

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: P395010

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

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P395010
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-TSAM-UNV-T5X-DIM10-CS
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 5
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 388.0 lumens
Efficiency: N/A
Efficacy: 32.1 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

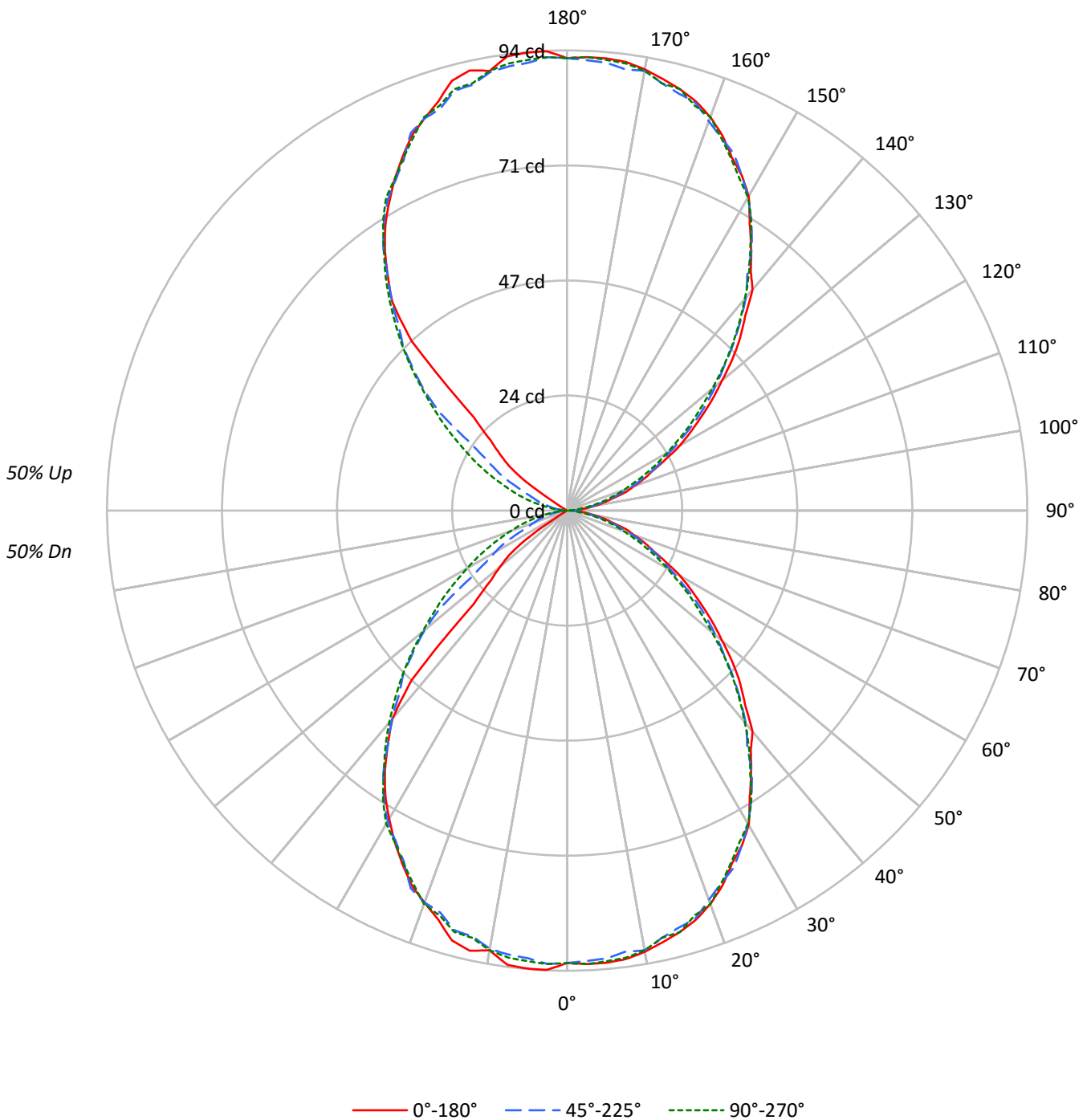
Input Watts (W): 12.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	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	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12731	12731	12731
5°	12821	12779	12987
10°	12801	12759	12759
15°	12709	12709	12966
20°	12536	12536	12492
25°	12101	12055	12101
30°	11805	11757	11566
35°	11017	10966	10916
40°	10594	10162	10000
45°	9742	9275	5241
50°	8852	8274	3837
55°	8047	7398	2522
60°	7330	6503	165
65°	6325	5738	0
70°	5801	4955	0
75°	5110	4312	0
80°	4761	3332	0
85°	4742	2371	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	2.3
10°-20°	25.0	6.4
20°-30°	36.7	9.4
30°-40°	40.7	10.5
40°-50°	35.2	9.1
50°-60°	24.3	6.3
60°-70°	14.3	3.7
70°-80°	7.1	1.8
80°-90°	2.0	0.5
90°-100°	2.0	0.5
100°-110°	7.1	1.8
110°-120°	14.3	3.7
120°-130°	24.3	6.3
130°-140°	35.2	9.1
140°-150°	40.7	10.5
150°-160°	36.7	9.4
160°-170°	25.0	6.4
170°-180°	8.8	2.3
0°-30°	70.4	18.2
0°-40°	111.1	28.6
0°-60°	170.7	44.0
0°-90°	194.0	50.0
90°-120°	23.4	6.0
90°-150°	123.6	31.8
90°-180°	194.0	50.0
0°-180°	388.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	93	92	92	92	94	9
15°	89	88	89	89	91	25
25°	80	80	79	79	80	37
35°	66	66	65	66	65	41
45°	50	48	48	47	27	38
55°	34	32	31	24	10	30
65°	19	19	18	11	0	20
75°	10	9	8	4	0	11
85°	3	3	2	1	0	3
90°	2	1	0	0	0	1
95°	3	3	2	1	0	3
105°	10	9	8	4	0	11
115°	19	19	18	11	0	20
125°	34	32	31	24	10	30
135°	50	48	48	47	27	38
145°	66	66	65	66	65	41
155°	80	80	79	79	80	37
165°	89	88	89	89	91	25
175°	93	92	92	92	94	9
180°	92	92	92	92	92	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
