

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: P395009

Luminaire Tested: **303-W2-LEDB2-4000-UNV-T5X-DIM10-CS**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P395009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-W2-LEDB2-4000-UNV-T5X-DIM10-CS
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 5
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1268.8 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.24
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: General Diffuse

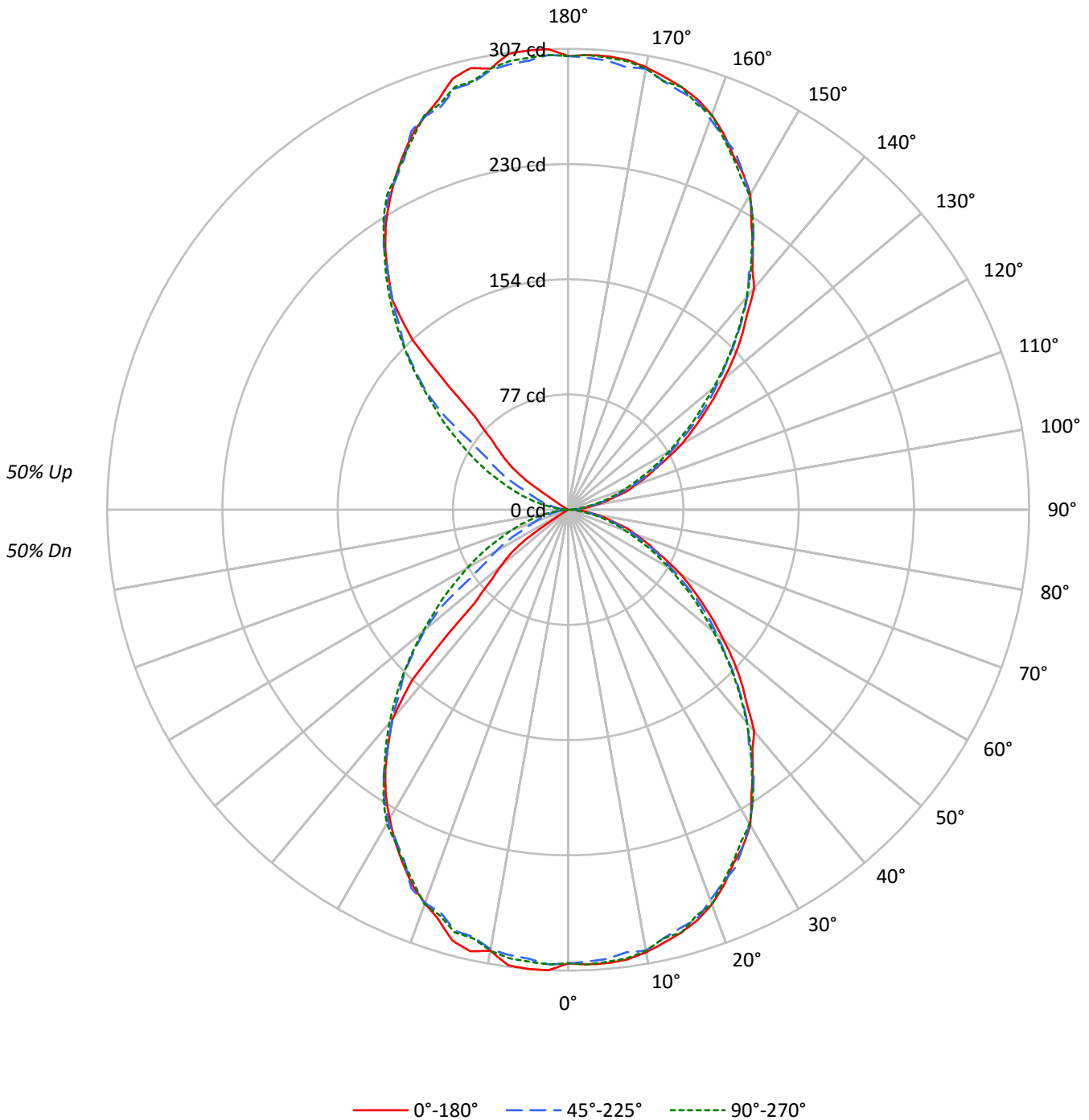
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	94	91	88	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	74	67	61	76	69	63	58	59	54	50	49	46	43	41	39	37	33
4	76	66	58	53	70	61	55	50	53	48	44	45	41	38	37	34	32	29
5	70	59	51	45	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	40	60	50	43	38	43	38	34	37	33	29	31	28	25	23
7	60	48	41	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	30	36	30	27	31	27	24	26	23	21	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41637	41637	41637
5°	41934	41796	42473
10°	41873	41733	41733
15°	41579	41579	42406
20°	41010	41010	40878
25°	39556	39404	39556
30°	38596	38437	37816
35°	36028	35859	35691
40°	34658	33256	32716
45°	31819	30299	17147
50°	28937	27050	12582
55°	26303	24189	8215
60°	24001	21301	551
65°	20734	18811	0
70°	18893	16154	0
75°	16662	14054	0
80°	15551	10870	0
85°	15492	7746	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	2.3
10°-20°	81.8	6.4
20°-30°	119.9	9.4
30°-40°	133.0	10.5
40°-50°	115.1	9.1
50°-60°	79.6	6.3
60°-70°	46.7	3.7
70°-80°	23.2	1.8
80°-90°	6.4	0.5
90°-100°	6.4	0.5
100°-110°	23.2	1.8
110°-120°	46.7	3.7
120°-130°	79.6	6.3
130°-140°	115.1	9.1
140°-150°	133.0	10.5
150°-160°	119.9	9.4
160°-170°	81.8	6.4
170°-180°	28.7	2.3
0°-30°	230.3	18.2
0°-40°	363.3	28.6
0°-60°	558.1	44.0
0°-90°	634.4	50.0
90°-120°	76.3	6.0
90°-150°	404.0	31.8
90°-180°	634.0	50.0
0°-180°	1268.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	302	302	302	302	302	
5°	303	300	302	300	307	29
15°	292	288	292	290	297	82
25°	260	263	259	258	260	120
35°	214	215	213	214	212	134
45°	163	156	156	154	88	126
55°	110	105	101	79	34	98
65°	64	63	58	36	0	64
75°	31	29	26	15	0	35
85°	10	9	5	3	0	10
90°	6	4	0	0	0	3
95°	10	9	5	3	0	10
105°	31	29	26	15	0	35
115°	64	63	58	36	0	64
125°	110	105	101	79	34	98
