

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: P895364

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASML-UNV-CC93-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

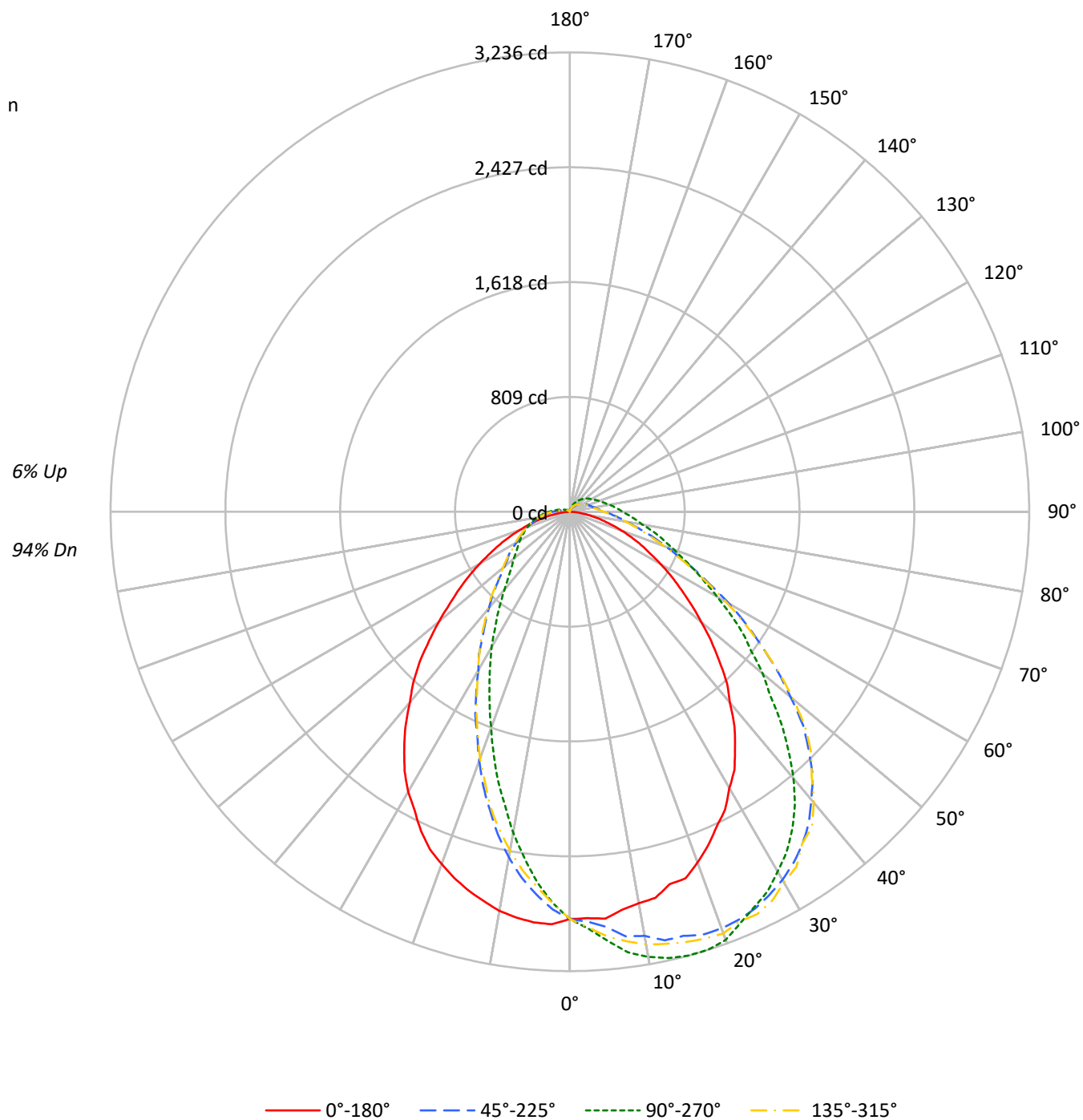
Lumens per Lamp: N/A
Luminaire Lumens: 7150.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14569	14569	14569	14569
5°	14643	14847	14782	12832
10°	14400	15163	14681	10937
15°	14219	15109	14459	9144
20°	14129	14811	14190	7481
25°	13612	14124	13801	6155
30°	13064	13497	13233	5086
35°	12443	12738	12478	4144
40°	11476	11652	11470	3397
45°	10522	10286	10575	2895
50°	9384	8977	9340	2615
55°	8298	7864	8241	2403
60°	7310	6708	7246	2271
65°	6443	5775	6291	2157
70°	5522	5061	5336	2062
75°	4562	4601	4440	1986
80°	3607	4141	3280	1849
85°	2644	3998	2135	1733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 14588 cd/sqm

TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	3.8
10°-20°	749.2	10.5
20°-30°	1077.6	15.1
30°-40°	1222.9	17.1
40°-50°	1168.7	16.3
50°-60°	949.6	13.3
60°-70°	662.6	9.3
70°-80°	410.5	5.7
80°-90°	235.5	3.3
90°-100°	140.8	2.0
100°-110°	92.4	1.3
110°-120°	64.8	0.9
120°-130°	46.9	0.7
130°-140°	31.2	0.4
140°-150°	17.6	0.2
150°-160°	7.8	0.1
160°-170°	2.3	0.0
170°-180°	0.2	0.0
0°-30°	2096.3	29.3
0°-40°	3319.2	46.4
0°-60°	5437.6	76.1
0°-90°	6746.1	94.4
90°-120°	297.9	4.2
90°-150°	393.6	5.5
90°-180°	404.0	5.7
0°-180°	7150.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2869	2869	2869	2869	2869	
5°	2876	3032	2904	2621	2876	271
15°	2716	3236	2762	1958	2716	772
25°	2447	3074	2481	1340	2447	1129
35°	2029	2732	2035	889	2029	1265
45°	1488	2106	1495	593	1488	1148
55°	958	1485	952	454	958	862
65°	554	966	541	361	554	550
75°	246	646	240	279	246	266
85°	54	438	43	190	54	60
90°	2	370	0	146	2	4
95°	3	322	0	111	3	2
105°	2	248	0	60	2	2
115°	2	197	0	33	2	2
125°	2	161	0	22	2	2
135°	2	128	0	17	2	1
145°	2	90	0	11	2	1
155°	3	56	0	7	3	1
165°	3	26	0	3	3	1
175°	3	1	0	0	3	0
180°	1	1	1	1	1	

TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7
2.5°	2865.9	2887.5	2889.4	2957.0	2937.3	2962.6	2930.7	2936.3	2908.2	2900.6	2802.9
5°	2876.2	2922.2	2934.5	3050.9	3032.1	3045.3	3001.1	2969.2	2903.5	2864.0	2706.2
7.5°	2827.4	2948.5	3016.2	3098.8	3129.8	3140.2	3050.9	2991.8	2882.8	2786.0	2601.0
10°	2800.1	2967.3	3033.1	3157.1	3184.3	3164.6	3095.1	2997.4	2854.6	2698.7	2471.4
12.5°	2785.1	2977.7	3092.3	3219.1	3220.0	3199.3	3117.6	3012.4	2808.6	2604.8	2334.2
15°	2715.6	2975.8	3093.2	3221.9	3236.0	3222.8	3139.2	3002.1	2761.6	2488.3	2176.4
17.5°	2708.1	2971.1	3123.3	3258.5	3235.0	3225.6	3152.4	2997.4	2705.3	2369.9	2028.0
20°	2629.2	2960.8	3123.3	3217.2	3209.7	3213.4	3160.8	2990.8	2640.4	2242.2	1865.5
22.5°	2545.6	2948.5	3110.1	3181.5	3136.4	3205.0	3123.3	2973.0	2574.7	2108.8	1703.9
25°	2446.9	2928.8	3084.7	3130.8	3073.5	3127.0	3126.1	2945.7	2480.8	1965.1	1576.2
27.5°	2367.1	2897.8	3043.4	3112.9	3015.2	3061.3	3087.6	2912.8	2369.9	1823.2	1425.9
30°	2247.8	2858.4	2993.6	3004.0	2926.9	2985.2	3015.2	2871.5	2276.9	1662.6	1288.8
32.5°	2156.7	2813.3	2932.6	2918.5	2841.5	2918.5	2967.3	2830.2	2166.1	1521.7	1192.0
35°	2028.9	2758.8	2856.5	2782.3	2731.6	2795.4	2852.7	2786.0	2034.6	1371.4	1068.0
37.5°	1905.0	2710.9	2765.4	2673.3	2603.8	2675.2	2801.1	2703.4	1902.1	1252.1	976.0
40°	1753.7	2601.0	2646.1	2521.2	2451.6	2556.8	2672.4	2632.0	1752.8	1128.1	886.7
42.5°	1639.1	2519.3	2532.4	2361.5	2278.8	2390.6	2522.1	2530.5	1631.6	1016.4	807.8
45°	1487.9	2404.7	2380.3	2192.4	2106.0	2206.5	2403.7	2426.3	1495.4	919.6	730.8
47.5°	1351.7	2276.9	2229.0	2009.2	1912.5	2031.8	2250.6	2309.8	1343.2	830.4	658.5
50°	1209.9	2134.1	2028.0	1838.3	1773.4	1832.6	2056.2	2153.9	1204.2	742.1	603.0
52.5°	1080.2	1976.3	1844.8	1674.8	1610.0	1658.8	1852.4	1998.9	1066.1	667.9	554.2
55°	958.1	1818.5	1648.5	1498.2	1485.1	1500.1	1645.7	1813.8	951.5	602.1	523.2
57.5°	849.2	1626.9	1471.9	1361.1	1337.6	1349.8	1450.3	1623.2	840.7	536.4	478.1
60°	739.2	1430.6	1297.2	1211.7	1198.6	1208.0	1272.8	1437.2	732.7	480.9	435.8
