

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: P894431

Luminaire Tested: 8TMB-10SL-RND-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894431
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-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

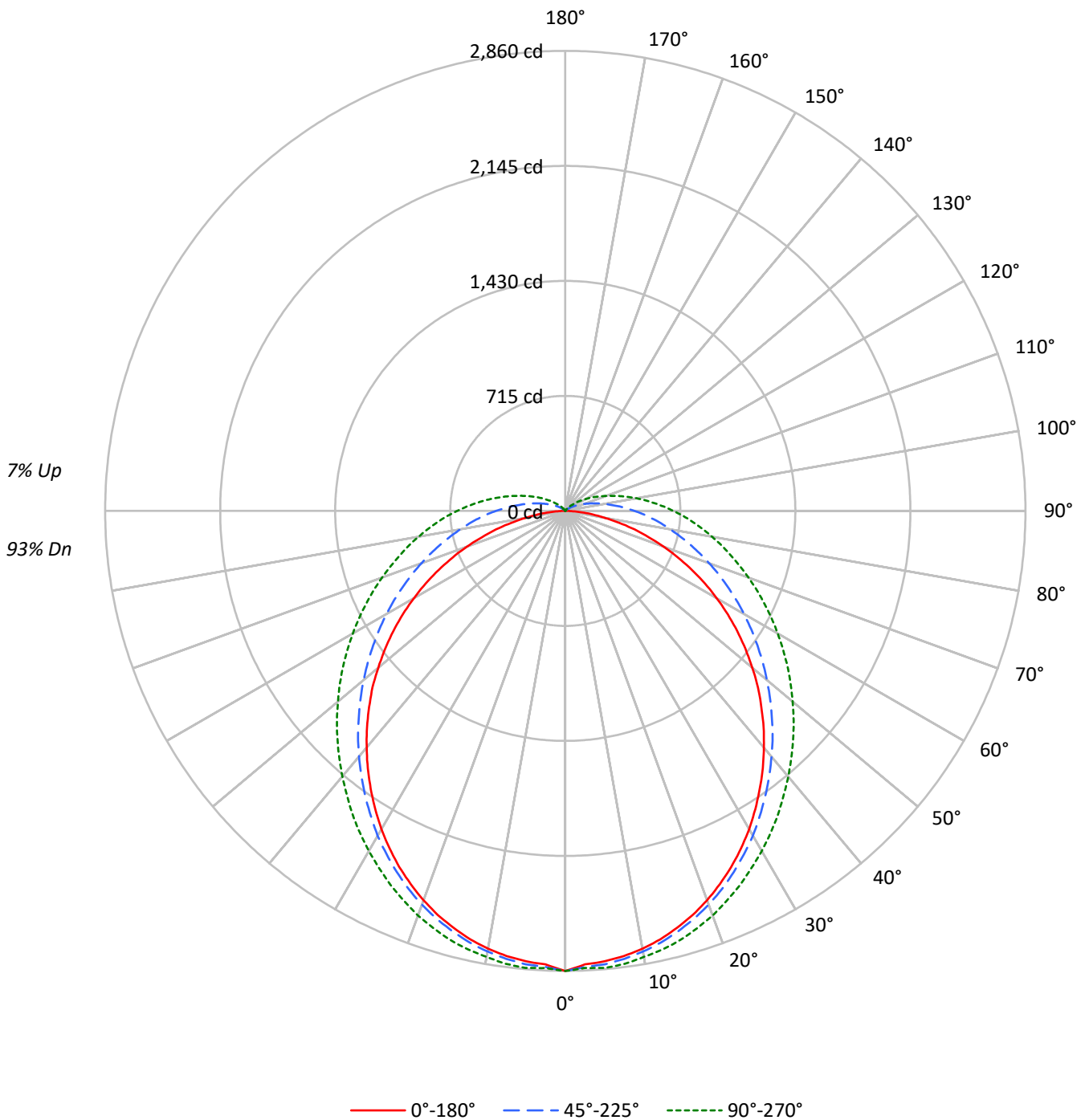
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9468.9 lumens
Efficiency: N/A
Efficacy: 135.3 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	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°	10149	10149	10149
5°	10012	10076	10156
10°	9959	10023	10144
15°	9857	9940	10145
20°	9727	9837	10107
25°	9559	9700	10050
30°	9362	9555	10004
35°	9132	9384	9985
40°	8894	9237	9983
45°	8648	9108	10051
50°	8376	9031	10180
55°	8071	9013	10425
60°	7719	9101	10816
65°	7291	9339	11463
70°	6757	9868	12561
75°	6106	10985	14574
80°	5167	13537	18933
85°	4193	22049	32438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 59714 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	2.9
10°-20°	770.7	8.1
20°-30°	1154.1	12.2
30°-40°	1376.0	14.5
40°-50°	1427.1	15.1
50°-60°	1324.0	14.0
60°-70°	1104.5	11.7
70°-80°	823.5	8.7
80°-90°	548.3	5.8
90°-100°	333.8	3.5
100°-110°	186.4	2.0
110°-120°	93.1	1.0
120°-130°	38.9	0.4
130°-140°	12.2	0.1
140°-150°	3.0	0.0
150°-160°	1.3	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	2195.3	23.2
0°-40°	3571.3	37.7
0°-60°	6322.5	66.8
0°-90°	8798.9	92.9
90°-120°	613.3	6.5
90°-150°	667.5	7.0
90°-180°	670.0	7.1
0°-180°	9468.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2860	2860	2860	2860	2860	
5°	2811	2876	2829	2845	2851	267
15°	2684	2753	2706	2755	2762	757
25°	2442	2507	2478	2547	2567	1124
35°	2108	2164	2166	2274	2305	1319
45°	1723	1768	1815	1958	2003	1330
55°	1305	1350	1457	1627	1685	1166
65°	868	938	1112	1300	1365	859
75°	445	568	801	996	1063	471
85°	103	282	542	727	797	116
90°	4	186	430	606	671	8
95°	0	114	331	497	555	0
105°	0	36	181	307	354	0
115°	2	9	85	172	206	2
125°	2	2	34	83	103	2
135°	2	2	9	29	38	2
145°	2	2	2	7	9	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: P894431
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3
2.5°	2822.3	2826.8	2867.1	2864.8	2858.1	2885.0	2891.7	2869.3	2833.5	2869.3	2838.0
5°	2811.1	2815.6	2855.9	2853.6	2846.9	2876.0	2878.2	2858.1	2822.3	2858.1	2829.0
7.5°	2791.0	2795.4	2835.7	2833.5	2829.0	2858.1	2855.9	2840.2	2802.1	2840.2	2808.9
10°	2764.1	2766.3	2808.9	2804.4	2802.1	2831.2	2824.5	2811.1	2773.0	2811.1	2782.0
12.5°	2728.3	2730.5	2773.0	2768.6	2768.6	2795.4	2786.5	2775.3	2737.2	2773.0	2748.4
15°	2683.5	2685.8	2726.0	2723.8	2723.8	2752.9	2739.5	2730.5	2694.7	2732.8	2705.9
