

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: P394998

Luminaire Tested: **303-W2-LEDB2-3500-UNV-T4-DIM10-CS**

Issue Date: 4/9/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P394998  
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-LEDB2-3500-UNV-T4-DIM10-CS  
Description: LUMIERE EON LED LUMINAIRE  
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 4  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1061.8 lumens  
Efficiency: N/A  
Efficacy: 68.5 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

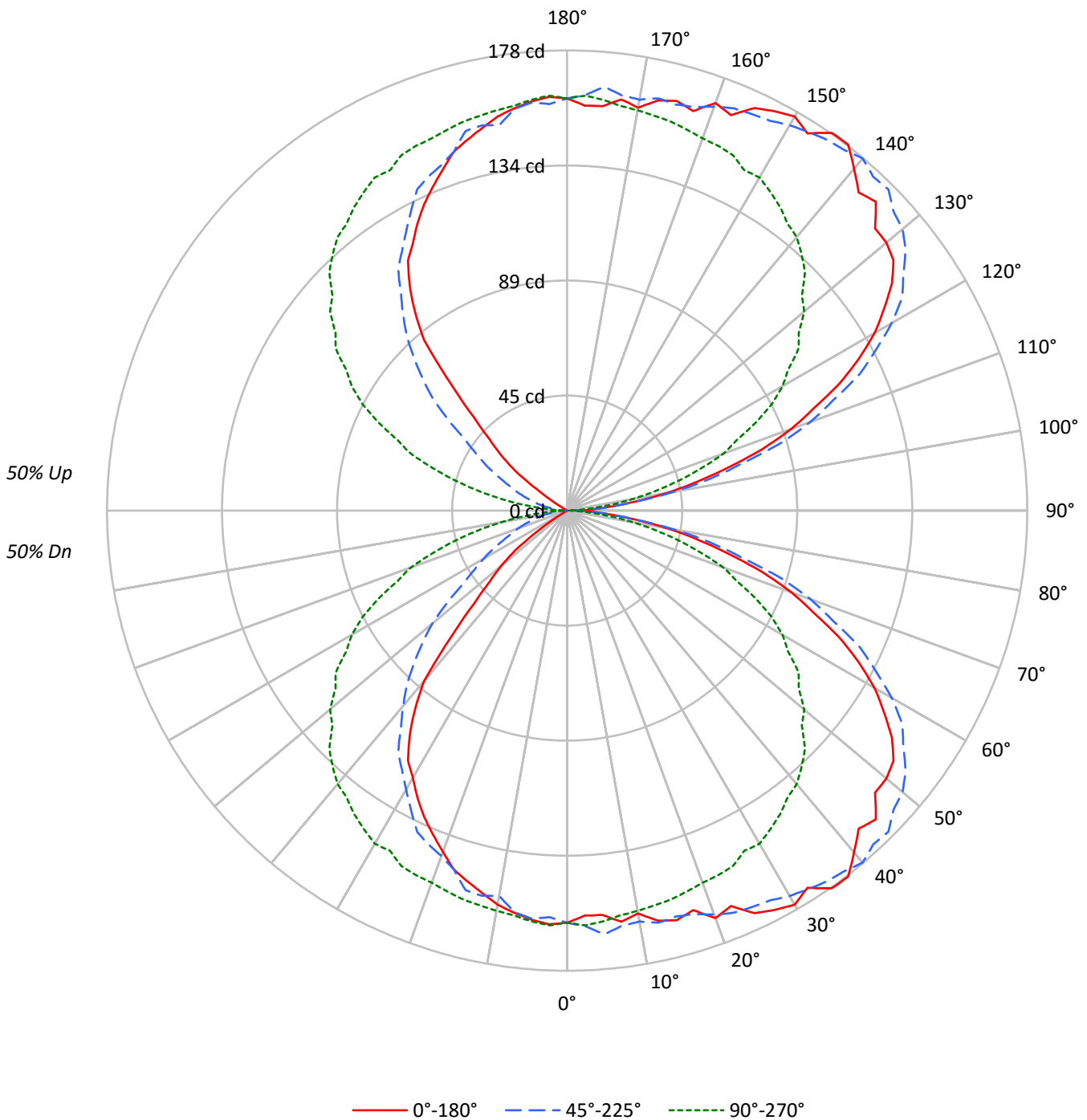
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	21962	21962	21962
5°	21714	22060	21963
10°	22133	21993	21657
15°	23393	22209	21196
20°	24588	22462	20600
25°	26117	23062	19884
30°	28000	23673	18980
35°	30006	24136	17862
40°	31061	24838	15468
45°	32910	25350	9957
50°	34552	25657	7159
55°	36848	26255	3435
60°	37834	26509	110
65°	37883	26211	33
70°	37142	25943	40
75°	34495	23742	53
80°	30944	20471	79
85°	24977	13911	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.2	1.4
10°-20°	44.3	4.2
20°-30°	70.2	6.6
30°-40°	90.0	8.5
40°-50°	96.6	9.1
50°-60°	89.5	8.4
60°-70°	71.4	6.7
70°-80°	42.5	4.0
80°-90°	11.2	1.1
90°-100°	11.2	1.1
100°-110°	42.5	4.0
110°-120°	71.4	6.7
120°-130°	89.5	8.4
130°-140°	96.6	9.1
140°-150°	90.0	8.5
150°-160°	70.2	6.6
160°-170°	44.3	4.2
170°-180°	15.2	1.4
0°-30°	129.7	12.2
0°-40°	219.7	20.7
0°-60°	405.8	38.2
0°-90°	530.9	50.0
90°-120°	125.1	11.8
90°-150°	401.2	37.8
90°-180°	531.0	50.0
0°-180°	1061.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	159	159	159	159	159	
5°	157	164	160	158	159	15
15°	164	163	156	152	149	46
25°	172	169	152	137	131	79
35°	178	175	144	114	106	111
45°	169	176	130	84	51	128
55°	153	159	109	49	14	136
65°	116	125	80	27	0	114
75°	65	70	45	14	0	69
85°	16	16	9	3	0	18
90°	6	3	0	0	0	4
95°	16	16	9	3	0	18
105°	65	70	45	14	0	69
115°	116	125	80	27	0	114
125°	153	159	109	49	14	136
135°	169	176	130	84	51	128
145°	178	175	144	114	106	111
155°	172	169	152	137	131	79
165°	164	163	156	152	149	46
175°	157	164	160	158	159	15
180°	159	159	159	159	159	



