

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: P394850

Luminaire Tested: **303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-623-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, TWO LIGHTBARS, TYPE 2 WITH EDGE GLOW
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

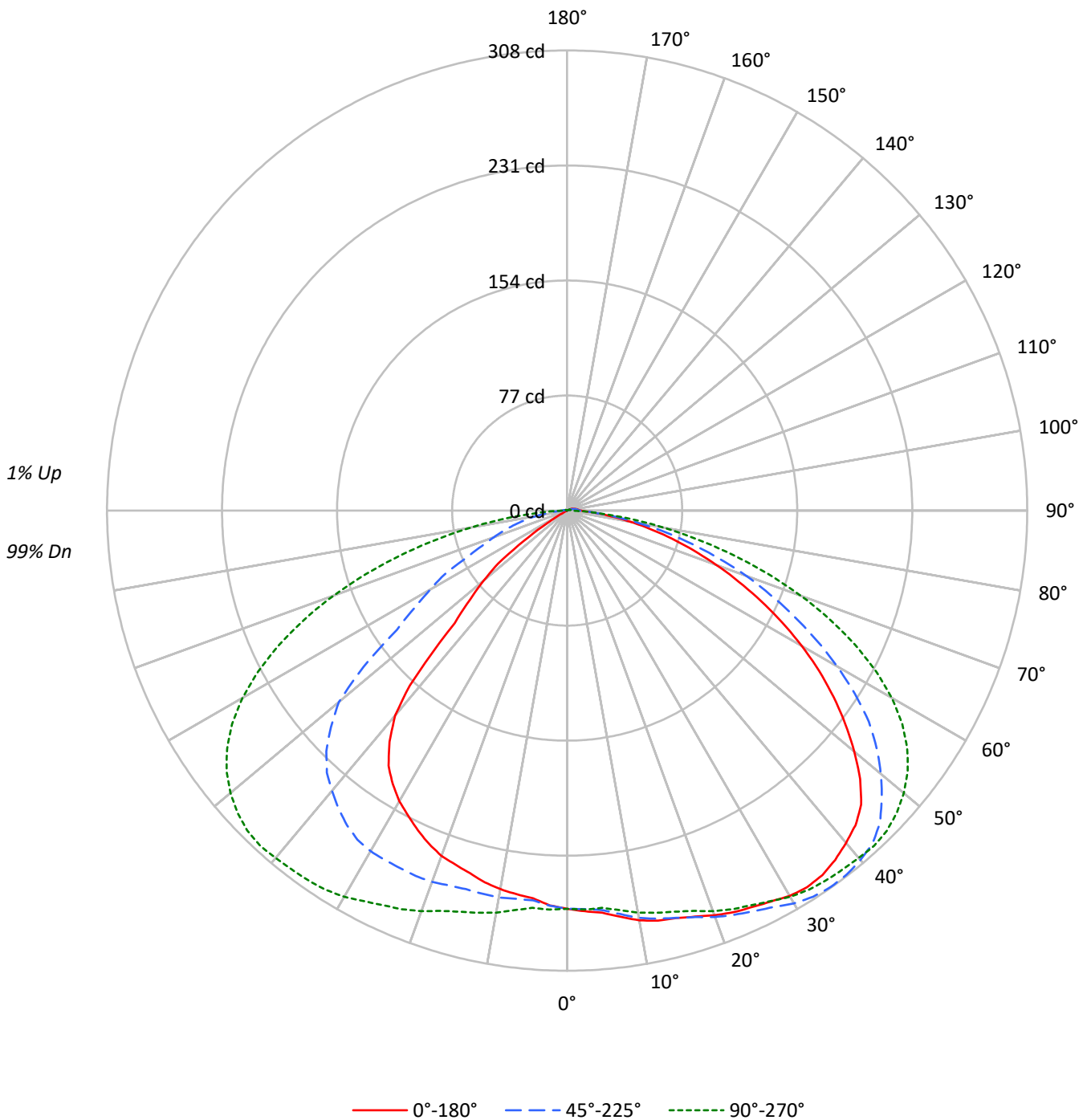
Lumens per Lamp: N/A
Luminaire Lumens: 1013.8 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.71 / 1.67
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.42' x H: 0.01')
CIE Type: Direct

