

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: P395000

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

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P395000
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-TSAM-UNV-T4-DIM10-CS
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 4
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

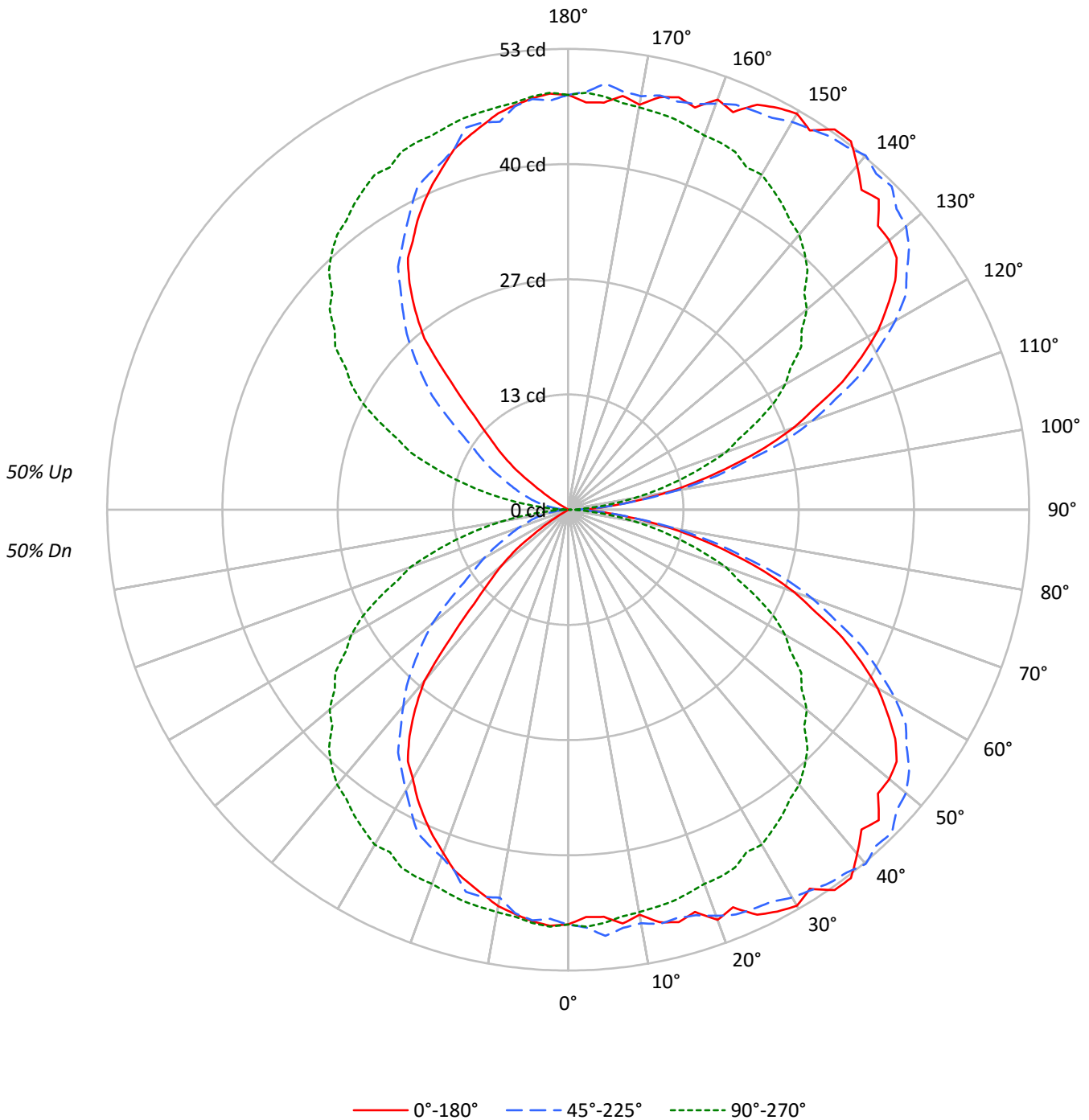
Lumens per Lamp: N/A
Luminaire Lumens: 317.6 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.39 / 1.52
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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



TEST NUMBER: P395000
CATALOG NUMBER: 303-W2-LEDB2-TSAM-UNV-T4-DIM10-CS

Luminous Intensity Polar Plot





TEST NUMBER: P395000

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	6572	6572	6572
5°	6500	6597	6569
10°	6617	6575	6478
15°	7004	6647	6333
20°	7360	6715	6158
25°	7814	6902	5944
30°	8368	7080	5680
35°	8982	7216	5349
40°	9299	7428	4622
45°	9840	7580	2981
50°	10331	7674	2143
55°	11026	7855	1033
60°	11325	7936	28
65°	11345	7824	0
70°	11118	7775	0
75°	10327	7080	0
80°	9283	6109	0
85°	7430	4110	0



