

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
(formerly Eaton)

Brand: LUMIERE

Report Number: P394982

Luminaire Tested: **303-A1-LEDB1-TSAM-UNV-T5X-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-A1-LEDB1-TSAM-UNV-T5X-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, ONE LIGHTBAR, TYPE 5 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

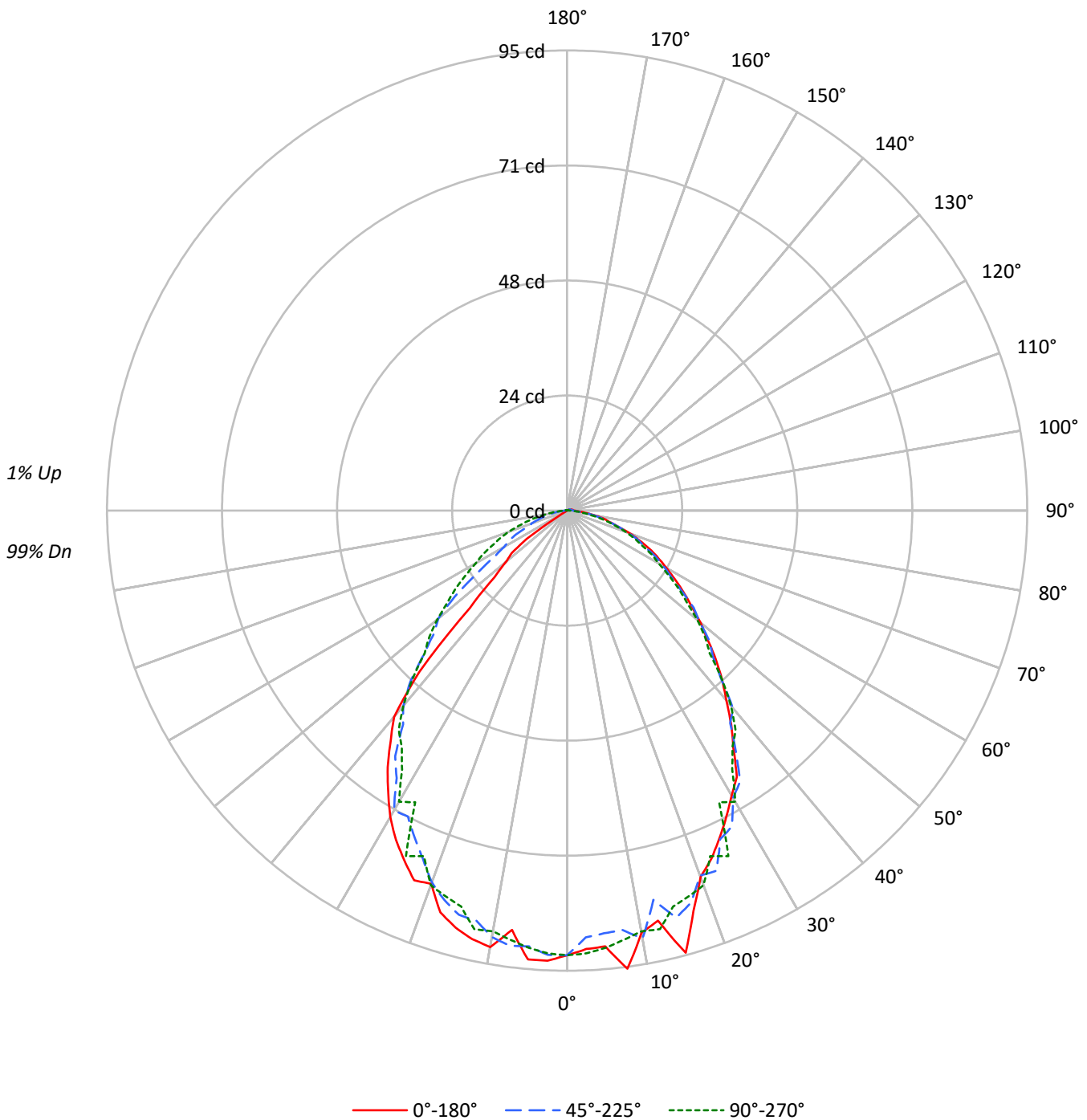
Lumens per Lamp: N/A
Luminaire Lumens: 184.6 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.11 / 1.21
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.21' x H: 0.01')
CIE Type: Direct