2.5°	92.7	90.9	90.9	92.1	93.3	92.1	93.6	92.1	92.7	91.8	92.7
5°	92.7	91.5	91.2	90.6	92.1	91.8	93.9	92.1	92.1	92.4	92.4
7.5°	92.4	91.2	90.9	90.6	90.3	90.9	94.5	92.7	91.8	92.1	92.1
10°	91.5	90.3	90.0	87.6	90.9	91.2	91.5	90.6	90.9	90.3	91.2
12.5°	90.3	89.4	88.2	89.7	89.1	89.4	90.0	93.3	90.0	89.4	89.4
15°	89.1	87.0	87.3	88.5	87.9	88.2	88.5	88.5	88.8	88.8	89.1
17.5°	87.6	86.4	85.8	85.8	87.0	87.3	87.0	89.1	87.0	87.3	86.7
20°	85.5	83.2	84.0	84.6	86.1	84.6	85.8	84.9	85.2	83.5	85.5
22.5°	82.9	80.2	80.5	80.8	82.0	82.3	83.5	82.3	82.9	81.1	82.3
25°	79.6	79.0	79.0	79.6	80.8	80.5	81.4	80.8	79.9	79.3	79.3
27.5°	77.2	76.0	76.0	74.5	76.9	77.2	77.5	77.5	75.4	76.3	76.3
30°	74.2	71.8	72.4	73.3	73.3	73.9	73.3	73.9	73.3	73.3	73.9
32.5°	69.4	68.2	68.2	68.8	69.4	70.0	70.6	69.7	69.4	69.7	70.0
35°	65.5	65.2	64.9	65.5	66.7	65.8	65.2	67.3	63.7	64.9	65.2
37.5°	61.6	61.3	61.0	60.4	61.0	60.4	61.0	60.7	60.1	61.0	61.0
40°	58.9	57.1	56.2	56.2	56.8	56.8	56.2	56.5	55.3	55.9	56.5
42.5°	53.8	54.1	53.2	52.9	52.3	52.3	52.0	52.0	52.0	51.1	52.0
45°	50.0	49.1	49.1	48.8	48.2	47.9	47.6	46.7	47.6	47.3	47.6
47.5°	45.8	45.5	44.6	44.3	44.3	43.4	42.8	42.8	42.5	42.5	43.1
50°	41.3	41.0	40.7	40.4	40.4	39.5	38.6	38.3	37.7	38.3	38.6
52.5°	37.4	37.1	36.2	36.5	36.5	35.9	34.4	34.1	34.7	34.4	34.4
55°	33.5	33.8	32.9	32.6	32.3	32.0	31.1	30.5	30.5	30.5	30.8
57.5°	29.9	29.9	29.3	29.0	28.4	28.1	27.8	26.9	26.9	26.6	26.9
60°	26.6	26.3	25.7	25.7	25.4	24.5	24.2	23.6	23.6	23.3	23.6
62.5°	22.7	22.1	22.7	22.1	22.1	21.8	21.5	20.9	20.0	20.0	20.6
65°	19.4	19.7	19.4	19.1	19.1	19.1	18.5	17.9	17.0	17.3	17.6
67.5°	17.0	17.0	16.7	16.5	16.7	16.2	15.6	15.3	14.7	14.7	14.7
70°	14.4	14.4	14.4	14.1	13.8	13.8	13.2	12.9	12.3	12.3	12.3
72.5°	12.6	12.0	11.7	11.4	11.4	11.1	10.8	10.5	9.9	10.2	10.2
75°	9.6	9.6	9.6	9.3	9.3	9.0	8.7	8.4	8.1	7.8	8.1
77.5°	7.8	7.8	7.8	7.5	7.5	6.9	6.6	6.6	6.0	6.0	6.0
80°	6.0	6.0	6.0	5.7	5.7	5.1	4.8	4.5	4.8	4.5	4.2
82.5°	4.2	4.2	4.2	3.9	3.9	3.9	3.3	3.3	2.7	2.7	2.7
85°	3.0	3.0	3.0	2.7	2.7	2.7	2.1	1.8	1.5	1.5	1.5
87.5°	2.1	2.1	2.1	2.1	1.8	1.5	1.2	0.9	0.9	0.6	0.6