62.5°	639.7	1233.3	1115.0	1083.0	1073.6	1073.6	1100.9	1251.2	631.2	424.6	403.9
65°	554.2	1064.3	975.0	962.8	965.6	964.7	947.8	1044.5	541.1	374.8	375.7
67.5°	467.8	884.8	835.1	850.1	861.4	856.7	821.0	868.9	456.5	329.7	350.4
70°	387.9	730.8	721.4	755.2	781.5	757.1	705.4	710.1	374.8	285.6	317.5
72.5°	312.8	590.8	634.0	681.0	706.4	679.1	607.7	587.1	301.5	245.2	287.4
75°	246.1	475.3	543.9	613.4	646.3	611.5	528.8	458.4	239.5	206.7	263.0
77.5°	187.9	376.7	465.0	545.7	577.7	547.6	460.3	357.9	175.7	173.8	236.7
80°	134.3	297.8	412.4	490.3	519.4	490.3	399.2	282.7	122.1	139.0	208.5
82.5°	88.3	230.1	358.8	446.2	478.1	442.4	346.6	217.9	78.0	112.7	187.9
85°	53.5	182.2	312.8	401.1	437.7	403.0	303.4	165.3	43.2	86.4	163.4
87.5°	23.5	140.9	279.0	370.1	403.0	371.0	270.5	129.6	17.8	67.6	140.0
90°	1.9	111.8	246.1	341.0	370.1	340.0	239.5	105.2	0.0	48.8	120.2
92.5°	1.9	95.8	225.4	315.6	348.5	314.7	216.0	86.4	0.0	35.7	101.4
95°	2.8	80.8	204.8	295.9	322.2	293.1	197.3	74.2	0.0	24.4	85.5
97.5°	2.8	73.3	187.9	276.2	305.3	274.3	180.4	66.7	0.0	17.8	69.5
100°	1.9	67.6	174.7	257.4	284.6	255.5	167.2	60.1	0.0	11.3	56.4
102.5°	1.9	62.9	163.4	241.4	263.0	238.6	155.9	56.4	0.0	9.4	46.0
105°	1.9	60.1	153.1	222.6	248.0	222.6	146.5	52.6	0.0	7.5	35.7
107.5°	1.9	56.4	145.6	212.3	233.0	210.4	139.0	49.8	0.0	7.5	29.1
110°	1.9	53.5	139.0	197.3	220.7	199.1	132.4	45.1	0.0	4.7	23.5

TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.9	48.8	132.4	186.9	209.5	187.9	126.8	41.3	0.0	4.7	20.7
115°	1.9	44.1	126.8	180.4	197.3	178.5	121.2	36.6	0.0	3.8	18.8
117.5°	1.9	41.3	123.1	171.9	188.8	170.0	116.5	34.8	0.0	3.8	17.8
120°	1.9	39.5	117.4	163.4	176.6	161.6	110.8	32.9	0.0	3.8	16.9
122.5°	1.9	37.6	112.7	155.9	170.0	155.0	106.1	31.9	0.0	2.8	15.0
125°	1.9	35.7	106.1	147.5	160.6	145.6	97.7	31.0	0.0	1.9	13.2
127.5°	1.9	33.8	99.6	140.9	153.1	139.0	92.1	30.1	0.0	1.9	12.2
130°	1.9	32.9	91.1	132.4	144.7	130.6	85.5	30.1	0.0	1.9	11.3
132.5°	1.9	31.9	81.7	124.0	137.1	122.1	78.9	29.1	0.0	1.9	9.4
