

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: P894545

Luminaire Tested: 8TMB-12SL-RND-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894545
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-12SL-RND-UNV-L930
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

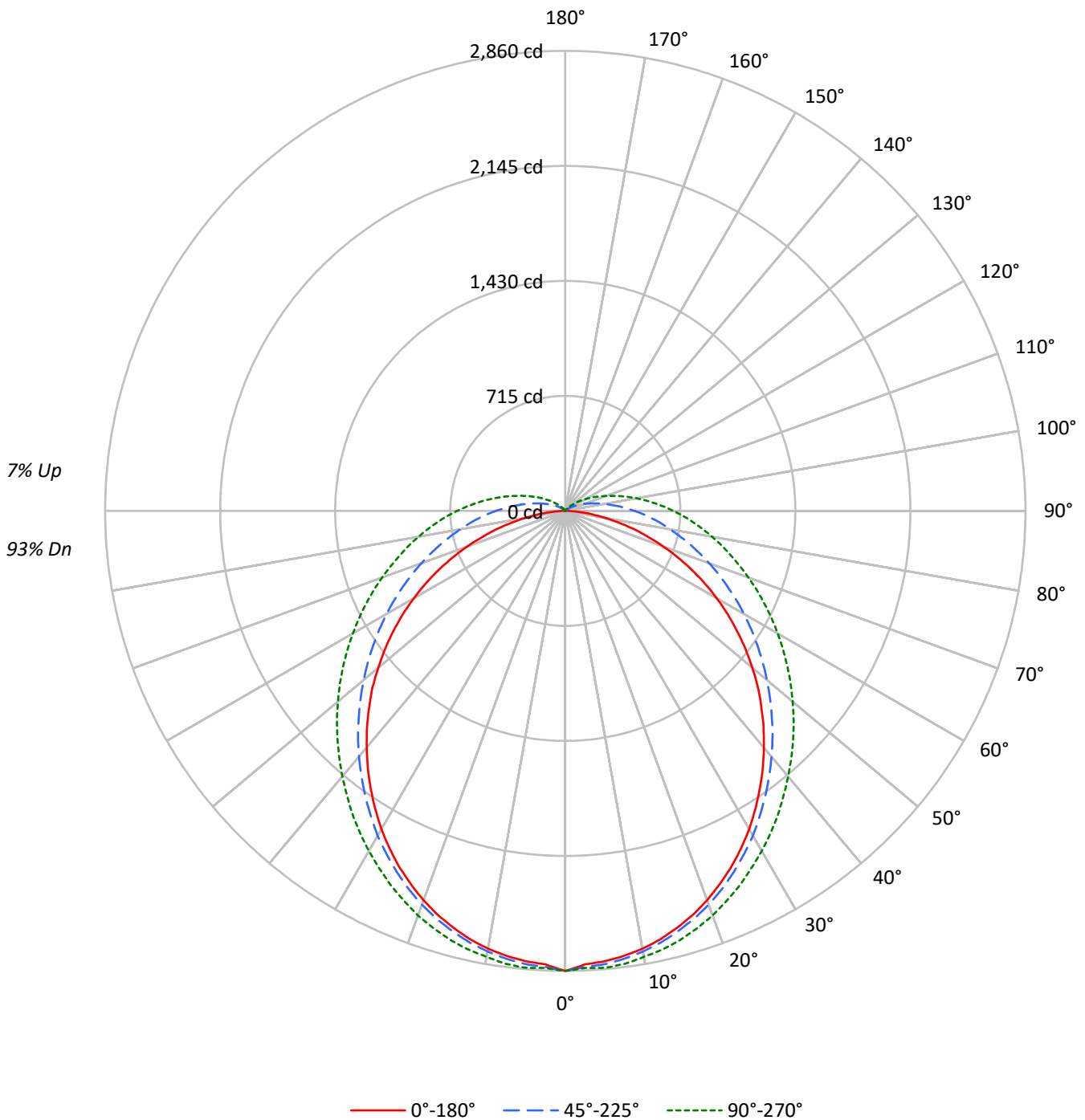
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9468.0 lumens
Efficiency: N/A
Efficacy: 106.6 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): 88.8
Input Voltage (V): 120
Input Current (Ain): 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				
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°	10148	10148	10148
5°	10011	10075	10155
10°	9958	10022	10143
15°	9856	9938	10144
20°	9726	9836	10106
25°	9558	9699	10049
30°	9361	9554	10003
35°	9131	9383	9984
40°	8893	9236	9982
45°	8647	9107	10050
50°	8375	9030	10179
55°	8071	9012	10424
60°	7718	9100	10815
65°	7290	9338	11461
70°	6756	9867	12560
75°	6105	10984	14573
80°	5167	13535	18931
85°	4189	22049	32434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 59706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	2.9
10°-20°	770.6	8.1
20°-30°	1153.9	12.2
30°-40°	1375.9	14.5
40°-50°	1427.0	15.1
50°-60°	1323.9	14.0
60°-70°	1104.4	11.7
70°-80°	823.4	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°	2195.1	23.2
0°-40°	3571.0	37.7
0°-60°	6321.8	66.8
0°-90°	8798.0	92.9
90°-120°	613.3	6.5
90°-150°	667.4	7.0
90°-180°	670.0	7.1
0°-180°	9468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2860	2860	2860	2860	2860	
5°	2811	2876	2829	2844	2851	267
15°	2683	2753	2706	2755	2762	757
25°	2442	2506	2477	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: P894545
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0
2.5°	2822.0	2826.5	2866.7	2864.5	2857.8	2884.7	2891.4	2869.0	2833.2	2869.0	2837.7
5°	2810.8	2815.3	2855.6	2853.3	2846.6	2875.7	2877.9	2857.8	2822.0	2857.8	2828.7
7.5°	2790.7	2795.1	2835.4	2833.2	2828.7	2857.8	2855.6	2839.9	2801.8	2839.9	2808.6
10°	2763.8	2766.0	2808.6	2804.1	2801.8	2830.9	2824.2	2810.8	2772.8	2810.8	2781.7
12.5°	2728.0	2730.2	2772.8	2768.3	2768.3	2795.1	2786.2	2775.0	2737.0	2772.8	2748.1
15°	2683.2	2685.5	2725.8	2723.5	2723.5	2752.6	2739.2	2730.2	2694.4	2732.5	2705.6