135°	163	156	156	154	88	126
145°	214	215	213	214	212	134
155°	260	263	259	258	260	120
165°	292	288	292	290	297	82
175°	303	300	302	300	307	29
180°	302	302	302	302	302	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2
2.5°	303.2	297.3	297.3	301.3	305.2	301.3	306.1	301.3	303.2	300.3	303.2
5°	303.2	299.3	298.3	296.4	301.3	300.3	307.1	301.3	301.3	302.2	302.2
7.5°	302.2	298.3	297.3	296.4	295.4	297.3	309.1	303.2	300.3	301.3	301.3
10°	299.3	295.4	294.4	286.6	297.3	298.3	299.3	296.4	297.3	295.4	298.3
12.5°	295.4	292.5	288.5	293.4	291.5	292.5	294.4	305.2	294.4	292.5	292.5
15°	291.5	284.6	285.6	289.5	287.6	288.5	289.5	289.5	290.5	290.5	291.5
17.5°	286.6	282.7	280.7	280.7	284.6	285.6	284.6	291.5	284.6	285.6	283.6
20°	279.7	271.9	274.8	276.8	281.7	276.8	280.7	277.8	278.8	272.9	279.7
22.5°	270.9	262.1	263.1	264.1	268.0	269.0	272.9	269.0	270.9	265.1	269.0
25°	260.2	258.2	258.2	260.2	264.1	263.1	266.0	264.1	261.2	259.2	259.2
27.5°	252.4	248.4	248.4	243.5	251.4	252.4	253.3	253.3	246.5	249.4	249.4
30°	242.6	234.7	236.7	239.6	239.6	241.6	239.6	241.6	239.6	239.6	241.6
32.5°	226.9	223.0	223.0	225.0	226.9	228.9	230.8	227.9	226.9	227.9	228.9
35°	214.2	213.2	212.2	214.2	218.1	215.2	213.2	220.1	208.3	212.2	213.2
37.5°	201.5	200.5	199.5	197.6	199.5	197.6	199.5	198.6	196.6	199.5	199.5
40°	192.7	186.8	183.9	183.9	185.8	185.8	183.9	184.9	180.9	182.9	184.9
42.5°	176.1	177.0	174.1	173.1	171.2	171.2	170.2	170.2	170.2	167.3	170.2
45°	163.3	160.4	160.4	159.4	157.5	156.5	155.5	152.6	155.5	154.5	155.5
47.5°	149.6	148.7	145.7	144.8	144.8	141.8	139.9	139.9	138.9	138.9	140.8
50°	135.0	134.0	133.0	132.0	132.0	129.1	126.2	125.2	123.2	125.2	126.2
52.5°	122.3	121.3	118.4	119.3	119.3	117.4	112.5	111.5	113.5	112.5	112.5
55°	109.5	110.5	107.6	106.6	105.6	104.7	101.7	99.8	99.8	99.8	100.7
57.5°	97.8	97.8	95.9	94.9	92.9	91.9	91.0	88.0	88.0	87.1	88.0
60°	87.1	86.1	84.1	84.1	83.1	80.2	79.2	77.3	77.3	76.3	77.3
62.5°	74.3	72.4	74.3	72.4	72.4	71.4	70.4	68.5	65.5	65.5	67.5
65°	63.6	64.6	63.6	62.6	62.6	62.6	60.6	58.7	55.8	56.7	57.7
67.5°	55.8	55.8	54.8	53.8	54.8	52.8	50.9	49.9	47.9	47.9	47.9
70°	46.9	46.9	46.9	46.0	45.0	45.0	43.0	42.1	40.1	40.1	40.1
72.5°	41.1	39.1	38.1	37.2	37.2	36.2	35.2	34.2	32.3	33.3	33.3
75°	31.3	31.3	31.3	30.3	30.3	29.3	28.4	27.4	26.4	25.4	26.4
77.5°	25.4	25.4	25.4	24.5	24.5	22.5	21.5	21.5	19.6	19.6	19.6
