

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: P894494

Luminaire Tested: 8TMB-12SL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894494
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-L835
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

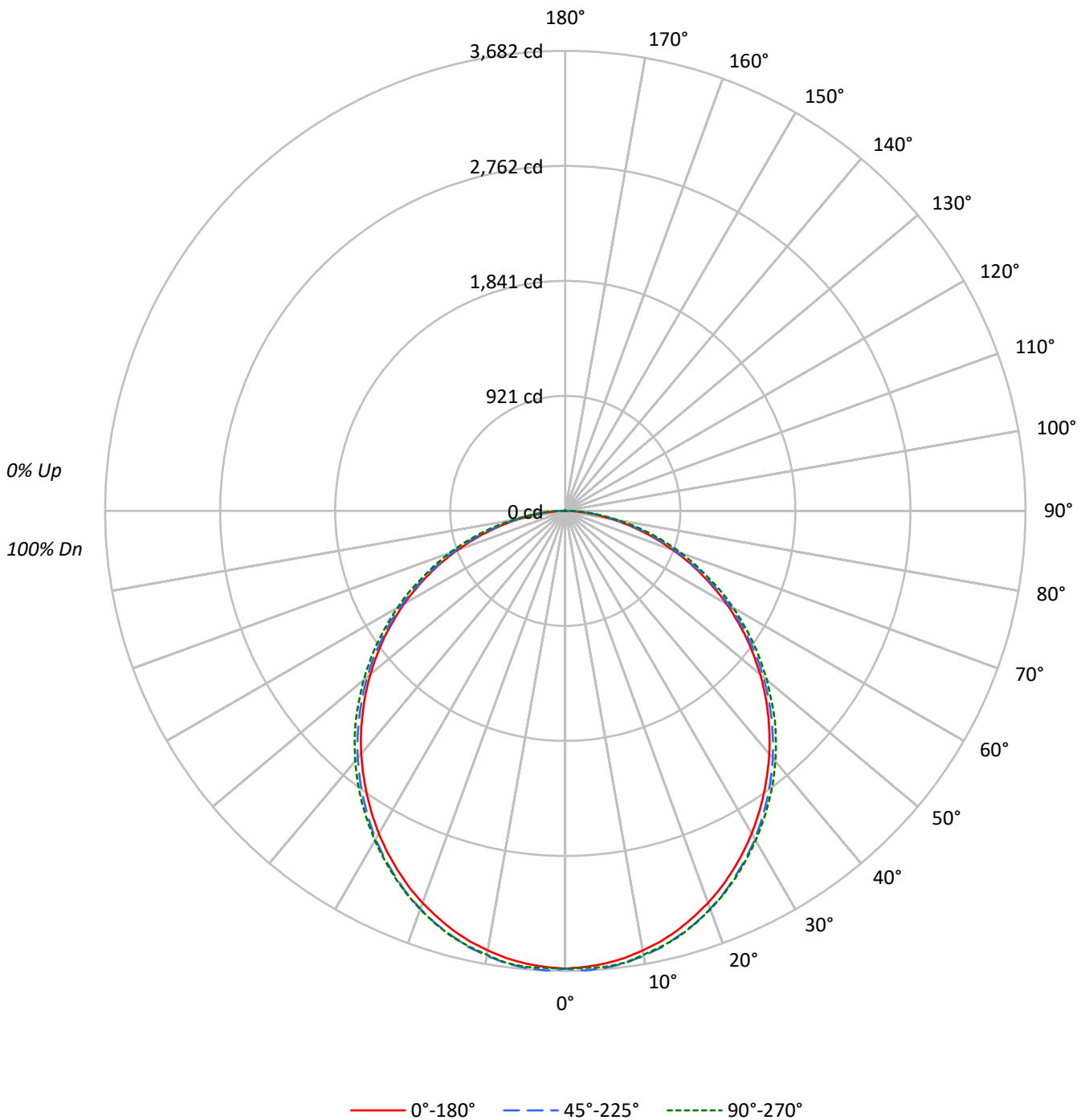
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10170.1 lumens
Efficiency: N/A
Efficacy: 114.5 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: P894494
CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L835

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°	12999	12999	12999
5°	12953	13077	13049
10°	12871	13025	12997
15°	12758	12926	12945
20°	12608	12800	12810
25°	12421	12621	12652
30°	12219	12428	12483
35°	11989	12198	12302
40°	11764	11963	12112
45°	11506	11695	11897
50°	11236	11414	11622
55°	10933	11100	11331
60°	10582	10753	11001
65°	10110	10313	10583
70°	9515	9794	10239
75°	8750	9118	9707
80°	7728	8330	8768
85°	6660	7641	8191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11897 cd/sqm



