

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: P894499

Luminaire Tested: 8TMB-12SL-FLT-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894499
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-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

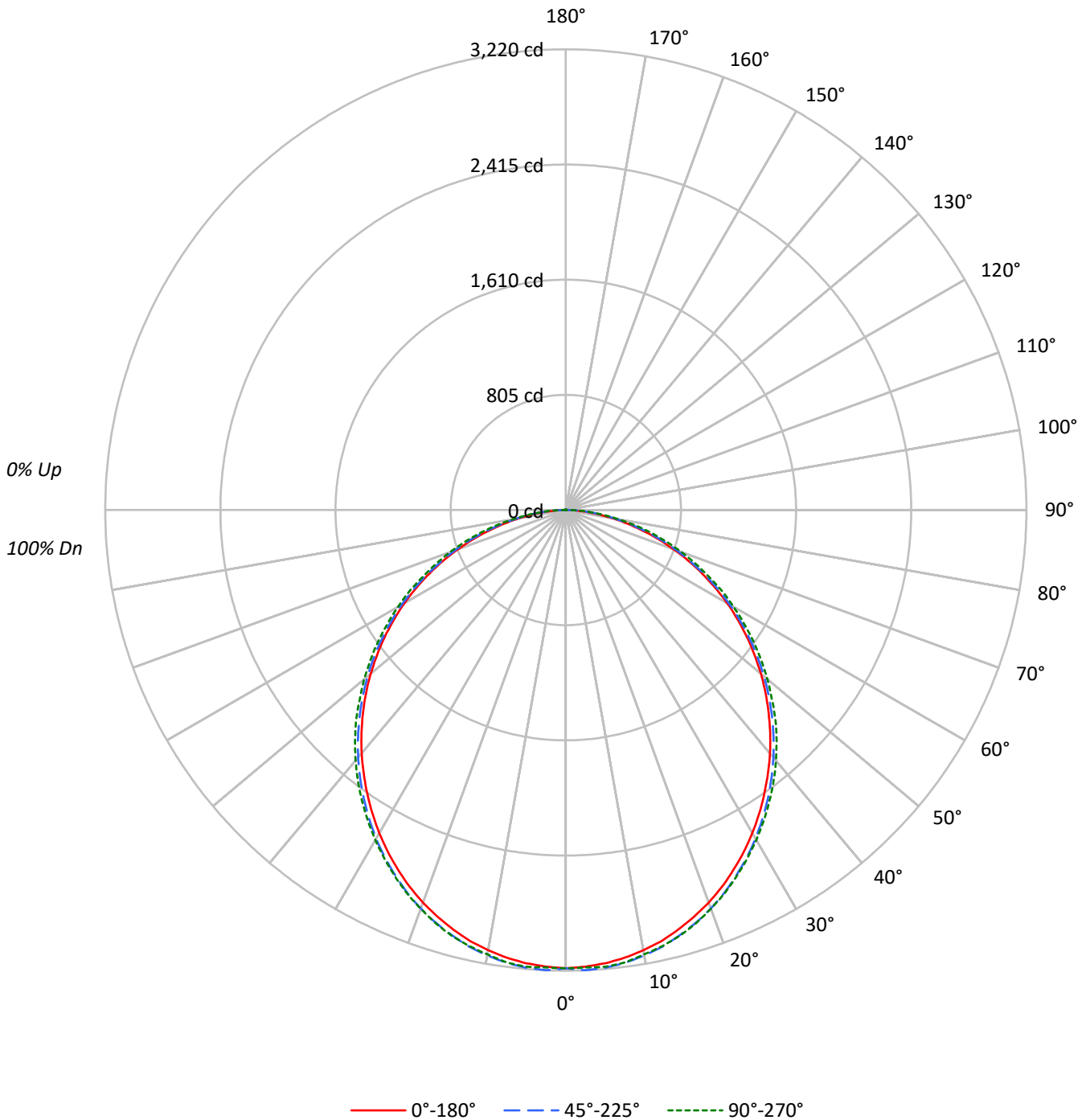
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8891.9 lumens
Efficiency: N/A
Efficacy: 100.1 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 (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	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°	11365	11365	11365
5°	11325	11434	11409
10°	11254	11389	11363
15°	11155	11301	11319
20°	11024	11192	11201
25°	10860	11035	11062
30°	10683	10866	10914
35°	10482	10665	10756
40°	10286	10459	10590
45°	10061	10225	10402
50°	9824	9980	10161
55°	9559	9705	9907
60°	9252	9402	9618
65°	8840	9017	9253
70°	8320	8563	8953
75°	7651	7973	8487
80°	6755	7282	7666
85°	5822	6681	7161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10402 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	3.4
10°-20°	863.4	9.7
20°-30°	1293.8	14.6
30°-40°	1539.4	17.3
40°-50°	1579.6	17.8
50°-60°	1415.1	15.9
60°-70°	1075.2	12.1
70°-80°	624.9	7.0
80°-90°	187.5	2.1
90°-100°	4.4	0.0
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°	2460.1	27.7
0°-40°	3999.5	45.0
0°-60°	6994.2	78.7
0°-90°	8881.9	99.9
90°-120°	5.3	0.1
90°-150°	7.9	0.1
90°-180°	10.0	0.1
0°-180°	8891.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3203	3203	3203	3203	3203	
5°	3180	3234	3210	3194	3203	302
15°	3037	3095	3077	3072	3081	856
25°	2774	2837	2819	2814	2826	1278
35°	2420	2479	2462	2469	2483	1514
45°	2005	2054	2038	2054	2073	1547
55°	1545	1583	1569	1588	1602	1380
65°	1053	1079	1074	1093	1102	1042
75°	558	579	582	603	619	592
85°	143	155	164	176	176	156
90°	2	9	9	16	14	10
95°	0	2	2	5	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°	5	5	5	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P894499
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2
2.5°	3193.9	3189.2	3193.9	3191.5	3215.0	3243.1	3238.4	3217.3	3193.9	3200.9	3219.7
5°	3179.8	3177.4	3184.5	3179.8	3203.2	3233.7	3224.3	3205.6	3184.5	3191.5	3210.3
7.5°	3156.3	3156.3	3165.7	3161.0	3182.1	3212.6	3203.2	3186.8	3165.7	3172.8	3191.5
10°	3123.5	3125.9	3137.6	3130.5	3149.3	3182.1	3172.8	3156.3	3137.6	3142.3	3161.0
12.5°	3086.0	3086.0	3100.1	3093.0	3111.8	3142.3	3130.5	3118.8	3100.1	3104.8	3125.9