90°	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.0	0.0
92.5°	2.1	2.1	2.1	2.1	1.8	1.5	1.2	0.9	0.9	0.6	0.6
95°	3.0	3.0	3.0	2.7	2.7	2.7	2.1	1.8	1.5	1.5	1.5
97.5°	4.2	4.2	4.2	3.9	3.9	3.9	3.3	3.3	2.7	2.7	2.7
100°	6.0	6.0	6.0	5.7	5.7	5.1	4.8	4.5	4.8	4.5	4.2
102.5°	7.8	7.8	7.8	7.5	7.5	6.9	6.6	6.6	6.0	6.0	6.0
105°	9.6	9.6	9.6	9.3	9.3	9.0	8.7	8.4	8.1	7.8	8.1
107.5°	12.6	12.0	11.7	11.4	11.4	11.1	10.8	10.5	9.9	10.2	10.2
110°	14.4	14.4	14.4	14.1	13.8	13.8	13.2	12.9	12.3	12.3	12.3



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	17.0	17.0	16.7	16.5	16.7	16.2	15.6	15.3	14.7	14.7	14.7
115°	19.4	19.7	19.4	19.1	19.1	19.1	18.5	17.9	17.0	17.3	17.6
117.5°	22.7	22.1	22.7	22.1	22.1	21.8	21.5	20.9	20.0	20.0	20.6
120°	26.6	26.3	25.7	25.7	25.4	24.5	24.2	23.6	23.6	23.3	23.6
122.5°	29.9	29.9	29.3	29.0	28.4	28.1	27.8	26.9	26.9	26.6	26.9
125°	33.5	33.8	32.9	32.6	32.3	32.0	31.1	30.5	30.5	30.5	30.8
127.5°	37.4	37.1	36.2	36.5	36.5	35.9	34.4	34.1	34.7	34.4	34.4
130°	41.3	41.0	40.7	40.4	40.4	39.5	38.6	38.3	37.7	38.3	38.6
132.5°	45.8	45.5	44.6	44.3	44.3	43.4	42.8	42.8	42.5	42.5	43.1
135°	50.0	49.1	49.1	48.8	48.2	47.9	47.6	46.7	47.6	47.3	47.6
137.5°	53.8	54.1	53.2	52.9	52.3	52.3	52.0	52.0	52.0	51.1	52.0
140°	58.9	57.1	56.2	56.2	56.8	56.8	56.2	56.5	55.3	55.9	56.5
142.5°	61.6	61.3	61.0	60.4	61.0	60.4	61.0	60.7	60.1	61.0	61.0
145°	65.5	65.2	64.9	65.5	66.7	65.8	65.2	67.3	63.7	64.9	65.2
147.5°	69.4	68.2	68.2	68.8	69.4	70.0	70.6	69.7	69.4	69.7	70.0
150°	74.2	71.8	72.4	73.3	73.3	73.9	73.3	73.9	73.3	73.3	73.9
152.5°	77.2	76.0	76.0	74.5	76.9	77.2	77.5	77.5	75.4	76.3	76.3
155°	79.6	79.0	79.0	79.6	80.8	80.5	81.4	80.8	79.9	79.3	79.3
157.5°	82.9	80.2	80.5	80.8	82.0	82.3	83.5	82.3	82.9	81.1	82.3
160°	85.5	83.2	84.0	84.6	86.1	84.6	85.8	84.9	85.2	83.5	85.5
162.5°	87.6	86.4	85.8	85.8	87.0	87.3	87.0	89.1	87.0	87.3	86.7
165°	89.1	87.0	87.3	88.5	87.9	88.2	88.5	88.5	88.8	88.8	89.1
167.5°	90.3	89.4	88.2	89.7	89.1	89.4	90.0	93.3	90.0	89.4	89.4
170°	91.5	90.3	90.0	87.6	90.9	91.2	91.5	90.6	90.9	90.3	91.2
172.5°	92.4	91.2	90.9	90.6	90.3	90.9	94.5	92.7	91.8	92.1	92.1
