

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: P895356

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895356
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-CC83-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

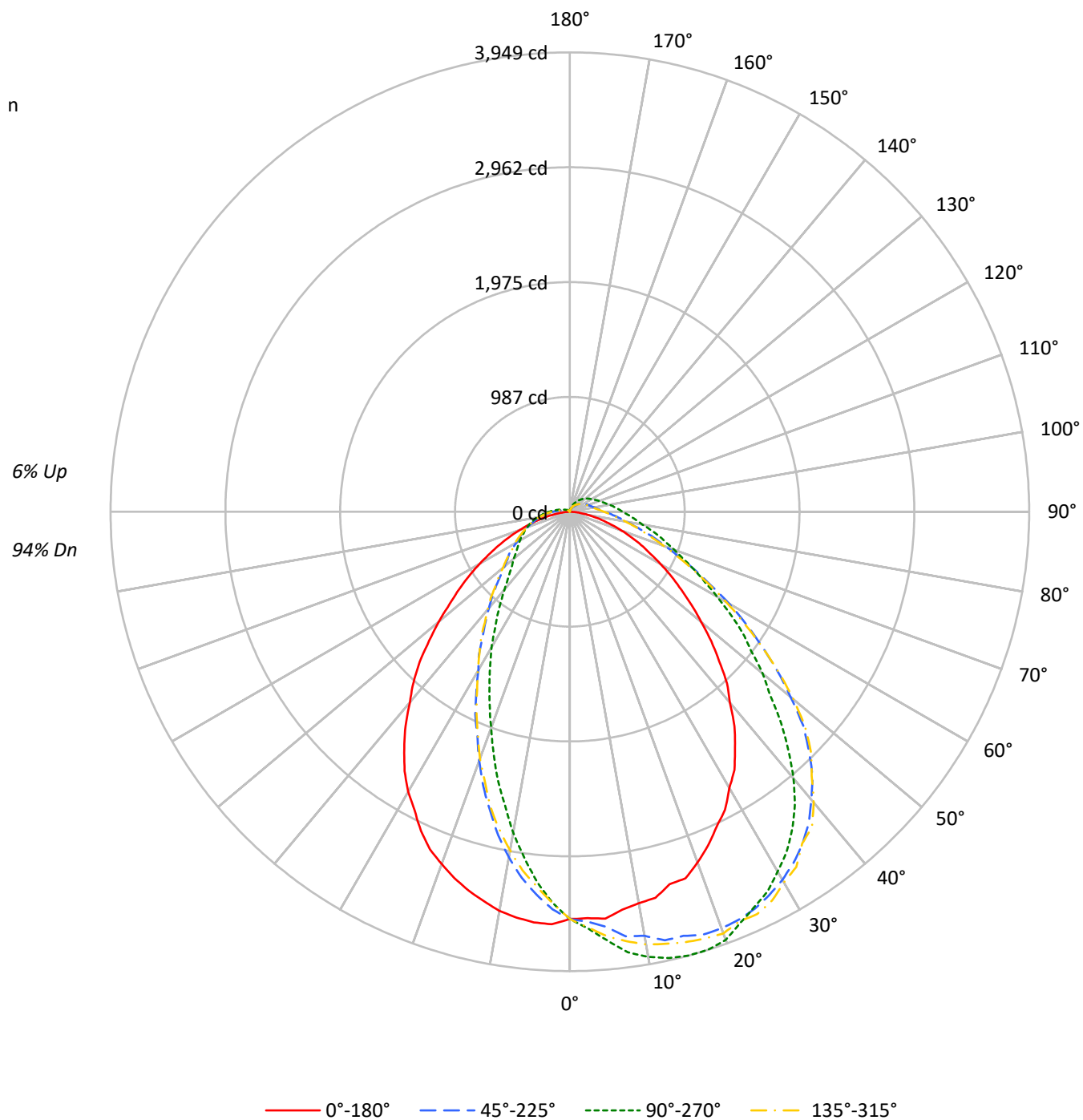
Lumens per Lamp: N/A
Luminaire Lumens: 8725.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