TEST NUMBER: P395000

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	1.4
10°-20°	13.3	4.2
20°-30°	21.0	6.6
30°-40°	26.9	8.5
40°-50°	28.9	9.1
50°-60°	26.8	8.4
60°-70°	21.3	6.7
70°-80°	12.7	4.0
80°-90°	3.4	1.1
90°-100°	3.4	1.1
100°-110°	12.7	4.0
110°-120°	21.3	6.7
120°-130°	26.8	8.4
130°-140°	28.9	9.1
140°-150°	26.9	8.5
150°-160°	21.0	6.6
160°-170°	13.3	4.2
170°-180°	4.5	1.4
0°-30°	38.8	12.2
0°-40°	65.7	20.7
0°-60°	121.4	38.2
0°-90°	158.8	50.0
90°-120°	37.4	11.8
90°-150°	120.0	37.8
90°-180°	159.0	50.1
0°-180°	317.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	47	49	48	47	48	5
15°	49	49	47	46	44	14
25°	51	51	45	41	39	24
35°	53	52	43	34	32	33
45°	50	53	39	25	15	38
55°	46	48	33	15	4	41
65°	35	37	24	8	0	34
75°	19	21	13	4	0	21
85°	5	5	3	1	0	5
90°	2	1	0	0	0	1
95°	5	5	3	1	0	5
105°	19	21	13	4	0	21
115°	35	37	24	8	0	34
125°	46	48	33	15	4	41
135°	50	53	39	25	15	38
145°	53	52	43	34	32	33
155°	51	51	45	41	39	24
165°	49	49	47	46	44	14
175°	47	49	48	47	48	5
180°	48	48	48	48	48	



