

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: P394916

Luminaire Tested: **303-W1-LEDB1-4000-UNV-T4-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394916
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-W1-LEDB1-4000-UNV-T4-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, ONE LIGHTBAR, TYPE 4 WITH EDGE GLOW
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

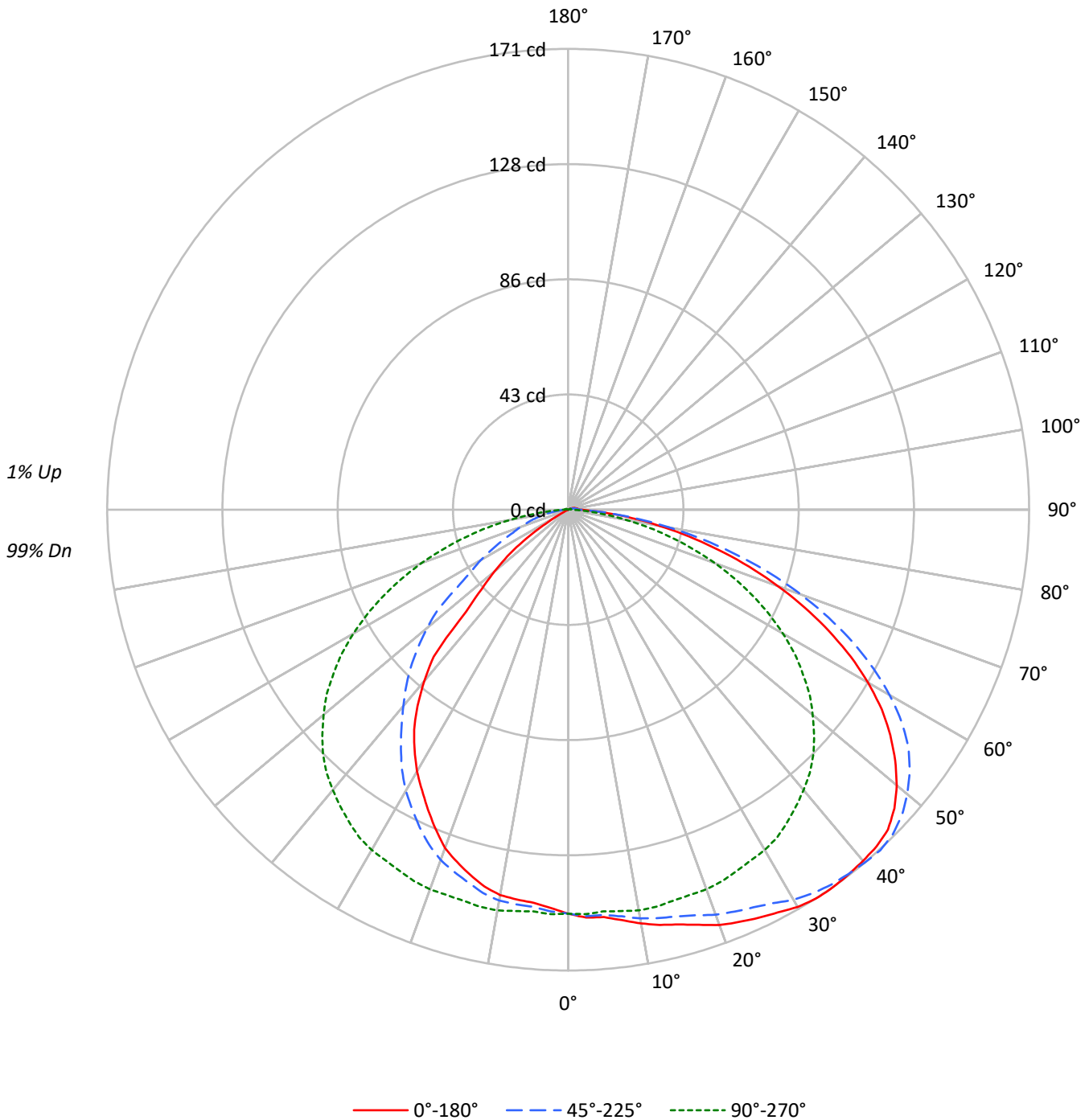
Lumens per Lamp: N/A
Luminaire Lumens: 513.5 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.44 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.21' x H: 0.01')
CIE Type: Direct

