

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P394988

Luminaire Tested: **303-W2-LEDB2-3500-UNV-T2-DIM10-CS**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 2
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.4 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.77 / 1.7
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: General Diffuse

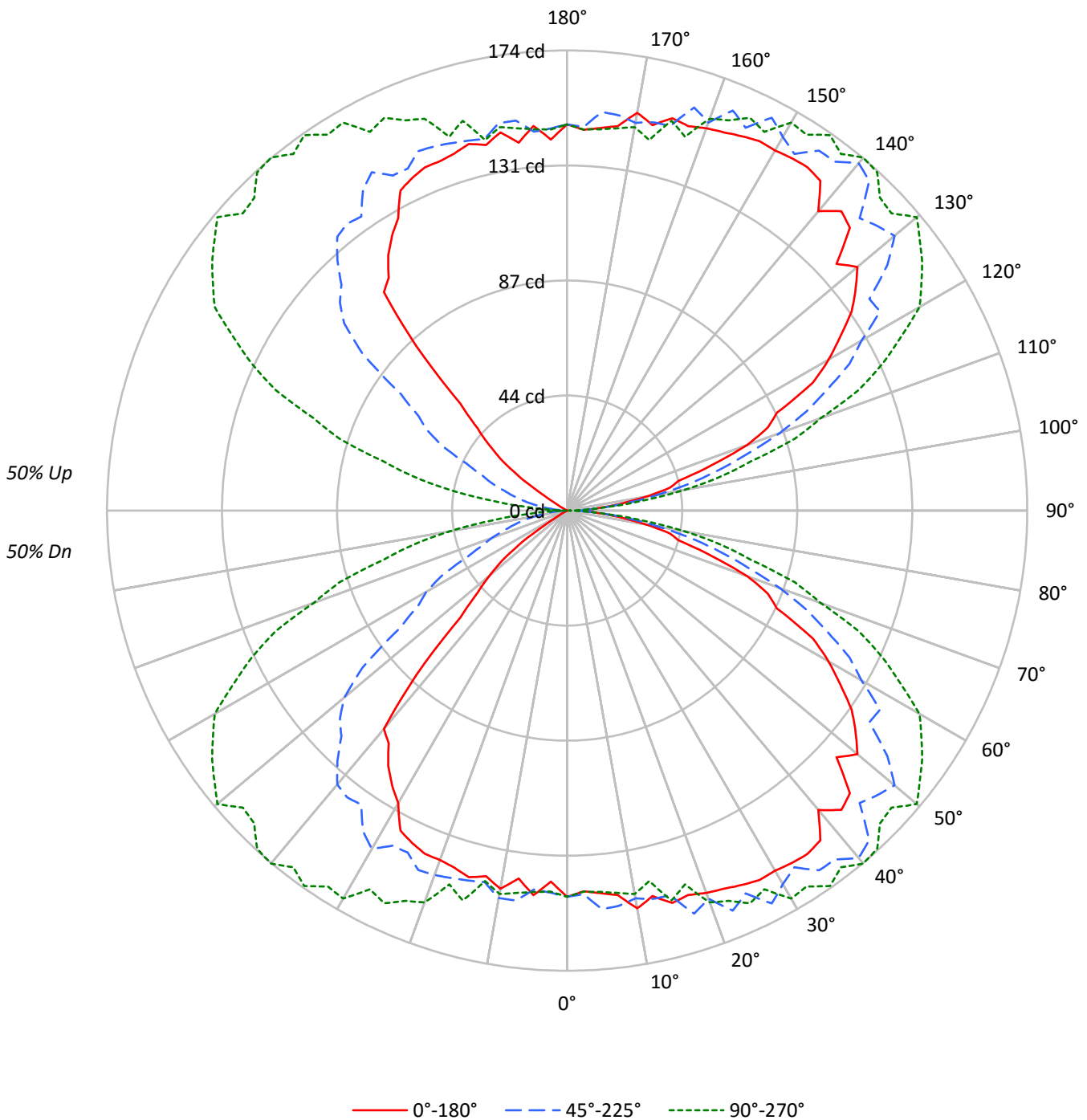
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