TEST NUMBER: P395000

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	46.9	47.8	47.8	47.4	47.1	48.1	47.0	48.1	47.8	47.7	48.0
5°	47.0	48.6	48.0	48.4	47.7	49.2	47.8	48.3	46.7	48.0	47.7
7.5°	48.0	48.7	48.2	48.7	47.3	48.5	47.9	48.3	48.4	47.7	47.2
10°	47.3	49.0	48.5	48.2	48.1	48.3	47.5	48.2	48.4	47.6	47.0
12.5°	48.6	49.4	48.7	49.1	47.6	48.8	48.2	48.2	47.7	47.4	46.8
15°	49.1	49.2	49.3	49.7	48.5	48.6	48.4	48.3	47.8	47.1	46.6
17.5°	48.5	50.2	49.6	49.5	49.1	48.9	48.6	48.4	48.2	47.2	46.2
20°	50.2	50.7	50.3	50.0	49.4	49.7	48.9	48.7	47.2	46.7	45.8
22.5°	49.5	50.8	50.8	50.9	50.2	50.4	48.9	48.9	47.5	46.3	45.7
25°	51.4	52.0	51.3	51.2	50.2	50.6	49.1	48.8	47.3	46.0	45.4
27.5°	52.1	52.6	52.3	52.5	51.6	50.8	50.1	49.7	47.4	45.8	44.4
30°	52.6	53.6	53.4	52.9	51.9	51.5	50.6	49.9	48.3	45.5	44.5
32.5°	51.7	53.5	52.6	53.0	52.9	51.9	50.8	49.7	48.3	45.7	43.7
35°	53.4	53.1	53.2	53.7	52.9	52.4	51.7	50.3	48.3	45.3	42.9
37.5°	53.4	53.7	52.9	53.9	53.1	52.6	51.2	49.7	48.0	44.0	41.9
40°	51.7	52.6	52.9	53.7	53.5	53.2	51.8	50.0	47.4	43.3	41.3
42.5°	49.9	52.1	51.5	52.9	53.4	52.4	51.6	48.9	46.7	42.3	40.2
45°	50.5	51.9	51.8	52.8	52.3	52.6	51.1	48.7	45.1	41.6	38.9
47.5°	48.3	50.9	50.2	51.9	51.7	51.2	50.3	47.6	44.3	39.6	36.8
50°	48.2	49.1	49.4	50.2	51.0	50.7	48.6	47.4	42.8	37.7	35.8
52.5°	47.6	47.1	47.8	48.7	49.3	49.4	47.1	44.3	41.3	36.9	33.8
55°	45.9	45.5	46.1	46.9	48.3	47.5	46.4	43.0	39.2	34.5	32.7
57.5°	43.5	43.0	43.3	44.9	46.2	46.0	44.5	41.2	38.5	33.2	30.3
60°	41.1	40.6	40.4	42.2	43.0	43.4	41.8	38.4	35.3	30.8	28.8
62.5°	38.0	38.5	38.7	39.5	40.3	40.3	39.5	35.8	32.6	28.5	26.7
65°	34.8	34.3	34.7	36.6	37.6	37.3	36.8	33.0	29.9	26.1	24.0
67.5°	30.8	30.8	31.9	32.6	34.1	33.3	32.8	30.0	26.5	23.4	21.2
70°	27.6	27.4	27.5	28.8	29.5	29.9	29.0	26.0	23.4	20.5	19.3
72.5°	23.7	23.4	23.5	24.8	25.3	25.9	24.6	22.2	20.3	17.6	16.2
75°	19.4	19.4	19.7	20.2	21.3	20.8	20.4	18.4	16.3	14.2	13.3
77.5°	15.4	15.4	15.7	16.3	16.8	16.9	16.4	14.5	12.7	11.2	10.5
80°	11.7	11.5	11.6	12.0	12.6	12.5	12.0	10.7	9.5	8.1	7.7
82.5°	7.8	7.9	7.9	8.3	8.2	8.1	8.0	7.2	6.4	5.3	5.0
85°	4.7	4.8	4.9	4.8	4.9	4.9	4.5	3.9	3.3	3.0	2.6
87.5°	2.7	2.5	2.5	2.3	2.2	2.1	1.8	1.5	1.3	1.0	0.9
90°	1.9	1.9	1.7	1.5	1.2	1.0	0.7	0.4	0.2	0.1	0.1
92.5°	2.7	2.5	2.5	2.3	2.2	2.1	1.8	1.5	1.3	1.0	0.9
95°	4.7	4.8	4.9	4.8	4.9	4.9	4.5	3.9	3.3	3.0	2.6
97.5°	7.8	7.9	7.9	8.3	8.2	8.1	8.0	7.2	6.4	5.3	5.0
100°	11.7	11.5	11.6	12.0	12.6	12.5	12.0	10.7	9.5	8.1	7.7
102.5°	15.4	15.4	15.7	16.3	16.8	16.9	16.4	14.5	12.7	11.2	10.5
105°	19.4	19.4	19.7	20.2	21.3	20.8	20.4	18.4	16.3	14.2	13.3
107.5°	23.7	23.4	23.5	24.8	25.3	25.9	24.6	22.2	20.3	17.6	16.2
110°	27.6	27.4	27.5	28.8	29.5	29.9	29.0	26.0	23.4	20.5	19.3



TEST NUMBER: P395000

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	30.8	30.8	31.9	32.6	34.1	33.3	32.8	30.0	26.5	23.4	21.2
115°	34.8	34.3	34.7	36.6	37.6	37.3	36.8	33.0	29.9	26.1	24.0
117.5°	38.0	38.5	38.7	39.5	40.3	40.3	39.5	35.8	32.6	28.5	26.7
120°	41.1	40.6	40.4	42.2	43.0	43.4	41.8	38.4	35.3	30.8	28.8
122.5°	43.5	43.0	43.3	44.9	46.2	46.0	44.5	41.2	38.5	33.2	30.3
125°	45.9	45.5	46.1	46.9	48.3	47.5	46.4	43.0	39.2	34.5	32.7
127.5°	47.6	47.1	47.8	48.7	49.3	49.4	47.1	44.3	41.3	36.9	33.8
130°	48.2	49.1	49.4	50.2	51.0	50.7	48.6	47.4	42.8	37.7	35.8
132.5°	48.3	50.9	50.2	51.9	51.7	51.2	50.3	47.6	44.3	39.6	36.8
135°	50.5	51.9	51.8	52.8	52.3	52.6	51.1	48.7	45.1	41.6	38.9
137.5°	49.9	52.1	51.5	52.9	53.4	52.4	51.6	48.9	46.7	42.3	40.2
140°	51.7	52.6	52.9	53.7	53.5	53.2	51.8	50.0	47.4	43.3	41.3
142.5°	53.4	53.7	52.9	53.9	53.1	52.6	51.2	49.7	48.0	44.0	41.9
145°	53.4	53.1	53.2	53.7	52.9	52.4	51.7	50.3	48.3	45.3	42.9
147.5°	51.7	53.5	52.6	53.0	52.9	51.9	50.8	49.7	48.3	45.7	43.7
150°	52.6	53.6	53.4	52.9	51.9	51.5	50.6	49.9	48.3	45.5	44.5
152.5°	52.1	52.6	52.3	52.5	51.6	50.8	50.1	49.7	47.4	45.8	44.4
155°	51.4	52.0	51.3	51.2	50.2	50.6	49.1	48.8	47.3	46.0	45.4
157.5°	49.5	50.8	50.8	50.9	50.2	50.4	48.9	48.9	47.5	46.3	45.7
160°	50.2	50.7	50.3	50.0	49.4	49.7	48.9	48.7	47.2	46.7	45.8
162.5°	48.5	50.2	49.6	49.5	49.1	48.9	48.6	48.4	48.2	47.2	46.2
165°	49.1	49.2	49.3	49.7	48.5	48.6	48.4	48.3	47.8	47.1	46.6
167.5°	48.6	49.4	48.7	49.1	47.6	48.8	48.2	48.2	47.7	47.4	46.8
170°	47.3	49.0	48.5	48.2	48.1	48.3	47.5	48.2	48.4	47.6	47.0
172.5°	48.0	48.7	48.2	48.7	47.3	48.5	47.9	48.3	48.4	47.7	47.2
175°	47.0	48.6	48.0	48.4	47.7	49.2	47.8	48.3	46.7	48.0	47.7
177.5°	46.9	47.8	47.8	47.4	47.1	48.1	47.0	48.1	47.8	47.7	48.0
180°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7