15°	3036.7	3039.1	3055.5	3048.5	3064.9	3095.4	3083.6	3074.3	3057.9	3060.2	3076.6
17.5°	2980.5	2987.5	3003.9	2996.9	3013.3	3043.8	3029.7	3020.3	3006.3	3008.6	3025.0
20°	2919.5	2926.5	2942.9	2938.3	2950.0	2980.5	2966.4	2961.7	2947.6	2950.0	2964.1
22.5°	2851.5	2858.5	2877.3	2872.6	2884.3	2914.8	2898.4	2896.0	2882.0	2884.3	2896.0
25°	2774.1	2783.5	2804.6	2799.9	2809.3	2837.4	2823.4	2818.7	2809.3	2809.3	2818.7
27.5°	2694.4	2703.8	2727.2	2720.2	2727.2	2757.7	2741.3	2738.9	2729.6	2729.6	2738.9
30°	2607.6	2617.0	2642.8	2635.8	2642.8	2668.6	2652.2	2654.5	2645.1	2645.1	2652.2
32.5°	2516.2	2523.2	2551.3	2546.6	2551.3	2577.1	2560.7	2563.1	2553.7	2556.0	2558.4
35°	2420.0	2427.1	2457.5	2452.8	2455.2	2478.6	2466.9	2466.9	2459.9	2457.5	2462.2
37.5°	2321.5	2328.6	2366.1	2354.4	2354.4	2377.8	2368.4	2368.4	2361.4	2359.0	2361.4
40°	2220.7	2225.4	2265.2	2253.5	2251.2	2272.3	2265.2	2265.2	2260.6	2255.9	2258.2
42.5°	2115.2	2122.2	2162.1	2152.7	2143.3	2166.8	2159.7	2162.1	2155.0	2150.3	2150.3
45°	2005.0	2012.0	2051.9	2047.2	2033.1	2054.2	2047.2	2051.9	2042.5	2037.8	2037.8
47.5°	1894.7	1904.1	1941.6	1934.6	1920.5	1941.6	1934.6	1939.3	1929.9	1925.2	1925.2
50°	1779.8	1789.2	1829.1	1817.4	1803.3	1824.4	1819.7	1822.0	1815.0	1810.3	1808.0
52.5°	1662.6	1674.3	1711.8	1697.8	1686.0	1704.8	1702.5	1704.8	1695.4	1693.1	1690.7
55°	1545.3	1557.1	1592.2	1575.8	1566.4	1582.9	1578.2	1582.9	1573.5	1571.1	1568.8
57.5°	1423.4	1435.1	1468.0	1451.5	1444.5	1458.6	1456.2	1458.6	1451.5	1449.2	1446.9
60°	1303.8	1313.2	1343.7	1327.3	1320.2	1334.3	1329.6	1336.6	1327.3	1327.3	1324.9
62.5°	1177.2	1188.9	1219.4	1200.6	1195.9	1207.7	1203.0	1210.0	1205.3	1200.6	1198.3
65°	1052.9	1059.9	1088.1	1071.7	1064.6	1078.7	1076.3	1081.0	1074.0	1076.3	1074.0
67.5°	928.6	933.3	961.4	942.7	938.0	952.1	954.4	952.1	947.4	949.7	947.4
70°	802.0	806.7	830.1	813.7	811.4	823.1	827.8	825.4	820.7	823.1	825.4
72.5°	680.0	682.4	703.5	689.4	687.1	701.1	701.1	701.1	701.1	701.1	705.8
75°	558.1	560.4	579.2	567.5	565.1	579.2	579.2	579.2	579.2	583.9	581.6
77.5°	440.9	438.5	457.3	450.2	445.5	459.6	459.6	462.0	466.7	471.3	464.3
80°	330.6	328.3	342.4	333.0	333.0	347.1	344.7	347.1	351.7	354.1	356.4
82.5°	232.2	227.5	239.2	236.8	234.5	246.2	248.6	246.2	253.3	255.6	255.6
85°	143.0	143.0	150.1	145.4	145.4	154.8	154.8	157.1	161.8	164.1	164.1
87.5°	68.0	65.7	72.7	70.3	68.0	75.0	75.0	77.4	79.7	82.1	79.7
90°	2.3	2.3	4.7	4.7	4.7	9.4	9.4	9.4	11.7	11.7	9.4