17.5°	2634.0	2631.8	2674.3	2669.8	2674.3	2701.1	2683.2	2678.8	2645.2	2681.0	2658.6
20°	2575.8	2575.8	2613.9	2611.6	2618.3	2643.0	2620.6	2622.8	2589.2	2627.3	2604.9
22.5°	2510.9	2508.7	2546.7	2546.7	2553.4	2578.1	2553.4	2560.2	2526.6	2562.4	2544.5
25°	2441.5	2437.1	2475.1	2475.1	2486.3	2506.4	2479.6	2488.5	2457.2	2493.0	2477.4
27.5°	2365.5	2358.7	2396.8	2399.0	2408.0	2428.1	2399.0	2412.5	2383.4	2416.9	2405.7
30°	2284.9	2278.2	2316.2	2318.5	2329.7	2345.3	2316.2	2334.1	2307.3	2340.8	2331.9
32.5°	2197.6	2193.1	2228.9	2233.4	2244.6	2255.8	2228.9	2246.9	2224.5	2258.0	2249.1
35°	2108.1	2103.6	2137.2	2143.9	2155.1	2164.0	2135.0	2159.6	2139.4	2170.8	2166.3
37.5°	2016.3	2009.6	2045.4	2049.9	2063.3	2067.8	2041.0	2070.1	2052.2	2083.5	2081.2
40°	1920.1	1913.4	1949.2	1953.7	1967.1	1967.1	1944.7	1976.1	1962.6	1991.7	1994.0
42.5°	1823.9	1817.2	1848.5	1857.5	1868.6	1868.6	1846.3	1879.8	1870.9	1900.0	1906.7
45°	1723.2	1716.5	1745.6	1754.5	1767.9	1767.9	1745.6	1783.6	1776.9	1806.0	1814.9
47.5°	1624.7	1615.8	1642.6	1651.6	1665.0	1662.8	1644.9	1682.9	1680.7	1709.8	1725.4
50°	1517.3	1510.6	1537.4	1546.4	1562.1	1557.6	1544.2	1584.4	1584.4	1613.5	1635.9
52.5°	1412.1	1405.4	1432.3	1441.2	1454.6	1454.6	1441.2	1483.7	1490.4	1519.5	1546.4
55°	1304.7	1295.7	1322.6	1331.5	1347.2	1349.5	1338.3	1380.8	1394.2	1427.8	1456.9
57.5°	1197.3	1192.8	1215.2	1224.1	1244.3	1244.3	1237.6	1282.3	1300.2	1336.0	1369.6
60°	1087.6	1083.1	1103.3	1114.5	1136.9	1141.3	1136.9	1183.8	1208.5	1244.3	1282.3
62.5°	978.0	973.5	993.6	1009.3	1033.9	1038.4	1040.6	1089.9	1116.7	1154.8	1197.3
65°	868.3	863.8	884.0	901.9	931.0	937.7	944.4	995.9	1027.2	1067.5	1112.2
67.5°	758.6	756.4	776.6	798.9	830.3	839.2	850.4	904.1	939.9	982.4	1031.7
70°	651.2	649.0	669.1	696.0	734.0	745.2	758.6	812.4	857.1	901.9	951.1
72.5°	543.8	546.0	568.4	599.8	642.3	653.5	671.4	727.3	776.6	823.5	875.0
75°	445.3	445.3	470.0	505.8	552.8	568.4	588.6	646.8	698.2	747.5	801.2
77.5°	344.6	344.6	373.7	418.5	470.0	485.6	510.2	570.7	626.6	675.8	729.6
80°	252.9	257.4	290.9	335.7	389.4	409.5	438.6	499.1	559.5	608.7	662.4
82.5°	172.3	179.0	214.8	266.3	320.0	340.2	369.3	434.2	494.6	546.0	602.0
85°	102.9	114.1	152.2	203.6	259.6	282.0	313.3	373.7	434.2	485.6	541.6
