

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: P394996

Luminaire Tested: **303-W2-LEDB2-2700-UNV-T4-DIM10-CS**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 4
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 949.4 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.39 / 1.52
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: General Diffuse

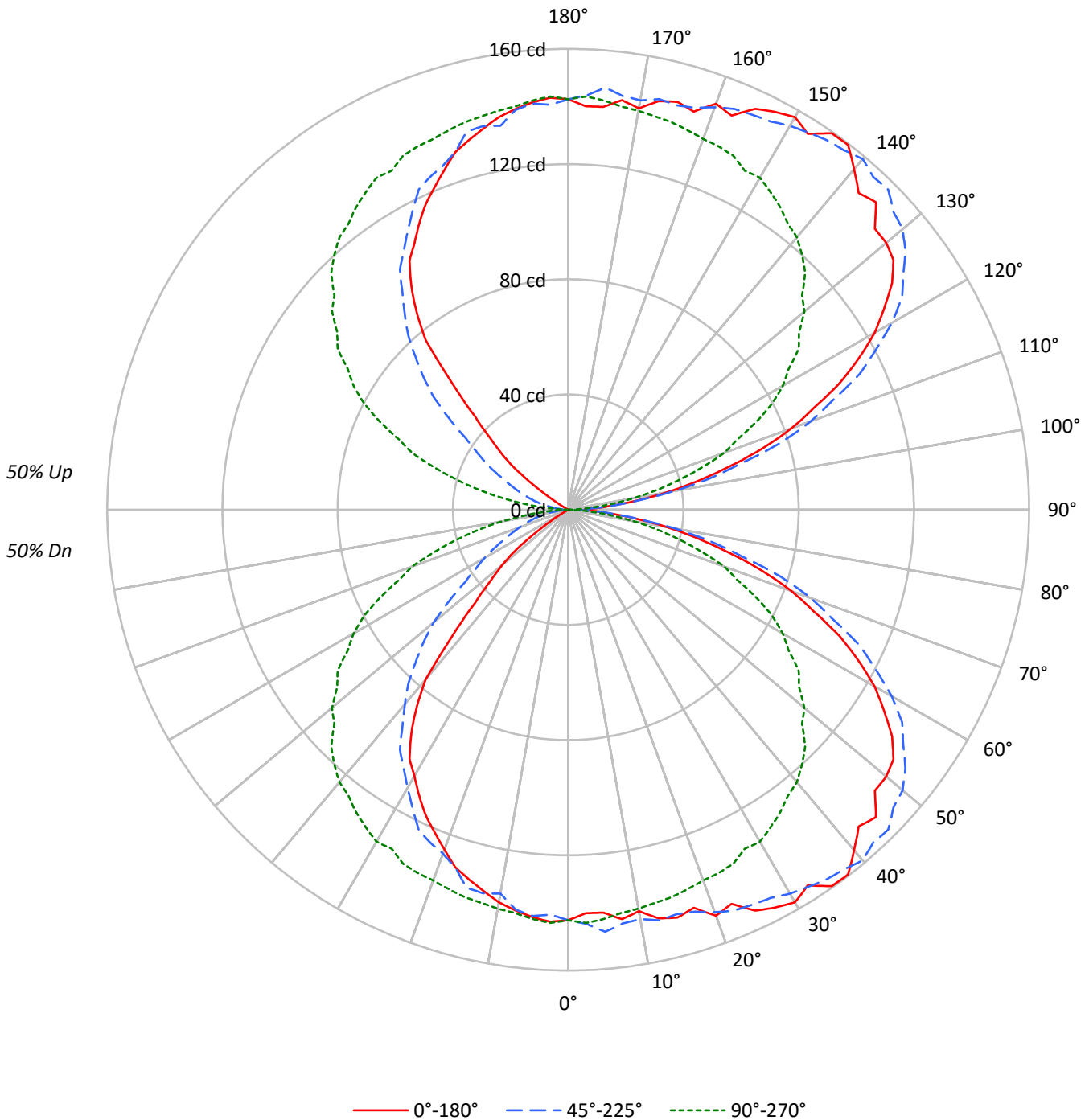
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS

Luminous Intensity Polar Plot





TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-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	68		60	58	57		49	48	47	41
2	88	81	74	69	81	75	69	64	63	59	55		52	49	47		43	41	39	34
3	80	71	63	57	74	65	59	53	55	50	46		46	42	39		37	35	32	28
4	73	62	54	48	67	58	50	45	49	43	39		41	37	33		33	30	28	24
5	67	55	47	41	62	51	44	38	43	38	33		36	32	28		30	26	24	20
6	62	49	41	35	57	46	38	33	39	33	29		33	28	25		27	23	21	18
7	57	44	36	31	52	41	34	29	35	29	25		30	25	22		24	21	18	16
8	53	40	32	27	48	37	30	25	32	26	22		27	22	19		22	19	16	14
9	49	37	29	24	45	34	27	22	29	24	20		25	20	17		20	17	15	12
10	46	33	26	21	42	31	25	20	27	21	18		23	18	15		19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19633	19633	19633
5°	19418	19722	19639
10°	19796	19670	19363
15°	20911	19855	18957
20°	21993	20087	18416
25°	23351	20614	17787
30°	25041	21175	16975
35°	26827	21580	15979
40°	27770	22212	13831
45°	29422	22661	8905
50°	30887	22935	6409
55°	32957	23468	3075
60°	33838	23698	110
65°	33873	23440	33
70°	33194	23203	40
75°	30822	21240	53
80°	27691	18328	79
85°	22290	12489	0



TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	1.4
10°-20°	39.6	4.2
20°-30°	62.7	6.6
30°-40°	80.5	8.5
40°-50°	86.4	9.1
50°-60°	80.1	8.4
60°-70°	63.8	6.7
70°-80°	38.0	4.0
80°-90°	10.0	1.1
90°-100°	10.0	1.1
100°-110°	38.0	4.0
110°-120°	63.8	6.7
120°-130°	80.1	8.4
130°-140°	86.4	9.1
140°-150°	80.5	8.5
150°-160°	62.7	6.6
160°-170°	39.6	4.2
170°-180°	13.6	1.4
0°-30°	115.9	12.2
0°-40°	196.4	20.7
0°-60°	362.9	38.2
0°-90°	474.7	50.0
90°-120°	111.9	11.8
90°-150°	358.8	37.8
90°-180°	475.0	50.0
0°-180°	949.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	142	142	142	142	142	
5°	140	147	143	142	142	14
15°	147	145	139	136	133	41
25°	154	151	136	123	117	71
35°	160	157	128	102	95	99
45°	151	157	116	75	46	115
55°	137	142	98	44	13	122
65°	104	112	72	24	0	102
75°	58	62	40	12	0	62
85°	14	15	8	3	0	16
90°	6	3	0	0	0	4
95°	14	15	8	3	0	16
105°	58	62	40	12	0	62
115°	104	112	72	24	0	102
125°	137	142	98	44	13	122
135°	151	157	116	75	46	115
145°	160	157	128	102	95	99
155°	154	151	136	123	117	71
165°	147	145	139	136	133	41
175°	140	147	143	142	142	14
180°	142	142	142	142	142	



TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5
2.5°	140.2	143.0	142.9	141.7	140.8	143.9	140.7	143.7	142.9	142.7	143.6
5°	140.4	145.3	143.6	144.7	142.5	147.1	142.9	144.3	139.6	143.6	142.6
7.5°	143.4	145.6	144.1	145.6	141.5	144.9	143.2	144.4	144.8	142.5	141.2
10°	141.5	146.4	144.9	144.1	143.7	144.3	141.9	144.0	144.6	142.2	140.6
12.5°	145.3	147.5	145.7	146.8	142.4	146.0	144.0	144.2	142.7	141.6	139.8
15°	146.6	147.2	147.4	148.4	144.9	145.4	144.6	144.3	142.8	140.9	139.2
17.5°	144.9	150.1	148.3	148.1	146.9	146.3	145.4	144.6	144.2	141.1	138.1
20°	150.0	151.6	150.4	149.6	147.5	148.7	146.3	145.5	141.2	139.5	137.0
22.5°	148.1	151.8	151.7	152.3	150.2	150.6	146.3	146.1	142.1	138.5	136.5
25°	153.6	155.4	153.4	153.1	150.2	151.3	146.7	145.9	141.4	137.4	135.6
27.5°	155.7	157.3	156.4	156.9	154.2	152.0	149.8	148.5	141.6	136.8	132.7
30°	157.4	160.1	159.5	158.3	155.0	153.9	151.4	149.1	144.3	135.9	133.1
32.5°	154.7	160.0	157.4	158.4	158.1	155.2	151.7	148.6	144.4	136.7	130.7
35°	159.5	158.6	159.0	160.7	158.2	156.6	154.4	150.4	144.3	135.4	128.3
37.5°	159.6	160.5	158.3	161.0	158.6	157.3	153.2	148.7	143.4	131.4	125.2
40°	154.4	157.3	158.0	160.5	159.8	159.0	155.0	149.3	141.8	129.3	123.5
42.5°	149.2	155.9	154.0	158.3	159.5	156.7	154.3	146.1	139.6	126.3	120.1
45°	151.0	155.2	154.9	157.7	156.4	157.1	152.7	145.6	134.8	124.3	116.3
47.5°	144.4	152.1	150.2	155.0	154.6	153.1	150.4	142.2	132.5	118.3	110.1
50°	144.1	146.7	147.7	150.2	152.5	151.5	145.3	141.7	128.0	112.8	107.0
52.5°	142.3	140.9	142.9	145.5	147.3	147.5	140.9	132.4	123.4	110.2	101.0
55°	137.2	135.9	137.7	140.2	144.5	141.9	138.8	128.4	117.0	103.1	97.7
57.5°	130.0	128.4	129.5	134.1	138.2	137.4	133.1	123.1	115.2	99.3	90.6
60°	122.8	121.5	120.9	126.2	128.5	129.7	125.1	114.9	105.6	92.0	86.0
62.5°	113.7	115.1	115.8	118.2	120.4	120.4	118.0	107.1	97.5	85.2	79.8
65°	103.9	102.6	103.8	109.5	112.3	111.6	110.1	98.7	89.3	77.9	71.9
67.5°	92.2	92.2	95.4	97.4	102.0	99.5	97.9	89.8	79.1	69.8	63.3
70°	82.4	81.9	82.3	86.0	88.1	89.5	86.6	77.7	69.9	61.4	57.6
72.5°	70.7	69.9	70.4	74.2	75.7	77.3	73.4	66.4	60.6	52.6	48.5
75°	57.9	58.0	59.0	60.3	63.6	62.1	61.0	55.1	48.8	42.6	39.9
77.5°	46.0	46.1	47.0	48.8	50.3	50.4	49.1	43.5	38.0	33.4	31.3
80°	34.9	34.4	34.7	35.9	37.6	37.3	35.8	32.1	28.5	24.1	23.1
82.5°	23.4	23.6	23.7	24.8	24.6	24.2	23.9	21.5	19.2	15.8	15.0
85°	14.1	14.3	14.7	14.4	14.6	14.7	13.3	11.8	9.9	8.9	7.9
87.5°	8.0	7.6	7.6	7.0	6.7	6.2	5.3	4.5	3.8	2.9	2.6
90°	5.5	5.5	5.2	4.5	3.6	2.9	2.0	1.3	0.7	0.4	0.4
92.5°	8.0	7.6	7.6	7.0	6.7	6.2	5.3	4.5	3.8	2.9	2.6
95°	14.1	14.3	14.7	14.4	14.6	14.7	13.3	11.8	9.9	8.9	7.9
97.5°	23.4	23.6	23.7	24.8	24.6	24.2	23.9	21.5	19.2	15.8	15.0
100°	34.9	34.4	34.7	35.9	37.6	37.3	35.8	32.1	28.5	24.1	23.1
102.5°	46.0	46.1	47.0	48.8	50.3	50.4	49.1	43.5	38.0	33.4	31.3
105°	57.9	58.0	59.0	60.3	63.6	62.1	61.0	55.1	48.8	42.6	39.9
107.5°	70.7	69.9	70.4	74.2	75.7	77.3	73.4	66.4	60.6	52.6	48.5
110°	82.4	81.9	82.3	86.0	88.1	89.5	86.6	77.7	69.9	61.4	57.6



TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	92.2	92.2	95.4	97.4	102.0	99.5	97.9	89.8	79.1	69.8	63.3
115°	103.9	102.6	103.8	109.5	112.3	111.6	110.1	98.7	89.3	77.9	71.9
117.5°	113.7	115.1	115.8	118.2	120.4	120.4	118.0	107.1	97.5	85.2	79.8
120°	122.8	121.5	120.9	126.2	128.5	129.7	125.1	114.9	105.6	92.0	86.0
122.5°	130.0	128.4	129.5	134.1	138.2	137.4	133.1	123.1	115.2	99.3	90.6
125°	137.2	135.9	137.7	140.2	144.5	141.9	138.8	128.4	117.0	103.1	97.7
127.5°	142.3	140.9	142.9	145.5	147.3	147.5	140.9	132.4	123.4	110.2	101.0
130°	144.1	146.7	147.7	150.2	152.5	151.5	145.3	141.7	128.0	112.8	107.0
132.5°	144.4	152.1	150.2	155.0	154.6	153.1	150.4	142.2	132.5	118.3	110.1
135°	151.0	155.2	154.9	157.7	156.4	157.1	152.7	145.6	134.8	124.3	116.3
137.5°	149.2	155.9	154.0	158.3	159.5	156.7	154.3	146.1	139.6	126.3	120.1
140°	154.4	157.3	158.0	160.5	159.8	159.0	155.0	149.3	141.8	129.3	123.5
142.5°	159.6	160.5	158.3	161.0	158.6	157.3	153.2	148.7	143.4	131.4	125.2
145°	159.5	158.6	159.0	160.7	158.2	156.6	154.4	150.4	144.3	135.4	128.3
147.5°	154.7	160.0	157.4	158.4	158.1	155.2	151.7	148.6	144.4	136.7	130.7
150°	157.4	160.1	159.5	158.3	155.0	153.9	151.4	149.1	144.3	135.9	133.1
152.5°	155.7	157.3	156.4	156.9	154.2	152.0	149.8	148.5	141.6	136.8	132.7
155°	153.6	155.4	153.4	153.1	150.2	151.3	146.7	145.9	141.4	137.4	135.6
157.5°	148.1	151.8	151.7	152.3	150.2	150.6	146.3	146.1	142.1	138.5	136.5
160°	150.0	151.6	150.4	149.6	147.5	148.7	146.3	145.5	141.2	139.5	137.0
162.5°	144.9	150.1	148.3	148.1	146.9	146.3	145.4	144.6	144.2	141.1	138.1
165°	146.6	147.2	147.4	148.4	144.9	145.4	144.6	144.3	142.8	140.9	139.2
167.5°	145.3	147.5	145.7	146.8	142.4	146.0	144.0	144.2	142.7	141.6	139.8
170°	141.5	146.4	144.9	144.1	143.7	144.3	141.9	144.0	144.6	142.2	140.6
172.5°	143.4	145.6	144.1	145.6	141.5	144.9	143.2	144.4	144.8	142.5	141.2
175°	140.4	145.3	143.6	144.7	142.5	147.1	142.9	144.3	139.6	143.6	142.6
177.5°	140.2	143.0	142.9	141.7	140.8	143.9	140.7	143.7	142.9	142.7	143.6
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5
2.5°	142.8	144.5	143.3	142.0	140.7	142.1	142.3	140.9	141.4	143.2
5°	143.7	141.3	142.7	142.8	141.6	142.4	138.0	141.0	140.2	142.0
7.5°	141.9	143.2	141.5	141.5	140.0	140.8	139.9	139.1	141.1	140.3
