

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: P895359

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895359
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-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

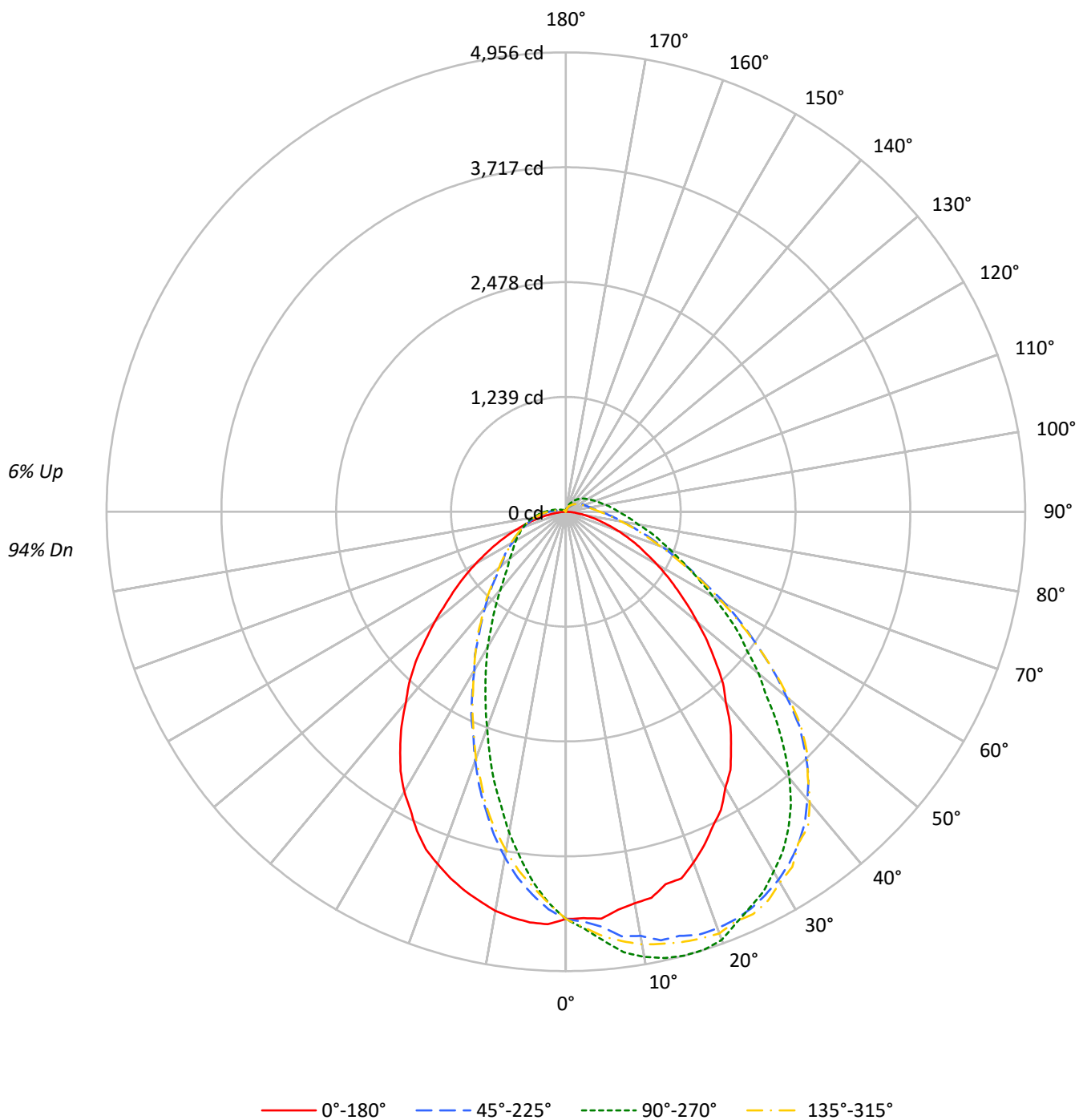
Lumens per Lamp: N/A
Luminaire Lumens: 10950.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

