

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: P394907

Luminaire Tested: **303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-623-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, ONE LIGHTBAR, TYPE 4 WITH EDGE GLOW
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

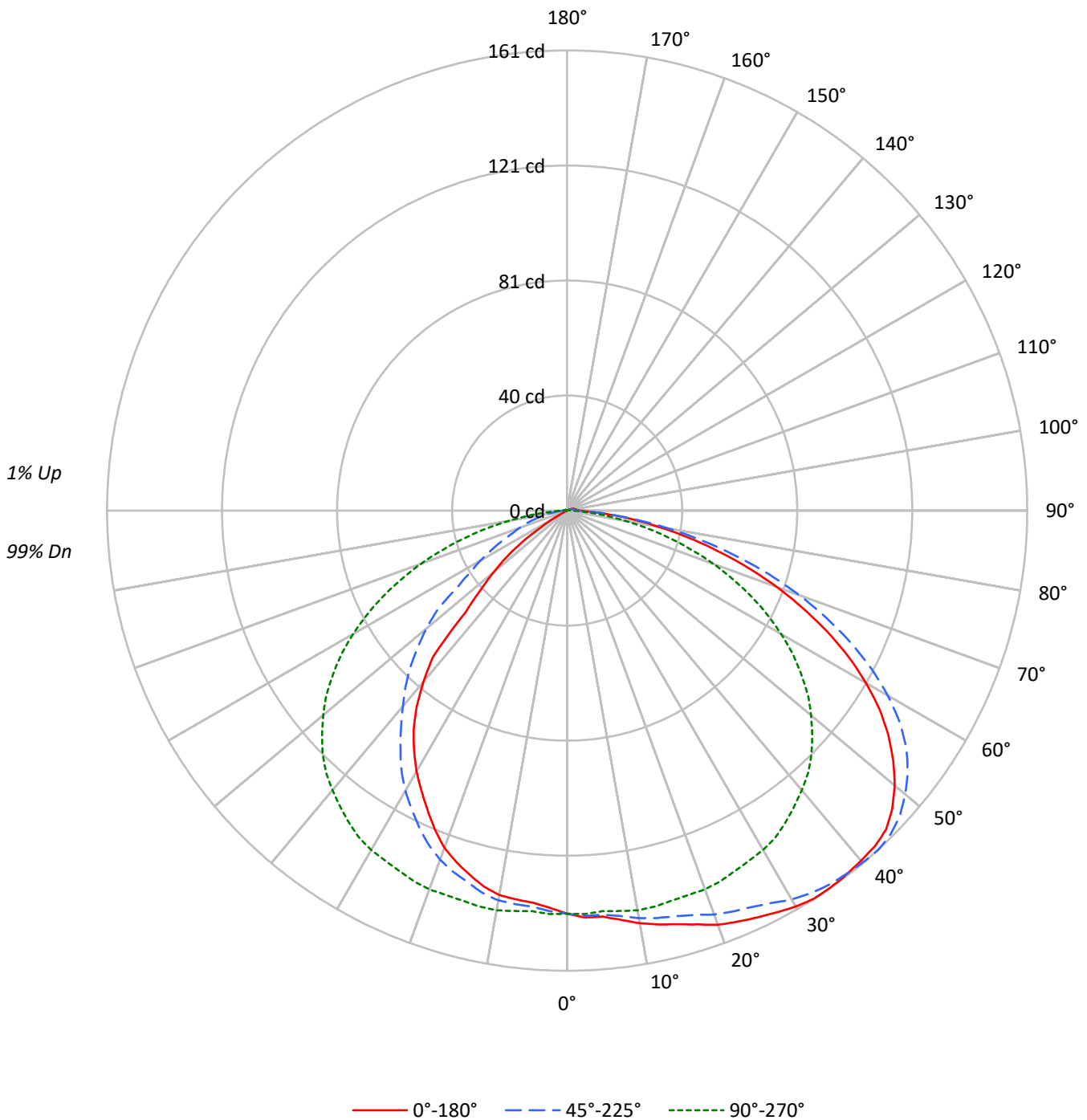
Lumens per Lamp: N/A
Luminaire Lumens: 482.8 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.44 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.21' x H: 0.01')
CIE Type: Direct