175°	92.7	91.5	91.2	90.6	92.1	91.8	93.9	92.1	92.1	92.4	92.4
177.5°	92.7	90.9	90.9	92.1	93.3	92.1	93.6	92.1	92.7	91.8	92.7
180°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
2.5°	92.1	92.1	92.1	92.7	92.7	90.0	93.0	93.0	91.8	93.9
5°	92.7	91.8	92.7	91.5	91.8	91.2	92.1	92.1	91.2	93.9
7.5°	92.1	92.4	91.5	92.4	91.5	91.2	93.9	92.1	92.1	93.6
10°	91.5	91.5	90.9	90.6	90.9	91.5	93.0	91.5	90.6	91.2
12.5°	90.3	90.6	91.2	90.0	89.1	90.6	91.2	90.6	88.8	92.1
15°	90.3	89.4	89.4	88.5	88.8	89.4	90.0	89.4	88.8	90.9
17.5°	87.6	87.3	87.3	86.7	86.1	87.9	89.4	87.6	87.6	87.6
20°	85.5	85.8	86.1	84.9	85.2	84.6	85.8	85.5	85.8	85.2
22.5°	83.7	83.2	83.2	83.2	83.5	83.5	83.5	83.2	80.2	82.9
25°	79.9	80.5	80.8	79.6	79.0	80.5	80.8	79.0	80.2	79.6
27.5°	76.6	76.6	77.5	76.6	76.0	75.4	78.4	77.2	75.4	76.3
30°	73.0	73.3	74.2	73.0	73.3	73.9	74.2	73.3	73.6	72.7
32.5°	70.0	69.1	70.6	69.4	69.7	69.7	70.0	69.1	68.2	69.1
35°	64.9	65.8	65.8	64.6	65.5	64.9	65.5	64.9	65.2	64.9
37.5°	61.3	60.1	61.6	60.7	60.1	60.4	61.3	59.8	60.7	60.1
40°	55.9	56.2	57.1	55.9	55.6	55.0	56.2	56.2	54.7	55.6
42.5°	52.9	51.4	52.6	51.7	50.8	52.0	51.7	49.7	45.5	47.0
45°	47.6	47.0	47.9	46.1	47.3	46.4	44.6	32.9	27.8	26.9
47.5°	42.5	41.9	43.4	42.2	42.5	41.3	30.2	22.1	21.2	21.2
50°	39.2	38.3	39.2	37.7	38.0	29.0	23.6	18.5	17.9	17.9
52.5°	34.7	34.7	35.3	33.8	32.6	21.5	20.0	15.9	15.6	15.0
55°	30.8	30.8	31.1	30.5	24.2	18.5	17.0	12.6	10.8	10.5
57.5°	26.6	26.9	27.2	26.3	19.7	15.9	13.2	3.6	1.8	1.5
60°	23.3	23.3	23.6	21.2	17.0	12.9	6.6	1.2	0.6	0.6
62.5°	20.6	20.3	20.6	17.3	14.4	7.5	5.1	0.6	0.0	0.0
65°	17.3	17.3	17.6	14.4	11.1	5.7	3.9	0.3	0.0	0.0
67.5°	14.7	14.7	15.0	12.3	8.7	4.8	3.3	0.3	0.0	0.0
70°	12.3	12.3	12.3	10.2	7.2	3.9	2.7	0.3	0.0	0.0
72.5°	9.9	9.9	9.9	8.4	6.0	3.3	2.1	0.0	0.0	0.0
75°	8.1	8.1	7.8	6.6	4.5	2.7	1.8	0.0	0.0	0.0
77.5°	6.0	6.0	6.3	5.1	3.6	1.8	1.2	0.0	0.0	0.0
80°	4.2	4.2	4.2	3.6	2.7	1.5	0.9	0.0	0.0	0.0
82.5°	2.7	2.7	3.0	2.4	1.8	0.9	0.6	0.0	0.0	0.0
85°	1.5	1.5	1.5	1.2	0.9	0.6	0.3	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.3	0.3	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°	0.6	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.0	0.0