17.5°	2634.3	2632.0	2674.6	2670.1	2674.6	2701.4	2683.5	2679.0	2645.5	2681.3	2658.9
20°	2576.1	2576.1	2614.1	2611.9	2618.6	2643.2	2620.9	2623.1	2589.5	2627.6	2605.2
22.5°	2511.2	2508.9	2547.0	2547.0	2553.7	2578.3	2553.7	2560.4	2526.9	2562.7	2544.8
25°	2441.8	2437.3	2475.4	2475.4	2486.6	2506.7	2479.9	2488.8	2457.5	2493.3	2477.6
27.5°	2365.7	2359.0	2397.0	2399.3	2408.2	2428.4	2399.3	2412.7	2383.6	2417.2	2406.0
30°	2285.1	2278.4	2316.5	2318.7	2329.9	2345.6	2316.5	2334.4	2307.5	2341.1	2332.1
32.5°	2197.8	2193.4	2229.2	2233.7	2244.8	2256.0	2229.2	2247.1	2224.7	2258.3	2249.3
35°	2108.3	2103.8	2137.4	2144.1	2155.3	2164.3	2135.2	2159.8	2139.7	2171.0	2166.5
37.5°	2016.6	2009.8	2045.7	2050.1	2063.6	2068.0	2041.2	2070.3	2052.4	2083.7	2081.5
40°	1920.3	1913.6	1949.4	1953.9	1967.3	1967.3	1944.9	1976.3	1962.8	1991.9	1994.2
42.5°	1824.1	1817.4	1848.7	1857.7	1868.8	1868.8	1846.5	1880.0	1871.1	1900.2	1906.9
45°	1723.4	1716.6	1745.7	1754.7	1768.1	1768.1	1745.7	1783.8	1777.1	1806.2	1815.1
47.5°	1624.9	1615.9	1642.8	1651.7	1665.2	1662.9	1645.0	1683.1	1680.8	1709.9	1725.6
50°	1517.5	1510.7	1537.6	1546.6	1562.2	1557.7	1544.3	1584.6	1584.6	1613.7	1636.1
52.5°	1412.3	1405.5	1432.4	1441.4	1454.8	1454.8	1441.4	1483.9	1490.6	1519.7	1546.6
55°	1304.8	1295.9	1322.7	1331.7	1347.4	1349.6	1338.4	1380.9	1394.4	1427.9	1457.0
57.5°	1197.4	1192.9	1215.3	1224.3	1244.4	1244.4	1237.7	1282.5	1300.4	1336.2	1369.7
60°	1087.7	1083.3	1103.4	1114.6	1137.0	1141.4	1137.0	1184.0	1208.6	1244.4	1282.5
62.5°	978.1	973.6	993.7	1009.4	1034.0	1038.5	1040.7	1090.0	1116.8	1154.9	1197.4
65°	868.4	863.9	884.1	902.0	931.1	937.8	944.5	996.0	1027.3	1067.6	1112.4
67.5°	758.7	756.5	776.6	799.0	830.3	839.3	850.5	904.2	940.0	982.5	1031.8
70°	651.3	649.1	669.2	696.1	734.1	745.3	758.7	812.4	857.2	902.0	951.2
72.5°	543.9	546.1	568.5	599.8	642.3	653.5	671.4	727.4	776.6	823.6	875.1
75°	445.4	445.4	470.0	505.8	552.8	568.5	588.6	646.8	698.3	747.5	801.3
77.5°	344.7	344.7	373.8	418.5	470.0	485.7	510.3	570.7	626.7	675.9	729.6
80°	252.9	257.4	291.0	335.7	389.4	409.6	438.7	499.1	559.5	608.8	662.5
82.5°	172.3	179.1	214.9	266.3	320.1	340.2	369.3	434.2	494.6	546.1	602.1
85°	103.0	114.1	152.2	203.7	259.6	282.0	313.3	373.8	434.2	485.7	541.6
87.5°	47.0	62.7	103.0	154.4	208.1	232.8	259.6	317.8	378.2	429.7	487.9
90°	4.5	26.9	67.1	111.9	163.4	185.8	212.6	268.6	326.8	373.8	429.7
92.5°	0.0	11.2	40.3	80.6	125.3	147.7	172.3	226.1	277.5	324.5	378.2
95°	0.0	4.5	22.4	56.0	94.0	114.1	136.5	185.8	237.2	282.0	331.2
97.5°	0.0	2.2	13.4	38.0	69.4	87.3	107.4	152.2	199.2	241.7	286.5
100°	0.0	2.2	6.7	24.6	51.5	64.9	85.0	123.1	165.6	203.7	248.4
