

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: P894496

Luminaire Tested: 8TMB-12SL-FLT-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894496
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-L850
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

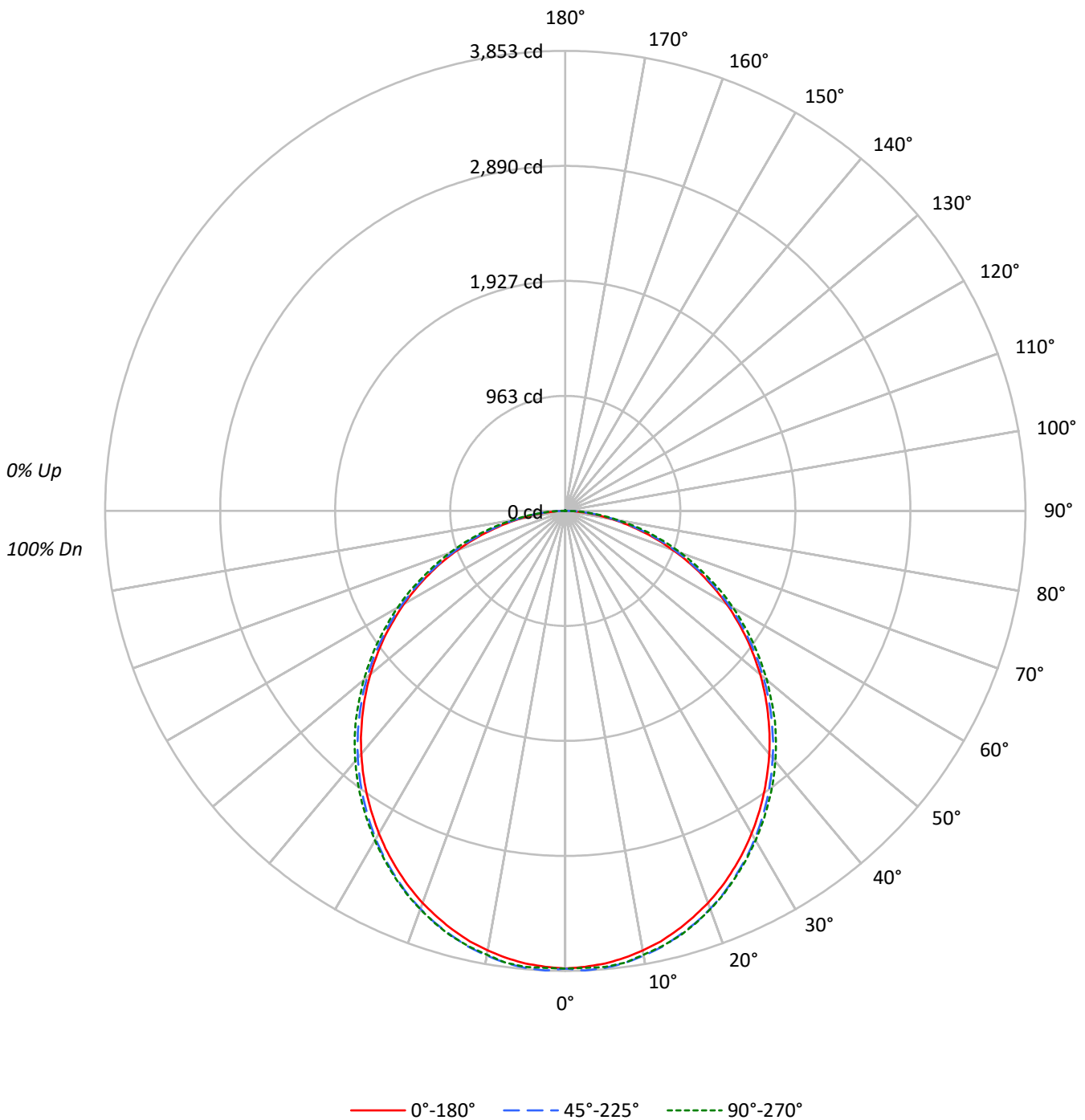
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10641.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