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°	17779	17779	17779	17779
5°	17869	18118	18038	15659
10°	17573	18504	17915	13346
15°	17351	18437	17644	11159
20°	17241	18073	17316	9129
25°	16611	17235	16841	7511
30°	15942	16471	16148	6206
35°	15184	15544	15226	5056
40°	14004	14219	13996	4146
45°	12839	12551	12904	3533
50°	11451	10955	11398	3191
55°	10126	9597	10056	2932
60°	8921	8185	8842	2771
65°	7863	7048	7676	2633
70°	6739	6176	6510	2517
75°	5567	5614	5419	2423
80°	4402	5053	4002	2257
85°	3227	4879	2605	2115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 17801 cd/sqm

TEST NUMBER: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	3.8
10°-20°	914.2	10.5
20°-30°	1315.0	15.1
30°-40°	1492.3	17.1
40°-50°	1426.2	16.3
50°-60°	1158.8	13.3
60°-70°	808.6	9.3
70°-80°	500.9	5.7
80°-90°	287.3	3.3
90°-100°	171.8	2.0
100°-110°	112.8	1.3
110°-120°	79.0	0.9
120°-130°	57.2	0.7
130°-140°	38.1	0.4
140°-150°	21.5	0.2
150°-160°	9.6	0.1
160°-170°	2.7	0.0
170°-180°	0.2	0.0
0°-30°	2558.1	29.3
0°-40°	4050.4	46.4
0°-60°	6635.4	76.1
0°-90°	8232.2	94.4
90°-120°	363.5	4.2
90°-150°	480.3	5.5
90°-180°	493.0	5.7
0°-180°	8725.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3501	3501	3501	3501	3501	
5°	3510	3700	3543	3198	3510	331
15°	3314	3949	3370	2390	3314	942
25°	2986	3750	3027	1634	2986	1377
35°	2476	3333	2483	1084	2476	1543
45°	1816	2570	1825	723	1816	1401
55°	1169	1812	1161	554	1169	1052
65°	676	1178	660	440	676	671
75°	300	789	292	340	300	324
85°	65	534	53	232	65	73
90°	2	452	0	178	2	5
95°	3	393	0	135	3	2
105°	2	303	0	73	2	2
115°	2	241	0	40	2	2
125°	2	196	0	26	2	2
135°	2	156	0	21	2	2
145°	2	110	0	14	2	1
155°	3	69	0	8	3	1
165°	3	32	0	3	3	1
175°	3	1	0	0	3	0
180°	1	1	1	1	1	