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			
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	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°	20653	20653	20653
5°	20893	20642	20163
10°	21628	21027	20144
15°	22434	21272	19758
20°	23633	21767	19252
25°	24847	22208	18274
30°	26347	22844	17353
35°	27843	23380	16208
40°	29409	23890	14367
45°	31198	24407	9947
50°	32257	24597	7238
55°	32798	24597	4631
60°	32691	24232	1221
65°	31598	23313	30
70°	29469	21732	36
75°	26140	19076	45
80°	21454	15094	62
85°	15210	9208	204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	2.8
10°-20°	42.4	8.3
20°-30°	67.6	13.2
30°-40°	86.8	16.9
40°-50°	94.9	18.5
50°-60°	87.7	17.1
60°-70°	67.0	13.0
70°-80°	38.5	7.5
80°-90°	10.6	2.1
90°-100°	2.1	0.4
100°-110°	1.3	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°	124.4	24.2
0°-40°	211.2	41.1
0°-60°	393.7	76.7
0°-90°	509.8	99.3
90°-120°	3.7	0.7
90°-150°	3.7	0.7
90°-180°	4.0	0.8
0°-180°	513.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	150	150	150	150	150	
5°	152	151	150	148	146	15
15°	159	156	150	143	140	45
25°	167	163	148	130	123	77
35°	171	170	142	108	100	107
45°	168	170	129	83	54	129
55°	146	154	106	50	21	130
65°	107	117	76	26	0	105
75°	58	65	39	13	0	61
85°	15	16	8	3	0	16
90°	4	4	1	1	0	3
95°	4	3	1	1	0	3
105°	2	2	1	1	0	3
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