TEST NUMBER: P894496
CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L850

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°	13601	13601	13601
5°	13553	13683	13653
10°	13467	13629	13599
15°	13349	13524	13545
20°	13192	13393	13404
25°	12997	13205	13238
30°	12785	13003	13061
35°	12544	12763	12872
40°	12309	12517	12673
45°	12039	12236	12448
50°	11757	11943	12160
55°	11440	11614	11856
60°	11072	11251	11510
65°	10578	10790	11073
70°	9956	10247	10713
75°	9156	9540	10156
80°	8085	8715	9174
85°	6970	7996	8570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	3.4
10°-20°	1033.2	9.7
20°-30°	1548.3	14.5
30°-40°	1842.2	17.3
40°-50°	1890.3	17.8
50°-60°	1693.4	15.9
60°-70°	1286.7	12.1
70°-80°	747.9	7.0
80°-90°	224.4	2.1
90°-100°	5.3	0.1
100°-110°	0.9	0.0
110°-120°	0.0	0.0
120°-130°	0.4	0.0
130°-140°	1.1	0.0
140°-150°	1.7	0.0
150°-160°	1.3	0.0
160°-170°	0.9	0.0
170°-180°	0.4	0.0
0°-30°	2943.9	27.7
0°-40°	4786.2	45.0
0°-60°	8369.9	78.7
0°-90°	10628.9	99.9
90°-120°	6.3	0.1
90°-150°	9.5	0.1
90°-180°	12.0	0.1
0°-180°	10641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3833	3833	3833	3833	3833	
5°	3805	3870	3842	3822	3833	361
15°	3634	3704	3682	3676	3687	1025
25°	3320	3396	3373	3368	3382	1530
35°	2896	2966	2946	2955	2972	1812
45°	2399	2458	2439	2458	2481	1851
55°	1849	1894	1877	1900	1917	1652
65°	1260	1291	1285	1308	1319	1247
75°	668	693	696	721	741	708
85°	171	185	196	210	210	187
90°	3	11	11	20	17	12
95°	0	3	3	6	8	0
105°	0	0	0	3	3	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	2
135°	0	0	3	0	0	1
145°	3	3	3	3	3	2
155°	3	3	3	3	3	1
165°	3	3	3	3	3	1
175°	6	6	6	3	3	1
180°	3	3	3	3	3	



TEST NUMBER: P894496

CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3
2.5°	3822.1	3816.5	3822.1	3819.3	3847.3	3881.0	3875.4	3850.1	3822.1	3830.5	3852.9
5°	3805.2	3802.4	3810.8	3805.2	3833.3	3869.8	3858.6	3836.1	3810.8	3819.3	3841.7
7.5°	3777.2	3777.2	3788.4	3782.8	3808.0	3844.5	3833.3	3813.7	3788.4	3796.8	3819.3
10°	3737.9	3740.7	3754.7	3746.3	3768.8	3808.0	3796.8	3777.2	3754.7	3760.3	3782.8
12.5°	3693.0	3693.0	3709.8	3701.4	3723.9	3760.3	3746.3	3732.3	3709.8	3715.4	3740.7
15°	3634.1	3636.9	3656.5	3648.1	3667.7	3704.2	3690.2	3679.0	3659.3	3662.1	3681.8
17.5°	3566.7	3575.1	3594.8	3586.3	3606.0	3642.5	3625.6	3614.4	3597.6	3600.4	3620.0
20°	3493.7	3502.2	3521.8	3516.2	3530.2	3566.7	3549.9	3544.3	3527.4	3530.2	3547.1
22.5°	3412.4	3420.8	3443.2	3437.6	3451.7	3488.1	3468.5	3465.7	3448.8	3451.7	3465.7
25°	3319.8	3331.0	3356.2	3350.6	3361.9	3395.5	3378.7	3373.1	3361.9	3361.9	3373.1
27.5°	3224.3	3235.6	3263.6	3255.2	3263.6	3300.1	3280.5	3277.7	3266.4	3266.4	3277.7
30°	3120.5	3131.7	3162.6	3154.2	3162.6	3193.5	3173.8	3176.6	3165.4	3165.4	3173.8
32.5°	3011.1	3019.5	3053.2	3047.6	3053.2	3084.0	3064.4	3067.2	3056.0	3058.8	3061.6
35°	2896.0	2904.4	2940.9	2935.3	2938.1	2966.2	2952.1	2952.1	2943.7	2940.9	2946.5
37.5°	2778.2	2786.6	2831.5	2817.4	2817.4	2845.5	2834.3	2834.3	2825.9	2823.1	2825.9
40°	2657.5	2663.1	2710.8	2696.8	2694.0	2719.2	2710.8	2710.8	2705.2	2699.6	2702.4
42.5°	2531.2	2539.6	2587.3	2576.1	2564.9	2592.9	2584.5	2587.3	2578.9	2573.3	2573.3
45°	2399.3	2407.7	2455.4	2449.8	2433.0	2458.2	2449.8	2455.4	2444.2	2438.6	2438.6
47.5°	2267.4	2278.7	2323.5	2315.1	2298.3	2323.5	2315.1	2320.7	2309.5	2303.9	2303.9
50°	2129.9	2141.1	2188.9	2174.8	2158.0	2183.2	2177.6	2180.4	2172.0	2166.4	2163.6
52.5°	1989.6	2003.6	2048.5	2031.7	2017.7	2040.1	2037.3	2040.1	2028.9	2026.1	2023.3
55°	1849.3	1863.3	1905.4	1885.8	1874.6	1894.2	1888.6	1894.2	1883.0	1880.2	1877.4
57.5°	1703.4	1717.4	1756.7	1737.1	1728.6	1745.5	1742.7	1745.5	1737.1	1734.2	1731.4
60°	1560.3	1571.5	1608.0	1588.3	1579.9	1596.7	1591.1	1599.5	1588.3	1588.3	1585.5
62.5°	1408.7	1422.8	1459.2	1436.8	1431.2	1445.2	1439.6	1448.0	1442.4	1436.8	1434.0
65°	1260.0	1268.4	1302.1	1282.4	1274.0	1290.9	1288.1	1293.7	1285.2	1288.1	1285.2
67.5°	1111.3	1116.9	1150.6	1128.1	1122.5	1139.3	1142.1	1139.3	1133.7	1136.5	1133.7
70°	959.7	965.3	993.4	973.8	971.0	985.0	990.6	987.8	982.2	985.0	987.8
72.5°	813.8	816.6	841.9	825.0	822.2	839.1	839.1	839.1	839.1	839.1	844.7
75°	667.9	670.7	693.1	679.1	676.3	693.1	693.1	693.1	693.1	698.7	695.9
77.5°	527.6	524.8	547.2	538.8	533.2	550.0	550.0	552.8	558.4	564.1	555.6
80°	395.7	392.9	409.7	398.5	398.5	415.3	412.5	415.3	420.9	423.7	426.5
82.5°	277.8	272.2	286.2	283.4	280.6	294.7	297.5	294.7	303.1	305.9	305.9
85°	171.2	171.2	179.6	174.0	174.0	185.2	185.2	188.0	193.6	196.4	196.4
87.5°	81.4	78.6	87.0	84.2	81.4	89.8	89.8	92.6	95.4	98.2	95.4
90°	2.8	2.8	5.6	5.6	5.6	11.2	11.2	11.2	14.0	14.0	11.2
92.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	5.6	5.6	5.6	5.6
95°	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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	2.8