80°	19.6	19.6	19.6	18.6	18.6	16.6	15.6	14.7	15.6	14.7	13.7
82.5°	13.7	13.7	13.7	12.7	12.7	12.7	10.8	10.8	8.8	8.8	8.8
85°	9.8	9.8	9.8	8.8	8.8	8.8	6.8	5.9	4.9	4.9	4.9
87.5°	6.8	6.8	6.8	6.8	5.9	4.9	3.9	2.9	2.9	2.0	2.0
90°	5.9	5.9	5.9	5.9	3.9	3.9	3.9	2.0	2.0	0.0	0.0
92.5°	6.8	6.8	6.8	6.8	5.9	4.9	3.9	2.9	2.9	2.0	2.0
95°	9.8	9.8	9.8	8.8	8.8	8.8	6.8	5.9	4.9	4.9	4.9
97.5°	13.7	13.7	13.7	12.7	12.7	12.7	10.8	10.8	8.8	8.8	8.8
100°	19.6	19.6	19.6	18.6	18.6	16.6	15.6	14.7	15.6	14.7	13.7
102.5°	25.4	25.4	25.4	24.5	24.5	22.5	21.5	21.5	19.6	19.6	19.6
105°	31.3	31.3	31.3	30.3	30.3	29.3	28.4	27.4	26.4	25.4	26.4
107.5°	41.1	39.1	38.1	37.2	37.2	36.2	35.2	34.2	32.3	33.3	33.3
110°	46.9	46.9	46.9	46.0	45.0	45.0	43.0	42.1	40.1	40.1	40.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	55.8	55.8	54.8	53.8	54.8	52.8	50.9	49.9	47.9	47.9	47.9
115°	63.6	64.6	63.6	62.6	62.6	62.6	60.6	58.7	55.8	56.7	57.7
117.5°	74.3	72.4	74.3	72.4	72.4	71.4	70.4	68.5	65.5	65.5	67.5
120°	87.1	86.1	84.1	84.1	83.1	80.2	79.2	77.3	77.3	76.3	77.3
122.5°	97.8	97.8	95.9	94.9	92.9	91.9	91.0	88.0	88.0	87.1	88.0
125°	109.5	110.5	107.6	106.6	105.6	104.7	101.7	99.8	99.8	99.8	100.7
127.5°	122.3	121.3	118.4	119.3	119.3	117.4	112.5	111.5	113.5	112.5	112.5
130°	135.0	134.0	133.0	132.0	132.0	129.1	126.2	125.2	123.2	125.2	126.2
132.5°	149.6	148.7	145.7	144.8	144.8	141.8	139.9	139.9	138.9	138.9	140.8
135°	163.3	160.4	160.4	159.4	157.5	156.5	155.5	152.6	155.5	154.5	155.5
137.5°	176.1	177.0	174.1	173.1	171.2	171.2	170.2	170.2	170.2	167.3	170.2
140°	192.7	186.8	183.9	183.9	185.8	185.8	183.9	184.9	180.9	182.9	184.9
142.5°	201.5	200.5	199.5	197.6	199.5	197.6	199.5	198.6	196.6	199.5	199.5
145°	214.2	213.2	212.2	214.2	218.1	215.2	213.2	220.1	208.3	212.2	213.2
147.5°	226.9	223.0	223.0	225.0	226.9	228.9	230.8	227.9	226.9	227.9	228.9
150°	242.6	234.7	236.7	239.6	239.6	241.6	239.6	241.6	239.6	239.6	241.6
152.5°	252.4	248.4	248.4	243.5	251.4	252.4	253.3	253.3	246.5	249.4	249.4
155°	260.2	258.2	258.2	260.2	264.1	263.1	266.0	264.1	261.2	259.2	259.2
157.5°	270.9	262.1	263.1	264.1	268.0	269.0	272.9	269.0	270.9	265.1	269.0
160°	279.7	271.9	274.8	276.8	281.7	276.8	280.7	277.8	278.8	272.9	279.7
162.5°	286.6	282.7	280.7	280.7	284.6	285.6	284.6	291.5	284.6	285.6	283.6
165°	291.5	284.6	285.6	289.5	287.6	288.5	289.5	289.5	290.5	290.5	291.5
167.5°	295.4	292.5	288.5	293.4	291.5	292.5	294.4	305.2	294.4	292.5	292.5