135°	1.9	31.0	72.3	115.5	127.7	113.7	73.3	28.2	0.0	1.9	8.5
137.5°	1.9	29.1	63.9	106.1	118.4	104.3	69.5	26.3	0.0	1.9	7.5
140°	1.9	27.2	57.3	98.6	109.0	95.8	63.9	24.4	0.0	0.9	5.6
142.5°	1.9	24.4	51.7	89.2	99.6	87.4	57.3	20.7	0.0	0.9	5.6
145°	1.9	21.6	47.0	78.0	90.2	78.0	53.5	18.8	0.0	0.9	4.7
147.5°	1.9	19.7	42.3	65.8	81.7	71.4	47.9	16.0	0.0	0.9	3.8
150°	1.9	17.8	36.6	55.4	72.3	62.9	44.1	14.1	0.0	0.0	2.8
152.5°	1.9	16.0	31.9	46.0	64.8	57.3	39.5	12.2	0.0	0.0	1.9
155°	2.8	15.0	27.2	40.4	56.4	49.8	32.9	10.3	0.0	0.0	1.9
157.5°	2.8	13.2	22.5	32.9	49.8	43.2	26.3	8.5	0.0	0.0	0.9
160°	2.8	12.2	18.8	25.4	41.3	35.7	21.6	6.6	0.0	0.0	0.9
162.5°	2.8	11.3	16.0	18.8	33.8	28.2	16.9	4.7	0.0	0.0	0.9
165°	2.8	9.4	14.1	13.2	26.3	21.6	13.2	2.8	0.0	0.0	0.0
167.5°	2.8	8.5	11.3	9.4	19.7	16.0	9.4	1.9	0.0	0.0	0.0
170°	2.8	6.6	9.4	6.6	5.6	10.3	5.6	0.9	0.0	0.0	0.0
172.5°	2.8	5.6	7.5	4.7	1.9	5.6	2.8	0.0	0.0	0.0	0.0
175°	2.8	4.7	4.7	2.8	0.9	1.9	0.0	0.0	0.0	0.0	0.0
177.5°	2.8	3.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7
2.5°	2789.8	2758.8	2730.6	2760.7	2782.3	2865.9
5°	2653.6	2620.7	2624.5	2651.7	2724.0	2876.2
7.5°	2512.7	2458.2	2471.4	2547.5	2654.5	2827.4
10°	2346.4	2296.7	2308.9	2423.5	2573.8	2800.1
12.5°	2198.0	2114.4	2185.8	2293.8	2479.8	2785.1
15°	2024.2	1958.5	1997.0	2156.7	2389.6	2715.6
17.5°	1836.4	1785.7	1831.7	1990.4	2278.8	2708.1
20°	1691.7	1621.3	1675.8	1850.5	2141.7	2629.2
22.5°	1529.2	1475.7	1533.0	1693.6	2001.7	2545.6
25°	1395.8	1339.5	1396.8	1556.5	1877.7	2446.9
27.5°	1266.2	1214.5	1266.2	1412.7	1754.7	2367.1
30°	1152.6	1102.8	1155.4	1296.3	1610.9	2247.8
32.5°	1046.4	982.5	1050.2	1186.4	1484.1	2156.7
35°	936.5	888.6	939.3	1090.6	1343.2	2028.9
37.5°	845.4	795.6	855.7	985.4	1223.9	1905.0
40°	759.0	714.8	762.7	900.8	1122.5	1753.7
42.5°	691.3	647.2	696.0	823.8	1020.1	1639.1
45°	625.6	592.7	632.2	739.2	916.8	1487.9
47.5°	577.7	549.5	582.4	677.3	830.4	1351.7
50°	536.4	516.6	540.1	615.3	741.1	1209.9
52.5°	499.7	480.0	507.2	567.4	670.7	1080.2