TEST NUMBER: P394998

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T4-DIM10-CS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	156.8	159.9	159.8	158.5	157.5	160.9	157.3	160.7	159.8	159.6	160.6
5°	157.0	162.5	160.6	161.8	159.4	164.5	159.8	161.4	156.1	160.6	159.5
7.5°	160.4	162.8	161.2	162.8	158.2	162.0	160.1	161.5	161.9	159.4	157.9
10°	158.2	163.7	162.1	161.2	160.7	161.4	158.7	161.1	161.7	159.0	157.2
12.5°	162.5	165.0	162.9	164.2	159.3	163.3	161.1	161.3	159.6	158.4	156.4
15°	164.0	164.6	164.8	166.0	162.0	162.6	161.7	161.4	159.7	157.6	155.7
17.5°	162.0	167.9	165.8	165.6	164.3	163.6	162.6	161.7	161.3	157.8	154.4
20°	167.7	169.6	168.2	167.3	165.0	166.3	163.6	162.7	157.9	156.0	153.2
22.5°	165.6	169.8	169.7	170.3	168.0	168.4	163.6	163.4	158.9	154.9	152.7
25°	171.8	173.8	171.6	171.2	168.0	169.2	164.1	163.2	158.1	153.7	151.7
27.5°	174.1	175.9	174.9	175.5	172.5	170.0	167.5	166.1	158.4	153.0	148.4
30°	176.0	179.1	178.4	177.0	173.4	172.1	169.3	166.7	161.4	152.0	148.8
32.5°	173.0	178.9	176.0	177.2	176.8	173.6	169.7	166.2	161.5	152.9	146.2
35°	178.4	177.4	177.8	179.7	176.9	175.1	172.7	168.2	161.4	151.4	143.5
37.5°	178.5	179.5	177.0	180.1	177.4	175.9	171.3	166.3	160.4	147.0	140.0
40°	172.7	175.9	176.7	179.5	178.7	177.8	173.3	167.0	158.6	144.6	138.1
42.5°	166.9	174.3	172.2	177.0	178.4	175.2	172.6	163.4	156.1	141.3	134.3
45°	168.9	173.6	173.2	176.4	174.9	175.7	170.8	162.8	150.8	139.0	130.1
47.5°	161.5	170.1	168.0	173.4	172.9	171.2	168.2	159.0	148.2	132.3	123.1
50°	161.2	164.1	165.2	168.0	170.6	169.4	162.5	158.5	143.1	126.1	119.7
52.5°	159.1	157.6	159.8	162.7	164.7	165.0	157.6	148.1	138.0	123.3	112.9
55°	153.4	152.0	154.0	156.8	161.6	158.7	155.2	143.6	130.9	115.3	109.3
57.5°	145.4	143.6	144.8	150.0	154.6	153.7	148.8	137.7	128.8	111.0	101.3
60°	137.3	135.9	135.2	141.1	143.7	145.0	139.9	128.5	118.1	102.9	96.2
62.5°	127.2	128.7	129.5	132.2	134.6	134.6	132.0	119.8	109.0	95.3	89.2
65°	116.2	114.8	116.1	122.5	125.6	124.8	123.1	110.4	99.9	87.1	80.4
67.5°	103.1	103.1	106.7	108.9	114.1	111.3	109.5	100.4	88.5	78.1	70.8
70°	92.2	91.6	92.0	96.2	98.5	100.1	96.8	86.9	78.2	68.7	64.4
72.5°	79.1	78.2	78.7	83.0	84.7	86.5	82.1	74.3	67.8	58.8	54.2
75°	64.8	64.9	66.0	67.4	71.1	69.5	68.2	61.6	54.6	47.6	44.6
77.5°	51.5	51.6	52.6	54.6	56.3	56.4	54.9	48.6	42.5	37.3	35.0
80°	39.0	38.5	38.8	40.2	42.1	41.7	40.0	35.9	31.9	27.0	25.8
82.5°	26.2	26.4	26.5	27.7	27.5	27.1	26.7	24.1	21.5	17.7	16.8
85°	15.8	16.0	16.4	16.1	16.3	16.4	14.9	13.2	11.1	9.9	8.8
87.5°	8.9	8.5	8.5	7.8	7.5	6.9	5.9	5.0	4.2	3.2	2.9