Input Watts (W): 8.2
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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101				99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84				82
2	98	89	82	76	95	87	81	75	84	78	74	80	76	72	77	73	70				68
3	89	78	70	63	86	76	69	62	73	67	61	70	65	60	68	63	59				56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43				41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	48	42	38				35
7	63	50	41	34	62	49	40	34	47	39	34	46	39	33	44	38	33				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29				28
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26				25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24				22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19427	19427	19427
5°	19640	19414	18965
10°	20338	19773	18950
15°	21096	20012	18575
20°	22221	20475	18099
25°	23360	20886	17189
30°	24768	21481	16316
35°	26183	21993	15231
40°	27646	22465	13520
45°	29339	22945	9352
50°	30331	23143	6812
55°	30842	23140	4361
60°	30732	22783	1145
65°	29706	21926	30
70°	27725	20418	36
75°	24559	17962	45
80°	20207	14198	62
85°	14291	8723	204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	2.8
10°-20°	39.9	8.3
20°-30°	63.6	13.2
30°-40°	81.6	16.9
40°-50°	89.2	18.5
50°-60°	82.4	17.1
60°-70°	63.0	13.0
70°-80°	36.2	7.5
80°-90°	9.9	2.1
90°-100°	1.9	0.4
100°-110°	1.2	0.2
110°-120°	0.4	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°	116.9	24.2
0°-40°	198.6	41.1
0°-60°	370.2	76.7
0°-90°	479.4	99.3
90°-120°	3.5	0.7
90°-150°	3.5	0.7
90°-180°	3.0	0.6
0°-180°	482.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	141	141	141	141	141	
5°	143	142	141	139	138	14
15°	150	147	141	135	132	43
25°	157	153	139	122	116	73
35°	161	160	133	102	94	101
45°	158	160	121	78	50	121
55°	137	145	100	47	19	122
65°	100	110	71	25	0	99
75°	54	61	37	12	0	58
85°	14	15	7	3	0	15
90°	4	4	1	1	0	3
95°	3	3	1	1	0	3
105°	2	2	1	1	0	2
115°	1	0	0	0	0	1
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
0°	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0
2.5°	142.5	140.9	140.2	141.1	140.3	141.9	141.4	141.1	141.1	142.1	142.0
5°	142.6	141.0	140.1	141.1	140.5	141.9	141.4	141.0	140.9	142.0	141.9
7.5°	144.4	142.6	141.6	142.7	142.1	143.4	142.7	142.4	142.3	143.4	143.1
10°	146.6	144.7	143.8	144.9	144.1	145.4	144.8	144.3	144.1	145.0	144.8
12.5°	148.3	146.3	145.6	146.6	145.8	147.0	146.4	145.7	145.6	146.3	146.0
15°	149.8	147.8	147.1	148.0	147.2	148.2	147.6	146.9	146.7	147.3	146.9
17.5°	151.8	149.8	149.0	150.1	149.3	149.8	149.3	148.6	148.5	149.0	148.3
20°	154.2	152.2	151.5	152.6	151.6	152.3	151.6	150.9	150.6	150.9	150.4
22.5°	155.7	153.8	153.3	154.4	153.4	154.0	153.4	152.7	152.5	152.7	151.8
25°	157.1	155.0	154.6	155.8	154.9	155.4	155.0	154.2	154.1	154.0	153.0