Input Watts (W): 15.5
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	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	87	84	82								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68								
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56								
4	81	69	59	53	79	67	59	52	65	57	51	62	56	50	60	54	50	47								
5	74	61	52	45	72	60	51	44	57	50	44	55	49	43	53	47	43	40								
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	37	33	31								
8	58	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27								
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24								
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18359	18359	18359
5°	18646	18414	17977
10°	19400	19022	17923
15°	20012	19679	17808
20°	20945	20715	17871
25°	22010	21878	17755
30°	23365	23385	17622
35°	24631	24949	17237
40°	25600	26696	15780
45°	26478	28734	10133
50°	26142	30549	7585
55°	25292	32153	4076
60°	23996	33043	873
65°	22185	32781	0
70°	20049	31210	0
75°	17711	27863	49
80°	14911	22710	70
85°	12095	13812	124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	2.5
10°-20°	77.4	7.6
20°-30°	129.1	12.7
30°-40°	175.0	17.3
40°-50°	196.1	19.3
50°-60°	178.4	17.6
60°-70°	131.6	13.0
70°-80°	73.4	7.2
80°-90°	19.7	1.9
90°-100°	4.2	0.4
100°-110°	2.5	0.3
110°-120°	0.8	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°	232.1	22.9
0°-40°	407.1	40.2
0°-60°	781.6	77.1
0°-90°	1006.2	99.3
90°-120°	7.6	0.7
90°-150°	7.6	0.7
90°-180°	8.0	0.8
0°-180°	1013.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	266	266	266	266	266	
5°	270	268	267	262	260	26
15°	282	282	278	262	251	80
25°	293	296	291	264	236	136
35°	298	308	302	257	208	186
45°	278	296	303	228	106	213
55°	218	246	278	139	35	194
65°	143	168	213	74	0	142
75°	72	87	115	36	0	77
85°	20	21	23	9	0	21
90°	9	8	3	3	0	5
95°	7	7	3	2	0	6
105°	5	4	2	1	0	5
115°	2	1	1	1	0	2
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: P394850

CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5
2.5°	268.4	268.0	270.2	270.4	269.3	268.2	267.1	268.9	269.1	266.9	270.0
5°	270.2	269.7	271.9	272.0	270.9	269.7	268.7	270.6	270.6	268.4	271.1
7.5°	274.3	273.5	276.1	276.1	275.2	274.4	272.8	274.8	274.6	272.4	275.2
10°	278.5	278.1	280.7	280.5	279.8	278.9	277.4	279.4	278.9	276.8	279.2
12.5°	281.1	280.9	283.5	283.3	282.7	282.0	280.3	282.5	281.8	279.8	282.4
15°	282.4	282.4	285.1	285.1	284.4	283.8	282.4	284.6	284.0	282.2	284.4
17.5°	284.9	284.9	287.9	287.5	287.1	286.8	285.3	287.7	286.9	285.3	287.3
20°	288.2	288.4	291.5	291.2	291.0	290.8	289.2	291.5	291.0	289.5	291.2
22.5°	291.0	291.0	294.1	293.8	293.6	293.6	292.1	294.7	294.1	292.8	294.5
25°	292.8	293.0	296.0	295.8	295.4	295.8	294.5	297.6	296.9	295.8	297.2
27.5°	295.0	295.2	298.4	298.2	298.4	298.9	297.6	300.6	300.0	299.1	300.0
30°	297.8	298.2	301.5	301.1	301.7	302.4	301.5	304.4	304.1	303.7	304.2
32.5°	298.9	299.5	303.0	302.8	303.5	304.6	303.7	307.2	306.4	306.4	307.4
35°	297.8	298.4	301.7	301.7	302.8	304.2	303.7	307.2	307.0	307.6	308.5
37.5°	294.7	295.4	298.5	298.7	300.0	302.0	301.8	305.7	305.9	307.2	308.1
40°	290.4	291.2	294.3	294.7	296.3	298.4	298.4	302.4	303.0	305.3	307.2
42°	286.4	287.3	290.1	290.4	292.3	294.3	294.7	299.1	299.8	303.1	305.5
42.5°	285.7	286.4	289.0	289.2	291.0	293.2	293.6	298.0	298.7	302.4	304.8
45°	278.3	278.5	281.4	281.8	283.8	285.3	285.8	289.9	291.2	296.0	298.9
47.5°	266.0	266.3	268.7	270.0	273.0	275.2	275.9	279.6	280.7	285.7	289.7
50°	250.9	251.4	253.8	255.3	258.3	261.0	263.4	268.0	268.7	274.1	277.9
52.5°	234.7	235.4	237.3	238.8	242.1	245.0	247.8	253.3	255.7	261.2	264.3
55°	217.8	218.5	219.8	221.1	224.2	227.4	230.7	236.4	239.3	246.5	249.6
57.5°	200.1	199.9	203.1	203.1	206.0	209.0	212.3	217.8	220.7	228.5	233.4
60°	181.4	181.9	183.8	183.9	187.3	190.4	193.7	198.5	201.0	208.6	214.1
62.5°	162.2	162.8	162.4	164.4	167.6	170.9	174.6	179.2	181.2	188.4	193.7
65°	143.1	143.7	144.0	144.9	148.1	151.2	154.7	158.9	162.1	167.9	172.7
67.5°	124.3	124.7	124.0	126.0	128.8	131.7	135.0	138.9	141.5	147.2	151.4
70°	106.1	106.5	106.7	107.6	109.8	112.6	115.7	118.1	121.4	127.3	130.0
72.5°	88.8	89.2	88.5	89.8	92.0	93.4	96.9	99.0	101.4	106.7	109.1
75°	72.5	72.7	72.8	73.2	75.6	76.0	78.9	80.4	82.4	86.6	88.7
77.5°	57.0	57.0	57.2	57.6	58.7	59.6	61.8	62.7	64.6	67.7	68.2
80°	42.7	42.9	42.9	43.0	44.1	44.3	46.2	46.5	47.8	49.3	51.0
82.5°	30.0	30.2	30.2	30.2	30.9	30.9	32.0	32.0	32.7	33.5	33.7
85°	19.5	19.5	19.7	19.5	19.7	19.7	20.4	20.0	20.2	20.8	20.2
87.5°	12.0	12.1	12.1	12.0	12.1	11.8	12.1	11.6	11.6	11.6	10.7
90°	8.8	9.0	8.8	9.0	9.0	8.8	8.6	8.3	8.1	7.7	7.4
92.5°	7.9	7.9	8.1	8.1	8.1	7.9	7.9	7.7	7.4	7.2	6.6
95°	7.2	7.2	7.2	7.2	7.4	7.2	7.2	7.0	6.8	6.6	6.1
97.5°	6.6	6.6	6.4	6.4	6.6	6.6	6.6	6.4	6.3	6.1	5.7
100°	6.1	6.1	5.9	5.9	5.9	5.9	5.9	5.7	5.5	5.3	5.2
102.5°	5.3	5.3	5.3	5.2	5.2	5.2	5.2	5.0	4.8	4.8	4.4
105°	4.6	4.8	4.6	4.6	4.4	4.4	4.4	4.2	4.0	3.9	3.7
107.5°	4.0	4.0	3.9	3.9	3.9	3.7	3.5	3.3	3.3	3.1	2.9



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CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	3.3	3.3	3.3	3.1	3.1	2.9	2.8	2.6	2.4	2.4	2.2
112.5°	2.6	2.6	2.6	2.4	2.4	2.2	2.0	1.8	1.7	1.7	1.7
115°	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.3	1.1	1.1	1.3
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):