90°	6.2	6.2	5.8	5.0	4.0	3.2	2.2	1.4	0.8	0.4	0.4
92.5°	8.9	8.5	8.5	7.8	7.5	6.9	5.9	5.0	4.2	3.2	2.9
95°	15.8	16.0	16.4	16.1	16.3	16.4	14.9	13.2	11.1	9.9	8.8
97.5°	26.2	26.4	26.5	27.7	27.5	27.1	26.7	24.1	21.5	17.7	16.8
100°	39.0	38.5	38.8	40.2	42.1	41.7	40.0	35.9	31.9	27.0	25.8
102.5°	51.5	51.6	52.6	54.6	56.3	56.4	54.9	48.6	42.5	37.3	35.0
105°	64.8	64.9	66.0	67.4	71.1	69.5	68.2	61.6	54.6	47.6	44.6
107.5°	79.1	78.2	78.7	83.0	84.7	86.5	82.1	74.3	67.8	58.8	54.2
110°	92.2	91.6	92.0	96.2	98.5	100.1	96.8	86.9	78.2	68.7	64.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	103.1	103.1	106.7	108.9	114.1	111.3	109.5	100.4	88.5	78.1	70.8
115°	116.2	114.8	116.1	122.5	125.6	124.8	123.1	110.4	99.9	87.1	80.4
117.5°	127.2	128.7	129.5	132.2	134.6	134.6	132.0	119.8	109.0	95.3	89.2
120°	137.3	135.9	135.2	141.1	143.7	145.0	139.9	128.5	118.1	102.9	96.2
122.5°	145.4	143.6	144.8	150.0	154.6	153.7	148.8	137.7	128.8	111.0	101.3
125°	153.4	152.0	154.0	156.8	161.6	158.7	155.2	143.6	130.9	115.3	109.3
127.5°	159.1	157.6	159.8	162.7	164.7	165.0	157.6	148.1	138.0	123.3	112.9
130°	161.2	164.1	165.2	168.0	170.6	169.4	162.5	158.5	143.1	126.1	119.7
132.5°	161.5	170.1	168.0	173.4	172.9	171.2	168.2	159.0	148.2	132.3	123.1
135°	168.9	173.6	173.2	176.4	174.9	175.7	170.8	162.8	150.8	139.0	130.1
137.5°	166.9	174.3	172.2	177.0	178.4	175.2	172.6	163.4	156.1	141.3	134.3
140°	172.7	175.9	176.7	179.5	178.7	177.8	173.3	167.0	158.6	144.6	138.1
142.5°	178.5	179.5	177.0	180.1	177.4	175.9	171.3	166.3	160.4	147.0	140.0
145°	178.4	177.4	177.8	179.7	176.9	175.1	172.7	168.2	161.4	151.4	143.5
147.5°	173.0	178.9	176.0	177.2	176.8	173.6	169.7	166.2	161.5	152.9	146.2
150°	176.0	179.1	178.4	177.0	173.4	172.1	169.3	166.7	161.4	152.0	148.8
152.5°	174.1	175.9	174.9	175.5	172.5	170.0	167.5	166.1	158.4	153.0	148.4
155°	171.8	173.8	171.6	171.2	168.0	169.2	164.1	163.2	158.1	153.7	151.7
157.5°	165.6	169.8	169.7	170.3	168.0	168.4	163.6	163.4	158.9	154.9	152.7
160°	167.7	169.6	168.2	167.3	165.0	166.3	163.6	162.7	157.9	156.0	153.2
162.5°	162.0	167.9	165.8	165.6	164.3	163.6	162.6	161.7	161.3	157.8	154.4
165°	164.0	164.6	164.8	166.0	162.0	162.6	161.7	161.4	159.7	157.6	155.7
167.5°	162.5	165.0	162.9	164.2	159.3	163.3	161.1	161.3	159.6	158.4	156.4
170°	158.2	163.7	162.1	161.2	160.7	161.4	158.7	161.1	161.7	159.0	157.2
172.5°	160.4	162.8	161.2	162.8	158.2	162.0	160.1	161.5	161.9	159.4	157.9
175°	157.0	162.5	160.6	161.8	159.4	164.5	159.8	161.4	156.1	160.6	159.5
177.5°	156.8	159.9	159.8	158.5	157.5	160.9	157.3	160.7	159.8	159.6	160.6