95°	1.5	1.5	1.5	1.2	0.9	0.6	0.3	0.0	0.0	0.0
97.5°	2.7	2.7	3.0	2.4	1.8	0.9	0.6	0.0	0.0	0.0
100°	4.2	4.2	4.2	3.6	2.7	1.5	0.9	0.0	0.0	0.0
102.5°	6.0	6.0	6.3	5.1	3.6	1.8	1.2	0.0	0.0	0.0
105°	8.1	8.1	7.8	6.6	4.5	2.7	1.8	0.0	0.0	0.0
107.5°	9.9	9.9	9.9	8.4	6.0	3.3	2.1	0.0	0.0	0.0
110°	12.3	12.3	12.3	10.2	7.2	3.9	2.7	0.3	0.0	0.0



TEST NUMBER: P395010

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.7	14.7	15.0	12.3	8.7	4.8	3.3	0.3	0.0	0.0
115°	17.3	17.3	17.6	14.4	11.1	5.7	3.9	0.3	0.0	0.0
117.5°	20.6	20.3	20.6	17.3	14.4	7.5	5.1	0.6	0.0	0.0
120°	23.3	23.3	23.6	21.2	17.0	12.9	6.6	1.2	0.6	0.6
122.5°	26.6	26.9	27.2	26.3	19.7	15.9	13.2	3.6	1.8	1.5
125°	30.8	30.8	31.1	30.5	24.2	18.5	17.0	12.6	10.8	10.5
127.5°	34.7	34.7	35.3	33.8	32.6	21.5	20.0	15.9	15.6	15.0
130°	39.2	38.3	39.2	37.7	38.0	29.0	23.6	18.5	17.9	17.9
132.5°	42.5	41.9	43.4	42.2	42.5	41.3	30.2	22.1	21.2	21.2
135°	47.6	47.0	47.9	46.1	47.3	46.4	44.6	32.9	27.8	26.9
137.5°	52.9	51.4	52.6	51.7	50.8	52.0	51.7	49.7	45.5	47.0
140°	55.9	56.2	57.1	55.9	55.6	55.0	56.2	56.2	54.7	55.6
142.5°	61.3	60.1	61.6	60.7	60.1	60.4	61.3	59.8	60.7	60.1
145°	64.9	65.8	65.8	64.6	65.5	64.9	65.5	64.9	65.2	64.9
147.5°	70.0	69.1	70.6	69.4	69.7	69.7	70.0	69.1	68.2	69.1
150°	73.0	73.3	74.2	73.0	73.3	73.9	74.2	73.3	73.6	72.7
152.5°	76.6	76.6	77.5	76.6	76.0	75.4	78.4	77.2	75.4	76.3
155°	79.9	80.5	80.8	79.6	79.0	80.5	80.8	79.0	80.2	79.6
157.5°	83.7	83.2	83.2	83.2	83.5	83.5	83.5	83.2	80.2	82.9
160°	85.5	85.8	86.1	84.9	85.2	84.6	85.8	85.5	85.8	85.2
162.5°	87.6	87.3	87.3	86.7	86.1	87.9	89.4	87.6	87.6	87.6
165°	90.3	89.4	89.4	88.5	88.8	89.4	90.0	89.4	88.8	90.9
167.5°	90.3	90.6	91.2	90.0	89.1	90.6	91.2	90.6	88.8	92.1
170°	91.5	91.5	90.9	90.6	90.9	91.5	93.0	91.5	90.6	91.2
172.5°	92.1	92.4	91.5	92.4	91.5	91.2	93.9	92.1	92.1	93.6
175°	92.7	91.8	92.7	91.5	91.8	91.2	92.1	92.1	91.2	93.9
177.5°	92.1	92.1	92.1	92.7	92.7	90.0	93.0	93.0	91.8	93.9
180°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4

(END OF REPORT)