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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	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0	2.8
132.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0
135°	0.0	2.8	2.8	2.8	2.8	0.0	2.8	0.0	0.0	0.0	2.8
137.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
140°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
142.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
145°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
147.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
160°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
167.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8
170°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8
172.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8
175°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8	5.6	5.6
177.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3
2.5°	3819.3	3799.6	3791.2	3796.8	3836.1	3796.8	3838.9	3852.9	3802.4	3830.5
5°	3808.0	3788.4	3777.2	3782.8	3822.1	3785.6	3830.5	3847.3	3805.2	3833.3
7.5°	3785.6	3763.1	3757.5	3765.9	3799.6	3768.8	3813.7	3830.5	3788.4	3816.5
10°	3751.9	3732.3	3726.7	3735.1	3765.9	3735.1	3774.4	3788.4	3749.1	3774.4
12.5°	3709.8	3690.2	3684.6	3695.8	3723.9	3695.8	3735.1	3749.1	3709.8	3735.1
15°	3656.5	3636.9	3634.1	3650.9	3676.1	3650.9	3690.2	3701.4	3662.1	3687.4
17.5°	3592.0	3572.3	3575.1	3594.8	3614.4	3592.0	3628.4	3639.7	3603.2	3622.8
20°	3521.8	3499.4	3505.0	3521.8	3538.6	3516.2	3552.7	3563.9	3530.2	3549.9
22.5°	3440.4	3418.0	3423.6	3443.2	3454.5	3434.8	3468.5	3479.7	3451.7	3471.3
25°	3350.6	3331.0	3339.4	3359.0	3367.5	3350.6	3381.5	3389.9	3364.7	3381.5
27.5°	3260.8	3238.4	3249.6	3269.2	3274.9	3258.0	3288.9	3294.5	3269.2	3286.1
30°	3159.8	3137.4	3151.4	3173.8	3173.8	3162.6	3187.9	3193.5	3173.8	3187.9
32.5°	3047.6	3030.7	3047.6	3067.2	3064.4	3056.0	3081.2	3086.8	3070.0	3081.2
35°	2935.3	2921.3	2938.1	2957.8	2954.9	2946.5	2971.8	2974.6	2960.6	2971.8
37.5°	2820.3	2809.0	2825.9	2842.7	2837.1	2831.5	2853.9	2853.9	2845.5	2856.7
40°	2702.4	2691.2	2705.2	2724.8	2713.6	2713.6	2727.6	2733.3	2724.8	2736.1
42.5°	2578.9	2567.7	2584.5	2601.4	2590.1	2587.3	2604.2	2607.0	2601.4	2609.8
45°	2449.8	2438.6	2455.4	2469.5	2458.2	2458.2	2472.3	2472.3	2469.5	2480.7
47.5°	2317.9	2309.5	2323.5	2337.6	2326.4	2334.8	2334.8	2334.8	2340.4	2337.6
50°	2183.2	2174.8	2186.0	2202.9	2188.9	2191.7	2197.3	2197.3	2200.1	2202.9
52.5°	2042.9	2031.7	2042.9	2062.6	2042.9	2051.3	2054.2	2057.0	2065.4	2059.8
55°	1902.6	1891.4	1902.6	1919.5	1899.8	1911.0	1911.0	1913.8	1922.3	1916.6
57.5°	1756.7	1745.5	1762.3	1773.5	1753.9	1765.1	1765.1	1770.7	1776.3	1767.9
60°	1610.8	1602.4	1608.0	1627.6	1608.0	1619.2	1619.2	1619.2	1630.4	1622.0
62.5°	1462.0	1456.4	1462.0	1478.9	1459.2	1470.5	1467.7	1470.5	1481.7	1478.9
65°	1310.5	1304.9	1310.5	1327.3	1307.7	1318.9	1318.9	1321.7	1330.1	1318.9
67.5°	1161.8	1153.4	1161.8	1175.8	1159.0	1167.4	1167.4	1167.4	1181.4	1175.8
70°	1010.2	1004.6	1010.2	1024.3	1010.2	1015.9	1015.9	1015.9	1029.9	1032.7
72.5°	861.5	861.5	867.1	878.3	867.1	878.3	869.9	864.3	884.0	886.8
75°	715.6	718.4	721.2	732.4	721.2	732.4	726.8	721.2	738.0	740.8
77.5°	580.9	580.9	583.7	592.1	583.7	592.1	586.5	586.5	597.7	594.9
80°	443.4	443.4	446.2	454.6	446.2	454.6	449.0	449.0	460.2	449.0
82.5°	322.7	322.7	322.7	331.1	325.5	331.1	328.3	322.7	336.7	325.5
85°	207.7	210.5	210.5	213.3	210.5	213.3	213.3	210.5	218.9	210.5
87.5°	106.6	106.6	106.6	109.4	106.6	106.6	109.4	106.6	112.2	109.4
90°	19.6	16.8	16.8	22.4	19.6	19.6	22.4	16.8	19.6	16.8
92.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	11.2	11.2
95°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.4
97.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.6	5.6
100°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0	2.8	2.8
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	2.8	0.0	0.0	0.0	2.8