Input Watts (W): 6.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99								
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86								
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75								
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	74	70	67	65								
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57								
5	80	69	61	55	78	68	60	54	65	59	54	63	58	53	62	57	52	50								
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45								
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40								
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37								
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33								
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12648	12648	12648
5°	12437	12501	12809
10°	12278	12282	12694
15°	13308	11982	12548
20°	11600	11951	11816
25°	11078	11817	11836
30°	10511	10874	11301
35°	9731	9824	10512
40°	8835	9253	9613
45°	8069	7895	5280
50°	7279	7271	3345
55°	6587	6502	2293
60°	6004	5742	0
65°	5557	5242	0
70°	4911	4842	0
75°	4063	4067	0
80°	3742	3101	0
85°	2756	2181	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	4.7
10°-20°	24.2	13.1
20°-30°	34.9	18.9
30°-40°	38.1	20.6
40°-50°	31.9	17.3
50°-60°	22.2	12.0
60°-70°	13.9	7.5
70°-80°	7.4	4.0
80°-90°	2.2	1.2
90°-100°	0.6	0.3
100°-110°	0.4	0.2
110°-120°	0.2	0.1
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	67.8	36.7
0°-40°	105.8	57.3
0°-60°	160.0	86.7
0°-90°	183.4	99.4
90°-120°	1.2	0.6
90°-150°	1.2	0.6
90°-180°	1.0	0.5
0°-180°	184.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	90	88	91	90	93	9
15°	94	87	85	86	89	25
25°	74	75	79	74	80	34
35°	60	61	60	62	65	37
45°	43	42	42	42	28	33
55°	29	29	28	23	10	26
65°	19	18	17	12	0	19
75°	9	9	8	5	0	10
85°	3	2	2	1	0	3
90°	2	1	0	0	0	1
95°	1	1	0	0	0	1
105°	1	1	0	0	0	1
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P394982

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	90.6	90.6	87.0	92.1	90.0	88.2	95.4	90.6	91.8	90.6	91.5
5°	90.3	90.0	91.5	91.8	89.7	87.6	88.8	92.1	91.5	92.1	90.6
7.5°	95.4	89.7	90.6	90.9	88.5	87.3	88.2	87.6	90.6	89.4	89.4
10°	88.5	85.5	87.9	89.7	89.4	89.7	93.0	88.2	89.7	87.9	88.2
12.5°	86.7	84.0	88.2	87.9	85.5	82.3	88.5	86.7	85.2	87.6	88.5
15°	94.5	85.8	86.7	87.6	83.7	87.0	86.7	82.9	89.7	84.3	84.6
17.5°	86.7	83.7	84.3	84.0	82.3	84.9	86.7	83.2	84.6	81.7	83.5
20°	80.5	81.1	82.0	81.4	79.0	80.2	82.0	82.3	82.0	78.7	82.3
22.5°	77.8	78.7	77.8	80.2	76.6	80.5	79.3	79.3	79.3	78.1	77.2
25°	74.5	75.7	74.8	75.4	73.0	74.8	76.0	74.8	76.3	73.9	78.7
27.5°	71.2	69.7	70.9	72.1	71.5	73.6	72.4	69.4	73.6	72.1	67.9
30°	67.9	66.7	69.4	70.3	67.9	68.5	69.4	68.2	70.0	67.0	69.4
32.5°	65.2	63.1	65.5	66.1	64.0	66.4	64.9	64.6	66.1	61.3	63.4
35°	59.8	61.3	61.9	60.4	60.1	60.7	62.2	58.0	62.2	58.9	59.5
37.5°	55.6	57.4	57.1	56.2	55.9	55.3	55.9	51.7	56.8	54.4	57.1
40°	51.1	49.4	52.6	48.2	49.4	53.2	52.9	50.0	53.2	52.3	52.6
42.5°	47.3	47.0	49.4	45.2	44.9	47.0	46.1	46.1	48.5	45.5	47.3
45°	43.4	43.1	44.6	41.3	41.0	42.5	43.4	41.9	42.5	41.3	41.6
47.5°	39.2	40.7	40.4	39.2	35.9	39.8	36.2	36.2	38.3	38.3	38.6
50°	35.9	37.4	35.9	35.9	34.4	35.6	34.1	32.3	34.7	35.3	35.0
52.5°	32.3	32.3	33.2	32.3	31.1	32.9	29.3	29.6	31.4	31.4	31.1
55°	29.3	30.5	30.2	29.3	29.0	28.7	27.2	27.8	27.5	28.4	28.1
57.5°	26.3	26.6	27.5	28.1	26.3	25.4	24.5	24.2	25.1	25.1	24.8
60°	23.6	24.5	24.5	24.2	22.4	23.0	21.2	22.1	21.5	21.8	21.8
62.5°	21.2	21.8	23.0	21.2	20.9	20.6	19.1	19.7	19.1	20.0	19.7
65°	18.8	19.4	19.7	19.1	18.5	17.6	17.3	16.7	17.3	17.3	17.0
67.5°	16.2	16.7	16.5	16.2	15.6	15.9	15.3	15.0	14.4	14.4	15.0
70°	13.8	14.4	14.1	14.1	13.5	13.2	12.6	12.3	12.0	12.6	12.9
72.5°	11.1	12.3	11.7	11.7	11.4	11.1	10.8	10.2	10.2	10.5	10.5
75°	9.0	10.2	10.2	9.6	9.6	8.7	8.7	8.7	8.4	8.4	8.4
77.5°	7.8	7.8	7.8	7.5	7.2	7.2	6.6	6.9	6.3	6.3	6.3
80°	6.0	6.0	6.0	5.7	5.4	5.7	5.1	5.1	4.8	4.8	4.5
82.5°	4.2	4.5	4.2	4.2	3.9	3.9	3.6	3.6	3.3	3.3	3.0
85°	2.7	3.0	3.0	3.0	2.7	2.4	2.4	2.1	1.8	1.8	1.8
87.5°	2.1	2.1	1.8	1.8	1.8	1.5	1.5	1.2	0.9	0.9	0.9
90°	1.5	1.8	1.5	1.5	1.2	1.2	0.9	0.9	0.6	0.3	0.3
92.5°	1.2	1.5	1.5	1.2	1.2	1.2	0.9	0.6	0.6	0.3	0.3
95°	1.2	1.2	1.2	1.2	1.2	0.9	0.9	0.6	0.3	0.3	0.3
97.5°	1.2	1.2	1.2	1.2	0.9	0.9	0.9	0.6	0.3	0.3	0.3
100°	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.3	0.3	0.3
102.5°	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6	0.3	0.3	0.3
105°	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3
107.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
110°	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3