TEST NUMBER: P894494
 CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.5	3.4
10°-20°	987.4	9.7
20°-30°	1479.7	14.5
30°-40°	1760.7	17.3
40°-50°	1806.6	17.8
50°-60°	1618.5	15.9
60°-70°	1229.8	12.1
70°-80°	714.8	7.0
80°-90°	214.5	2.1
90°-100°	5.1	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°	1.6	0.0
150°-160°	1.2	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	2813.6	27.7
0°-40°	4574.3	45.0
0°-60°	7999.4	78.7
0°-90°	10158.5	99.9
90°-120°	6.1	0.1
90°-150°	9.2	0.1
90°-180°	12.0	0.1
0°-180°	10170.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3664	3664	3664	3664	3664	
5°	3637	3698	3672	3653	3664	345
15°	3473	3540	3519	3513	3524	979
25°	3173	3245	3224	3218	3232	1462
35°	2768	2835	2816	2824	2840	1732
45°	2293	2349	2331	2349	2371	1770
55°	1767	1810	1794	1816	1832	1579
65°	1204	1234	1228	1250	1260	1192
75°	638	662	665	689	708	677
85°	164	177	188	201	201	179
90°	3	11	11	19	16	11
95°	0	3	3	5	8	0
105°	0	0	0	3	3	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
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°	5	5	5	3	3	1
180°	3	3	3	3	3	



TEST NUMBER: P894494

CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6
2.5°	3652.9	3647.5	3652.9	3650.2	3677.0	3709.2	3703.9	3679.7	3652.9	3660.9	3682.4
5°	3636.8	3634.1	3642.2	3636.8	3663.6	3698.5	3687.8	3666.3	3642.2	3650.2	3671.7
7.5°	3610.0	3610.0	3620.7	3615.3	3639.5	3674.4	3663.6	3644.8	3620.7	3628.8	3650.2
10°	3572.4	3575.1	3588.5	3580.5	3601.9	3639.5	3628.8	3610.0	3588.5	3593.9	3615.3
12.5°	3529.5	3529.5	3545.6	3537.6	3559.0	3593.9	3580.5	3567.1	3545.6	3551.0	3575.1
15°	3473.2	3475.9	3494.7	3486.6	3505.4	3540.3	3526.8	3516.1	3497.3	3500.0	3518.8
17.5°	3408.8	3416.9	3435.7	3427.6	3446.4	3481.2	3465.2	3454.4	3438.3	3441.0	3459.8
20°	3339.1	3347.1	3365.9	3360.6	3374.0	3408.8	3392.7	3387.4	3371.3	3374.0	3390.1
22.5°	3261.3	3269.4	3290.8	3285.5	3298.9	3333.7	3315.0	3312.3	3296.2	3298.9	3312.3
25°	3172.8	3183.5	3207.7	3202.3	3213.0	3245.2	3229.1	3223.8	3213.0	3213.0	3223.8
27.5°	3081.6	3092.4	3119.2	3111.1	3119.2	3154.0	3135.3	3132.6	3121.9	3121.9	3132.6
30°	2982.4	2993.1	3022.6	3014.6	3022.6	3052.1	3033.4	3036.0	3025.3	3025.3	3033.4
32.5°	2877.8	2885.8	2918.0	2912.7	2918.0	2947.5	2928.8	2931.4	2920.7	2923.4	2926.1
35°	2767.8	2775.9	2810.7	2805.4	2808.1	2834.9	2821.5	2821.5	2813.4	2810.7	2816.1
37.5°	2655.2	2663.2	2706.1	2692.7	2692.7	2719.6	2708.8	2708.8	2700.8	2698.1	2700.8
40°	2539.9	2545.2	2590.8	2577.4	2574.7	2598.9	2590.8	2590.8	2585.5	2580.1	2582.8
42.5°	2419.2	2427.2	2472.8	2462.1	2451.4	2478.2	2470.1	2472.8	2464.8	2459.4	2459.4
45°	2293.1	2301.2	2346.8	2341.4	2325.3	2349.4	2341.4	2346.8	2336.0	2330.7	2330.7
47.5°	2167.1	2177.8	2220.7	2212.7	2196.6	2220.7	2212.7	2218.0	2207.3	2201.9	2201.9
50°	2035.6	2046.4	2092.0	2078.6	2062.5	2086.6	2081.2	2083.9	2075.9	2070.5	2067.8
52.5°	1901.5	1915.0	1957.9	1941.8	1928.4	1949.8	1947.1	1949.8	1939.1	1936.4	1933.7
55°	1767.4	1780.9	1821.1	1802.3	1791.6	1810.4	1805.0	1810.4	1799.6	1796.9	1794.3
57.5°	1628.0	1641.4	1678.9	1660.2	1652.1	1668.2	1665.5	1668.2	1660.2	1657.5	1654.8
60°	1491.2	1501.9	1536.8	1518.0	1510.0	1526.1	1520.7	1528.7	1518.0	1518.0	1515.3
62.5°	1346.4	1359.8	1394.6	1373.2	1367.8	1381.2	1375.9	1383.9	1378.6	1373.2	1370.5
65°	1204.2	1212.3	1244.5	1225.7	1217.6	1233.7	1231.0	1236.4	1228.4	1231.0	1228.4
67.5°	1062.1	1067.4	1099.6	1078.2	1072.8	1088.9	1091.6	1088.9	1083.5	1086.2	1083.5
70°	917.2	922.6	949.4	930.7	928.0	941.4	946.7	944.1	938.7	941.4	944.1
72.5°	777.8	780.5	804.6	788.5	785.8	801.9	801.9	801.9	801.9	801.9	807.3
75°	638.3	641.0	662.5	649.0	646.4	662.5	662.5	662.5	662.5	667.8	665.1
77.5°	504.2	501.5	523.0	514.9	509.6	525.7	525.7	528.4	533.7	539.1	531.0
80°	378.2	375.5	391.6	380.8	380.8	396.9	394.3	396.9	402.3	405.0	407.7
82.5°	265.5	260.2	273.6	270.9	268.2	281.6	284.3	281.6	289.7	292.3	292.3
85°	163.6	163.6	171.6	166.3	166.3	177.0	177.0	179.7	185.1	187.7	187.7
87.5°	77.8	75.1	83.1	80.5	77.8	85.8	85.8	88.5	91.2	93.9	91.2
90°	2.7	2.7	5.4	5.4	5.4	10.7	10.7	10.7	13.4	13.4	10.7
92.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	5.4	5.4	5.4	5.4
95°	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	2.7