TEST NUMBER: P894496
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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	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.8	2.8	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°	2.8	2.8	2.8	2.8	0.0	2.8	0.0	0.0	0.0	0.0
140°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
142.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0
145°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
147.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
160°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
167.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
170°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
172.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
175°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
177.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



TEST NUMBER: P894496
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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	20.58	22.21	20.94	22.53	22.85	20.71	22.35	21.08	22.66	22.98
	3H	22.40	23.88	22.78	24.21	24.57	22.54	24.03	22.92	24.35	24.72
	4H	23.06	24.45	23.46	24.80	25.18	23.25	24.65	23.65	25.00	25.38
	6H	23.51	24.81	23.92	25.17	25.57	23.81	25.10	24.22	25.47	25.86
	8H	23.65	24.89	24.08	25.28	25.68	24.00	25.24	24.43	25.63	26.03
	12H	23.75	24.93	24.18	25.32	25.75	24.15	25.33	24.58	25.71	26.15
4H	2H	21.21	22.60	21.61	22.95	23.33	21.32	22.71	21.72	23.06	23.44
	3H	23.25	24.42	23.66	24.82	25.22	23.38	24.56	23.80	24.96	25.36
	4H	24.04	25.10	24.48	25.52	25.96	24.23	25.29	24.66	25.71	26.14
	6H	24.62	25.55	25.07	25.99	26.45	24.92	25.85	25.38	26.29	26.75
	8H	24.81	25.68	25.27	26.12	26.59	25.17	26.04	25.63	26.48	26.95
	12H	24.95	25.73	25.43	26.21	26.68	25.36	26.14	25.84	26.62	27.09
8H	4H	24.37	25.24	24.83	25.69	26.15	24.54	25.41	25.00	25.85	26.32
	6H	25.08	25.80	25.57	26.29	26.77	25.36	26.09	25.86	26.58	27.05
	8H	25.34	25.99	25.85	26.50	26.98	25.69	26.34	26.20	26.85	27.34
	12H	25.55	26.13	26.06	26.62	27.18	25.98	26.55	26.49	27.05	27.61
12H	4H	24.42	25.20	24.90	25.68	26.15	24.57	25.35	25.05	25.83	26.30
	6H	25.15	25.80	25.66	26.30	26.79	25.42	26.07	25.93	26.58	27.07
	8H	25.47	26.05	25.98	26.54	27.10	25.81	26.39	26.32	26.88	27.44