170°	299.3	295.4	294.4	286.6	297.3	298.3	299.3	296.4	297.3	295.4	298.3
172.5°	302.2	298.3	297.3	296.4	295.4	297.3	309.1	303.2	300.3	301.3	301.3
175°	303.2	299.3	298.3	296.4	301.3	300.3	307.1	301.3	301.3	302.2	302.2
177.5°	303.2	297.3	297.3	301.3	305.2	301.3	306.1	301.3	303.2	300.3	303.2
180°	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2
2.5°	301.3	301.3	301.3	303.2	303.2	294.4	304.2	304.2	300.3	307.1
5°	303.2	300.3	303.2	299.3	300.3	298.3	301.3	301.3	298.3	307.1
7.5°	301.3	302.2	299.3	302.2	299.3	298.3	307.1	301.3	301.3	306.1
10°	299.3	299.3	297.3	296.4	297.3	299.3	304.2	299.3	296.4	298.3
12.5°	295.4	296.4	298.3	294.4	291.5	296.4	298.3	296.4	290.5	301.3
15°	295.4	292.5	292.5	289.5	290.5	292.5	294.4	292.5	290.5	297.3
17.5°	286.6	285.6	285.6	283.6	281.7	287.6	292.5	286.6	286.6	286.6
20°	279.7	280.7	281.7	277.8	278.8	276.8	280.7	279.7	280.7	278.8
22.5°	273.9	271.9	271.9	271.9	272.9	272.9	272.9	271.9	262.1	270.9
25°	261.2	263.1	264.1	260.2	258.2	263.1	264.1	258.2	262.1	260.2
27.5°	250.4	250.4	253.3	250.4	248.4	246.5	256.3	252.4	246.5	249.4
30°	238.7	239.6	242.6	238.7	239.6	241.6	242.6	239.6	240.6	237.7
32.5°	228.9	225.9	230.8	226.9	227.9	227.9	228.9	225.9	223.0	225.9
35°	212.2	215.2	215.2	211.3	214.2	212.2	214.2	212.2	213.2	212.2
37.5°	200.5	196.6	201.5	198.6	196.6	197.6	200.5	195.6	198.6	196.6
40°	182.9	183.9	186.8	182.9	181.9	180.0	183.9	183.9	179.0	181.9
42.5°	173.1	168.2	172.1	169.2	166.3	170.2	169.2	162.4	148.7	153.6
45°	155.5	153.6	156.5	150.6	154.5	151.6	145.7	107.6	91.0	88.0
47.5°	138.9	136.9	141.8	137.9	138.9	135.0	98.8	72.4	69.4	69.4
50°	128.1	125.2	128.1	123.2	124.2	94.9	77.3	60.6	58.7	58.7
52.5°	113.5	113.5	115.4	110.5	106.6	70.4	65.5	51.8	50.9	48.9
55°	100.7	100.7	101.7	99.8	79.2	60.6	55.8	41.1	35.2	34.2
57.5°	87.1	88.0	89.0	86.1	64.6	51.8	43.0	11.7	5.9	4.9
60°	76.3	76.3	77.3	69.4	55.8	42.1	21.5	3.9	2.0	2.0
62.5°	67.5	66.5	67.5	56.7	46.9	24.5	16.6	2.0	0.0	0.0
65°	56.7	56.7	57.7	46.9	36.2	18.6	12.7	1.0	0.0	0.0
67.5°	47.9	47.9	48.9	40.1	28.4	15.6	10.8	1.0	0.0	0.0
70°	40.1	40.1	40.1	33.3	23.5	12.7	8.8	1.0	0.0	0.0
72.5°	32.3	32.3	32.3	27.4	19.6	10.8	6.8	0.0	0.0	0.0
75°	26.4	26.4	25.4	21.5	14.7	8.8	5.9	0.0	0.0	0.0
77.5°	19.6	19.6	20.5	16.6	11.7	5.9	3.9	0.0	0.0	0.0
80°	13.7	13.7	13.7	11.7	8.8	4.9	2.9	0.0	0.0	0.0
82.5°	8.8	8.8	9.8	7.8	5.9	2.9	2.0	0.0	0.0	0.0