27.5°	158.5	156.4	156.1	157.4	156.5	157.1	156.7	156.2	155.9	155.7	154.8
30°	160.0	158.2	157.9	159.5	158.8	159.3	159.1	158.6	158.5	158.1	157.1
32.5°	160.9	159.2	159.2	160.8	160.5	161.0	160.9	160.5	160.3	159.9	158.7
35°	160.9	159.3	159.5	161.2	160.9	161.6	161.9	161.5	161.5	160.9	159.8
37.5°	160.5	159.2	159.6	161.3	161.1	161.9	162.4	162.1	162.2	161.7	160.3
40°	159.9	158.8	159.4	161.2	161.2	162.1	162.7	162.7	162.9	162.1	160.8
42.5°	159.3	158.3	159.0	160.9	160.9	161.8	163.1	163.1	163.2	162.5	161.1
45°	157.8	156.9	157.9	159.6	159.6	160.3	161.9	162.1	162.4	161.7	160.1
47.5°	154.3	153.6	154.8	156.5	157.0	157.7	159.6	159.8	160.3	159.5	157.9
50°	149.6	148.9	150.1	152.0	152.8	154.1	156.2	156.6	157.0	156.1	154.4
52.5°	143.8	143.4	144.5	146.5	147.7	149.0	151.3	152.2	152.9	152.1	150.2
55°	137.2	136.8	138.0	139.8	141.3	142.6	145.3	146.2	147.0	146.5	144.9
57.5°	129.7	129.3	130.6	132.2	133.7	134.9	138.0	139.0	139.7	139.3	138.0
60°	120.8	120.6	121.9	123.8	125.2	126.3	129.3	130.3	131.2	130.9	129.6
62.5°	111.1	110.9	112.2	113.7	115.4	116.4	119.5	120.6	121.5	120.8	120.1
65°	100.5	100.3	101.6	103.5	104.8	105.7	108.7	110.4	110.6	110.6	109.6
67.5°	89.3	89.2	90.4	92.1	93.4	94.2	96.9	98.6	99.0	99.1	98.2
70°	77.9	77.7	78.9	80.6	81.2	82.2	84.7	86.3	86.5	86.4	86.3
72.5°	66.1	66.0	67.0	68.2	69.3	70.0	72.2	73.5	73.7	73.8	73.9
75°	54.4	54.9	55.2	56.8	57.3	57.7	59.6	60.6	60.7	60.8	61.0
77.5°	43.1	43.0	43.8	45.2	45.4	45.7	47.2	47.9	48.0	48.1	48.2
80°	32.4	32.8	32.7	33.7	33.8	34.1	35.2	35.7	35.7	36.1	36.0
82.5°	22.4	22.9	22.7	23.5	23.5	23.5	24.3	24.5	24.4	24.6	24.6
85°	14.0	14.3	14.1	14.5	14.3	14.4	14.8	14.8	14.6	14.8	14.6
87.5°	7.6	7.7	7.5	8.0	7.9	7.6	7.7	7.5	7.4	7.4	7.2
90°	4.1	4.2	4.3	4.3	4.2	4.1	4.1	4.0	3.9	3.9	3.7
92.5°	3.7	3.7	3.8	3.8	3.8	3.7	3.7	3.6	3.5	3.4	3.3
95°	3.3	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.1	3.0
97.5°	3.0	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.8
100°	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.5
102.5°	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.4	2.3	2.3	2.1
105°	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.9	1.7
107.5°	2.0	2.0	2.0	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.4
110°	1.7	1.7	1.7	1.7	1.6	1.5	1.4	1.2	1.2	1.1	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
112.5°	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.8	0.8	0.7	0.6
115°	0.9	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.6	0.5	0.4
117.5°	0.0	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	0.0
122.5°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0
2.5°	141.2	141.6	141.6	141.4	141.3	141.4	141.2	141.6	141.3	140.5	141.0
5°	141.0	141.5	141.4	141.2	140.8	141.0	140.8	141.2	140.7	140.0	140.3