TEST NUMBER: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3497.2	3523.5	3525.8	3608.4	3584.3	3615.2	3576.3	3583.1	3548.8	3539.6	3420.4
5°	3509.8	3566.0	3580.9	3723.0	3700.1	3716.1	3662.2	3623.3	3543.0	3494.9	3302.3
7.5°	3450.2	3598.0	3680.6	3781.4	3819.3	3831.9	3723.0	3650.8	3517.8	3399.7	3173.9
10°	3416.9	3621.0	3701.2	3852.5	3885.8	3861.7	3776.9	3657.7	3483.4	3293.1	3015.8
12.5°	3398.6	3633.6	3773.4	3928.2	3929.3	3904.1	3804.4	3676.0	3427.3	3178.5	2848.4
15°	3313.8	3631.3	3774.6	3931.6	3948.8	3932.8	3830.7	3663.4	3369.9	3036.4	2655.8
17.5°	3304.6	3625.6	3811.2	3976.3	3947.7	3936.2	3846.8	3657.7	3301.2	2892.0	2474.7
20°	3208.3	3612.9	3811.2	3925.9	3916.7	3921.3	3857.1	3649.6	3222.1	2736.1	2276.4
22.5°	3106.3	3598.0	3795.2	3882.3	3827.3	3911.0	3811.2	3627.9	3141.8	2573.3	2079.3
25°	2986.0	3574.0	3764.3	3820.4	3750.5	3815.8	3814.7	3594.6	3027.2	2397.9	1923.4
27.5°	2888.5	3536.2	3713.8	3798.6	3679.4	3735.6	3767.7	3554.5	2892.0	2224.9	1740.0
30°	2743.0	3488.0	3653.1	3665.7	3571.7	3642.8	3679.4	3504.1	2778.5	2028.8	1572.6
32.5°	2631.8	3433.0	3578.6	3561.4	3467.4	3561.4	3621.0	3453.6	2643.2	1856.9	1454.6
35°	2475.9	3366.5	3485.7	3395.2	3333.3	3411.2	3481.1	3399.7	2482.8	1673.5	1303.3
37.5°	2324.6	3308.0	3374.5	3262.2	3177.4	3264.5	3418.1	3298.9	2321.1	1527.9	1190.9
40°	2140.0	3173.9	3229.0	3076.5	2991.7	3120.1	3261.1	3211.8	2138.9	1376.6	1082.1
42.5°	2000.2	3074.2	3090.3	2881.6	2780.8	2917.2	3077.7	3088.0	1991.0	1240.2	985.8
45°	1815.6	2934.4	2904.6	2675.3	2569.9	2692.5	2933.2	2960.7	1824.8	1122.2	891.8
47.5°	1649.4	2778.5	2720.0	2451.8	2333.7	2479.3	2746.4	2818.6	1639.1	1013.3	803.5
50°	1476.4	2604.3	2474.7	2243.2	2164.1	2236.3	2509.1	2628.3	1469.5	905.5	735.9
52.5°	1318.2	2411.7	2251.2	2043.7	1964.7	2024.3	2260.4	2439.2	1301.0	815.0	676.3
55°	1169.2	2219.1	2011.7	1828.3	1812.2	1830.5	2008.2	2213.4	1161.1	734.7	638.5
57.5°	1036.2	1985.3	1796.2	1660.9	1632.2	1647.1	1769.8	1980.7	1025.9	654.5	583.4
60°	902.1	1745.7	1583.0	1478.6	1462.6	1474.1	1553.2	1753.7	894.1	586.9	531.9
62.5°	780.6	1505.0	1360.6	1321.6	1310.2	1310.2	1343.4	1526.8	770.3	518.1	492.9
65°	676.3	1298.7	1189.8	1174.9	1178.3	1177.2	1156.6	1274.6	660.2	457.3	458.5
67.5°	570.8	1079.8	1019.0	1037.3	1051.1	1045.4	1001.8	1060.3	557.1	402.3	427.5
70°	473.4	891.8	880.3	921.6	953.7	923.9	860.8	866.6	457.3	348.5	387.4
72.5°	381.7	721.0	773.7	831.0	862.0	828.7	741.6	716.4	367.9	299.2	350.7
75°	300.3	580.0	663.7	748.5	788.6	746.2	645.3	559.4	292.3	252.2	320.9
77.5°	229.2	459.6	567.4	666.0	704.9	668.3	561.7	436.7	214.3	212.1	288.9
80°	163.9	363.4	503.2	598.3	633.9	598.3	487.2	345.0	149.0	169.6	254.5
82.5°	107.7	280.8	437.9	544.5	583.4	539.9	423.0	265.9	95.1	137.5	229.2
85°	65.3	222.4	381.7	489.4	534.1	491.7	370.2	201.7	52.7	105.5	199.4
87.5°	28.7	171.9	340.4	451.6	491.7	452.8	330.1	158.2	21.8	82.5	170.8
90°	2.3	136.4	300.3	416.1	451.6	414.9	292.3	128.4	0.0	59.6	146.7
92.5°	2.3	116.9	275.1	385.1	425.3	384.0	263.6	105.5	0.0	43.6	123.8
95°	3.4	98.6	249.9	361.1	393.2	357.6	240.7	90.6	0.0	29.8	104.3
97.5°	3.4	89.4	229.2	337.0	372.5	334.7	220.1	81.4	0.0	21.8	84.8
100°	2.3	82.5	213.2	314.1	347.3	311.8	204.0	73.4	0.0	13.8	68.8
102.5°	2.3	76.8	199.4	294.6	320.9	291.1	190.3	68.8	0.0	11.5	56.2
105°	2.3	73.4	186.8	271.7	302.6	271.7	178.8	64.2	0.0	9.2	43.6
107.5°	2.3	68.8	177.7	259.1	284.3	256.8	169.6	60.8	0.0	9.2	35.5
110°	2.3	65.3	169.6	240.7	269.4	243.0	161.6	55.0	0.0	5.7	28.7

