

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: P895349

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895349
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-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

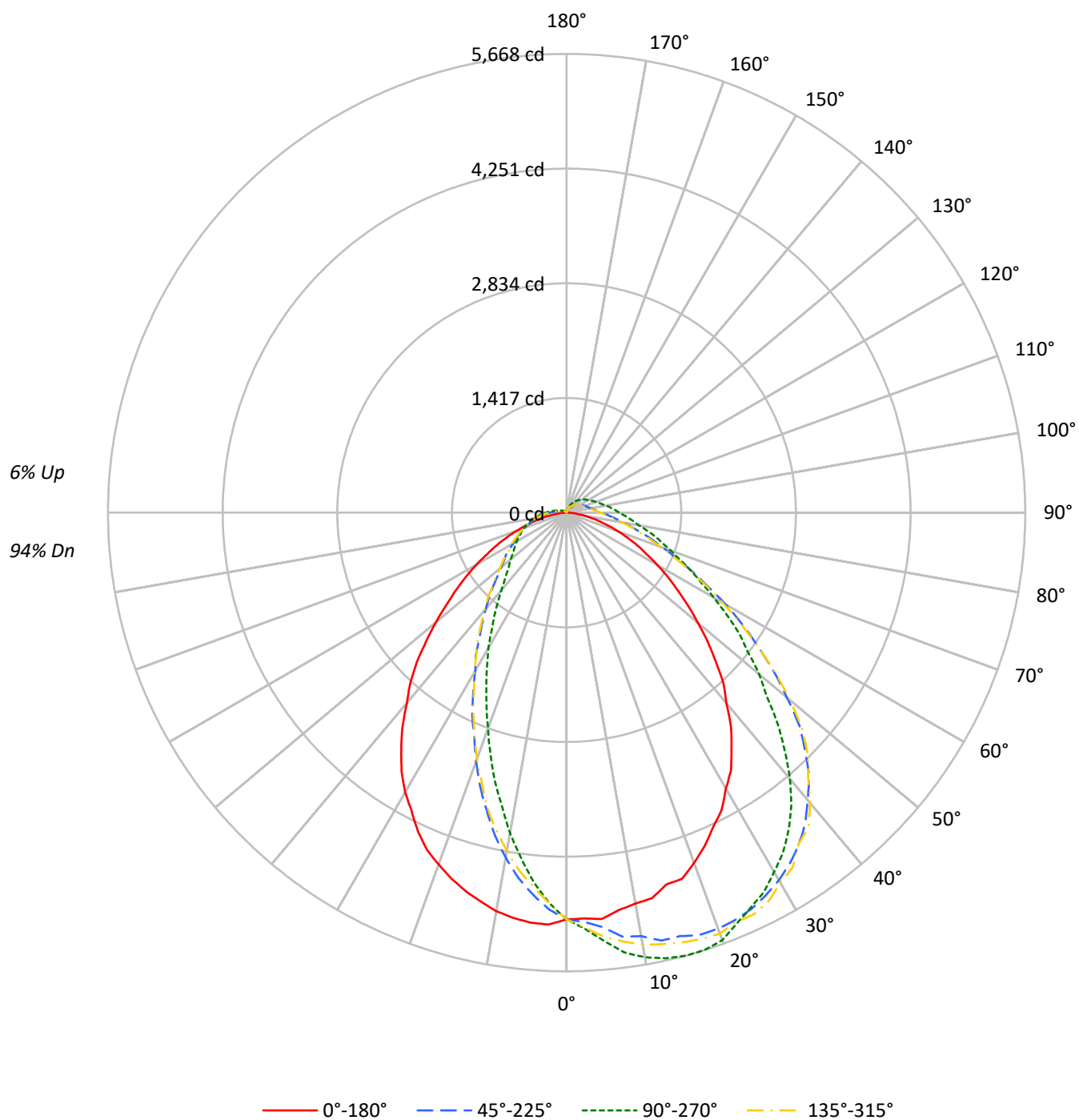
Lumens per Lamp: N/A
Luminaire Lumens: 12524.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