102.5°	0.0	0.0	4.5	15.7	38.0	49.2	64.9	98.5	136.5	172.3	212.6
105°	0.0	0.0	2.2	11.2	26.9	35.8	49.2	78.3	111.9	143.2	181.3
107.5°	0.0	0.0	2.2	6.7	17.9	26.9	38.0	60.4	89.5	118.6	152.2
110°	2.2	2.2	2.2	4.5	13.4	20.1	26.9	47.0	73.9	98.5	127.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.2	2.2	2.2	2.2	9.0	13.4	20.1	35.8	58.2	78.3	105.2
115°	2.2	2.2	2.2	2.2	6.7	9.0	13.4	26.9	44.8	62.7	85.0
117.5°	2.2	2.2	2.2	2.2	4.5	6.7	9.0	20.1	33.6	49.2	69.4
120°	2.2	2.2	2.2	2.2	2.2	4.5	6.7	13.4	26.9	38.0	56.0
122.5°	2.2	2.2	2.2	2.2	2.2	4.5	4.5	11.2	20.1	29.1	42.5
125°	2.2	2.2	2.2	2.2	2.2	2.2	4.5	6.7	13.4	22.4	33.6
127.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.5	6.7	9.0	15.7	24.6
130°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	6.7	11.2	17.9
132.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	6.7	9.0	13.4
135°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	6.7	9.0
137.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5	6.7
140°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	4.5
142.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5
145°	2.2	4.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
147.5°	2.2	4.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
150°	2.2	4.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
152.5°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2	2.2
155°	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2
157.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2
160°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2
162.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2
165°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2	2.2
167.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2
170°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
172.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.2
175°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3
2.5°	2846.9	2853.6	2860.3	2842.4	2853.6	2873.8	2880.5	2853.6	2862.6	2844.7
5°	2838.0	2842.4	2851.4	2829.0	2844.7	2862.6	2873.8	2851.4	2864.8	2851.4
7.5°	2820.1	2824.5	2835.7	2813.3	2833.5	2849.1	2862.6	2840.2	2853.6	2840.2
10°	2793.2	2799.9	2815.6	2788.7	2813.3	2826.8	2840.2	2815.6	2829.0	2815.6
12.5°	2759.6	2770.8	2784.2	2759.6	2784.2	2795.4	2813.3	2788.7	2804.4	2793.2
15°	2719.3	2730.5	2748.4	2723.8	2755.1	2764.1	2782.0	2757.4	2773.0	2761.9
17.5°	2672.3	2685.8	2708.1	2679.0	2714.9	2721.6	2739.5	2717.1	2732.8	2721.6
20°	2618.6	2632.0	2654.4	2627.6	2663.4	2667.9	2688.0	2667.9	2683.5	2676.8
22.5°	2556.0	2571.6	2594.0	2569.4	2607.4	2607.4	2632.0	2611.9	2629.8	2623.1
25°	2491.0	2508.9	2533.6	2506.7	2547.0	2547.0	2573.9	2553.7	2571.6	2567.1