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CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
117.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
120°	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.0	0.0
122.5°	0.3	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	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	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	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	90.0	90.3	89.7	95.7	91.8	91.2	92.4	92.4	92.7	93.0
5°	89.4	90.0	92.7	93.0	90.3	95.1	92.1	93.9	92.4	93.0
7.5°	88.5	89.4	87.9	94.2	90.6	93.0	91.5	93.0	91.5	87.3
10°	87.0	86.4	86.7	95.1	89.4	88.8	90.9	90.3	93.3	91.5
12.5°	84.3	87.3	87.0	91.5	86.7	89.7	86.7	85.8	91.8	90.6
15°	81.7	85.5	85.5	88.2	86.4	84.3	85.5	87.9	87.3	89.1
17.5°	81.7	81.4	81.1	85.8	84.3	82.0	86.1	85.5	87.6	87.0
20°	80.8	78.7	78.7	83.5	81.7	81.4	89.7	82.9	85.2	82.0
22.5°	76.0	79.0	80.8	83.2	77.8	77.2	81.4	80.8	82.0	82.6
25°	75.7	68.2	76.0	77.5	74.5	76.3	81.4	78.1	76.9	79.6
27.5°	72.7	73.0	73.0	76.0	71.2	73.3	78.1	73.3	75.1	76.6
30°	69.4	69.7	66.7	73.9	71.5	69.7	71.5	71.5	70.3	73.0
32.5°	65.5	66.1	63.1	66.7	65.5	65.2	67.6	68.5	67.0	68.8
35°	59.5	57.1	61.6	64.0	61.9	58.9	64.0	63.7	64.6	64.6
37.5°	50.8	55.6	55.3	59.8	55.6	55.9	58.9	59.2	59.8	59.8
40°	50.5	49.1	53.2	54.4	52.6	53.2	55.3	53.8	51.7	55.6
42.5°	45.8	46.1	46.1	49.7	47.9	48.2	48.2	45.2	46.1	45.2
45°	43.4	42.2	43.4	44.6	41.6	41.9	41.9	34.1	29.6	28.4
47.5°	37.7	38.0	38.9	39.2	37.1	36.5	31.4	21.5	18.5	20.3
50°	35.6	35.9	35.0	36.8	34.7	30.8	21.5	17.0	15.9	16.5
52.5°	31.7	30.2	31.7	31.7	29.3	20.6	18.5	13.5	12.9	14.4
55°	27.5	29.0	28.7	28.4	23.0	15.9	16.5	11.7	10.2	10.2
57.5°	25.4	25.4	25.4	25.1	17.9	14.4	13.2	5.1	1.5	1.2
60°	22.7	21.2	22.7	21.2	15.0	12.6	7.2	0.6	0.0	0.0
62.5°	20.0	19.7	20.0	17.3	13.5	8.1	4.8	0.3	0.0	0.0
65°	17.3	17.3	17.6	15.0	11.7	5.4	3.9	0.0	0.0	0.0
67.5°	15.0	14.7	15.3	12.9	8.7	5.1	3.3	0.0	0.0	0.0
70°	12.6	12.9	12.9	10.5	7.8	4.2	2.7	0.3	0.0	0.0
72.5°	10.5	10.8	10.5	9.0	6.3	3.6	2.4	0.3	0.0	0.0
75°	8.4	8.7	8.4	7.2	5.1	2.7	1.8	0.3	0.0	0.0
77.5°	6.6	6.6	6.6	5.7	3.9	2.4	1.5	0.3	0.0	0.0
80°	4.8	5.1	4.8	4.2	3.0	1.8	1.2	0.0	0.0	0.0
82.5°	3.3	3.3	3.3	2.7	2.1	1.2	0.9	0.0	0.0	0.0
85°	1.8	2.1	2.1	1.8	1.2	0.6	0.6	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.6	0.6	0.3	0.0	0.0	0.0
90°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
92.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
95°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
97.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
100°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
102.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
105°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
107.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
110°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P394982

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.3	0.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)