TEST NUMBER: P394916

CATALOG NUMBER: 303-W1-LEDB1-4000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
0°	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9
2.5°	151.5	149.8	149.1	150.0	149.3	150.9	150.3	150.0	150.0	151.1	151.0
5°	151.7	149.9	149.0	150.0	149.5	150.9	150.3	149.9	149.8	151.0	150.9
7.5°	153.6	151.6	150.6	151.8	151.1	152.5	151.8	151.4	151.3	152.5	152.2
10°	155.9	153.9	152.9	154.1	153.3	154.6	154.0	153.5	153.3	154.2	154.0
12.5°	157.8	155.6	154.8	155.9	155.0	156.3	155.7	154.9	154.8	155.6	155.2
15°	159.3	157.2	156.4	157.4	156.5	157.6	157.0	156.2	156.0	156.7	156.2
17.5°	161.5	159.3	158.5	159.6	158.7	159.3	158.7	158.1	158.0	158.5	157.8
20°	164.0	161.9	161.1	162.3	161.2	162.0	161.2	160.5	160.2	160.5	159.9
22.5°	165.6	163.5	163.0	164.2	163.1	163.7	163.1	162.4	162.2	162.4	161.4
25°	167.1	164.8	164.4	165.7	164.7	165.3	164.8	164.0	163.8	163.7	162.8
27.5°	168.5	166.3	166.0	167.4	166.5	167.1	166.7	166.1	165.8	165.6	164.6
30°	170.2	168.2	167.9	169.6	168.9	169.4	169.2	168.6	168.5	168.1	167.1
32.5°	171.1	169.3	169.3	171.0	170.7	171.3	171.2	170.7	170.5	170.1	168.8
35°	171.1	169.4	169.6	171.5	171.2	171.9	172.1	171.8	171.8	171.2	169.9
37.5°	170.7	169.3	169.7	171.6	171.4	172.1	172.7	172.4	172.5	172.0	170.5
40°	170.1	168.9	169.5	171.5	171.5	172.3	173.0	173.0	173.2	172.4	171.0
42.5°	169.4	168.3	169.1	171.1	171.2	172.0	173.4	173.4	173.6	172.8	171.4
45°	167.8	166.9	167.9	169.7	169.7	170.5	172.1	172.4	172.7	172.0	170.3
47.5°	164.1	163.3	164.6	166.5	167.0	167.7	169.7	170.0	170.5	169.6	167.9
50°	159.1	158.4	159.6	161.7	162.5	163.8	166.1	166.6	167.0	166.0	164.2
52.5°	152.9	152.5	153.7	155.8	157.1	158.5	160.9	161.9	162.6	161.8	159.7
55°	145.9	145.4	146.8	148.7	150.2	151.6	154.5	155.5	156.3	155.8	154.1
57.5°	137.9	137.5	138.9	140.6	142.2	143.5	146.7	147.8	148.6	148.2	146.7
60°	128.5	128.2	129.6	131.7	133.1	134.3	137.5	138.6	139.6	139.2	137.8
62.5°	118.2	118.0	119.3	120.9	122.8	123.8	127.1	128.2	129.2	128.5	127.7
65°	106.9	106.7	108.1	110.0	111.4	112.4	115.6	117.4	117.7	117.7	116.6
67.5°	95.0	94.9	96.1	97.9	99.3	100.2	103.1	104.9	105.2	105.3	104.5
70°	82.8	82.6	83.9	85.7	86.4	87.4	90.1	91.7	92.0	91.8	91.7
72.5°	70.3	70.2	71.3	72.6	73.7	74.4	76.8	78.2	78.3	78.4	78.6
75°	57.9	58.4	58.7	60.4	60.9	61.3	63.4	64.5	64.6	64.7	64.8
77.5°	45.9	45.8	46.6	48.1	48.3	48.6	50.2	51.0	51.1	51.2	51.3
80°	34.4	34.9	34.8	35.8	35.9	36.3	37.5	38.0	38.0	38.3	38.2
82.5°	23.9	24.4	24.2	24.9	24.9	25.0	25.8	26.0	25.9	26.2	26.2
85°	14.9	15.2	15.0	15.5	15.3	15.4	15.7	15.7	15.6	15.7	15.6
87.5°	8.1	8.2	8.0	8.5	8.4	8.1	8.2	8.0	7.8	7.8	7.6
90°	4.4	4.5	4.6	4.6	4.5	4.4	4.4	4.2	4.1	4.1	3.9
92.5°	3.9	3.9	4.0	4.0	4.0	3.9	3.9	3.8	3.7	3.6	3.5
95°	3.5	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.4	3.3	3.2
97.5°	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	2.9
100°	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.8	2.7	2.6
102.5°	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.5	2.4	2.4	2.2
105°	2.4	2.4	2.4	2.4	2.3	2.2	2.2	2.2	2.1	2.1	1.9
107.5°	2.2	2.2	2.2	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5
110°	1.8	1.9	1.9	1.8	1.7	1.6	1.5	1.3	1.3	1.2	1.1