27.5°	2421.7	2441.8	2470.9	2444.0	2484.3	2482.1	2508.9	2491.0	2511.2	2504.5
30°	2347.8	2370.2	2399.3	2376.9	2419.4	2414.9	2441.8	2426.1	2444.0	2441.8
32.5°	2267.2	2291.9	2327.7	2303.0	2345.6	2341.1	2374.7	2356.8	2379.1	2374.7
35°	2186.7	2213.5	2249.3	2226.9	2273.9	2267.2	2300.8	2285.1	2307.5	2305.3
37.5°	2103.8	2132.9	2168.8	2150.8	2195.6	2188.9	2224.7	2211.3	2235.9	2229.2
40°	2018.8	2047.9	2085.9	2070.3	2117.3	2108.3	2146.4	2135.2	2159.8	2155.3
42.5°	1933.7	1965.1	2003.1	1994.2	2038.9	2030.0	2068.0	2059.1	2083.7	2079.2
45°	1846.5	1880.0	1920.3	1911.4	1958.4	1949.4	1987.5	1980.7	2005.4	2003.1
47.5°	1759.2	1795.0	1835.3	1830.8	1875.6	1866.6	1906.9	1900.2	1924.8	1924.8
50°	1669.6	1709.9	1750.2	1748.0	1792.7	1783.8	1819.6	1819.6	1846.5	1844.2
52.5°	1580.1	1622.6	1665.2	1665.2	1709.9	1701.0	1741.3	1739.0	1765.9	1765.9
55°	1495.1	1533.1	1575.6	1584.6	1627.1	1613.7	1656.2	1660.7	1683.1	1685.3
57.5°	1410.0	1450.3	1492.8	1504.0	1544.3	1535.4	1575.6	1580.1	1602.5	1604.7
60°	1325.0	1363.0	1405.5	1421.2	1461.5	1452.5	1492.8	1497.3	1521.9	1524.2
62.5°	1239.9	1278.0	1325.0	1340.6	1378.7	1372.0	1414.5	1419.0	1441.4	1445.8
65°	1157.1	1197.4	1242.2	1264.5	1300.4	1291.4	1333.9	1338.4	1363.0	1365.3
67.5°	1076.5	1116.8	1161.6	1186.2	1219.8	1215.3	1255.6	1264.5	1284.7	1289.2
70°	998.2	1038.5	1085.5	1110.1	1143.7	1141.4	1179.5	1186.2	1208.6	1210.8
72.5°	922.1	962.4	1009.4	1038.5	1067.6	1065.4	1103.4	1112.4	1134.7	1137.0
75°	848.3	890.8	935.5	966.9	996.0	993.7	1031.8	1040.7	1060.9	1063.1
77.5°	778.9	821.4	868.4	899.7	924.3	926.6	960.2	969.1	989.3	996.0
80°	714.0	754.3	799.0	832.6	855.0	859.4	890.8	902.0	917.6	926.6
82.5°	651.3	691.6	736.3	767.7	790.1	794.5	823.6	837.1	852.7	859.4
85°	590.9	631.2	673.7	707.3	727.4	729.6	758.7	772.2	785.6	796.8
87.5°	532.7	573.0	613.2	649.1	667.0	671.4	698.3	711.7	722.9	734.1
90°	474.5	514.8	555.1	588.6	606.5	608.8	637.9	651.3	662.5	671.4
92.5°	420.8	461.1	501.3	534.9	550.6	555.1	579.7	595.3	604.3	613.2
95°	369.3	409.6	445.4	481.2	496.9	503.6	526.0	539.4	550.6	555.1
97.5°	324.5	360.3	393.9	429.7	443.2	449.9	472.2	487.9	496.9	501.3
100°	282.0	315.6	346.9	380.5	393.9	400.6	420.8	434.2	443.2	449.9
102.5°	244.0	275.3	304.4	335.7	349.1	353.6	371.5	385.0	393.9	400.6
105°	210.4	239.5	266.3	295.4	306.6	313.3	329.0	340.2	349.1	353.6
107.5°	179.1	208.1	230.5	257.4	268.6	273.1	288.7	302.1	308.9	311.1
110°	152.2	176.8	199.2	221.6	235.0	239.5	252.9	264.1	270.8	273.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	127.6	150.0	170.1	190.2	201.4	205.9	219.3	230.5	235.0	237.2
115°	105.2	127.6	143.2	163.4	172.3	176.8	188.0	199.2	201.4	205.9