180°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	159.7	161.6	160.3	158.8	157.4	158.9	159.1	157.6	158.1	160.2
5°	160.7	158.0	159.6	159.7	158.4	159.2	154.3	157.7	156.8	158.8
7.5°	158.7	160.1	158.3	158.2	156.6	157.5	156.5	155.6	157.8	156.9
10°	158.2	157.1	158.3	156.7	151.3	153.8	152.5	153.4	152.6	154.8
12.5°	156.7	154.9	155.3	154.6	152.6	151.4	152.1	152.6	153.8	151.6
15°	155.7	154.4	153.2	153.4	152.0	149.1	145.7	147.5	146.6	148.6
17.5°	154.3	152.1	151.7	148.4	145.6	147.4	146.0	144.3	143.1	145.6
20°	153.5	151.6	149.1	144.6	142.2	141.8	142.0	141.7	140.7	140.5
22.5°	151.0	147.5	145.6	141.1	139.9	137.6	134.3	136.8	134.2	135.6
25°	149.2	145.0	142.7	138.7	137.2	132.9	132.1	128.8	129.9	130.8
27.5°	148.3	143.7	138.0	132.7	130.7	127.6	127.6	124.4	124.9	125.3
30°	145.5	139.0	135.8	129.6	124.6	122.1	120.3	119.0	119.5	119.3
32.5°	143.0	135.2	129.1	121.7	118.9	116.0	115.5	111.3	114.3	114.6
35°	140.1	131.2	124.0	115.8	113.9	109.5	108.6	106.0	105.5	106.2
37.5°	137.9	126.5	119.0	110.0	105.6	103.4	101.4	97.1	95.8	96.6
40°	132.5	121.3	112.7	104.7	98.6	93.0	93.2	88.3	86.4	86.0
42.5°	130.9	116.0	106.5	97.5	91.9	86.7	82.4	77.0	69.0	66.5
45°	123.3	111.0	98.6	89.5	83.8	77.5	68.5	53.3	51.2	51.1
47.5°	118.1	105.0	92.0	83.4	76.0	67.5	53.6	44.1	41.3	40.7
50°	113.3	97.9	85.7	76.2	68.2	51.7	44.2	35.2	31.6	33.4
52.5°	107.1	92.4	79.9	69.1	58.3	43.7	37.1	28.6	25.1	25.2
55°	101.7	87.4	75.2	62.9	48.7	37.7	30.1	20.7	15.1	14.3
57.5°	95.8	81.5	70.1	56.5	42.5	31.6	22.0	9.9	5.9	6.0
60°	88.8	75.8	63.4	48.0	37.5	25.6	14.3	4.4	0.4	0.4
62.5°	82.9	69.5	57.6	43.0	32.4	18.1	9.5	0.5	0.1	0.1
65°	75.9	63.1	52.0	38.4	27.2	15.2	7.4	0.8	0.1	0.1
67.5°	67.3	56.5	46.2	33.9	23.4	12.9	7.0	1.2	0.1	0.1
70°	58.7	49.6	40.5	29.5	20.1	11.6	6.2	1.3	0.1	0.1
72.5°	50.4	42.0	34.0	25.0	16.8	9.8	5.4	1.2	0.1	0.1
75°	40.9	34.6	28.1	20.7	13.9	8.1	4.4	1.0	0.1	0.1
77.5°	31.7	26.9	22.9	16.3	11.1	6.4	3.5	0.8	0.1	0.1
80°	24.2	19.9	16.3	11.9	8.2	4.6	2.6	0.6	0.1	0.1
82.5°	15.2	13.2	10.9	7.9	5.3	3.1	1.7	0.3	0.0	0.0
85°	8.5	7.2	6.2	4.5	3.2	1.7	0.9	0.2	0.0	0.0
87.5°	3.0	2.6	2.2	1.7	1.2	0.6	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°	3.0	2.6	2.2	1.7	1.2	0.6	0.3	0.0	0.0	0.0
95°	8.5	7.2	6.2	4.5	3.2	1.7	0.9	0.2	0.0	0.0
97.5°	15.2	13.2	10.9	7.9	5.3	3.1	1.7	0.3	0.0	0.0
100°	24.2	19.9	16.3	11.9	8.2	4.6	2.6	0.6	0.1	0.1
102.5°	31.7	26.9	22.9	16.3	11.1	6.4	3.5	0.8	0.1	0.1
105°	40.9	34.6	28.1	20.7	13.9	8.1	4.4	1.0	0.1	0.1
107.5°	50.4	42.0	34.0	25.0	16.8	9.8	5.4	1.2	0.1	0.1
110°	58.7	49.6	40.5	29.5	20.1	11.6	6.2	1.3	0.1	0.1