10°	141.5	140.5	141.5	140.1	135.3	137.5	136.4	137.2	136.4	138.4
12.5°	140.1	138.5	138.9	138.2	136.4	135.4	136.0	136.4	137.5	135.6
15°	139.2	138.1	137.0	137.2	135.9	133.3	130.3	131.9	131.1	132.9
17.5°	138.0	136.0	135.6	132.7	130.2	131.8	130.5	129.0	128.0	130.2
20°	137.3	135.6	133.3	129.3	127.1	126.8	127.0	126.7	125.8	125.6
22.5°	135.0	131.9	130.2	126.2	125.1	123.0	120.1	122.3	120.0	121.2
25°	133.4	129.7	127.6	124.0	122.7	118.8	118.1	115.2	116.2	117.0
27.5°	132.6	128.5	123.4	118.7	116.9	114.1	114.1	111.2	111.7	112.0
30°	130.1	124.3	121.4	115.9	111.4	109.2	107.6	106.4	106.9	106.7
32.5°	127.9	120.9	115.4	108.8	106.3	103.7	103.3	99.5	102.2	102.5
35°	125.3	117.3	110.9	103.5	101.8	97.9	97.1	94.8	94.3	95.0
37.5°	123.3	113.1	106.4	98.4	94.4	92.5	90.7	86.8	85.7	86.4
40°	118.5	108.5	100.8	93.6	88.2	83.2	83.3	79.0	77.3	76.9
42.5°	117.0	103.7	95.2	87.2	82.2	77.5	73.7	68.9	61.7	59.5
45°	110.2	99.3	88.2	80.0	74.9	69.3	61.2	47.7	45.8	45.7
47.5°	105.6	93.9	82.3	74.6	68.0	60.4	47.9	39.4	36.9	36.4
50°	101.3	87.5	76.6	68.1	61.0	46.2	39.5	31.5	28.3	29.9
52.5°	95.8	82.6	71.4	61.8	52.1	39.1	33.2	25.6	22.4	22.5
55°	90.9	78.1	67.2	56.2	43.5	33.7	26.9	18.5	13.5	12.8
57.5°	85.7	72.9	62.7	50.5	38.0	28.3	19.7	8.9	5.3	5.4
60°	79.4	67.8	56.7	42.9	33.5	22.9	12.8	3.9	0.4	0.4
62.5°	74.1	62.1	51.5	38.4	29.0	16.2	8.5	0.4	0.1	0.1
65°	67.9	56.4	46.5	34.3	24.3	13.6	6.6	0.7	0.1	0.1
67.5°	60.2	50.5	41.3	30.3	20.9	11.5	6.3	1.1	0.1	0.1
70°	52.5	44.4	36.2	26.4	18.0	10.4	5.5	1.2	0.1	0.1
72.5°	45.1	37.6	30.4	22.4	15.0	8.8	4.8	1.1	0.1	0.1
75°	36.6	30.9	25.1	18.5	12.4	7.2	3.9	0.9	0.1	0.1
77.5°	28.3	24.1	20.5	14.6	9.9	5.7	3.1	0.7	0.1	0.1
80°	21.6	17.8	14.6	10.6	7.3	4.1	2.3	0.5	0.1	0.1
82.5°	13.6	11.8	9.7	7.1	4.7	2.8	1.5	0.3	0.0	0.0
85°	7.6	6.4	5.5	4.0	2.9	1.5	0.8	0.2	0.0	0.0
87.5°	2.7	2.3	2.0	1.5	1.1	0.5	0.3	0.0	0.0	0.0
90°	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
92.5°	2.7	2.3	2.0	1.5	1.1	0.5	0.3	0.0	0.0	0.0
95°	7.6	6.4	5.5	4.0	2.9	1.5	0.8	0.2	0.0	0.0
97.5°	13.6	11.8	9.7	7.1	4.7	2.8	1.5	0.3	0.0	0.0
100°	21.6	17.8	14.6	10.6	7.3	4.1	2.3	0.5	0.1	0.1
102.5°	28.3	24.1	20.5	14.6	9.9	5.7	3.1	0.7	0.1	0.1
105°	36.6	30.9	25.1	18.5	12.4	7.2	3.9	0.9	0.1	0.1
107.5°	45.1	37.6	30.4	22.4	15.0	8.8	4.8	1.1	0.1	0.1
110°	52.5	44.4	36.2	26.4	18.0	10.4	5.5	1.2	0.1	0.1