85°	4.9	4.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
95°	4.9	4.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0	0.0
97.5°	8.8	8.8	9.8	7.8	5.9	2.9	2.0	0.0	0.0	0.0
100°	13.7	13.7	13.7	11.7	8.8	4.9	2.9	0.0	0.0	0.0
102.5°	19.6	19.6	20.5	16.6	11.7	5.9	3.9	0.0	0.0	0.0
105°	26.4	26.4	25.4	21.5	14.7	8.8	5.9	0.0	0.0	0.0
107.5°	32.3	32.3	32.3	27.4	19.6	10.8	6.8	0.0	0.0	0.0
110°	40.1	40.1	40.1	33.3	23.5	12.7	8.8	1.0	0.0	0.0



TEST NUMBER: P395009

CATALOG NUMBER: 303-W2-LEDB2-4000-UNV-T5X-DIM10-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	47.9	47.9	48.9	40.1	28.4	15.6	10.8	1.0	0.0	0.0
115°	56.7	56.7	57.7	46.9	36.2	18.6	12.7	1.0	0.0	0.0
117.5°	67.5	66.5	67.5	56.7	46.9	24.5	16.6	2.0	0.0	0.0
120°	76.3	76.3	77.3	69.4	55.8	42.1	21.5	3.9	2.0	2.0
122.5°	87.1	88.0	89.0	86.1	64.6	51.8	43.0	11.7	5.9	4.9
125°	100.7	100.7	101.7	99.8	79.2	60.6	55.8	41.1	35.2	34.2
127.5°	113.5	113.5	115.4	110.5	106.6	70.4	65.5	51.8	50.9	48.9
130°	128.1	125.2	128.1	123.2	124.2	94.9	77.3	60.6	58.7	58.7
132.5°	138.9	136.9	141.8	137.9	138.9	135.0	98.8	72.4	69.4	69.4
135°	155.5	153.6	156.5	150.6	154.5	151.6	145.7	107.6	91.0	88.0
137.5°	173.1	168.2	172.1	169.2	166.3	170.2	169.2	162.4	148.7	153.6
140°	182.9	183.9	186.8	182.9	181.9	180.0	183.9	183.9	179.0	181.9
142.5°	200.5	196.6	201.5	198.6	196.6	197.6	200.5	195.6	198.6	196.6
145°	212.2	215.2	215.2	211.3	214.2	212.2	214.2	212.2	213.2	212.2
147.5°	228.9	225.9	230.8	226.9	227.9	227.9	228.9	225.9	223.0	225.9
150°	238.7	239.6	242.6	238.7	239.6	241.6	242.6	239.6	240.6	237.7
152.5°	250.4	250.4	253.3	250.4	248.4	246.5	256.3	252.4	246.5	249.4
155°	261.2	263.1	264.1	260.2	258.2	263.1	264.1	258.2	262.1	260.2
157.5°	273.9	271.9	271.9	271.9	272.9	272.9	272.9	271.9	262.1	270.9
160°	279.7	280.7	281.7	277.8	278.8	276.8	280.7	279.7	280.7	278.8
162.5°	286.6	285.6	285.6	283.6	281.7	287.6	292.5	286.6	286.6	286.6
165°	295.4	292.5	292.5	289.5	290.5	292.5	294.4	292.5	290.5	297.3
167.5°	295.4	296.4	298.3	294.4	291.5	296.4	298.3	296.4	290.5	301.3
170°	299.3	299.3	297.3	296.4	297.3	299.3	304.2	299.3	296.4	298.3
172.5°	301.3	302.2	299.3	302.2	299.3	298.3	307.1	301.3	301.3	306.1
175°	303.2	300.3	303.2	299.3	300.3	298.3	301.3	301.3	298.3	307.1
177.5°	301.3	301.3	301.3	303.2	303.2	294.4	304.2	304.2	300.3	307.1
180°	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2

(END OF REPORT)