	55°	58°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5
2.5°	267.6	269.8	266.9	268.2	268.4	266.7	267.1	267.1	267.3	268.9	266.7
5°	268.9	270.9	268.0	269.1	269.1	267.1	267.3	267.1	266.9	268.6	265.8
7.5°	272.6	274.6	271.7	272.4	272.0	270.0	270.4	270.0	269.7	270.9	268.0
10°	276.6	278.9	275.9	276.5	276.1	273.7	274.1	273.7	273.2	274.1	270.9
12.5°	279.6	281.8	279.0	279.6	279.0	276.6	276.8	276.6	275.7	276.5	273.2
15°	282.0	284.0	281.6	281.8	281.1	278.9	279.0	279.0	277.9	278.3	275.2
17.5°	285.1	287.3	284.9	284.7	284.6	282.2	282.4	282.4	280.9	281.6	278.3
20°	289.3	291.7	289.3	289.0	288.8	286.6	286.4	286.8	285.3	285.8	282.5
22.5°	292.8	294.9	293.2	292.5	291.9	289.9	289.9	290.3	288.8	289.0	285.8
25°	295.6	297.8	296.0	295.0	294.7	292.7	292.8	293.4	291.4	291.5	288.8
27.5°	298.9	300.7	299.5	298.4	297.6	295.8	295.8	296.5	294.7	294.5	291.7
30°	303.3	305.0	304.1	302.2	301.5	299.6	300.0	300.7	298.5	298.2	295.6
32.5°	306.6	308.5	307.6	305.9	305.0	303.1	303.0	303.5	300.9	300.6	298.2
35°	308.3	310.5	309.9	307.9	307.2	305.2	304.6	305.2	302.2	301.5	299.1
37.5°	309.2	311.8	311.6	309.9	309.2	307.0	306.3	306.4	302.8	301.7	299.1
40°	309.6	312.0	312.5	311.0	310.9	309.0	307.9	307.9	303.5	301.7	298.7
42°	308.8	311.8	312.9	312.0	312.3	310.7	309.2	308.8	304.1	302.0	298.5
42.5°	308.5	311.2	312.7	312.0	312.5	311.0	309.4	309.0	304.2	301.8	298.4
45°	304.1	307.7	309.9	310.5	311.2	310.3	308.7	308.1	302.8	299.6	296.0
47.5°	296.1	300.2	303.3	305.3	307.0	307.2	305.7	305.3	299.3	295.4	291.0
50°	285.7	290.3	294.3	297.4	300.6	302.2	300.9	300.6	294.1	289.7	284.6
52.5°	273.0	277.9	282.0	287.3	292.1	294.9	294.5	293.9	287.3	282.2	276.5
55°	257.9	263.0	268.4	274.4	280.5	284.9	285.1	284.9	277.9	272.2	266.3
57.5°	241.3	245.9	251.8	258.6	266.7	272.2	273.0	272.8	266.0	259.7	252.6
60°	223.1	227.2	233.1	240.4	249.2	255.9	257.5	257.9	250.9	244.6	238.0
62.5°	203.3	207.5	213.0	220.2	229.4	236.9	239.1	240.0	233.1	226.8	219.6
65°	181.9	186.1	192.0	198.7	207.9	215.8	218.2	219.1	212.6	206.9	200.7
67.5°	159.7	163.7	169.4	175.8	184.7	192.4	195.0	196.3	190.4	184.9	179.2
70°	137.4	140.7	146.0	152.1	160.4	166.5	170.1	171.4	166.3	161.3	156.4
72.5°	115.3	117.9	122.9	128.0	135.2	140.7	144.2	145.5	140.9	136.9	133.0
75°	93.4	95.8	99.9	104.3	110.2	116.1	117.9	119.2	115.1	111.8	108.9
77.5°	72.7	74.1	77.6	81.1	85.7	89.0	91.6	92.9	89.6	87.0	84.8
80°	53.2	53.9	56.7	58.9	62.4	64.4	66.4	67.1	65.9	63.1	61.8
82.5°	35.7	35.9	37.7	38.8	40.7	42.9	43.2	43.6	42.5	40.8	40.5
85°	21.2	20.8	22.1	22.1	22.4	23.7	23.5	23.5	22.8	22.4	22.3
87.5°	10.9	10.3	10.7	10.3	9.9	9.9	9.4	9.2	8.8	8.8	9.0
90°	6.8	6.4	6.4	5.9	5.2	4.6	4.0	3.5	3.1	3.1	3.3
92.5°	6.3	5.9	5.9	5.3	4.8	4.2	3.7	3.1	2.8	2.8	2.9
95°	5.9	5.5	5.5	5.0	4.4	3.9	3.1	2.8	2.6	2.6	2.8
97.5°	5.3	5.2	5.0	4.4	3.9	3.3	2.9	2.6	2.6	2.4	2.6
100°	4.8	4.4	4.4	3.9	3.3	2.9	2.8	2.4	2.4	2.2	2.4
102.5°	4.0	3.9	3.7	3.3	2.9	2.8	2.6	2.4	2.2	2.2	2.2
105°	3.3	3.1	3.1	2.8	2.6	2.6	2.4	2.2	2.0	2.0	2.0
107.5°	2.8	2.6	2.4	2.4	2.4	2.4	2.0	1.8	1.8	1.8	1.8



TEST NUMBER: P394850

CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	58°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	2.0	2.0	2.0	2.2	2.0	2.0	1.8	1.7	1.7	1.5	1.5
112.5°	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.5	1.5	1.3	1.3
115°	1.3	1.3	1.5	1.5	1.5	1.5	1.3	1.1	1.1	1.1	1.1
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: P394850

CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5
2.5°	268.0	265.8	265.6	264.9	266.2	264.0	264.7	262.7	262.7	262.7	263.2
5°	266.7	264.3	264.0	262.9	264.0	261.4	261.9	259.7	259.2	259.0	259.4
7.5°	268.6	265.8	265.4	263.8	264.5	261.7	262.1	259.7	258.4	258.3	258.6
10°	271.1	268.2	267.5	265.4	266.0	262.9	262.9	259.9	258.4	257.5	257.7
12.5°	273.0	270.0	268.9	266.2	266.5	263.2	262.7	259.2	257.2	256.0	255.9
15°	274.8	271.3	270.2	266.9	267.1	263.4	262.3	258.3	255.5	253.7	253.3
17.5°	277.9	274.3	272.8	268.9	268.6	264.9	263.0	258.3	254.8	252.4	251.6
20°	281.8	278.1	276.5	272.0	271.3	266.9	264.5	259.0	254.8	251.8	250.5
22.5°	285.1	281.2	279.2	274.4	273.2	267.8	264.7	258.4	253.3	249.8	247.6
25°	287.3	283.6	281.2	275.7	274.1	268.4	264.1	257.3	251.1	246.7	243.7
27.5°	290.3	286.4	283.6	277.8	275.4	268.9	263.8	255.7	248.7	243.2	239.5
30°	293.9	289.5	286.9	279.8	276.8	269.5	263.2	254.6	246.3	240.2	235.4
32.5°	296.1	291.5	288.1	280.5	276.6	268.6	261.2	251.3	241.9	234.9	229.9
35°	296.3	291.7	287.5	279.2	274.6	265.2	257.0	246.1	236.0	228.3	222.6
37.5°	296.1	290.3	285.7	276.6	270.8	260.6	251.3	239.7	228.8	220.5	214.3
40°	295.0	289.0	283.3	273.0	266.0	255.3	244.8	232.7	220.7	210.6	202.5
42°	294.3	287.3	280.5	269.7	261.7	250.7	239.5	226.4	212.5	200.9	191.5
42.5°	293.6	286.8	279.4	268.7	260.8	249.2	238.0	224.4	210.1	198.1	188.2
45°	290.1	282.0	273.9	262.1	252.9	240.8	227.9	212.1	195.9	180.4	162.6
47.5°	284.6	275.4	265.8	253.3	243.0	229.7	214.5	196.4	173.1	142.7	121.4
50°	277.2	267.1	256.0	242.6	232.0	216.5	199.4	168.9	131.7	114.6	102.5
52.5°	268.0	256.8	244.6	230.8	217.6	200.7	171.8	133.0	110.9	98.4	87.4
55°	257.2	245.0	231.8	216.9	201.6	176.4	139.1	112.9	96.0	85.5	74.3
57.5°	243.4	230.8	216.7	200.9	180.3	143.7	120.8	99.1	83.0	72.1	56.1
60°	227.5	214.8	199.8	182.8	150.6	124.0	106.0	86.8	67.1	48.0	34.2
62.5°	209.7	197.0	181.7	158.9	130.6	109.1	92.3	69.2	46.7	35.9	25.0
65°	190.6	177.9	162.2	136.3	114.6	95.3	73.8	54.8	37.3	28.3	18.8
67.5°	169.6	157.6	142.2	118.8	99.7	81.3	61.6	46.0	31.1	23.5	16.4
70°	147.7	136.9	122.7	102.5	85.3	69.3	52.2	39.2	26.9	20.4	14.2
72.5°	125.1	115.7	103.9	86.1	71.7	58.1	44.0	32.9	22.6	17.3	12.1
75°	102.1	94.4	84.6	70.1	58.3	47.5	35.9	27.0	18.8	14.2	10.1
77.5°	79.6	73.4	66.0	54.6	45.4	36.6	28.1	21.5	14.9	11.2	8.1
80°	58.1	53.5	48.2	40.1	33.3	27.4	21.0	15.8	11.2	8.6	6.3
82.5°	38.1	35.1	31.6	26.5	22.3	18.6	14.2	11.2	7.9	6.1	4.6
85°	21.2	19.7	17.8	15.1	12.9	11.0	8.6	7.0	5.2	4.0	3.1
87.5°	8.8	8.3	7.7	7.0	6.1	5.5	4.4	3.7	2.9	2.4	1.8
90°	3.5	3.7	3.5	3.3	3.1	2.9	2.6	2.4	2.0	1.7	1.3
92.5°	3.1	3.1	3.1	3.1	2.9	2.8	2.4	2.2	1.8	1.5	1.1
95°	2.9	2.9	2.9	2.9	2.8	2.6	2.4	2.0	1.7	1.5	1.1
97.5°	2.6	2.8	2.8	2.8	2.6	2.4	2.0	1.7	1.3	0.9	0.7
100°	2.4	2.4	2.4	2.4	2.4	2.0	1.8	1.5	1.3	0.9	0.6
102.5°	2.2	2.2	2.2	2.2	2.0	1.8	1.5	1.3	0.9	0.6	0.6
105°	1.8	1.8	1.8	1.8	1.7	1.7	1.3	1.1	0.7	0.6	0.4
107.5°	1.7	1.7	1.5	1.7	1.5	1.3	1.1	0.7	0.6	0.4	0.4