Luminous Intensity Polar Plot





TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	46	41
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38	34
3	80	70	62	56	73	65	58	53	55	50	45	46	42	39	37	34	32	28
4	73	62	53	47	67	57	50	44	48	43	38	40	36	32	33	29	27	23
5	67	55	46	40	61	51	43	37	43	37	32	36	31	28	29	26	23	20
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	24	21	24	20	17	15
8	52	39	32	26	48	37	29	24	31	26	21	26	22	18	22	18	15	13
9	48	36	28	23	45	33	26	22	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	18	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20116	20116	20116
5°	20082	20013	20192
10°	21363	20594	20314
15°	21909	21767	20469
20°	22550	23122	20615
25°	23746	24901	21085
30°	25009	26950	20332
35°	26659	29148	19830
40°	26583	31331	19389
45°	29461	32598	11126
50°	30716	36996	8231
55°	31539	39370	4900
60°	31469	42408	744
65°	28526	42936	33
70°	29165	41049	40
75°	23263	38328	0
80°	23962	35784	79
85°	20235	24187	0



TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	1.2
10°-20°	42.5	3.7
20°-30°	71.3	6.1
30°-40°	97.1	8.4
40°-50°	109.2	9.4
50°-60°	104.3	9.0
60°-70°	82.0	7.1
70°-80°	48.1	4.1
80°-90°	12.7	1.1
90°-100°	12.7	1.1
100°-110°	48.1	4.1
110°-120°	82.0	7.1
120°-130°	104.3	9.0
130°-140°	109.2	9.4
140°-150°	97.1	8.4
150°-160°	71.3	6.1
160°-170°	42.5	3.7
170°-180°	14.0	1.2
0°-30°	127.8	11.0
0°-40°	224.9	19.3
0°-60°	438.4	37.7
0°-90°	581.2	50.0
90°-120°	142.8	12.3
90°-150°	453.4	39.0
90°-180°	581.0	50.0
0°-180°	1162.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	146	146	146	146	146	
5°	145	151	145	144	146	14
15°	154	151	153	145	144	43
25°	156	160	164	143	139	72
35°	158	166	173	136	118	98
45°	151	156	167	121	57	114
55°	131	140	164	77	20	116
65°	88	109	132	42	0	91
75°	44	60	72	21	0	51
85°	13	14	15	5	0	14
90°	6	4	1	0	0	4
95°	13	14	15	5	0	14
105°	44	60	72	21	0	51
115°	88	109	132	42	0	91
125°	131	140	164	77	20	116
135°	151	156	167	121	57	114
145°	158	166	173	136	118	98
155°	156	160	164	143	139	72
165°	154	151	153	145	144	43
175°	145	151	145	144	146	14
180°	146	146	146	146	146	



TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	144.1	152.2	150.2	146.8	143.8	145.2	146.3	150.4	144.6	146.2	144.2
5°	145.2	144.6	148.2	142.4	145.1	151.3	137.5	144.0	145.4	146.7	144.7
7.5°	146.6	148.1	149.1	153.3	144.5	150.7	149.2	150.0	155.0	148.0	145.8
10°	152.7	156.7	151.3	140.6	145.9	148.9	151.3	150.2	151.2	149.4	147.2
12.5°	149.3	150.8	152.9	154.6	150.2	150.4	148.7	150.8	163.8	150.9	143.5
15°	153.6	164.9	154.6	152.3	152.2	150.6	155.6	154.0	154.2	153.3	152.6
17.5°	152.4	156.5	156.3	153.9	149.8	159.8	158.1	155.9	167.5	155.9	148.2
20°	153.8	158.2	158.0	155.6	156.4	156.1	150.8	158.3	159.2	153.6	157.7
22.5°	154.8	163.6	157.9	146.1	158.0	163.7	162.5	162.5	161.6	161.2	159.7
25°	156.2	160.0	158.4	152.6	149.4	159.7	160.7	167.8	164.8	164.5	163.8
27.5°	157.5	160.3	160.6	158.4	161.9	167.5	167.8	165.1	167.9	167.2	161.4
30°	157.2	160.7	161.4	160.1	151.8	163.1	166.6	168.3	169.0	169.5	169.4
32.5°	158.0	166.8	163.4	155.8	159.1	159.9	168.8	173.9	175.1	171.9	168.5
35°	158.5	160.7	162.1	156.0	166.1	166.1	171.0	171.2	175.6	173.0	173.3
37.5°	157.2	159.7	157.3	161.4	159.9	166.3	174.5	171.3	173.6	176.2	170.0
40°	147.8	161.5	155.6	155.8	159.4	171.5	174.2	177.1	176.5	172.4	174.2
42.5°	153.5	158.2	157.1	157.3	157.6	169.0	171.0	176.0	172.7	176.8	173.5
45°	151.2	155.5	154.6	155.2	161.2	156.4	171.5	169.0	172.7	172.7	167.3
47.5°	138.1	155.9	151.6	152.9	158.4	159.2	169.5	168.3	176.5	172.9	166.3
50°	143.3	150.8	141.7	148.7	155.4	161.6	166.5	170.4	170.1	166.4	172.6
52.5°	137.5	137.4	141.1	138.2	147.0	152.6	162.4	161.2	168.5	173.4	168.1
55°	131.3	129.8	134.2	121.7	140.6	139.5	157.1	168.8	169.9	155.2	163.9
57.5°	122.5	125.8	128.3	128.6	130.6	140.2	149.9	157.1	160.0	158.6	158.8
60°	114.2	112.8	119.2	115.8	124.7	128.5	146.6	145.5	153.0	152.5	153.9
62.5°	104.8	103.1	106.5	110.6	116.7	120.4	136.2	136.5	144.2	148.0	142.3
65°	87.5	93.3	96.5	99.0	105.8	108.6	121.1	123.0	129.9	132.1	131.7
67.5°	82.2	81.4	85.2	86.0	92.5	97.8	114.3	112.1	117.8	124.2	119.4
70°	72.4	70.8	73.9	75.1	81.4	85.3	93.7	97.9	103.5	106.4	101.9
72.5°	57.7	59.4	64.5	65.1	68.3	71.7	84.7	83.6	92.5	94.1	90.3
75°	43.7	48.8	51.9	52.2	55.9	59.6	69.1	71.1	78.6	75.1	72.0
77.5°	39.8	38.6	41.2	42.5	44.9	47.7	52.5	54.6	62.6	59.5	59.6
80°	30.2	28.9	30.9	30.9	33.6	35.2	38.2	40.6	44.4	43.6	45.1
82.5°	21.0	20.8	21.6	21.9	23.2	24.5	26.3	27.7	29.3	29.6	28.9
85°	12.8	12.9	14.0	13.9	13.6	13.9	14.6	15.4	15.7	15.8	15.3
87.5°	7.9	8.0	7.9	7.5	7.1	6.4	6.1	6.0	6.4	5.6	5.4
90°	6.2	5.8	5.8	5.2	4.6	3.6	2.8	1.8	1.6	0.6	0.6
92.5°	7.9	8.0	7.9	7.5	7.1	6.4	6.1	6.0	6.4	5.6	5.4
95°	12.8	12.9	14.0	13.9	13.6	13.9	14.6	15.4	15.7	15.8	15.3
97.5°	21.0	20.8	21.6	21.9	23.2	24.5	26.3	27.7	29.3	29.6	28.9
100°	30.2	28.9	30.9	30.9	33.6	35.2	38.2	40.6	44.4	43.6	45.1
102.5°	39.8	38.6	41.2	42.5	44.9	47.7	52.5	54.6	62.6	59.5	59.6
105°	43.7	48.8	51.9	52.2	55.9	59.6	69.1	71.1	78.6	75.1	72.0
107.5°	57.7	59.4	64.5	65.1	68.3	71.7	84.7	83.6	92.5	94.1	90.3
110°	72.4	70.8	73.9	75.1	81.4	85.3	93.7	97.9	103.5	106.4	101.9



TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.2	81.4	85.2	86.0	92.5	97.8	114.3	112.1	117.8	124.2	119.4
115°	87.5	93.3	96.5	99.0	105.8	108.6	121.1	123.0	129.9	132.1	131.7
117.5°	104.8	103.1	106.5	110.6	116.7	120.4	136.2	136.5	144.2	148.0	142.3
120°	114.2	112.8	119.2	115.8	124.7	128.5	146.6	145.5	153.0	152.5	153.9
122.5°	122.5	125.8	128.3	128.6	130.6	140.2	149.9	157.1	160.0	158.6	158.8
125°	131.3	129.8	134.2	121.7	140.6	139.5	157.1	168.8	169.9	155.2	163.9
127.5°	137.5	137.4	141.1	138.2	147.0	152.6	162.4	161.2	168.5	173.4	168.1
130°	143.3	150.8	141.7	148.7	155.4	161.6	166.5	170.4	170.1	166.4	172.6
132.5°	138.1	155.9	151.6	152.9	158.4	159.2	169.5	168.3	176.5	172.9	166.3
135°	151.2	155.5	154.6	155.2	161.2	156.4	171.5	169.0	172.7	172.7	167.3
137.5°	153.5	158.2	157.1	157.3	157.6	169.0	171.0	176.0	172.7	176.8	173.5
140°	147.8	161.5	155.6	155.8	159.4	171.5	174.2	177.1	176.5	172.4	174.2
142.5°	157.2	159.7	157.3	161.4	159.9	166.3	174.5	171.3	173.6	176.2	170.0
145°	158.5	160.7	162.1	156.0	166.1	166.1	171.0	171.2	175.6	173.0	173.3
147.5°	158.0	166.8	163.4	155.8	159.1	159.9	168.8	173.9	175.1	171.9	168.5
150°	157.2	160.7	161.4	160.1	151.8	163.1	166.6	168.3	169.0	169.5	169.4
152.5°	157.5	160.3	160.6	158.4	161.9	167.5	167.8	165.1	167.9	167.2	161.4
155°	156.2	160.0	158.4	152.6	149.4	159.7	160.7	167.8	164.8	164.5	163.8
157.5°	154.8	163.6	157.9	146.1	158.0	163.7	162.5	162.5	161.6	161.2	159.7
160°	153.8	158.2	158.0	155.6	156.4	156.1	150.8	158.3	159.2	153.6	157.7
162.5°	152.4	156.5	156.3	153.9	149.8	159.8	158.1	155.9	167.5	155.9	148.2
165°	153.6	164.9	154.6	152.3	152.2	150.6	155.6	154.0	154.2	153.3	152.6
167.5°	149.3	150.8	152.9	154.6	150.2	150.4	148.7	150.8	163.8	150.9	143.5
170°	152.7	156.7	151.3	140.6	145.9	148.9	151.3	150.2	151.2	149.4	147.2
172.5°	146.6	148.1	149.1	153.3	144.5	150.7	149.2	150.0	155.0	148.0	145.8
175°	145.2	144.6	148.2	142.4	145.1	151.3	137.5	144.0	145.4	146.7	144.7
177.5°	144.1	152.2	150.2	146.8	143.8	145.2	146.3	150.4	144.6	146.2	144.2
180°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0



TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	147.9	146.1	143.3	146.0	144.6	138.6	142.7	151.1	145.4	140.4
5°	148.1	145.9	143.0	144.9	143.8	143.5	144.5	145.8	144.1	146.0
7.5°	149.2	145.4	143.2	145.3	148.7	145.9	141.3	148.8	142.3	140.3
10°	150.7	146.5	143.9	141.1	148.8	140.6	141.1	143.1	141.7	145.2
12.5°	148.2	148.3	144.8	146.3	143.9	138.0	136.3	142.3	141.6	141.6
15°	155.1	150.2	150.0	147.8	144.8	146.1	140.5	141.6	141.0	143.5
17.5°	157.3	153.0	150.3	149.5	145.7	141.2	140.1	140.6	140.3	141.6
20°	163.5	154.3	152.4	151.1	146.6	146.7	139.7	139.2	135.6	140.6
22.5°	159.7	158.9	152.6	152.7	147.1	142.6	138.8	137.4	133.3	140.5
25°	166.3	157.7	155.8	154.3	142.7	142.2	137.6	135.8	135.0	138.7
27.5°	166.7	159.6	157.7	150.3	142.8	139.2	133.6	132.3	126.6	136.5
30°	182.1	166.8	151.8	156.3	147.7	143.2	133.6	130.5	123.0	127.8
32.5°	173.0	163.3	155.1	156.8	143.7	140.3	130.3	128.6	118.6	123.2
35°	179.9	167.8	161.1	155.0	135.7	136.7	125.9	119.8	120.4	117.9
37.5°	181.5	170.0	160.8	150.2	136.7	132.1	117.5	113.7	111.7	110.9
40°	173.4	168.1	155.9	152.8	135.2	126.2	108.5	105.8	98.1	107.8
42.5°	174.4	167.0	155.7	145.2	128.6	119.1	105.4	93.2	85.9	84.6
45°	170.5	165.1	148.8	139.5	120.7	110.7	86.5	63.5	56.0	57.1
47.5°	168.6	151.8	149.3	133.6	116.5	98.5	67.3	54.3	47.6	45.8
50°	166.3	159.1	135.3	128.3	110.0	75.8	52.4	42.6	37.6	38.4
52.5°	166.9	156.4	139.4	121.4	97.5	63.2	49.6	35.5	31.9	30.8
55°	158.3	146.3	133.3	113.4	76.7	55.2	42.2	27.8	22.3	20.4
57.5°	152.7	142.0	125.7	103.3	66.6	47.5	31.7	11.7	8.3	8.0
60°	149.3	137.0	117.2	91.8	61.5	40.0	19.4	6.6	3.5	2.7
62.5°	140.6	124.8	103.5	76.9	53.5	26.9	14.9	3.1	0.2	0.2
65°	124.5	113.5	90.0	65.7	42.0	21.8	10.9	1.9	0.1	0.1
67.5°	113.2	95.5	83.0	58.5	34.7	18.1	9.9	1.8	0.0	0.0
70°	99.3	92.7	72.0	49.9	30.3	15.1	8.2	1.5	0.1	0.1
72.5°	85.2	76.6	63.5	42.9	24.8	12.8	6.7	1.5	0.2	0.2
75°	69.5	64.9	50.2	33.5	20.7	10.6	5.4	1.2	0.1	0.0
77.5°	53.5	50.5	40.7	27.6	16.5	8.5	4.4	0.9	0.0	0.0
80°	42.4	37.5	28.8	18.9	12.0	6.1	3.0	0.6	0.1	0.1
82.5°	27.8	23.8	19.5	13.4	8.2	3.9	2.1	0.3	0.0	0.1
85°	14.6	12.8	10.8	7.1	4.6	2.3	1.2	0.3	0.0	0.0
87.5°	5.4	4.5	3.8	2.6	1.7	0.9	0.4	0.1	0.0	0.0
90°	0.6	0.8	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	4.5	3.8	2.6	1.7	0.9	0.4	0.1	0.0	0.0
95°	14.6	12.8	10.8	7.1	4.6	2.3	1.2	0.3	0.0	0.0
97.5°	27.8	23.8	19.5	13.4	8.2	3.9	2.1	0.3	0.0	0.1
100°	42.4	37.5	28.8	18.9	12.0	6.1	3.0	0.6	0.1	0.1
102.5°	53.5	50.5	40.7	27.6	16.5	8.5	4.4	0.9	0.0	0.0
105°	69.5	64.9	50.2	33.5	20.7	10.6	5.4	1.2	0.1	0.0
107.5°	85.2	76.6	63.5	42.9	24.8	12.8	6.7	1.5	0.2	0.2
110°	99.3	92.7	72.0	49.9	30.3	15.1	8.2	1.5	0.1	0.1