92.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	4.7	4.7	4.7	4.7
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°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	2.3
170°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	2.3
172.5°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	2.3
175°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	4.7	4.7
177.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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°	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2
2.5°	3191.5	3175.1	3168.1	3172.8	3205.6	3172.8	3207.9	3219.7	3177.4	3200.9
5°	3182.1	3165.7	3156.3	3161.0	3193.9	3163.4	3200.9	3215.0	3179.8	3203.2
7.5°	3163.4	3144.6	3139.9	3147.0	3175.1	3149.3	3186.8	3200.9	3165.7	3189.2
10°	3135.2	3118.8	3114.1	3121.2	3147.0	3121.2	3154.0	3165.7	3132.9	3154.0
12.5°	3100.1	3083.6	3079.0	3088.3	3111.8	3088.3	3121.2	3132.9	3100.1	3121.2
15°	3055.5	3039.1	3036.7	3050.8	3071.9	3050.8	3083.6	3093.0	3060.2	3081.3
17.5°	3001.6	2985.2	2987.5	3003.9	3020.3	3001.6	3032.1	3041.4	3011.0	3027.4
20°	2942.9	2924.2	2928.9	2942.9	2957.0	2938.3	2968.7	2978.1	2950.0	2966.4
22.5°	2874.9	2856.2	2860.9	2877.3	2886.7	2870.3	2898.4	2907.8	2884.3	2900.7
25°	2799.9	2783.5	2790.5	2806.9	2814.0	2799.9	2825.7	2832.7	2811.6	2825.7
27.5°	2724.9	2706.1	2715.5	2731.9	2736.6	2722.5	2748.3	2753.0	2731.9	2746.0
30°	2640.4	2621.7	2633.4	2652.2	2652.2	2642.8	2663.9	2668.6	2652.2	2663.9
32.5°	2546.6	2532.6	2546.6	2563.1	2560.7	2553.7	2574.8	2579.5	2565.4	2574.8
35°	2452.8	2441.1	2455.2	2471.6	2469.3	2462.2	2483.3	2485.7	2474.0	2483.3
37.5°	2356.7	2347.3	2361.4	2375.5	2370.8	2366.1	2384.8	2384.8	2377.8	2387.2
40°	2258.2	2248.8	2260.6	2277.0	2267.6	2267.6	2279.3	2284.0	2277.0	2286.4
42.5°	2155.0	2145.7	2159.7	2173.8	2164.4	2162.1	2176.1	2178.5	2173.8	2180.8
45°	2047.2	2037.8	2051.9	2063.6	2054.2	2054.2	2065.9	2065.9	2063.6	2073.0
47.5°	1937.0	1929.9	1941.6	1953.4	1944.0	1951.0	1951.0	1951.0	1955.7	1953.4
50°	1824.4	1817.4	1826.7	1840.8	1829.1	1831.4	1836.1	1836.1	1838.5	1840.8
52.5°	1707.1	1697.8	1707.1	1723.6	1707.1	1714.2	1716.5	1718.9	1725.9	1721.2
55°	1589.9	1580.5	1589.9	1604.0	1587.5	1596.9	1596.9	1599.3	1606.3	1601.6
57.5°	1468.0	1458.6	1472.6	1482.0	1465.6	1475.0	1475.0	1479.7	1484.4	1477.3
60°	1346.0	1339.0	1343.7	1360.1	1343.7	1353.1	1353.1	1353.1	1362.4	1355.4
62.5°	1221.7	1217.0	1221.7	1235.8	1219.4	1228.8	1226.4	1228.8	1238.1	1235.8