55°	471.5	453.7	474.4	522.3	600.2	958.1
57.5°	440.5	429.3	445.2	474.4	544.8	849.2
60°	418.0	405.8	422.7	446.2	481.9	739.2
62.5°	392.6	386.1	396.4	415.2	434.0	639.7
65°	370.1	360.7	373.9	380.4	378.5	554.2
67.5°	345.7	342.9	350.4	351.3	337.2	467.8
70°	320.3	318.4	327.8	322.2	293.1	387.9
72.5°	299.6	299.6	305.3	294.0	255.5	312.8
75°	277.1	279.0	283.7	270.5	215.1	246.1
77.5°	256.4	258.3	259.3	241.4	180.4	187.9
80°	233.0	232.0	241.4	218.9	146.5	134.3
82.5°	212.3	208.5	214.2	191.6	118.4	88.3
85°	188.8	189.7	193.5	167.2	94.9	53.5
87.5°	170.0	170.0	173.8	147.5	71.4	23.5
90°	147.5	145.6	151.2	124.9	53.5	1.9
92.5°	128.7	128.7	132.4	107.1	39.5	1.9
95°	109.9	110.8	113.7	88.3	30.1	2.8
97.5°	93.9	94.9	98.6	75.1	21.6	2.8
100°	79.8	80.8	82.7	60.1	16.9	1.9
102.5°	66.7	69.5	69.5	49.8	13.2	1.9
105°	56.4	60.1	58.2	40.4	12.2	1.9
107.5°	47.0	50.7	50.7	32.9	12.2	1.9
110°	38.5	44.1	43.2	28.2	9.4	1.9



TEST NUMBER: P895364

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-MID-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	32.9	37.6	34.8	24.4	9.4	1.9
115°	28.2	32.9	31.0	22.5	8.5	1.9
117.5°	25.4	28.2	28.2	21.6	8.5	1.9
120°	23.5	26.3	25.4	20.7	8.5	1.9
122.5°	21.6	23.5	23.5	18.8	7.5	1.9
125°	20.7	21.6	22.5	16.9	7.5	1.9
127.5°	19.7	21.6	21.6	16.0	6.6	1.9
130°	17.8	19.7	19.7	15.0	6.6	1.9
132.5°	16.0	17.8	17.8	14.1	6.6	1.9
135°	15.0	16.9	16.9	13.2	6.6	1.9
137.5°	14.1	15.0	15.0	12.2	6.6	1.9
140°	12.2	14.1	14.1	11.3	6.6	1.9
142.5°	11.3	13.2	13.2	10.3	5.6	1.9
145°	10.3	11.3	12.2	9.4	5.6	1.9
147.5°	8.5	10.3	11.3	8.5	5.6	1.9
150°	6.6	9.4	9.4	8.5	5.6	1.9
152.5°	4.7	8.5	8.5	7.5	4.7	1.9
155°	3.8	6.6	7.5	6.6	4.7	2.8
157.5°	2.8	5.6	6.6	6.6	4.7	2.8
160°	1.9	4.7	5.6	5.6	3.8	2.8
162.5°	0.9	3.8	4.7	5.6	3.8	2.8
165°	0.0	2.8	3.8	4.7	3.8	2.8
167.5°	0.0	1.9	2.8	3.8	2.8	2.8
170°	0.0	0.9	1.9	2.8	2.8	2.8
172.5°	0.0	0.0	0.9	1.9	1.9	2.8
175°	0.0	0.0	0.0	0.9	1.9	2.8
177.5°	0.0	0.0	0.0	0.9	1.9	2.8
180°	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)