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
RCR																				
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94		
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81	79		
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69	66		
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59	57		
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51	49		
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45	43		
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40	38		
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	34		
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30		
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29	28		
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25519	25519	25519	25519
5°	25649	26006	25892	22477
10°	25224	26561	25715	19156
15°	24906	26465	25328	16017
20°	24749	25942	24855	13104
25°	23844	24739	24173	10782
30°	22883	23643	23179	8908
35°	21795	22312	21856	7258
40°	20101	20411	20091	5951
45°	18430	18016	18523	5071
50°	16437	15725	16360	4581
55°	14534	13775	14435	4208
60°	12805	11748	12692	3978
65°	11286	10117	11019	3779
70°	9674	8865	9346	3612
75°	7992	8059	7779	3479
80°	6320	7254	5745	3240
85°	4636	7004	3741	3037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 25553 cd/sqm

TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.1	3.8
10°-20°	1312.3	10.5
20°-30°	1887.5	15.1
30°-40°	2142.0	17.1
40°-50°	2047.1	16.3
50°-60°	1663.4	13.3
60°-70°	1160.6	9.3
70°-80°	719.0	5.7
80°-90°	412.4	3.3
90°-100°	246.5	2.0
100°-110°	161.8	1.3
110°-120°	113.4	0.9
120°-130°	82.2	0.7
130°-140°	54.6	0.4
140°-150°	30.8	0.2
150°-160°	13.7	0.1
160°-170°	3.9	0.0
170°-180°	0.3	0.0
0°-30°	3672.0	29.3
0°-40°	5814.0	46.4
0°-60°	9524.5	76.1
0°-90°	11816.6	94.4
90°-120°	521.8	4.2
90°-150°	689.4	5.5
90°-180°	707.0	5.6
0°-180°	12524.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5025	5025	5025	5025	5025	
5°	5038	5311	5086	4590	5038	475
15°	4757	5668	4837	3430	4757	1352
25°	4286	5384	4345	2346	4286	1977
35°	3554	4785	3564	1556	3554	2215
45°	2606	3689	2619	1038	2606	2011
55°	1678	2601	1667	795	1678	1510
65°	971	1691	948	632	971	963
75°	431	1132	420	489	431	465
85°	94	767	76	332	94	105
90°	3	648	0	255	3	7
95°	5	564	0	194	5	4
105°	3	434	0	105	3	3
115°	3	346	0	58	3	3
125°	3	281	0	38	3	3
135°	3	224	0	30	3	3
145°	3	158	0	20	3	2
155°	5	99	0	12	5	2
165°	5	46	0	5	5	1
175°	5	2	0	0	5	0
180°	2	2	2	2	2	

TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8
2.5°	5019.9	5057.7	5061.0	5179.5	5145.0	5189.4	5133.4	5143.3	5093.9	5080.8	4909.7
5°	5038.0	5118.6	5140.0	5344.0	5311.1	5334.2	5256.8	5200.9	5085.7	5016.6	4740.2
7.5°	4952.4	5164.7	5283.2	5427.9	5482.2	5500.3	5344.0	5240.4	5049.5	4880.1	4555.9
10°	4904.7	5197.6	5312.8	5530.0	5577.7	5543.1	5421.4	5250.3	5000.2	4727.0	4328.9
12.5°	4878.4	5215.7	5416.4	5638.5	5640.2	5604.0	5460.9	5276.6	4919.5	4562.5	4088.6
15°	4756.7	5212.4	5418.1	5643.5	5668.2	5645.1	5498.7	5258.5	4837.3	4358.5	3812.2
17.5°	4743.5	5204.2	5470.7	5707.7	5666.5	5650.1	5521.7	5250.3	4738.6	4151.2	3552.3
20°	4605.3	5186.1	5470.7	5635.3	5622.1	5628.7	5536.5	5238.7	4625.0	3927.4	3267.6
22.5°	4458.8	5164.7	5447.7	5572.7	5493.8	5613.9	5470.7	5207.5	4509.9	3693.8	2984.6
25°	4286.1	5130.1	5403.3	5483.9	5383.5	5477.3	5475.7	5159.8	4345.3	3442.0	2760.9
27.5°	4146.2	5075.8	5330.9	5452.6	5281.5	5362.1	5408.2	5102.2	4151.2	3193.6	2497.6
30°	3937.3	5006.7	5243.7	5261.8	5126.9	5228.9	5281.5	5029.8	3988.3	2912.2	2257.4
32.5°	3777.7	4927.8	5136.7	5112.0	4977.1	5112.0	5197.6	4957.4	3794.1	2665.4	2087.9
35°	3553.9	4832.3	5003.5	4873.5	4784.6	4896.5	4996.9	4880.1	3563.8	2402.2	1870.7
37.5°	3336.7	4748.4	4843.9	4682.6	4560.9	4685.9	4906.4	4735.3	3331.8	2193.2	1709.5
40°	3071.8	4555.9	4634.9	4416.1	4294.3	4478.6	4681.0	4610.2	3070.2	1976.0	1553.2
42.5°	2871.1	4412.8	4435.8	4136.4	3991.6	4187.4	4417.7	4432.5	2857.9	1780.2	1415.0
45°	2606.2	4212.0	4169.3	3840.2	3688.8	3864.9	4210.4	4249.9	2619.4	1610.8	1280.1
47.5°	2367.6	3988.3	3904.4	3519.4	3349.9	3558.9	3942.2	4045.9	2352.8	1454.5	1153.4
50°	2119.2	3738.2	3552.3	3219.9	3106.4	3210.0	3601.6	3772.7	2109.3	1299.8	1056.3
52.5°	1892.1	3461.8	3231.4	2933.6	2820.1	2905.7	3244.6	3501.3	1867.5	1169.8	970.7
55°	1678.2	3185.4	2887.6	2624.3	2601.3	2627.6	2882.6	3177.1	1666.7	1054.7	916.4
57.5°	1487.4	2849.7	2578.2	2384.1	2343.0	2364.3	2540.4	2843.1	1472.6	939.5	837.5
60°	1294.9	2505.8	2272.2	2122.5	2099.4	2115.9	2229.4	2517.4	1283.4	842.4	763.4
62.5°	1120.5	2160.3	1953.0	1897.1	1880.6	1880.6	1928.3	2191.6	1105.7	743.7	707.5
65°	970.7	1864.2	1707.9	1686.5	1691.4	1689.8	1660.1	1829.6	947.7	656.5	658.1
67.5°	819.4	1549.9	1462.7	1489.0	1508.8	1500.5	1438.0	1521.9	799.6	577.5	613.7
70°	679.5	1280.1	1263.6	1322.8	1368.9	1326.1	1235.6	1243.9	656.5	500.2	556.1
72.5°	547.9	1034.9	1110.6	1192.9	1237.3	1189.6	1064.5	1028.3	528.2	429.4	503.5
75°	431.1	832.5	952.6	1074.4	1132.0	1071.1	926.3	802.9	419.6	362.0	460.7
77.5°	329.1	659.8	814.4	955.9	1011.9	959.2	806.2	626.9	307.7	304.4	414.6
80°	235.3	521.6	722.3	858.9	909.9	858.9	699.3	495.2	213.9	243.5	365.3
82.5°	154.7	403.1	628.5	781.5	837.5	775.0	607.1	381.7	136.6	197.4	329.1
85°	93.8	319.2	547.9	702.6	766.7	705.8	531.4	289.6	75.7	151.4	286.3
87.5°	41.1	246.8	488.7	648.3	705.8	649.9	473.9	227.1	31.3	118.5	245.2
90°	3.3	195.8	431.1	597.3	648.3	595.6	419.6	184.3	0.0	85.6	210.6
92.5°	3.3	167.8	394.9	552.8	610.4	551.2	378.4	151.4	0.0	62.5	177.7
95°	4.9	141.5	358.7	518.3	564.3	513.3	345.5	130.0	0.0	42.8	149.7
97.5°	4.9	128.3	329.1	483.7	534.7	480.4	315.9	116.8	0.0	31.3	121.8
100°	3.3	118.5	306.0	450.8	498.5	447.5	292.9	105.3	0.0	19.7	98.7
102.5°	3.3	110.2	286.3	422.9	460.7	417.9	273.1	98.7	0.0	16.5	80.6
105°	3.3	105.3	268.2	389.9	434.4	389.9	256.7	92.1	0.0	13.2	62.5
107.5°	3.3	98.7	255.0	371.8	408.0	368.6	243.5	87.2	0.0	13.2	51.0
110°	3.3	93.8	243.5	345.5	386.7	348.8	232.0	79.0	0.0	8.2	41.1

TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	3.3	85.6	232.0	327.4	366.9	329.1	222.1	72.4	0.0	8.2	36.2
115°	3.3	77.3	222.1	315.9	345.5	312.6	212.2	64.2	0.0	6.6	32.9
117.5°	3.3	72.4	215.5	301.1	330.7	297.8	204.0	60.9	0.0	6.6	31.3
120°	3.3	69.1	205.7	286.3	309.3	283.0	194.1	57.6	0.0	6.6	29.6
122.5°	3.3	65.8	197.4	273.1	297.8	271.5	185.9	55.9	0.0	4.9	26.3
125°	3.3	62.5	185.9	258.3	281.4	255.0	171.1	54.3	0.0	3.3	23.0
127.5°	3.3	59.2	174.4	246.8	268.2	243.5	161.2	52.7	0.0	3.3	21.4
130°	3.3	57.6	159.6	232.0	253.4	228.7	149.7	52.7	0.0	3.3	19.7
132.5°	3.3	55.9	143.1	217.2	240.2	213.9	138.2	51.0	0.0	3.3	16.5
135°	3.3	54.3	126.7	202.4	223.8	199.1	128.3	49.4	0.0	3.3	14.8
137.5°	3.3	51.0	111.9	185.9	207.3	182.6	121.8	46.1	0.0	3.3	13.2
140°	3.3	47.7	100.4	172.8	190.9	167.8	111.9	42.8	0.0	1.6	9.9
142.5°	3.3	42.8	90.5	156.3	174.4	153.0	100.4	36.2	0.0	1.6	9.9
145°	3.3	37.8	82.3	136.6	158.0	136.6	93.8	32.9	0.0	1.6	8.2
147.5°	3.3	34.6	74.0	115.2	143.1	125.0	83.9	28.0	0.0	1.6	6.6
150°	3.3	31.3	64.2	97.1	126.7	110.2	77.3	24.7	0.0	0.0	4.9
152.5°	3.3	28.0	55.9	80.6	113.5	100.4	69.1	21.4	0.0	0.0	3.3
155°	4.9	26.3	47.7	70.7	98.7	87.2	57.6	18.1	0.0	0.0	3.3
157.5°	4.9	23.0	39.5	57.6	87.2	75.7	46.1	14.8	0.0	0.0	1.6
160°	4.9	21.4	32.9	44.4	72.4	62.5	37.8	11.5	0.0	0.0	1.6
162.5°	4.9	19.7	28.0	32.9	59.2	49.4	29.6	8.2	0.0	0.0	1.6
165°	4.9	16.5	24.7	23.0	46.1	37.8	23.0	4.9	0.0	0.0	0.0
167.5°	4.9	14.8	19.7	16.5	34.6	28.0	16.5	3.3	0.0	0.0	0.0
170°	4.9	11.5	16.5	11.5	9.9	18.1	9.9	1.6	0.0	0.0	0.0
172.5°	4.9	9.9	13.2	8.2	3.3	9.9	4.9	0.0	0.0	0.0	0.0
175°	4.9	8.2	8.2	4.9	1.6	3.3	0.0	0.0	0.0	0.0	0.0
177.5°	4.9	6.6	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8
2.5°	4886.6	4832.3	4783.0	4835.6	4873.5	5019.9
5°	4648.1	4590.5	4597.1	4644.8	4771.5	5038.0
7.5°	4401.3	4305.8	4328.9	4462.1	4649.7	4952.4
10°	4110.0	4022.8	4044.2	4245.0	4508.2	4904.7
12.5°	3850.1	3703.6	3828.7	4017.9	4343.7	4878.4
15°	3545.7	3430.5	3498.0	3777.7	4185.7	4756.7
17.5°	3216.6	3127.8	3208.4	3486.5	3991.6	4743.5
20°	2963.2	2839.8	2935.3	3241.3	3751.4	4605.3
22.5°	2678.6	2584.8	2685.2	2966.5	3506.2	4458.8
25°	2445.0	2346.2	2446.6	2726.3	3289.0	4286.1
27.5°	2217.9	2127.4	2217.9	2474.6	3073.5	4146.2
30°	2018.8	1931.6	2023.8	2270.6	2821.7	3937.3
32.5°	1832.9	1721.0	1839.5	2078.1	2599.6	3777.7
35°	1640.4	1556.5	1645.3	1910.2	2352.8	3553.9
37.5°	1480.8	1393.6	1498.9	1726.0	2143.9	3336.7
40°	1329.4	1252.1	1336.0	1577.9	1966.2	3071.8
42.5°	1211.0	1133.6	1219.2	1443.0	1786.8	2871.1
45°	1095.8	1038.2	1107.3	1294.9	1605.8	2606.2
47.5°	1011.9	962.5	1020.1	1186.3	1454.5	2367.6
50°	939.5	904.9	946.1	1077.7	1298.2	2119.2
52.5°	875.3	840.8	888.5	993.8	1174.8	1892.1
55°	826.0	794.7	830.9	914.8	1051.4	1678.2
57.5°	771.7	751.9	779.9	830.9	954.3	1487.4
60°	732.2	710.8	740.4	781.5	844.1	1294.9
62.5°	687.7	676.2	694.3	727.2	760.1	1120.5
65°	648.3	631.8	654.8	666.4	663.1	970.7
67.5°	605.5	600.5	613.7	615.4	590.7	819.4
70°	561.1	557.8	574.2	564.3	513.3	679.5
72.5°	524.9	524.9	534.7	515.0	447.5	547.9
75°	485.4	488.7	496.9	473.9	376.8	431.1
77.5°	449.2	452.5	454.1	422.9	315.9	329.1
80°	408.0	406.4	422.9	383.4	256.7	235.3
82.5°	371.8	365.3	375.1	335.6	207.3	154.7
85°	330.7	332.4	338.9	292.9	166.2	93.8
87.5°	297.8	297.8	304.4	258.3	125.0	41.1
90°	258.3	255.0	264.9	218.8	93.8	3.3
92.5°	225.4	225.4	232.0	187.6	69.1	3.3
95°	192.5	194.1	199.1	154.7	52.7	4.9
97.5°	164.5	166.2	172.8	131.6	37.8	4.9
100°	139.9	141.5	144.8	105.3	29.6	3.3
102.5°	116.8	121.8	121.8	87.2	23.0	3.3
105°	98.7	105.3	102.0	70.7	21.4	3.3
107.5°	82.3	88.8	88.8	57.6	21.4	3.3
110°	67.5	77.3	75.7	49.4	16.5	3.3