7.5°	142.2	142.8	142.4	142.3	141.7	141.9	141.6	141.8	141.3	140.5	140.8
10°	143.8	144.6	143.8	143.7	142.7	143.0	142.6	142.6	142.0	141.2	141.3
12.5°	144.9	145.7	144.7	144.4	143.3	143.5	142.7	142.6	141.9	140.9	140.9
15°	145.8	146.5	145.3	144.9	143.5	143.6	142.6	142.1	141.3	140.1	139.8
17.5°	147.2	147.9	146.4	145.9	144.0	143.9	142.7	141.9	141.0	139.6	139.1
20°	149.0	149.7	148.0	147.2	145.0	144.9	143.4	142.2	141.0	139.3	138.4
22.5°	150.3	151.0	149.0	148.2	145.6	145.2	143.5	141.8	140.3	138.4	136.9
25°	151.6	152.2	149.8	148.8	145.8	145.2	143.1	141.0	139.1	136.9	135.1
27.5°	153.2	153.7	150.9	149.7	146.2	145.5	142.8	140.2	138.0	135.2	133.0
30°	155.3	155.8	152.7	151.2	147.2	146.1	142.9	139.9	137.1	133.9	131.1
32.5°	157.0	157.2	153.9	152.1	147.5	146.1	142.6	138.7	135.6	131.9	128.4
35°	158.0	157.8	154.1	152.1	147.2	145.4	141.4	136.9	133.2	129.1	125.0
37.5°	158.5	158.2	154.2	151.9	146.4	144.2	139.6	134.6	130.5	125.8	120.9
40°	159.0	158.4	154.1	151.5	145.5	142.8	137.9	132.3	127.7	122.6	117.1
42.5°	159.2	158.4	153.7	150.8	144.3	141.4	135.8	129.8	124.7	119.2	113.2
45°	158.3	157.0	152.1	148.9	142.1	138.6	132.8	126.3	120.9	115.1	108.7
47.5°	155.8	154.1	149.3	145.7	138.6	134.9	128.9	121.9	116.3	110.4	103.7
50°	152.5	150.5	145.5	141.7	134.4	130.4	124.2	117.1	111.4	105.3	98.4
52.5°	148.3	146.0	140.8	136.9	129.4	125.3	118.9	111.7	106.2	99.9	92.9
55°	142.7	140.3	135.1	131.0	123.5	119.3	113.0	105.7	100.0	93.9	87.0
57.5°	136.4	133.4	128.2	123.8	116.5	112.3	106.1	99.1	93.7	87.6	80.8
60°	128.3	125.3	120.0	115.7	108.5	104.4	98.5	92.0	86.5	80.7	74.2
62.5°	118.9	116.1	111.0	106.1	99.9	95.6	90.1	84.1	79.0	73.4	67.4
65°	108.6	105.8	101.4	96.7	90.5	86.5	81.4	75.7	71.1	65.9	60.3
67.5°	97.3	94.6	90.6	86.2	80.5	77.3	72.2	67.0	62.7	58.1	53.2
70°	85.3	82.8	79.4	75.0	70.4	66.7	62.7	58.0	54.4	50.4	45.9
72.5°	72.8	70.5	67.5	63.8	59.3	56.8	53.0	48.9	45.6	42.2	38.5
75°	60.1	58.0	55.6	52.4	48.6	46.5	43.2	39.8	37.1	34.3	31.2
77.5°	47.5	45.8	43.8	41.8	38.1	36.3	33.8	31.0	28.9	26.6	24.2
80°	35.1	33.8	32.3	30.4	28.1	26.6	24.6	22.4	20.6	19.2	17.8
82.5°	23.7	22.8	21.7	20.4	18.8	17.6	16.2	14.6	13.4	12.6	11.6
85°	14.1	13.4	12.7	11.8	10.7	10.0	9.1	8.1	7.2	6.8	6.4
87.5°	7.1	6.4	6.0	5.7	4.8	4.4	3.9	3.3	3.0	2.8	2.8
90°	3.5	3.2	2.9	2.7	2.4	2.1	1.7	1.5	1.3	1.3	1.4
92.5°	3.1	2.9	2.7	2.5	2.2	1.8	1.6	1.2	1.2	1.2	1.2
95°	2.9	2.7	2.5	2.2	1.9	1.7	1.3	1.1	1.1	1.1	1.1
97.5°	2.7	2.4	2.2	1.9	1.7	1.4	1.2	1.1	1.0	1.0	1.0
100°	2.3	2.1	1.9	1.7	1.4	1.2	1.1	1.0	1.0	1.0	1.0
102.5°	2.0	1.8	1.7	1.4	1.1	1.1	1.0	0.9	0.9	0.9	0.9
105°	1.7	1.5	1.3	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.8
107.5°	1.3	1.1	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.7
110°	0.9	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.6