TEST NUMBER: P394998

CATALOG NUMBER: 303-W2-LEDB2-3500-UNV-T4-DIM10-CS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	67.3	56.5	46.2	33.9	23.4	12.9	7.0	1.2	0.1	0.1
115°	75.9	63.1	52.0	38.4	27.2	15.2	7.4	0.8	0.1	0.1
117.5°	82.9	69.5	57.6	43.0	32.4	18.1	9.5	0.5	0.1	0.1
120°	88.8	75.8	63.4	48.0	37.5	25.6	14.3	4.4	0.4	0.4
122.5°	95.8	81.5	70.1	56.5	42.5	31.6	22.0	9.9	5.9	6.0
125°	101.7	87.4	75.2	62.9	48.7	37.7	30.1	20.7	15.1	14.3
127.5°	107.1	92.4	79.9	69.1	58.3	43.7	37.1	28.6	25.1	25.2
130°	113.3	97.9	85.7	76.2	68.2	51.7	44.2	35.2	31.6	33.4
132.5°	118.1	105.0	92.0	83.4	76.0	67.5	53.6	44.1	41.3	40.7
135°	123.3	111.0	98.6	89.5	83.8	77.5	68.5	53.3	51.2	51.1
137.5°	130.9	116.0	106.5	97.5	91.9	86.7	82.4	77.0	69.0	66.5
140°	132.5	121.3	112.7	104.7	98.6	93.0	93.2	88.3	86.4	86.0
142.5°	137.9	126.5	119.0	110.0	105.6	103.4	101.4	97.1	95.8	96.6
145°	140.1	131.2	124.0	115.8	113.9	109.5	108.6	106.0	105.5	106.2
147.5°	143.0	135.2	129.1	121.7	118.9	116.0	115.5	111.3	114.3	114.6
150°	145.5	139.0	135.8	129.6	124.6	122.1	120.3	119.0	119.5	119.3
152.5°	148.3	143.7	138.0	132.7	130.7	127.6	127.6	124.4	124.9	125.3
155°	149.2	145.0	142.7	138.7	137.2	132.9	132.1	128.8	129.9	130.8
157.5°	151.0	147.5	145.6	141.1	139.9	137.6	134.3	136.8	134.2	135.6
160°	153.5	151.6	149.1	144.6	142.2	141.8	142.0	141.7	140.7	140.5
162.5°	154.3	152.1	151.7	148.4	145.6	147.4	146.0	144.3	143.1	145.6
165°	155.7	154.4	153.2	153.4	152.0	149.1	145.7	147.5	146.6	148.6
167.5°	156.7	154.9	155.3	154.6	152.6	151.4	152.1	152.6	153.8	151.6
170°	158.2	157.1	158.3	156.7	151.3	153.8	152.5	153.4	152.6	154.8
172.5°	158.7	160.1	158.3	158.2	156.6	157.5	156.5	155.6	157.8	156.9
175°	160.7	158.0	159.6	159.7	158.4	159.2	154.3	157.7	156.8	158.8
177.5°	159.7	161.6	160.3	158.8	157.4	158.9	159.1	157.6	158.1	160.2
180°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4

(END OF REPORT)