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CATALOG NUMBER: 303-W1-LEDB1-4000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
112.5°	1.5	1.5	1.5	1.4	1.3	1.2	1.1	0.9	0.9	0.8	0.7
115°	1.0	1.1	1.1	1.0	0.9	0.8	0.7	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°	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9
2.5°	150.1	150.6	150.6	150.3	150.2	150.3	150.1	150.6	150.2	149.5	149.9
5°	149.9	150.5	150.3	150.1	149.7	149.9	149.7	150.1	149.6	148.9	149.3
7.5°	151.2	151.9	151.4	151.3	150.7	150.9	150.6	150.8	150.2	149.5	149.7
10°	152.9	153.8	153.0	152.8	151.8	152.1	151.6	151.6	151.0	150.1	150.2
12.5°	154.1	154.9	153.9	153.6	152.4	152.6	151.8	151.6	150.9	149.8	149.8
15°	155.0	155.8	154.5	154.1	152.6	152.7	151.6	151.1	150.2	149.0	148.7
17.5°	156.5	157.3	155.7	155.1	153.2	153.1	151.8	150.9	149.9	148.5	147.9
20°	158.5	159.2	157.4	156.6	154.2	154.1	152.5	151.2	149.9	148.2	147.2
22.5°	159.8	160.6	158.5	157.6	154.8	154.4	152.6	150.8	149.2	147.2	145.6
25°	161.2	161.9	159.3	158.3	155.0	154.4	152.2	149.9	147.9	145.5	143.7
27.5°	163.0	163.4	160.5	159.2	155.5	154.7	151.9	149.1	146.7	143.8	141.4
30°	165.2	165.7	162.4	160.8	156.5	155.4	152.0	148.8	145.8	142.4	139.4
32.5°	167.0	167.2	163.6	161.8	156.9	155.4	151.6	147.5	144.2	140.3	136.5
35°	168.0	167.8	163.9	161.8	156.5	154.6	150.3	145.5	141.6	137.3	132.9
37.5°	168.5	168.2	164.0	161.6	155.7	153.4	148.5	143.2	138.8	133.8	128.6
40°	169.1	168.4	163.8	161.1	154.7	151.9	146.6	140.7	135.8	130.4	124.5
42.5°	169.3	168.4	163.4	160.4	153.5	150.3	144.5	138.0	132.6	126.8	120.4
45°	168.3	167.0	161.8	158.4	151.1	147.4	141.2	134.3	128.6	122.5	115.6
47.5°	165.7	163.9	158.7	154.9	147.4	143.5	137.0	129.6	123.7	117.4	110.2
50°	162.2	160.0	154.7	150.7	142.9	138.7	132.0	124.5	118.4	112.0	104.7
52.5°	157.7	155.3	149.7	145.5	137.6	133.2	126.5	118.8	113.0	106.2	98.8
55°	151.8	149.3	143.7	139.3	131.4	126.9	120.2	112.4	106.3	99.9	92.5
57.5°	145.1	141.8	136.3	131.7	123.9	119.4	112.9	105.3	99.7	93.1	85.9
60°	136.4	133.2	127.6	123.0	115.4	111.0	104.8	97.8	92.0	85.8	78.9
62.5°	126.5	123.4	118.1	112.9	106.2	101.7	95.9	89.4	84.0	78.1	71.7
65°	115.5	112.5	107.8	102.8	96.2	91.9	86.6	80.5	75.6	70.0	64.2
67.5°	103.5	100.6	96.3	91.6	85.6	82.2	76.8	71.2	66.7	61.8	56.5
70°	90.8	88.0	84.4	79.8	74.8	70.9	66.7	61.7	57.9	53.6	48.8
72.5°	77.5	75.0	71.8	67.9	63.1	60.4	56.3	52.0	48.5	44.9	41.0
75°	63.9	61.7	59.1	55.8	51.6	49.5	46.0	42.4	39.4	36.5	33.2
77.5°	50.5	48.7	46.6	44.4	40.5	38.6	35.9	33.0	30.7	28.3	25.7
80°	37.4	36.0	34.3	32.4	29.8	28.3	26.1	23.9	21.9	20.4	18.9
82.5°	25.2	24.3	23.1	21.7	20.0	18.7	17.2	15.6	14.3	13.4	12.3
85°	15.0	14.3	13.5	12.5	11.3	10.7	9.7	8.6	7.6	7.2	6.8
87.5°	7.5	6.8	6.4	6.1	5.1	4.7	4.1	3.5	3.2	2.9	2.9
90°	3.7	3.4	3.1	2.8	2.5	2.2	1.9	1.6	1.4	1.4	1.5
92.5°	3.3	3.1	2.8	2.6	2.3	2.0	1.7	1.3	1.3	1.3	1.3
95°	3.0	2.8	2.6	2.3	2.1	1.8	1.4	1.2	1.2	1.2	1.2
97.5°	2.8	2.5	2.3	2.1	1.8	1.5	1.3	1.2	1.1	1.1	1.1
100°	2.4	2.2	2.1	1.8	1.5	1.3	1.2	1.1	1.1	1.1	1.1
102.5°	2.2	2.0	1.8	1.5	1.2	1.2	1.1	1.0	1.0	1.0	1.0
105°	1.8	1.6	1.4	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.9
107.5°	1.4	1.2	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.8	0.8
110°	1.0	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.7