TEST NUMBER: P394996

CATALOG NUMBER: 303-W2-LEDB2-2700-UNV-T4-DIM10-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	60.2	50.5	41.3	30.3	20.9	11.5	6.3	1.1	0.1	0.1
115°	67.9	56.4	46.5	34.3	24.3	13.6	6.6	0.7	0.1	0.1
117.5°	74.1	62.1	51.5	38.4	29.0	16.2	8.5	0.4	0.1	0.1
120°	79.4	67.8	56.7	42.9	33.5	22.9	12.8	3.9	0.4	0.4
122.5°	85.7	72.9	62.7	50.5	38.0	28.3	19.7	8.9	5.3	5.4
125°	90.9	78.1	67.2	56.2	43.5	33.7	26.9	18.5	13.5	12.8
127.5°	95.8	82.6	71.4	61.8	52.1	39.1	33.2	25.6	22.4	22.5
130°	101.3	87.5	76.6	68.1	61.0	46.2	39.5	31.5	28.3	29.9
132.5°	105.6	93.9	82.3	74.6	68.0	60.4	47.9	39.4	36.9	36.4
135°	110.2	99.3	88.2	80.0	74.9	69.3	61.2	47.7	45.8	45.7
137.5°	117.0	103.7	95.2	87.2	82.2	77.5	73.7	68.9	61.7	59.5
140°	118.5	108.5	100.8	93.6	88.2	83.2	83.3	79.0	77.3	76.9
142.5°	123.3	113.1	106.4	98.4	94.4	92.5	90.7	86.8	85.7	86.4
145°	125.3	117.3	110.9	103.5	101.8	97.9	97.1	94.8	94.3	95.0
147.5°	127.9	120.9	115.4	108.8	106.3	103.7	103.3	99.5	102.2	102.5
150°	130.1	124.3	121.4	115.9	111.4	109.2	107.6	106.4	106.9	106.7
152.5°	132.6	128.5	123.4	118.7	116.9	114.1	114.1	111.2	111.7	112.0
155°	133.4	129.7	127.6	124.0	122.7	118.8	118.1	115.2	116.2	117.0
157.5°	135.0	131.9	130.2	126.2	125.1	123.0	120.1	122.3	120.0	121.2
160°	137.3	135.6	133.3	129.3	127.1	126.8	127.0	126.7	125.8	125.6
162.5°	138.0	136.0	135.6	132.7	130.2	131.8	130.5	129.0	128.0	130.2
165°	139.2	138.1	137.0	137.2	135.9	133.3	130.3	131.9	131.1	132.9
167.5°	140.1	138.5	138.9	138.2	136.4	135.4	136.0	136.4	137.5	135.6
170°	141.5	140.5	141.5	140.1	135.3	137.5	136.4	137.2	136.4	138.4
172.5°	141.9	143.2	141.5	141.5	140.0	140.8	139.9	139.1	141.1	140.3
175°	143.7	141.3	142.7	142.8	141.6	142.4	138.0	141.0	140.2	142.0
177.5°	142.8	144.5	143.3	142.0	140.7	142.1	142.3	140.9	141.4	143.2
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5

(END OF REPORT)