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°	22312	22312	22312	22312
5°	22425	22737	22638	19652
10°	22054	23222	22483	16749
15°	21775	23139	22144	14005
20°	21638	22682	21731	11457
25°	20847	21630	21135	9427
30°	20007	20671	20266	7788
35°	19056	19508	19109	6346
40°	17575	17845	17565	5203
45°	16114	15752	16195	4433
50°	14371	13749	14304	4005
55°	12708	12044	12620	3679
60°	11195	10272	11097	3478
65°	9868	8845	9634	3304
70°	8458	7751	8172	3158
75°	6987	7046	6800	3041
80°	5525	6342	5023	2832
85°	4053	6124	3272	2655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 22341 cd/sqm

TEST NUMBER: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	3.8
10°-20°	1147.4	10.5
20°-30°	1650.3	15.1
30°-40°	1872.8	17.1
40°-50°	1789.8	16.3
50°-60°	1454.4	13.3
60°-70°	1014.8	9.3
70°-80°	628.6	5.7
80°-90°	360.6	3.3
90°-100°	215.6	2.0
100°-110°	141.5	1.3
110°-120°	99.2	0.9
120°-130°	71.8	0.7
130°-140°	47.8	0.4
140°-150°	26.9	0.2
150°-160°	12.0	0.1
160°-170°	3.4	0.0
170°-180°	0.3	0.0
0°-30°	3210.5	29.3
0°-40°	5083.3	46.4
0°-60°	8327.5	76.1
0°-90°	10331.5	94.4
90°-120°	456.2	4.2
90°-150°	602.8	5.5
90°-180°	619.0	5.7
0°-180°	10950.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4393	4393	4393	4393	4393	
5°	4405	4644	4447	4014	4405	415
15°	4159	4956	4229	2999	4159	1182
25°	3747	4707	3799	2051	3747	1729
35°	3107	4183	3116	1361	3107	1937
45°	2279	3225	2290	908	2279	1758
55°	1467	2274	1457	695	1467	1320
65°	849	1479	829	552	849	842
75°	377	990	367	427	377	407
85°	82	670	66	291	82	92
90°	3	567	0	223	3	6
95°	4	493	0	170	4	3
105°	3	380	0	92	3	3
115°	3	302	0	50	3	3
125°	3	246	0	33	3	3
135°	3	196	0	26	3	2
145°	3	138	0	17	3	2
155°	4	86	0	10	4	2
165°	4	40	0	4	4	1
175°	4	1	0	0	4	0
180°	1	1	1	1	1	