87.5°	47.0	62.7	102.9	154.4	208.1	232.7	259.6	317.8	378.2	429.7	487.9
90°	4.5	26.9	67.1	111.9	163.4	185.7	212.6	268.5	326.7	373.7	429.7
92.5°	0.0	11.2	40.3	80.6	125.3	147.7	172.3	226.0	277.5	324.5	378.2
95°	0.0	4.5	22.4	55.9	94.0	114.1	136.5	185.7	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	203.6	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	55.9
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°	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0	2860.0
2.5°	2846.6	2853.3	2860.0	2842.1	2853.3	2873.5	2880.2	2853.3	2862.3	2844.4
5°	2837.7	2842.1	2851.1	2828.7	2844.4	2862.3	2873.5	2851.1	2864.5	2851.1
7.5°	2819.8	2824.2	2835.4	2813.0	2833.2	2848.8	2862.3	2839.9	2853.3	2839.9
10°	2792.9	2799.6	2815.3	2788.4	2813.0	2826.5	2839.9	2815.3	2828.7	2815.3
12.5°	2759.3	2770.5	2783.9	2759.3	2783.9	2795.1	2813.0	2788.4	2804.1	2792.9
15°	2719.0	2730.2	2748.1	2723.5	2754.9	2763.8	2781.7	2757.1	2772.8	2761.6
17.5°	2672.1	2685.5	2707.9	2678.8	2714.6	2721.3	2739.2	2716.8	2732.5	2721.3
20°	2618.3	2631.8	2654.1	2627.3	2663.1	2667.6	2687.7	2667.6	2683.2	2676.5
22.5°	2555.7	2571.3	2593.7	2569.1	2607.2	2607.2	2631.8	2611.6	2629.5	2622.8
25°	2490.8	2508.7	2533.3	2506.4	2546.7	2546.7	2573.6	2553.4	2571.3	2566.9
27.5°	2421.4	2441.5	2470.6	2443.8	2484.1	2481.8	2508.7	2490.8	2510.9	2504.2
30°	2347.6	2369.9	2399.0	2376.6	2419.2	2414.7	2441.5	2425.9	2443.8	2441.5
32.5°	2267.0	2291.6	2327.4	2302.8	2345.3	2340.8	2374.4	2356.5	2378.9	2374.4
35°	2186.4	2213.3	2249.1	2226.7	2273.7	2267.0	2300.6	2284.9	2307.3	2305.0
37.5°	2103.6	2132.7	2168.5	2150.6	2195.4	2188.7	2224.5	2211.0	2235.7	2228.9
40°	2018.6	2047.7	2085.7	2070.1	2117.1	2108.1	2146.1	2135.0	2159.6	2155.1
42.5°	1933.5	1964.9	2002.9	1994.0	2038.7	2029.8	2067.8	2058.9	2083.5	2079.0
45°	1846.3	1879.8	1920.1	1911.2	1958.2	1949.2	1987.3	1980.5	2005.2	2002.9
47.5°	1759.0	1794.8	1835.1	1830.6	1875.4	1866.4	1906.7	1900.0	1924.6	1924.6
50°	1669.5	1709.8	1750.0	1747.8	1792.6	1783.6	1819.4	1819.4	1846.3	1844.0
52.5°	1580.0	1622.5	1665.0	1665.0	1709.8	1700.8	1741.1	1738.8	1765.7	1765.7
55°	1494.9	1533.0	1575.5	1584.4	1627.0	1613.5	1656.0	1660.5	1682.9	1685.1
57.5°	1409.9	1450.2	1492.7	1503.9	1544.2	1535.2	1575.5	1580.0	1602.3	1604.6