65°	1095.1	1090.4	1095.1	1109.2	1092.8	1102.1	1102.1	1104.5	1111.5	1102.1
67.5°	970.8	963.8	970.8	982.5	968.5	975.5	975.5	975.5	987.2	982.5
70°	844.2	839.5	844.2	855.9	844.2	848.9	848.9	848.9	860.6	863.0
72.5°	719.9	719.9	724.6	734.0	724.6	734.0	726.9	722.3	738.7	741.0
75°	598.0	600.3	602.7	612.0	602.7	612.0	607.3	602.7	616.7	619.1
77.5°	485.4	485.4	487.8	494.8	487.8	494.8	490.1	490.1	499.5	497.1
80°	370.5	370.5	372.9	379.9	372.9	379.9	375.2	375.2	384.6	375.2
82.5°	269.7	269.7	269.7	276.7	272.0	276.7	274.4	269.7	281.4	272.0
85°	173.5	175.9	175.9	178.2	175.9	178.2	178.2	175.9	182.9	175.9
87.5°	89.1	89.1	89.1	91.5	89.1	89.1	91.5	89.1	93.8	91.5
90°	16.4	14.1	14.1	18.8	16.4	16.4	18.8	14.1	16.4	14.1
92.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.4	9.4
95°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	7.0
97.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.7	4.7
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



TEST NUMBER: P894499
 CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L940

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



TEST NUMBER: P894499
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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	19.95	21.59	20.32	21.90	22.22	20.09	21.72	20.45	22.04	22.36
	3H	21.77	23.26	22.15	23.58	23.95	21.92	23.40	22.30	23.73	24.09
	4H	22.44	23.83	22.84	24.18	24.56	22.63	24.02	23.03	24.37	24.75
	6H	22.89	24.18	23.30	24.55	24.94	23.19	24.48	23.60	24.85	25.24
	8H	23.03	24.26	23.45	24.66	25.06	23.38	24.62	23.81	25.01	25.41
	12H	23.12	24.31	23.55	24.69	25.12	23.52	24.71	23.95	25.09	25.52
4H	2H	20.59	21.98	20.99	22.33	22.71	20.69	22.09	21.09	22.44	22.82
	3H	22.63	23.80	23.04	24.20	24.60	22.76	23.93	23.17	24.33	24.73
	4H	23.42	24.48	23.85	24.90	25.33	23.61	24.67	24.04	25.08	25.52
	6H	24.00	24.92	24.45	25.37	25.82	24.30	25.23	24.75	25.67	26.13
	8H	24.18	25.05	24.65	25.50	25.97	24.54	25.41	25.00	25.86	26.32
	12H	24.33	25.11	24.81	25.59	26.06	24.74	25.52	25.22	26.00	26.47
8H	4H	23.75	24.62	24.21	25.06	25.53	23.91	24.78	24.38	25.23	25.70
	6H	24.45	25.18	24.95	25.67	26.14	24.74	25.46	25.23	25.95	26.43
	8H	24.72	25.37	25.23	25.87	26.36	25.07	25.72	25.58	26.23	26.72
	12H	24.93	25.51	25.44	26.00	26.56	25.35	25.93	25.86	26.42	26.98
12H	4H	23.79	24.57	24.27	25.05	25.52	23.95	24.73	24.43	25.21	25.68
	6H	24.52	25.17	25.03	25.68	26.17	24.80	25.45	25.31	25.96	26.44
	8H	24.85	25.42	25.36	25.92	26.48	25.19	25.77	25.70	26.26	26.82