231.6	229.3	227.0	238.4	240.7	238.4	245.2	247.5	247.5
85°	138.5	138.5	145.3	140.8	140.8	149.8	149.8	152.1	156.7	158.9	158.9
87.5°	65.8	63.6	70.4	68.1	65.8	72.7	72.7	74.9	77.2	79.5	77.2
90°	2.3	2.3	4.5	4.5	4.5	9.1	9.1	9.1	11.4	11.4	9.1
92.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	4.5	4.5	4.5	4.5
95°	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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	2.3



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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	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	2.3
132.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0
135°	0.0	2.3	2.3	2.3	2.3	0.0	2.3	0.0	0.0	0.0	2.3
137.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
140°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
145°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
170°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
172.5°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3
175°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	4.5	4.5
177.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3089.9	3074.0	3067.2	3071.8	3103.6	3071.8	3105.8	3117.2	3076.3	3099.0
5°	3080.9	3065.0	3055.9	3060.4	3092.2	3062.7	3099.0	3112.6	3078.6	3101.3
7.5°	3062.7	3044.5	3040.0	3046.8	3074.0	3049.1	3085.4	3099.0	3065.0	3087.7
10°	3035.5	3019.6	3015.0	3021.8	3046.8	3021.8	3053.6	3065.0	3033.2	3053.6
12.5°	3001.4	2985.5	2981.0	2990.0	3012.7	2990.0	3021.8	3033.2	3001.4	3021.8
15°	2958.3	2942.4	2940.1	2953.7	2974.2	2953.7	2985.5	2994.6	2962.8	2983.2
17.5°	2906.0	2890.1	2892.4	2908.3	2924.2	2906.0	2935.6	2944.6	2915.1	2931.0
20°	2849.3	2831.1	2835.7	2849.3	2862.9	2844.7	2874.3	2883.3	2856.1	2872.0
22.5°	2783.4	2765.3	2769.8	2785.7	2794.8	2778.9	2806.1	2815.2	2792.5	2808.4
25°	2710.8	2694.9	2701.7	2717.6	2724.4	2710.8	2735.8	2742.6	2722.1	2735.8
27.5°	2638.1	2620.0	2629.1	2645.0	2649.5	2635.9	2660.8	2665.4	2645.0	2658.6
30°	2556.4	2538.2	2549.6	2567.8	2567.8	2558.7	2579.1	2583.7	2567.8	2579.1
32.5°	2465.6	2452.0	2465.6	2481.5	2479.2	2472.4	2492.8	2497.4	2483.8	2492.8
35°	2374.8	2363.4	2377.1	2392.9	2390.7	2383.9	2404.3	2406.6	2395.2	2404.3
37.5°	2281.7	2272.6	2286.2	2299.9	2295.3	2290.8	2308.9	2308.9	2302.1	2311.2
40°	2186.3	2177.3	2188.6	2204.5	2195.4	2195.4	2206.8	2211.3	2204.5	2213.6
42.5°	2086.4	2077.4	2091.0	2104.6	2095.5	2093.3	2106.9	2109.2	2104.6	2111.4
45°	1982.0	1972.9	1986.6	1997.9	1988.8	1988.8	2000.2	2000.2	1997.9	2007.0
47.5°	1875.3	1868.5	1879.8	1891.2	1882.1	1888.9	1888.9	1888.9	1893.5	1891.2
50°	1766.3	1759.5	1768.6	1782.2	1770.9	1773.1	1777.7	1777.7	1780.0	1782.2
52.5°	1652.8	1643.7	1652.8	1668.7	1652.8	1659.6	1661.9	1664.2	1671.0	1666.4
55°	1539.3	1530.2	1539.3	1552.9	1537.0	1546.1	1546.1	1548.4	1555.2	1550.6
57.5°	1421.2	1412.2	1425.8	1434.9	1419.0	1428.0	1428.0	1432.6	1437.1	1430.3
60°	1303.2	1296.4	1300.9	1316.8	1300.9	1310.0	1310.0	1310.0	1319.1	1312.3
62.5°	1182.8	1178.3	1182.8	1196.5	1180.6	1189.7	1187.4	1189.7	1198.7	1196.5
65°	1060.3	1055.7	1060.3	1073.9	1058.0	1067.1	1067.1	1069.3	1076.1	1067.1
67.5°	939.9	933.1	939.9	951.3	937.7	944.5	944.5	944.5	955.8	951.3
70°	817.3	812.8	817.3	828.7	817.3	821.9	821.9	821.9	833.2	835.5