TEST NUMBER: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3
2.5°	4389.0	4422.1	4425.0	4528.5	4498.3	4537.2	4488.3	4496.9	4453.7	4442.2	4292.6
5°	4404.8	4475.3	4494.0	4672.4	4643.6	4663.8	4596.2	4547.3	4446.6	4386.1	4144.5
7.5°	4330.0	4515.6	4619.2	4745.8	4793.2	4809.1	4672.4	4581.8	4414.9	4266.7	3983.3
10°	4288.3	4544.4	4645.1	4835.0	4876.7	4846.5	4740.0	4590.4	4371.7	4132.9	3784.8
12.5°	4265.3	4560.2	4735.7	4929.9	4931.3	4899.7	4774.5	4613.4	4301.3	3989.1	3574.8
15°	4158.8	4557.3	4737.1	4934.2	4955.8	4935.7	4807.6	4597.6	4229.3	3810.7	3333.1
17.5°	4147.3	4550.1	4783.2	4990.3	4954.4	4940.0	4827.8	4590.4	4143.0	3629.5	3105.8
20°	4026.5	4534.3	4783.2	4927.0	4915.5	4921.3	4840.7	4580.3	4043.8	3433.8	2857.0
22.5°	3898.5	4515.6	4763.0	4872.4	4803.3	4908.3	4783.2	4553.0	3943.1	3229.5	2609.5
25°	3747.4	4485.4	4724.2	4794.7	4706.9	4788.9	4787.5	4511.3	3799.2	3009.4	2413.9
27.5°	3625.1	4437.9	4660.9	4767.3	4617.7	4688.2	4728.5	4460.9	3629.5	2792.2	2183.7
30°	3442.4	4377.5	4584.7	4600.5	4482.5	4571.7	4617.7	4397.6	3487.0	2546.2	1973.7
32.5°	3302.9	4308.5	4491.1	4469.6	4351.6	4469.6	4544.4	4334.3	3317.3	2330.4	1825.5
35°	3107.3	4225.0	4374.6	4261.0	4183.3	4281.1	4368.9	4266.7	3115.9	2100.3	1635.6
37.5°	2917.4	4151.6	4235.1	4094.1	3987.7	4097.0	4289.7	4140.1	2913.1	1917.6	1494.7
40°	2685.8	3983.3	4052.4	3861.1	3754.6	3915.7	4092.7	4030.8	2684.3	1727.7	1358.0
42.5°	2510.3	3858.2	3878.3	3616.5	3489.9	3661.1	3862.5	3875.4	2498.8	1556.5	1237.2
45°	2278.7	3682.7	3645.3	3357.6	3225.2	3379.1	3681.2	3715.8	2290.2	1408.3	1119.2
47.5°	2070.1	3487.0	3413.7	3077.1	2928.9	3111.6	3446.8	3537.4	2057.1	1271.7	1008.4
50°	1852.8	3268.4	3105.8	2815.2	2716.0	2806.6	3149.0	3298.6	1844.2	1136.5	923.5
52.5°	1654.3	3026.7	2825.3	2564.9	2465.7	2540.5	2836.8	3061.2	1632.8	1022.8	848.7
55°	1467.3	2785.0	2524.7	2294.5	2274.3	2297.4	2520.3	2777.8	1457.2	922.1	801.3
57.5°	1300.4	2491.6	2254.2	2084.5	2048.5	2067.2	2221.1	2485.8	1287.5	821.4	732.2
60°	1132.1	2190.9	1986.6	1855.7	1835.6	1850.0	1949.2	2201.0	1122.1	736.5	667.5
62.5°	979.7	1888.8	1707.6	1658.6	1644.3	1644.3	1686.0	1916.1	966.7	650.2	618.6
65°	848.7	1629.9	1493.2	1474.5	1478.8	1477.4	1451.5	1599.7	828.6	574.0	575.4
67.5°	716.4	1355.1	1278.9	1301.9	1319.1	1312.0	1257.3	1330.7	699.1	504.9	536.6
70°	594.1	1119.2	1104.8	1156.6	1196.9	1159.5	1080.3	1087.5	574.0	437.3	486.2
72.5°	479.0	904.8	971.0	1042.9	1081.8	1040.1	930.7	899.1	461.8	375.5	440.2
75°	376.9	727.9	832.9	939.4	989.7	936.5	809.9	702.0	366.8	316.5	402.8
77.5°	287.7	576.9	712.1	835.8	884.7	838.7	704.9	548.1	269.0	266.1	362.5
80°	205.7	456.0	631.5	750.9	795.5	750.9	611.4	433.0	187.0	212.9	319.4
82.5°	135.2	352.4	549.5	683.3	732.2	677.6	530.8	333.7	119.4	172.6	287.7
85°	82.0	279.1	479.0	614.3	670.4	617.1	464.7	253.2	66.2	132.3	250.3
87.5°	36.0	215.8	427.2	566.8	617.1	568.2	414.3	198.5	27.3	103.6	214.3
90°	2.9	171.2	376.9	522.2	566.8	520.8	366.8	161.1	0.0	74.8	184.1
92.5°	2.9	146.7	345.3	483.4	533.7	481.9	330.9	132.3	0.0	54.7	155.4
95°	4.3	123.7	313.6	453.1	493.4	448.8	302.1	113.6	0.0	37.4	130.9
97.5°	4.3	112.2	287.7	422.9	467.5	420.1	276.2	102.1	0.0	27.3	106.5
100°	2.9	103.6	267.6	394.2	435.9	391.3	256.1	92.1	0.0	17.3	86.3
102.5°	2.9	96.4	250.3	369.7	402.8	365.4	238.8	86.3	0.0	14.4	70.5
105°	2.9	92.1	234.5	340.9	379.8	340.9	224.4	80.6	0.0	11.5	54.7
107.5°	2.9	86.3	223.0	325.1	356.8	322.2	212.9	76.2	0.0	11.5	44.6
110°	2.9	82.0	212.9	302.1	338.1	305.0	202.8	69.1	0.0	7.2	36.0