TEST NUMBER: P394907

CATALOG NUMBER: 303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6
115°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4
117.5°	0.0	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	0.0
122.5°	0.0	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



TEST NUMBER: P394907

CATALOG NUMBER: 303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0
2.5°	140.5	142.0	140.9	140.3	140.9	140.4	140.3	141.4	139.9	139.3	139.1
5°	139.7	141.2	140.1	139.3	140.0	139.2	139.1	140.2	138.7	138.0	137.7
7.5°	140.1	141.5	140.3	139.4	140.1	139.1	138.9	139.8	138.4	137.7	137.4
10°	140.4	141.6	140.3	139.3	140.1	138.8	138.5	139.3	138.0	137.0	136.7
12.5°	139.9	140.8	139.4	138.2	139.0	137.3	137.0	137.6	136.2	135.2	134.8
15°	138.7	139.3	137.8	136.5	137.2	135.2	134.6	135.1	133.7	132.5	132.2
17.5°	137.7	138.1	136.3	134.8	135.4	133.1	132.5	132.7	131.2	129.9	129.3
20°	136.9	136.9	134.9	133.2	133.5	131.1	130.0	130.0	128.7	127.1	126.4
22.5°	135.0	134.6	132.6	130.5	130.6	127.8	126.6	126.4	124.7	123.0	122.3
25°	132.7	131.8	129.3	127.1	126.7	123.8	122.4	121.9	120.3	118.3	117.4
27.5°	130.1	128.7	125.9	123.3	122.7	119.4	117.8	117.0	115.3	113.1	112.4
30°	127.7	125.6	122.5	119.6	118.5	115.0	113.2	112.1	110.5	108.2	107.4
32.5°	124.5	121.8	118.1	114.8	113.4	109.7	107.9	106.5	104.9	102.7	102.2
35°	120.6	117.2	113.0	109.4	107.6	103.7	101.7	100.2	98.9	96.7	96.0
37.5°	116.3	112.2	107.6	103.7	101.4	97.5	95.5	93.9	92.6	90.6	89.9
40°	111.9	107.4	102.3	97.9	95.5	91.5	89.4	87.8	86.6	84.2	83.1
42.5°	107.6	102.5	96.9	92.3	89.7	85.7	83.7	82.0	80.1	77.4	75.9
45°	102.6	97.0	91.2	86.5	83.6	79.7	77.6	75.2	73.1	70.1	67.7
47.5°	97.3	91.3	85.3	80.6	77.5	73.7	70.9	68.0	65.4	61.4	53.2
50°	91.8	85.6	79.5	75.0	71.6	67.4	64.3	60.6	53.5	47.6	44.1
52.5°	86.1	79.8	73.8	69.3	65.7	61.2	57.4	48.7	43.9	40.2	37.1
55°	80.4	74.1	68.2	63.8	59.7	54.8	47.0	40.9	37.3	34.0	30.8
57.5°	74.4	68.2	62.4	58.0	53.4	45.5	40.2	35.1	31.8	28.1	24.4
60°	68.2	62.4	57.0	52.1	46.3	38.8	35.1	29.9	26.3	20.9	16.6
62.5°	61.8	56.4	51.0	46.4	39.5	33.7	29.9	24.6	19.3	15.5	11.4
65°	55.3	50.3	45.2	39.2	34.1	29.1	24.9	19.7	15.2	11.3	8.1
67.5°	48.7	44.1	39.8	33.9	29.5	25.0	20.8	16.1	12.2	9.6	7.1
70°	42.3	38.1	34.1	29.2	25.2	21.3	17.6	13.8	10.7	8.3	6.2
72.5°	35.3	32.0	28.5	24.5	21.2	17.9	14.8	11.7	9.0	7.1	5.2
75°	29.0	26.0	23.4	20.0	17.4	14.5	12.0	9.6	7.4	5.8	4.3
77.5°	22.5	20.2	18.2	15.5	13.3	11.4	9.5	7.4	5.9	4.6	3.4
80°	16.4	14.7	13.2	11.2	9.8	8.3	7.0	5.5	4.4	3.4	2.6
82.5°	10.9	9.7	8.6	7.4	6.5	5.6	4.8	3.9	3.0	2.4	1.8
85°	6.1	5.5	4.9	4.2	3.9	3.3	2.9	2.4	1.9	1.6	1.2
87.5°	2.8	2.6	2.4	2.2	1.9	1.7	1.6	1.4	1.2	1.0	0.8
90°	1.5	1.5	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.8	0.6
92.5°	1.3	1.3	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6
95°	1.2	1.2	1.3	1.3	1.2	1.1	1.1	0.9	0.8	0.6	0.6
97.5°	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.8	0.7	0.6	0.5
100°	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.4
102.5°	0.9	0.8	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.4
105°	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.3
107.5°	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.3
110°	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2