TEST NUMBER: P395000

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	47.8	48.3	47.9	47.5	47.1	47.5	47.6	47.1	47.3	47.9
5°	48.1	47.3	47.7	47.8	47.4	47.6	46.2	47.2	46.9	47.5
7.5°	47.5	47.9	47.3	47.3	46.8	47.1	46.8	46.5	47.2	46.9
10°	47.3	47.0	47.3	46.9	45.3	46.0	45.6	45.9	45.6	46.3
12.5°	46.9	46.3	46.5	46.2	45.6	45.3	45.5	45.6	46.0	45.3
15°	46.6	46.2	45.8	45.9	45.5	44.6	43.6	44.1	43.8	44.4
17.5°	46.2	45.5	45.4	44.4	43.5	44.1	43.7	43.2	42.8	43.5
20°	45.9	45.3	44.6	43.3	42.5	42.4	42.5	42.4	42.1	42.0
22.5°	45.2	44.1	43.5	42.2	41.8	41.2	40.2	40.9	40.1	40.6
25°	44.6	43.4	42.7	41.5	41.0	39.8	39.5	38.5	38.9	39.1
27.5°	44.4	43.0	41.3	39.7	39.1	38.2	38.2	37.2	37.4	37.5
30°	43.5	41.6	40.6	38.8	37.3	36.5	36.0	35.6	35.7	35.7
32.5°	42.8	40.4	38.6	36.4	35.6	34.7	34.5	33.3	34.2	34.3
35°	41.9	39.2	37.1	34.6	34.1	32.8	32.5	31.7	31.6	31.8
37.5°	41.2	37.8	35.6	32.9	31.6	30.9	30.3	29.0	28.7	28.9
40°	39.6	36.3	33.7	31.3	29.5	27.8	27.9	26.4	25.8	25.7
42.5°	39.2	34.7	31.9	29.2	27.5	25.9	24.6	23.0	20.6	19.9
45°	36.9	33.2	29.5	26.8	25.1	23.2	20.5	15.9	15.3	15.3
47.5°	35.3	31.4	27.5	24.9	22.7	20.2	16.0	13.2	12.4	12.2
50°	33.9	29.3	25.6	22.8	20.4	15.5	13.2	10.5	9.5	10.0
52.5°	32.0	27.6	23.9	20.7	17.4	13.1	11.1	8.6	7.5	7.5
55°	30.4	26.1	22.5	18.8	14.6	11.3	9.0	6.2	4.5	4.3
57.5°	28.7	24.4	21.0	16.9	12.7	9.5	6.6	3.0	1.8	1.8
60°	26.6	22.7	19.0	14.4	11.2	7.7	4.3	1.3	0.1	0.1
62.5°	24.8	20.8	17.2	12.9	9.7	5.4	2.8	0.1	0.0	0.0
65°	22.7	18.9	15.6	11.5	8.1	4.5	2.2	0.2	0.0	0.0
67.5°	20.1	16.9	13.8	10.1	7.0	3.9	2.1	0.4	0.0	0.0
70°	17.6	14.8	12.1	8.8	6.0	3.5	1.9	0.4	0.0	0.0
72.5°	15.1	12.6	10.2	7.5	5.0	2.9	1.6	0.4	0.0	0.0
75°	12.2	10.3	8.4	6.2	4.2	2.4	1.3	0.3	0.0	0.0
77.5°	9.5	8.0	6.8	4.9	3.3	1.9	1.0	0.2	0.0	0.0
80°	7.2	6.0	4.9	3.6	2.5	1.4	0.8	0.2	0.0	0.0
82.5°	4.5	3.9	3.3	2.4	1.6	0.9	0.5	0.1	0.0	0.0
85°	2.5	2.2	1.9	1.3	1.0	0.5	0.3	0.1	0.0	0.0
87.5°	0.9	0.8	0.7	0.5	0.4	0.2	0.1	0.0	0.0	0.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
92.5°	0.9	0.8	0.7	0.5	0.4	0.2	0.1	0.0	0.0	0.0
95°	2.5	2.2	1.9	1.3	1.0	0.5	0.3	0.1	0.0	0.0
97.5°	4.5	3.9	3.3	2.4	1.6	0.9	0.5	0.1	0.0	0.0
100°	7.2	6.0	4.9	3.6	2.5	1.4	0.8	0.2	0.0	0.0
102.5°	9.5	8.0	6.8	4.9	3.3	1.9	1.0	0.2	0.0	0.0
105°	12.2	10.3	8.4	6.2	4.2	2.4	1.3	0.3	0.0	0.0
107.5°	15.1	12.6	10.2	7.5	5.0	2.9	1.6	0.4	0.0	0.0
110°	17.6	14.8	12.1	8.8	6.0	3.5	1.9	0.4	0.0	0.0