TEST NUMBER: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	2.9	74.8	202.8	286.3	320.8	287.7	194.2	63.3	0.0	7.2	31.6
115°	2.9	67.6	194.2	276.2	302.1	273.3	185.6	56.1	0.0	5.8	28.8
117.5°	2.9	63.3	188.4	263.3	289.1	260.4	178.4	53.2	0.0	5.8	27.3
120°	2.9	60.4	179.8	250.3	270.4	247.4	169.7	50.3	0.0	5.8	25.9
122.5°	2.9	57.5	172.6	238.8	260.4	237.4	162.6	48.9	0.0	4.3	23.0
125°	2.9	54.7	162.6	225.9	246.0	223.0	149.6	47.5	0.0	2.9	20.1
127.5°	2.9	51.8	152.5	215.8	234.5	212.9	141.0	46.0	0.0	2.9	18.7
130°	2.9	50.3	139.5	202.8	221.5	200.0	130.9	46.0	0.0	2.9	17.3
132.5°	2.9	48.9	125.2	189.9	210.0	187.0	120.8	44.6	0.0	2.9	14.4
135°	2.9	47.5	110.8	176.9	195.6	174.1	112.2	43.2	0.0	2.9	12.9
137.5°	2.9	44.6	97.8	162.6	181.3	159.7	106.5	40.3	0.0	2.9	11.5
140°	2.9	41.7	87.8	151.0	166.9	146.7	97.8	37.4	0.0	1.4	8.6
142.5°	2.9	37.4	79.1	136.7	152.5	133.8	87.8	31.6	0.0	1.4	8.6
145°	2.9	33.1	71.9	119.4	138.1	119.4	82.0	28.8	0.0	1.4	7.2
147.5°	2.9	30.2	64.7	100.7	125.2	109.3	73.4	24.5	0.0	1.4	5.8
150°	2.9	27.3	56.1	84.9	110.8	96.4	67.6	21.6	0.0	0.0	4.3
152.5°	2.9	24.5	48.9	70.5	99.3	87.8	60.4	18.7	0.0	0.0	2.9
155°	4.3	23.0	41.7	61.9	86.3	76.2	50.3	15.8	0.0	0.0	2.9
157.5°	4.3	20.1	34.5	50.3	76.2	66.2	40.3	12.9	0.0	0.0	1.4
160°	4.3	18.7	28.8	38.8	63.3	54.7	33.1	10.1	0.0	0.0	1.4
162.5°	4.3	17.3	24.5	28.8	51.8	43.2	25.9	7.2	0.0	0.0	1.4
165°	4.3	14.4	21.6	20.1	40.3	33.1	20.1	4.3	0.0	0.0	0.0
167.5°	4.3	12.9	17.3	14.4	30.2	24.5	14.4	2.9	0.0	0.0	0.0
170°	4.3	10.1	14.4	10.1	8.6	15.8	8.6	1.4	0.0	0.0	0.0
172.5°	4.3	8.6	11.5	7.2	2.9	8.6	4.3	0.0	0.0	0.0	0.0
175°	4.3	7.2	7.2	4.3	1.4	2.9	0.0	0.0	0.0	0.0	0.0
177.5°	4.3	5.8	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