72.5°	697.0	697.0	701.5	710.6	701.5	710.6	703.8	699.3	715.2	717.4
75°	578.9	581.2	583.5	592.6	583.5	592.6	588.0	583.5	597.1	599.4
77.5°	470.0	470.0	472.2	479.0	472.2	479.0	474.5	474.5	483.6	481.3
80°	358.7	358.7	361.0	367.8	361.0	367.8	363.3	363.3	372.3	363.3
82.5°	261.1	261.1	261.1	267.9	263.4	267.9	265.6	261.1	272.4	263.4
85°	168.0	170.3	170.3	172.5	170.3	172.5	172.5	170.3	177.1	170.3
87.5°	86.3	86.3	86.3	88.5	86.3	86.3	88.5	86.3	90.8	88.5
90°	15.9	13.6	13.6	18.2	15.9	15.9	18.2	13.6	15.9	13.6
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1
95°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.8
97.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5
100°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
102.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
105°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	2.3	2.3
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	2.3	0.0	0.0	0.0	2.3



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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	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.3	2.3	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°	2.3	2.3	2.3	2.3	0.0	2.3	0.0	0.0	0.0	0.0
140°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
142.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0
145°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
157.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
160°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
162.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
165°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
167.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
170°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
172.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
175°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
177.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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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	19.84	21.47	20.21	21.79	22.11	19.97	21.61	20.34	21.93	22.24
	3H	21.66	23.14	22.04	23.47	23.83	21.81	23.29	22.19	23.62	23.98
	4H	22.32	23.72	22.72	24.07	24.45	22.52	23.91	22.91	24.26	24.64
	6H	22.78	24.07	23.19	24.44	24.83	23.07	24.37	23.49	24.73	25.13
	8H	22.91	24.15	23.34	24.54	24.94	23.27	24.50	23.69	24.89	25.30
	12H	23.01	24.20	23.44	24.58	25.01	23.41	24.59	23.84	24.98	25.41
4H	2H	20.47	21.87	20.87	22.22	22.60	20.58	21.98	20.98	22.33	22.70
	3H	22.51	23.69	22.92	24.08	24.49	22.65	23.82	23.06	24.22	24.62
	4H	23.31	24.37	23.74	24.78	25.22	23.49	24.55	23.93	24.97	25.41
	6H	23.88	24.81	24.34	25.25	25.71	24.19	25.11	24.64	25.56	26.01
	8H	24.07	24.94	24.53	25.39	25.85	24.43	25.30	24.89	25.74	26.21
	12H	24.22	25.00	24.70	25.47	25.95	24.62	25.41	25.11	25.88	26.35
8H	4H	23.64	24.51	24.10	24.95	25.42	23.80	24.67	24.26	25.12	25.58
	6H	24.34	25.06	24.83	25.55	26.03	24.63	25.35	25.12	25.84	26.32
	8H	24.60	25.25	25.11	25.76	26.25	24.96	25.61	25.47	26.12	26.60
	12H	24.82	25.39	25.33	25.89	26.45	25.24	25.82	25.75	26.31	26.87
12H	4H	23.68	24.46	24.16	24.94	25.41	23.83	24.62	24.32	25.09	25.56
	6H	24.41	25.06	24.92	25.57	26.06	24.68	25.34	25.19	25.84	26.33
	8H	24.74	25.31	25.24	25.80	26.37	25.08	25.65	25.59	26.15	26.71