TEST NUMBER: P394916

CATALOG NUMBER: 303-W1-LEDB1-4000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	0.6	0.6	0.7	0.7	0.8	0.8	0.7	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: P394916

CATALOG NUMBER: 303-W1-LEDB1-4000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9	149.9
2.5°	149.5	151.0	149.8	149.3	149.8	149.4	149.2	150.3	148.8	148.2	147.9
5°	148.6	150.1	149.0	148.2	148.9	148.1	147.9	149.1	147.5	146.8	146.4
7.5°	149.0	150.4	149.2	148.3	149.0	147.9	147.7	148.7	147.2	146.4	146.1
10°	149.4	150.6	149.3	148.2	149.0	147.6	147.3	148.2	146.7	145.7	145.3
12.5°	148.8	149.7	148.3	147.0	147.8	146.0	145.7	146.3	144.9	143.8	143.4
15°	147.5	148.2	146.5	145.2	145.9	143.8	143.2	143.7	142.2	140.9	140.6
17.5°	146.4	146.9	145.0	143.4	144.0	141.5	140.9	141.1	139.6	138.1	137.5
20°	145.5	145.6	143.5	141.6	142.0	139.4	138.3	138.3	136.8	135.2	134.4
22.5°	143.6	143.2	141.0	138.8	138.9	136.0	134.7	134.4	132.6	130.8	130.1
25°	141.1	140.2	137.5	135.2	134.8	131.7	130.2	129.6	127.9	125.8	124.9
27.5°	138.4	136.8	133.9	131.2	130.5	127.0	125.3	124.4	122.7	120.3	119.5
30°	135.9	133.6	130.3	127.2	126.0	122.3	120.4	119.2	117.6	115.1	114.2
32.5°	132.4	129.5	125.6	122.1	120.6	116.7	114.7	113.3	111.6	109.3	108.7
35°	128.2	124.6	120.2	116.3	114.4	110.3	108.2	106.6	105.1	102.8	102.1
37.5°	123.6	119.3	114.4	110.2	107.9	103.7	101.5	99.9	98.5	96.3	95.6
40°	119.0	114.2	108.8	104.2	101.5	97.3	95.1	93.4	92.1	89.6	88.4
42.5°	114.4	109.1	103.1	98.2	95.4	91.2	89.0	87.2	85.2	82.4	80.7
45°	109.2	103.2	97.0	92.0	88.9	84.8	82.6	80.0	77.8	74.5	72.0
47.5°	103.5	97.1	90.8	85.7	82.5	78.3	75.4	72.3	69.5	65.3	56.5
50°	97.6	91.1	84.5	79.7	76.2	71.7	68.4	64.5	56.9	50.7	46.9
52.5°	91.6	84.9	78.4	73.7	69.8	65.0	61.0	51.7	46.7	42.7	39.4
55°	85.5	78.8	72.5	67.9	63.5	58.3	50.0	43.5	39.7	36.2	32.8
57.5°	79.1	72.6	66.4	61.7	56.8	48.4	42.7	37.4	33.8	29.8	25.9
60°	72.5	66.3	60.6	55.5	49.2	41.3	37.4	31.8	28.0	22.2	17.6
62.5°	65.7	60.0	54.3	49.3	42.0	35.8	31.8	26.2	20.5	16.4	12.1
65°	58.8	53.5	48.1	41.7	36.3	30.9	26.5	20.9	16.1	12.0	8.6
67.5°	51.7	46.9	42.4	36.1	31.4	26.6	22.1	17.1	13.0	10.2	7.5
70°	45.0	40.5	36.3	31.1	26.8	22.7	18.7	14.7	11.3	8.8	6.6
72.5°	37.6	34.0	30.3	26.0	22.5	19.1	15.7	12.4	9.6	7.5	5.6
75°	30.8	27.7	24.8	21.2	18.5	15.5	12.8	10.2	7.9	6.2	4.6
77.5°	24.0	21.5	19.4	16.5	14.2	12.1	10.1	7.9	6.3	4.9	3.6
80°	17.4	15.6	14.0	11.9	10.5	8.8	7.4	5.9	4.7	3.6	2.7
82.5°	11.5	10.3	9.2	7.9	6.9	6.0	5.1	4.1	3.2	2.5	2.0
85°	6.5	5.9	5.2	4.5	4.1	3.5	3.0	2.5	2.1	1.7	1.3
87.5°	2.9	2.7	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.1	0.9
90°	1.6	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	0.9	0.7
92.5°	1.4	1.4	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.8	0.7
95°	1.3	1.3	1.4	1.4	1.3	1.2	1.2	1.0	0.9	0.7	0.6
97.5°	1.2	1.2	1.2	1.2	1.2	1.1	1.1	0.9	0.8	0.7	0.5
100°	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.4
102.5°	1.0	0.9	1.0	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4
105°	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3
107.5°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.3
110°	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2