TEST NUMBER: P894494
 CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L835

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	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7
132.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
135°	0.0	2.7	2.7	2.7	2.7	0.0	2.7	0.0	0.0	0.0	2.7
137.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
140°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
145°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
150°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
167.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
170°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
172.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
175°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	5.4	5.4
177.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6
2.5°	3650.2	3631.4	3623.4	3628.8	3666.3	3628.8	3669.0	3682.4	3634.1	3660.9
5°	3639.5	3620.7	3610.0	3615.3	3652.9	3618.0	3660.9	3677.0	3636.8	3663.6
7.5°	3618.0	3596.6	3591.2	3599.3	3631.4	3601.9	3644.8	3660.9	3620.7	3647.5
10°	3585.8	3567.1	3561.7	3569.8	3599.3	3569.8	3607.3	3620.7	3583.2	3607.3
12.5°	3545.6	3526.8	3521.5	3532.2	3559.0	3532.2	3569.8	3583.2	3545.6	3569.8
15°	3494.7	3475.9	3473.2	3489.3	3513.4	3489.3	3526.8	3537.6	3500.0	3524.2
17.5°	3433.0	3414.2	3416.9	3435.7	3454.4	3433.0	3467.8	3478.6	3443.7	3462.5
20°	3365.9	3344.5	3349.8	3365.9	3382.0	3360.6	3395.4	3406.2	3374.0	3392.7
22.5°	3288.1	3266.7	3272.1	3290.8	3301.6	3282.8	3315.0	3325.7	3298.9	3317.6
25°	3202.3	3183.5	3191.6	3210.4	3218.4	3202.3	3231.8	3239.9	3215.7	3231.8
27.5°	3116.5	3095.0	3105.8	3124.5	3129.9	3113.8	3143.3	3148.7	3124.5	3140.6
30°	3019.9	2998.5	3011.9	3033.4	3033.4	3022.6	3046.8	3052.1	3033.4	3046.8
32.5°	2912.7	2896.6	2912.7	2931.4	2928.8	2920.7	2944.8	2950.2	2934.1	2944.8
35°	2805.4	2792.0	2808.1	2826.8	2824.2	2816.1	2840.2	2842.9	2829.5	2840.2
37.5°	2695.4	2684.7	2700.8	2716.9	2711.5	2706.1	2727.6	2727.6	2719.6	2730.3
40°	2582.8	2572.0	2585.5	2604.2	2593.5	2593.5	2606.9	2612.3	2604.2	2615.0
42.5°	2464.8	2454.0	2470.1	2486.2	2475.5	2472.8	2488.9	2491.6	2486.2	2494.3
45°	2341.4	2330.7	2346.8	2360.2	2349.4	2349.4	2362.8	2362.8	2360.2	2370.9
47.5°	2215.3	2207.3	2220.7	2234.1	2223.4	2231.4	2231.4	2231.4	2236.8	2234.1
50°	2086.6	2078.6	2089.3	2105.4	2092.0	2094.6	2100.0	2100.0	2102.7	2105.4
52.5°	1952.5	1941.8	1952.5	1971.3	1952.5	1960.5	1963.2	1965.9	1974.0	1968.6
55°	1818.4	1807.7	1818.4	1834.5	1815.7	1826.4	1826.4	1829.1	1837.2	1831.8
57.5°	1678.9	1668.2	1684.3	1695.0	1676.3	1687.0	1687.0	1692.3	1697.7	1689.7
60°	1539.5	1531.4	1536.8	1555.6	1536.8	1547.5	1547.5	1547.5	1558.2	1550.2
62.5°	1397.3	1392.0	1397.3	1413.4	1394.6	1405.4	1402.7	1405.4	1416.1	1413.4
65°	1252.5	1247.1	1252.5	1268.6	1249.8	1260.5	1260.5	1263.2	1271.3	1260.5
67.5°	1110.4	1102.3	1110.4	1123.8	1107.7	1115.7	1115.7	1115.7	1129.1	1123.8
70°	965.5	960.2	965.5	978.9	965.5	970.9	970.9	970.9	984.3	987.0
72.5°	823.4	823.4	828.7	839.5	828.7	839.5	831.4	826.1	844.8	847.5
75°	683.9	686.6	689.3	700.0	689.3	700.0	694.6	689.3	705.4	708.1
77.5°	555.2	555.2	557.9	565.9	557.9	565.9	560.5	560.5	571.3	568.6
80°	423.8	423.8	426.4	434.5	426.4	434.5	429.1	429.1	439.8	429.1
82.5°	308.4	308.4	308.4	316.5	311.1	316.5	313.8	308.4	321.8	311.1
85°	198.5	201.2	201.2	203.8	201.2	203.8	203.8	201.2	209.2	201.2
87.5°	101.9	101.9	101.9	104.6	101.9	101.9	104.6	101.9	107.3	104.6
90°	18.8	16.1	16.1	21.5	18.8	18.8	21.5	16.1	18.8	16.1
92.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	10.7	10.7
95°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	8.0
97.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4
100°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
102.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
105°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7
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	2.7	0.0	0.0	0.0	2.7