TEST NUMBER: P394850

CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
110°	1.5	1.5	1.3	1.3	1.3	1.1	0.9	0.7	0.4	0.4	0.4
112.5°	1.3	1.3	1.1	0.9	0.9	0.9	0.7	0.6	0.4	0.4	0.4
115°	1.1	0.9	0.7	0.7	0.7	0.6	0.6	0.4	0.4	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: P394850

CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	266.5	266.5	266.5	266.5	266.5
2.5°	262.1	262.9	263.0	263.0	264.5
5°	258.1	259.2	258.8	259.0	260.5
7.5°	256.8	257.9	257.2	257.5	259.0
10°	255.9	256.6	255.9	255.9	257.3
12.5°	253.8	254.4	252.9	252.9	254.8
15°	250.9	251.3	249.6	249.6	251.3
17.5°	248.9	249.1	246.8	246.8	248.5
20°	247.0	247.0	244.6	244.5	245.9
22.5°	243.9	243.5	240.6	240.0	241.5
25°	239.3	238.4	235.3	234.5	236.2
27.5°	234.5	233.2	229.6	228.8	230.3
30°	229.9	228.1	224.0	223.3	224.6
32.5°	223.9	221.5	216.9	216.1	217.2
35°	216.1	213.2	208.4	207.3	208.4
37.5°	206.4	201.6	195.9	194.2	195.2
40°	193.3	187.6	180.4	178.1	179.0
42°	180.3	171.8	161.5	156.7	157.5
42.5°	176.0	165.7	153.0	147.2	147.5
45°	135.0	118.1	110.2	106.1	106.5
47.5°	105.0	96.2	90.9	87.6	88.1
50°	88.3	80.0	75.2	72.5	72.8
52.5°	74.7	67.0	62.4	59.4	58.3
55°	61.4	51.5	44.5	38.6	35.1
57.5°	34.0	24.1	19.7	17.1	15.8
60°	20.6	14.0	10.1	7.7	6.6
62.5°	13.4	7.7	4.0	1.5	0.4
65°	9.6	5.0	2.4	0.7	0.0
67.5°	8.5	4.4	2.2	0.6	0.0
70°	7.5	4.0	1.8	0.6	0.0
72.5°	6.4	3.5	1.7	0.6	0.0
75°	5.7	2.9	1.5	0.6	0.2
77.5°	4.6	2.6	1.3	0.4	0.2
80°	3.7	2.0	1.1	0.4	0.2
82.5°	2.8	1.7	0.9	0.4	0.2
85°	2.0	1.3	0.7	0.4	0.2
87.5°	1.3	0.9	0.6	0.2	0.2
90°	1.1	0.7	0.4	0.2	0.2
92.5°	0.9	0.7	0.4	0.2	0.2
95°	0.7	0.6	0.2	0.2	0.0
97.5°	0.6	0.4	0.2	0.2	0.2
100°	0.4	0.4	0.2	0.2	0.2
102.5°	0.4	0.2	0.2	0.2	0.2
105°	0.4	0.2	0.2	0.2	0.2
107.5°	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P394850

CATALOG NUMBER: 303-A1-LEDB2-3000-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
110°	0.4	0.2	0.2	0.2	0.2
112.5°	0.4	0.4	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)