117.5°	85.0	105.2	120.9	136.5	145.5	150.0	158.9	167.9	172.3	174.6
120°	69.4	85.0	98.5	114.1	120.9	125.3	134.3	143.2	145.5	147.7
122.5°	56.0	69.4	80.6	94.0	100.7	105.2	111.9	118.6	120.9	123.1
125°	42.5	56.0	64.9	76.1	82.8	85.0	91.8	98.5	100.7	103.0
127.5°	33.6	42.5	51.5	60.4	64.9	67.1	73.9	78.3	80.6	82.8
130°	24.6	31.3	38.0	47.0	51.5	53.7	58.2	62.7	64.9	64.9
132.5°	17.9	24.6	29.1	35.8	38.0	40.3	44.8	49.2	49.2	51.5
135°	11.2	15.7	20.1	24.6	29.1	29.1	33.6	35.8	38.0	38.0
137.5°	9.0	11.2	13.4	17.9	20.1	22.4	22.4	26.9	26.9	26.9
140°	6.7	9.0	9.0	11.2	13.4	15.7	15.7	17.9	17.9	17.9
142.5°	4.5	6.7	6.7	9.0	9.0	11.2	11.2	11.2	13.4	13.4
145°	4.5	4.5	4.5	6.7	6.7	6.7	6.7	9.0	9.0	9.0
147.5°	2.2	2.2	4.5	4.5	4.5	4.5	4.5	6.7	6.7	6.7
150°	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5	4.5	4.5
152.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
155°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
165°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
167.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
170°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
172.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
175°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
177.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



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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	18.34	19.88	18.81	20.33	20.82	19.91	21.45	20.38	21.90	22.39
	3H	20.02	21.42	20.50	21.89	22.41	22.54	23.94	23.02	24.41	24.93
	4H	20.61	21.94	21.12	22.43	22.97	23.85	25.18	24.35	25.66	26.20
	6H	21.01	22.25	21.53	22.75	23.31	25.25	26.49	25.77	26.99	27.55
	8H	21.13	22.32	21.66	22.84	23.40	26.00	27.19	26.53	27.71	28.27
	12H	21.20	22.34	21.74	22.86	23.45	26.85	27.99	27.39	28.51	29.10
4H	2H	19.27	20.60	19.77	21.08	21.62	20.46	21.79	20.97	22.28	22.82
	3H	21.25	22.38	21.76	22.91	23.47	23.38	24.51	23.89	25.04	25.60
	4H	22.02	23.06	22.56	23.60	24.20	24.90	25.94	25.44	26.48	27.08
	6H	22.60	23.52	23.16	24.09	24.70	26.54	27.47	27.10	28.03	28.64
	8H	22.78	23.65	23.35	24.21	24.84	27.43	28.29	27.99	28.86	29.48
	12H	22.91	23.70	23.49	24.29	24.92	28.43	29.22	29.01	29.81	30.44
8H	4H	22.90	23.77	23.46	24.33	24.95	25.26	26.13	25.82	26.69	27.32
	6H	23.78	24.52	24.38	25.12	25.75	27.16	27.90	27.76	28.51	29.14
	8H	24.13	24.80	24.74	25.41	26.05	28.25	28.91	28.85	29.53	30.17
	12H	24.40	25.00	25.01	25.60	26.31	29.51	30.11	30.12	30.71	31.42
12H	4H	23.18	23.97	23.76	24.56	25.18	25.30	26.09	25.89	26.69	27.31
	6H	24.23	24.90	24.84	25.51	26.15	27.27	27.94	27.88	28.56	29.20
	8H	24.75	25.34	25.36	25.95	26.66	28.47	29.07	29.08	29.67	30.38