TEST NUMBER: P894494
 CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L835

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	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.7	2.7	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°	2.7	2.7	2.7	2.7	0.0	2.7	0.0	0.0	0.0	0.0
140°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0
145°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
150°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
167.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
170°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
172.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
175°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
177.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



TEST NUMBER: P894494
 CATALOG NUMBER: 8TMB-12SL-FLT-UNV-L835

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	20.42	22.05	20.78	22.37	22.69	20.55	22.19	20.92	22.51	22.82
	3H	22.24	23.72	22.62	24.05	24.41	22.39	23.87	22.77	24.20	24.56
	4H	22.90	24.30	23.30	24.65	25.03	23.09	24.49	23.49	24.84	25.22
	6H	23.35	24.65	23.77	25.02	25.41	23.65	24.95	24.06	25.31	25.71
	8H	23.49	24.73	23.92	25.12	25.52	23.85	25.08	24.27	25.47	25.88
	12H	23.59	24.78	24.02	25.16	25.59	23.99	25.17	24.42	25.56	25.99
4H	2H	21.05	22.45	21.45	22.80	23.18	21.16	22.56	21.56	22.91	23.28
	3H	23.09	24.26	23.50	24.66	25.07	23.23	24.40	23.64	24.80	25.20
	4H	23.89	24.95	24.32	25.36	25.80	24.07	25.13	24.50	25.55	25.99
	6H	24.46	25.39	24.92	25.83	26.29	24.76	25.69	25.22	26.13	26.59
	8H	24.65	25.52	25.11	25.96	26.43	25.01	25.88	25.47	26.32	26.79
	12H	24.79	25.58	25.28	26.05	26.53	25.20	25.98	25.68	26.46	26.93
8H	4H	24.22	25.08	24.68	25.53	26.00	24.38	25.25	24.84	25.69	26.16
	6H	24.92	25.64	25.41	26.13	26.61	25.21	25.93	25.70	26.42	26.90
	8H	25.18	25.83	25.69	26.34	26.83	25.54	26.19	26.05	26.70	27.18
	12H	25.40	25.97	25.91	26.46	27.03	25.82	26.40	26.33	26.89	27.45
12H	4H	24.26	25.04	24.74	25.52	25.99	24.41	25.20	24.89	25.67	26.14
	6H	24.99	25.64	25.50	26.15	26.64	25.26	25.91	25.77	26.42	26.91
	8H	25.31	25.89	25.82	26.38	26.94	25.66	26.23	26.17	26.72	27.29