TEST NUMBER: P895349

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	57.6	65.8	60.9	42.8	16.5	3.3
115°	49.4	57.6	54.3	39.5	14.8	3.3
117.5°	44.4	49.4	49.4	37.8	14.8	3.3
120°	41.1	46.1	44.4	36.2	14.8	3.3
122.5°	37.8	41.1	41.1	32.9	13.2	3.3
125°	36.2	37.8	39.5	29.6	13.2	3.3
127.5°	34.6	37.8	37.8	28.0	11.5	3.3
130°	31.3	34.6	34.6	26.3	11.5	3.3
132.5°	28.0	31.3	31.3	24.7	11.5	3.3
135°	26.3	29.6	29.6	23.0	11.5	3.3
137.5°	24.7	26.3	26.3	21.4	11.5	3.3
140°	21.4	24.7	24.7	19.7	11.5	3.3
142.5°	19.7	23.0	23.0	18.1	9.9	3.3
145°	18.1	19.7	21.4	16.5	9.9	3.3
147.5°	14.8	18.1	19.7	14.8	9.9	3.3
150°	11.5	16.5	16.5	14.8	9.9	3.3
152.5°	8.2	14.8	14.8	13.2	8.2	3.3
155°	6.6	11.5	13.2	11.5	8.2	4.9
157.5°	4.9	9.9	11.5	11.5	8.2	4.9
160°	3.3	8.2	9.9	9.9	6.6	4.9
162.5°	1.6	6.6	8.2	9.9	6.6	4.9
165°	0.0	4.9	6.6	8.2	6.6	4.9
167.5°	0.0	3.3	4.9	6.6	4.9	4.9
170°	0.0	1.6	3.3	4.9	4.9	4.9
172.5°	0.0	0.0	1.6	3.3	3.3	4.9
175°	0.0	0.0	0.0	1.6	3.3	4.9
177.5°	0.0	0.0	0.0	1.6	3.3	4.9
180°	1.6	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)