TEST NUMBER: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	2.3	59.6	161.6	228.1	255.6	229.2	154.7	50.4	0.0	5.7	25.2
115°	2.3	53.9	154.7	220.1	240.7	217.8	147.9	44.7	0.0	4.6	22.9
117.5°	2.3	50.4	150.2	209.8	230.4	207.5	142.1	42.4	0.0	4.6	21.8
120°	2.3	48.1	143.3	199.4	215.5	197.2	135.3	40.1	0.0	4.6	20.6
122.5°	2.3	45.8	137.5	190.3	207.5	189.1	129.5	39.0	0.0	3.4	18.3
125°	2.3	43.6	129.5	180.0	196.0	177.7	119.2	37.8	0.0	2.3	16.0
127.5°	2.3	41.3	121.5	171.9	186.8	169.6	112.3	36.7	0.0	2.3	14.9
130°	2.3	40.1	111.2	161.6	176.5	159.3	104.3	36.7	0.0	2.3	13.8
132.5°	2.3	39.0	99.7	151.3	167.4	149.0	96.3	35.5	0.0	2.3	11.5
135°	2.3	37.8	88.3	141.0	155.9	138.7	89.4	34.4	0.0	2.3	10.3
137.5°	2.3	35.5	77.9	129.5	144.4	127.2	84.8	32.1	0.0	2.3	9.2
140°	2.3	33.2	69.9	120.4	133.0	116.9	77.9	29.8	0.0	1.1	6.9
142.5°	2.3	29.8	63.0	108.9	121.5	106.6	69.9	25.2	0.0	1.1	6.9
145°	2.3	26.4	57.3	95.1	110.0	95.1	65.3	22.9	0.0	1.1	5.7
147.5°	2.3	24.1	51.6	80.2	99.7	87.1	58.5	19.5	0.0	1.1	4.6
150°	2.3	21.8	44.7	67.6	88.3	76.8	53.9	17.2	0.0	0.0	3.4
152.5°	2.3	19.5	39.0	56.2	79.1	69.9	48.1	14.9	0.0	0.0	2.3
155°	3.4	18.3	33.2	49.3	68.8	60.8	40.1	12.6	0.0	0.0	2.3
157.5°	3.4	16.0	27.5	40.1	60.8	52.7	32.1	10.3	0.0	0.0	1.1
160°	3.4	14.9	22.9	30.9	50.4	43.6	26.4	8.0	0.0	0.0	1.1
162.5°	3.4	13.8	19.5	22.9	41.3	34.4	20.6	5.7	0.0	0.0	1.1
165°	3.4	11.5	17.2	16.0	32.1	26.4	16.0	3.4	0.0	0.0	0.0
167.5°	3.4	10.3	13.8	11.5	24.1	19.5	11.5	2.3	0.0	0.0	0.0
170°	3.4	8.0	11.5	8.0	6.9	12.6	6.9	1.1	0.0	0.0	0.0
172.5°	3.4	6.9	9.2	5.7	2.3	6.9	3.4	0.0	0.0	0.0	0.0
175°	3.4	5.7	5.7	3.4	1.1	2.3	0.0	0.0	0.0	0.0	0.0
177.5°	3.4	4.6	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TEST NUMBER: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3404.3	3366.5	3332.1	3368.8	3395.2	3497.2
5°	3238.1	3198.0	3202.6	3235.8	3324.1	3509.8
7.5°	3066.2	2999.7	3015.8	3108.6	3239.3	3450.2
10°	2863.3	2802.6	2817.5	2957.3	3140.7	3416.9
12.5°	2682.2	2580.2	2667.3	2799.1	3026.1	3398.6
15°	2470.1	2389.9	2436.9	2631.8	2916.0	3313.8
17.5°	2240.9	2179.0	2235.2	2428.9	2780.8	3304.6
20°	2064.4	1978.4	2044.9	2258.1	2613.4	3208.3
22.5°	1866.1	1800.7	1870.7	2066.7	2442.6	3106.3
25°	1703.3	1634.5	1704.5	1899.3	2291.3	2986.0
27.5°	1545.1	1482.1	1545.1	1723.9	2141.2	2888.5
30°	1406.4	1345.7	1409.9	1581.8	1965.8	2743.0
32.5°	1276.9	1199.0	1281.5	1447.7	1811.1	2631.8
35°	1142.8	1084.3	1146.2	1330.8	1639.1	2475.9
37.5°	1031.6	970.9	1044.2	1202.4	1493.6	2324.6
40°	926.2	872.3	930.7	1099.2	1369.8	2140.0
42.5°	843.6	789.8	849.4	1005.3	1244.8	2000.2
45°	763.4	723.3	771.4	902.1	1118.7	1815.6
47.5°	704.9	670.6	710.7	826.4	1013.3	1649.4
50°	654.5	630.4	659.1	750.8	904.4	1476.4
52.5°	609.8	585.7	619.0	692.3	818.4	1318.2
55°	575.4	553.6	578.9	637.3	732.4	1169.2
57.5°	537.6	523.8	543.3	578.9	664.8	1036.2
60°	510.1	495.2	515.8	544.5	588.0	902.1
62.5°	479.1	471.1	483.7	506.6	529.6	780.6
65°	451.6	440.2	456.2	464.2	461.9	676.3
67.5°	421.8	418.4	427.5	428.7	411.5	570.8
70°	390.9	388.6	400.0	393.2	357.6	473.4
72.5°	365.7	365.7	372.5	358.8	311.8	381.7
75°	338.1	340.4	346.2	330.1	262.5	300.3
77.5°	312.9	315.2	316.4	294.6	220.1	229.2
80°	284.3	283.1	294.6	267.1	178.8	163.9
82.5°	259.1	254.5	261.3	233.8	144.4	107.7
85°	230.4	231.5	236.1	204.0	115.8	65.3
87.5°	207.5	207.5	212.1	180.0	87.1	28.7
90°	180.0	177.7	184.5	152.4	65.3	2.3
92.5°	157.0	157.0	161.6	130.7	48.1	2.3
95°	134.1	135.3	138.7	107.7	36.7	3.4
97.5°	114.6	115.8	120.4	91.7	26.4	3.4
100°	97.4	98.6	100.9	73.4	20.6	2.3
102.5°	81.4	84.8	84.8	60.8	16.0	2.3
105°	68.8	73.4	71.1	49.3	14.9	2.3
107.5°	57.3	61.9	61.9	40.1	14.9	2.3
110°	47.0	53.9	52.7	34.4	11.5	2.3