TEST NUMBER: P394988

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T2-DIM10-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	113.2	95.5	83.0	58.5	34.7	18.1	9.9	1.8	0.0	0.0
115°	124.5	113.5	90.0	65.7	42.0	21.8	10.9	1.9	0.1	0.1
117.5°	140.6	124.8	103.5	76.9	53.5	26.9	14.9	3.1	0.2	0.2
120°	149.3	137.0	117.2	91.8	61.5	40.0	19.4	6.6	3.5	2.7
122.5°	152.7	142.0	125.7	103.3	66.6	47.5	31.7	11.7	8.3	8.0
125°	158.3	146.3	133.3	113.4	76.7	55.2	42.2	27.8	22.3	20.4
127.5°	166.9	156.4	139.4	121.4	97.5	63.2	49.6	35.5	31.9	30.8
130°	166.3	159.1	135.3	128.3	110.0	75.8	52.4	42.6	37.6	38.4
132.5°	168.6	151.8	149.3	133.6	116.5	98.5	67.3	54.3	47.6	45.8
135°	170.5	165.1	148.8	139.5	120.7	110.7	86.5	63.5	56.0	57.1
137.5°	174.4	167.0	155.7	145.2	128.6	119.1	105.4	93.2	85.9	84.6
140°	173.4	168.1	155.9	152.8	135.2	126.2	108.5	105.8	98.1	107.8
142.5°	181.5	170.0	160.8	150.2	136.7	132.1	117.5	113.7	111.7	110.9
145°	179.9	167.8	161.1	155.0	135.7	136.7	125.9	119.8	120.4	117.9
147.5°	173.0	163.3	155.1	156.8	143.7	140.3	130.3	128.6	118.6	123.2
150°	182.1	166.8	151.8	156.3	147.7	143.2	133.6	130.5	123.0	127.8
152.5°	166.7	159.6	157.7	150.3	142.8	139.2	133.6	132.3	126.6	136.5
155°	166.3	157.7	155.8	154.3	142.7	142.2	137.6	135.8	135.0	138.7
157.5°	159.7	158.9	152.6	152.7	147.1	142.6	138.8	137.4	133.3	140.5
160°	163.5	154.3	152.4	151.1	146.6	146.7	139.7	139.2	135.6	140.6
162.5°	157.3	153.0	150.3	149.5	145.7	141.2	140.1	140.6	140.3	141.6
165°	155.1	150.2	150.0	147.8	144.8	146.1	140.5	141.6	141.0	143.5
167.5°	148.2	148.3	144.8	146.3	143.9	138.0	136.3	142.3	141.6	141.6
170°	150.7	146.5	143.9	141.1	148.8	140.6	141.1	143.1	141.7	145.2
172.5°	149.2	145.4	143.2	145.3	148.7	145.9	141.3	148.8	142.3	140.3
175°	148.1	145.9	143.0	144.9	143.8	143.5	144.5	145.8	144.1	146.0
177.5°	147.9	146.1	143.3	146.0	144.6	138.6	142.7	151.1	145.4	140.4
180°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0

(END OF REPORT)