TEST NUMBER: P395000

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.1	16.9	13.8	10.1	7.0	3.9	2.1	0.4	0.0	0.0
115°	22.7	18.9	15.6	11.5	8.1	4.5	2.2	0.2	0.0	0.0
117.5°	24.8	20.8	17.2	12.9	9.7	5.4	2.8	0.1	0.0	0.0
120°	26.6	22.7	19.0	14.4	11.2	7.7	4.3	1.3	0.1	0.1
122.5°	28.7	24.4	21.0	16.9	12.7	9.5	6.6	3.0	1.8	1.8
125°	30.4	26.1	22.5	18.8	14.6	11.3	9.0	6.2	4.5	4.3
127.5°	32.0	27.6	23.9	20.7	17.4	13.1	11.1	8.6	7.5	7.5
130°	33.9	29.3	25.6	22.8	20.4	15.5	13.2	10.5	9.5	10.0
132.5°	35.3	31.4	27.5	24.9	22.7	20.2	16.0	13.2	12.4	12.2
135°	36.9	33.2	29.5	26.8	25.1	23.2	20.5	15.9	15.3	15.3
137.5°	39.2	34.7	31.9	29.2	27.5	25.9	24.6	23.0	20.6	19.9
140°	39.6	36.3	33.7	31.3	29.5	27.8	27.9	26.4	25.8	25.7
142.5°	41.2	37.8	35.6	32.9	31.6	30.9	30.3	29.0	28.7	28.9
145°	41.9	39.2	37.1	34.6	34.1	32.8	32.5	31.7	31.6	31.8
147.5°	42.8	40.4	38.6	36.4	35.6	34.7	34.5	33.3	34.2	34.3
150°	43.5	41.6	40.6	38.8	37.3	36.5	36.0	35.6	35.7	35.7
152.5°	44.4	43.0	41.3	39.7	39.1	38.2	38.2	37.2	37.4	37.5
155°	44.6	43.4	42.7	41.5	41.0	39.8	39.5	38.5	38.9	39.1
157.5°	45.2	44.1	43.5	42.2	41.8	41.2	40.2	40.9	40.1	40.6
160°	45.9	45.3	44.6	43.3	42.5	42.4	42.5	42.4	42.1	42.0
162.5°	46.2	45.5	45.4	44.4	43.5	44.1	43.7	43.2	42.8	43.5
165°	46.6	46.2	45.8	45.9	45.5	44.6	43.6	44.1	43.8	44.4
167.5°	46.9	46.3	46.5	46.2	45.6	45.3	45.5	45.6	46.0	45.3
170°	47.3	47.0	47.3	46.9	45.3	46.0	45.6	45.9	45.6	46.3
172.5°	47.5	47.9	47.3	47.3	46.8	47.1	46.8	46.5	47.2	46.9
175°	48.1	47.3	47.7	47.8	47.4	47.6	46.2	47.2	46.9	47.5
177.5°	47.8	48.3	47.9	47.5	47.1	47.5	47.6	47.1	47.3	47.9
180°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7

(END OF REPORT)