TEST NUMBER: P394907

CATALOG NUMBER: 303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
112.5°	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2
115°	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
117.5°	0.0	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	0.0
122.5°	0.0	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



TEST NUMBER: P394907

CATALOG NUMBER: 303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	141.0	141.0	141.0	141.0	141.0
2.5°	139.7	140.3	139.0	139.7	139.1
5°	138.2	139.0	137.6	138.3	137.7
7.5°	137.9	138.5	137.1	137.9	137.2
10°	137.1	137.9	136.5	137.0	136.6
12.5°	135.2	136.0	134.5	135.1	134.7
15°	132.4	133.1	131.6	132.1	131.9
17.5°	129.3	130.1	128.6	128.9	128.9
20°	126.3	126.9	125.3	125.5	125.6
22.5°	121.9	122.5	120.8	120.9	120.8
25°	116.8	117.3	115.7	115.7	115.6
27.5°	111.7	112.1	110.5	110.4	110.4
30°	106.7	107.0	105.7	105.4	105.4
32.5°	101.2	101.4	100.2	99.8	99.7
35°	95.2	95.3	94.2	93.6	93.6
37.5°	88.9	88.4	87.0	86.4	86.4
40°	81.6	80.8	79.3	78.4	78.2
42.5°	73.8	72.6	70.9	69.8	69.5
45°	64.6	57.2	52.8	51.0	50.3
47.5°	47.4	44.7	42.6	41.4	40.9
50°	38.9	36.8	35.0	34.0	33.6
52.5°	32.4	30.2	28.7	27.2	26.7
55°	26.0	23.5	21.8	20.2	19.4
57.5°	17.5	13.9	12.0	10.4	10.4
60°	10.9	8.1	6.0	4.6	4.5
62.5°	6.4	3.5	1.4	0.4	0.2
65°	4.3	2.3	1.1	0.4	0.1
67.5°	3.9	2.1	1.0	0.4	0.1
70°	3.4	1.8	0.9	0.3	0.1
72.5°	2.9	1.7	0.8	0.3	0.2
75°	2.5	1.4	0.7	0.3	0.1
77.5°	2.0	1.2	0.6	0.3	0.1
80°	1.6	0.9	0.6	0.2	0.1
82.5°	1.2	0.7	0.5	0.2	0.2
85°	0.8	0.6	0.4	0.2	0.2
87.5°	0.6	0.5	0.3	0.2	0.2
90°	0.6	0.4	0.3	0.2	0.1
92.5°	0.5	0.4	0.3	0.2	0.2
95°	0.5	0.3	0.2	0.2	0.2
97.5°	0.4	0.3	0.2	0.2	0.2
100°	0.3	0.2	0.2	0.2	0.2
102.5°	0.2	0.2	0.2	0.2	0.2
105°	0.2	0.2	0.2	0.2	0.2
107.5°	0.2	0.2	0.2	0.2	0.2
110°	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P394907

CATALOG NUMBER: 303-A1-LEDB1-3000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
112.5°	0.2	0.2	0.2	0.2	0.2
115°	0.2	0.2	0.2	0.2	0.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)