60°	1324.8	1362.9	1405.4	1421.1	1461.3	1452.4	1492.7	1497.2	1521.8	1524.0
62.5°	1239.8	1277.8	1324.8	1340.5	1378.5	1371.8	1414.4	1418.8	1441.2	1445.7
65°	1157.0	1197.3	1242.0	1264.4	1300.2	1291.3	1333.8	1338.3	1362.9	1365.1
67.5°	1076.4	1116.7	1161.5	1186.1	1219.7	1215.2	1255.5	1264.4	1284.6	1289.0
70°	998.1	1038.4	1085.4	1110.0	1143.6	1141.3	1179.4	1186.1	1208.5	1210.7
72.5°	922.0	962.3	1009.3	1038.4	1067.5	1065.2	1103.3	1112.2	1134.6	1136.9
75°	848.2	890.7	935.4	966.8	995.9	993.6	1031.7	1040.6	1060.8	1063.0
77.5°	778.8	821.3	868.3	899.6	924.3	926.5	960.1	969.0	989.2	995.9
80°	713.9	754.2	798.9	832.5	854.9	859.4	890.7	901.9	917.5	926.5
82.5°	651.2	691.5	736.3	767.6	790.0	794.5	823.5	837.0	852.6	859.4
85°	590.8	631.1	673.6	707.2	727.3	729.6	758.6	772.1	785.5	796.7
87.5°	532.6	572.9	613.2	649.0	666.9	671.4	698.2	711.7	722.8	734.0
90°	474.4	514.7	555.0	588.6	606.5	608.7	637.8	651.2	662.4	671.4
92.5°	420.7	461.0	501.3	534.9	550.5	555.0	579.6	595.3	604.2	613.2
95°	369.3	409.5	445.3	481.1	496.8	503.5	525.9	539.3	550.5	555.0
97.5°	324.5	360.3	393.9	429.7	443.1	449.8	472.2	487.9	496.8	501.3
100°	282.0	315.5	346.9	380.4	393.9	400.6	420.7	434.2	443.1	449.8
102.5°	243.9	275.3	304.4	335.7	349.1	353.6	371.5	384.9	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°	179.0	208.1	230.5	257.4	268.5	273.0	288.7	302.1	308.8	311.1
110°	152.2	176.8	199.2	221.6	235.0	239.5	252.9	264.1	270.8	273.0



TEST NUMBER: P894545
 CATALOG NUMBER: 8TMB-12SL-RND-UNV-L930

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	127.6	149.9	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	120.8	136.5	145.5	149.9	158.9	167.8	172.3	174.6
120°	69.4	85.0	98.5	114.1	120.8	125.3	134.3	143.2	145.5	147.7
122.5°	55.9	69.4	80.6	94.0	100.7	105.2	111.9	118.6	120.8	123.1
125°	42.5	55.9	64.9	76.1	82.8	85.0	91.8	98.5	100.7	102.9
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



TEST NUMBER: P894545
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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	24.91	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	29.13
	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	26.68	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