TEST NUMBER: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4393.3	4393.3	4393.3	4393.3	4393.3	4393.3
2.5°	4272.5	4225.0	4181.9	4227.9	4261.0	4389.0
5°	4063.9	4013.5	4019.3	4061.0	4171.8	4404.8
7.5°	3848.1	3764.7	3784.8	3901.3	4065.3	4330.0
10°	3593.5	3517.2	3536.0	3711.5	3941.6	4288.3
12.5°	3366.2	3238.2	3347.5	3512.9	3797.8	4265.3
15°	3100.1	2999.4	3058.4	3302.9	3659.7	4158.8
17.5°	2812.4	2734.7	2805.2	3048.3	3489.9	4147.3
20°	2590.8	2482.9	2566.4	2833.9	3279.9	4026.5
22.5°	2342.0	2260.0	2347.7	2593.7	3065.5	3898.5
25°	2137.7	2051.4	2139.1	2383.7	2875.7	3747.4
27.5°	1939.2	1860.0	1939.2	2163.6	2687.2	3625.1
30°	1765.1	1688.9	1769.4	1985.2	2467.1	3442.4
32.5°	1602.5	1504.7	1608.3	1816.9	2272.9	3302.9
35°	1434.2	1360.9	1438.5	1670.2	2057.1	3107.3
37.5°	1294.7	1218.5	1310.5	1509.0	1874.4	2917.4
40°	1162.3	1094.7	1168.1	1379.6	1719.1	2685.8
42.5°	1058.8	991.2	1066.0	1261.6	1562.3	2510.3
45°	958.1	907.7	968.1	1132.1	1404.0	2278.7
47.5°	884.7	841.6	891.9	1037.2	1271.7	2070.1
50°	821.4	791.2	827.2	942.2	1135.0	1852.8
52.5°	765.3	735.1	776.8	868.9	1027.1	1654.3
55°	722.2	694.8	726.5	799.8	919.2	1467.3
57.5°	674.7	657.4	681.9	726.5	834.4	1300.4
60°	640.2	621.5	647.3	683.3	738.0	1132.1
62.5°	601.3	591.2	607.1	635.8	664.6	979.7
65°	566.8	552.4	572.5	582.6	579.7	848.7
67.5°	529.4	525.1	536.6	538.0	516.4	716.4
70°	490.5	487.7	502.1	493.4	448.8	594.1
72.5°	458.9	458.9	467.5	450.3	391.3	479.0
75°	424.4	427.2	434.4	414.3	329.4	376.9
77.5°	392.7	395.6	397.0	369.7	276.2	287.7
80°	356.8	355.3	369.7	335.2	224.4	205.7
82.5°	325.1	319.4	328.0	293.5	181.3	135.2
85°	289.1	290.6	296.3	256.1	145.3	82.0
87.5°	260.4	260.4	266.1	225.9	109.3	36.0
90°	225.9	223.0	231.6	191.3	82.0	2.9
92.5°	197.1	197.1	202.8	164.0	60.4	2.9
95°	168.3	169.7	174.1	135.2	46.0	4.3
97.5°	143.9	145.3	151.0	115.1	33.1	4.3
100°	122.3	123.7	126.6	92.1	25.9	2.9
102.5°	102.1	106.5	106.5	76.2	20.1	2.9
105°	86.3	92.1	89.2	61.9	18.7	2.9
107.5°	71.9	77.7	77.7	50.3	18.7	2.9
110°	59.0	67.6	66.2	43.2	14.4	2.9

TEST NUMBER: P895359

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	50.3	57.5	53.2	37.4	14.4	2.9
115°	43.2	50.3	47.5	34.5	12.9	2.9
117.5°	38.8	43.2	43.2	33.1	12.9	2.9
120°	36.0	40.3	38.8	31.6	12.9	2.9
122.5°	33.1	36.0	36.0	28.8	11.5	2.9
125°	31.6	33.1	34.5	25.9	11.5	2.9
127.5°	30.2	33.1	33.1	24.5	10.1	2.9
130°	27.3	30.2	30.2	23.0	10.1	2.9
132.5°	24.5	27.3	27.3	21.6	10.1	2.9
135°	23.0	25.9	25.9	20.1	10.1	2.9
137.5°	21.6	23.0	23.0	18.7	10.1	2.9
140°	18.7	21.6	21.6	17.3	10.1	2.9
142.5°	17.3	20.1	20.1	15.8	8.6	2.9
145°	15.8	17.3	18.7	14.4	8.6	2.9
147.5°	12.9	15.8	17.3	12.9	8.6	2.9
150°	10.1	14.4	14.4	12.9	8.6	2.9
152.5°	7.2	12.9	12.9	11.5	7.2	2.9
155°	5.8	10.1	11.5	10.1	7.2	4.3
157.5°	4.3	8.6	10.1	10.1	7.2	4.3
160°	2.9	7.2	8.6	8.6	5.8	4.3
162.5°	1.4	5.8	7.2	8.6	5.8	4.3
165°	0.0	4.3	5.8	7.2	5.8	4.3
167.5°	0.0	2.9	4.3	5.8	4.3	4.3
170°	0.0	1.4	2.9	4.3	4.3	4.3
172.5°	0.0	0.0	1.4	2.9	2.9	4.3
175°	0.0	0.0	0.0	1.4	2.9	4.3
177.5°	0.0	0.0	0.0	1.4	2.9	4.3
180°	1.4	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)