TEST NUMBER: P895356

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	40.1	45.8	42.4	29.8	11.5	2.3
115°	34.4	40.1	37.8	27.5	10.3	2.3
117.5°	30.9	34.4	34.4	26.4	10.3	2.3
120°	28.7	32.1	30.9	25.2	10.3	2.3
122.5°	26.4	28.7	28.7	22.9	9.2	2.3
125°	25.2	26.4	27.5	20.6	9.2	2.3
127.5°	24.1	26.4	26.4	19.5	8.0	2.3
130°	21.8	24.1	24.1	18.3	8.0	2.3
132.5°	19.5	21.8	21.8	17.2	8.0	2.3
135°	18.3	20.6	20.6	16.0	8.0	2.3
137.5°	17.2	18.3	18.3	14.9	8.0	2.3
140°	14.9	17.2	17.2	13.8	8.0	2.3
142.5°	13.8	16.0	16.0	12.6	6.9	2.3
145°	12.6	13.8	14.9	11.5	6.9	2.3
147.5°	10.3	12.6	13.8	10.3	6.9	2.3
150°	8.0	11.5	11.5	10.3	6.9	2.3
152.5°	5.7	10.3	10.3	9.2	5.7	2.3
155°	4.6	8.0	9.2	8.0	5.7	3.4
157.5°	3.4	6.9	8.0	8.0	5.7	3.4
160°	2.3	5.7	6.9	6.9	4.6	3.4
162.5°	1.1	4.6	5.7	6.9	4.6	3.4
165°	0.0	3.4	4.6	5.7	4.6	3.4
167.5°	0.0	2.3	3.4	4.6	3.4	3.4
170°	0.0	1.1	2.3	3.4	3.4	3.4
172.5°	0.0	0.0	1.1	2.3	2.3	3.4
175°	0.0	0.0	0.0	1.1	2.3	3.4
177.5°	0.0	0.0	0.0	1.1	2.3	3.4
180°	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)