TEST NUMBER: P394916

CATALOG NUMBER: 303-W1-LEDB1-4000-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: P394916

CATALOG NUMBER: 303-W1-LEDB1-4000-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	149.9	149.9	149.9	149.9	149.9
2.5°	148.6	149.3	147.8	148.6	147.9
5°	147.0	147.8	146.3	147.1	146.4
7.5°	146.6	147.3	145.8	146.6	145.9
10°	145.8	146.6	145.2	145.7	145.2
12.5°	143.8	144.7	143.0	143.7	143.3
15°	140.8	141.5	140.0	140.5	140.3
17.5°	137.5	138.4	136.7	137.0	137.1
20°	134.3	135.0	133.2	133.5	133.6
22.5°	129.6	130.3	128.4	128.6	128.4
25°	124.2	124.7	123.0	123.0	122.9
27.5°	118.7	119.2	117.5	117.4	117.4
30°	113.5	113.8	112.4	112.1	112.1
32.5°	107.6	107.8	106.6	106.1	106.0
35°	101.2	101.3	100.2	99.6	99.6
37.5°	94.6	94.0	92.5	91.8	91.8
40°	86.8	86.0	84.3	83.3	83.1
42.5°	78.4	77.2	75.4	74.2	73.9
45°	68.7	60.8	56.1	54.2	53.5
47.5°	50.4	47.5	45.3	44.0	43.5
50°	41.4	39.1	37.3	36.2	35.7
52.5°	34.4	32.1	30.5	29.0	28.4
55°	27.7	24.9	23.2	21.5	20.6
57.5°	18.6	14.8	12.7	11.1	11.1
60°	11.6	8.6	6.4	4.9	4.8
62.5°	6.8	3.7	1.5	0.4	0.2
65°	4.6	2.4	1.2	0.4	0.1
67.5°	4.1	2.2	1.1	0.4	0.1
70°	3.6	2.0	1.0	0.3	0.1
72.5°	3.1	1.8	0.9	0.3	0.2
75°	2.6	1.5	0.8	0.3	0.1
77.5°	2.2	1.3	0.7	0.3	0.1
80°	1.7	1.0	0.6	0.2	0.1
82.5°	1.3	0.8	0.5	0.2	0.2
85°	0.9	0.6	0.4	0.2	0.2
87.5°	0.7	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: P394916

CATALOG NUMBER: 303-W1-LEDB1-4000-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)