

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: P394990

Luminaire Tested: **303-W2-LEDB2-TSAM-UNV-T2-DIM10-CS**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-7)
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-T2-DIM10-CS
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, DIRECT-INDIRECT, TWO LIGHTBARS, TYPE 2
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

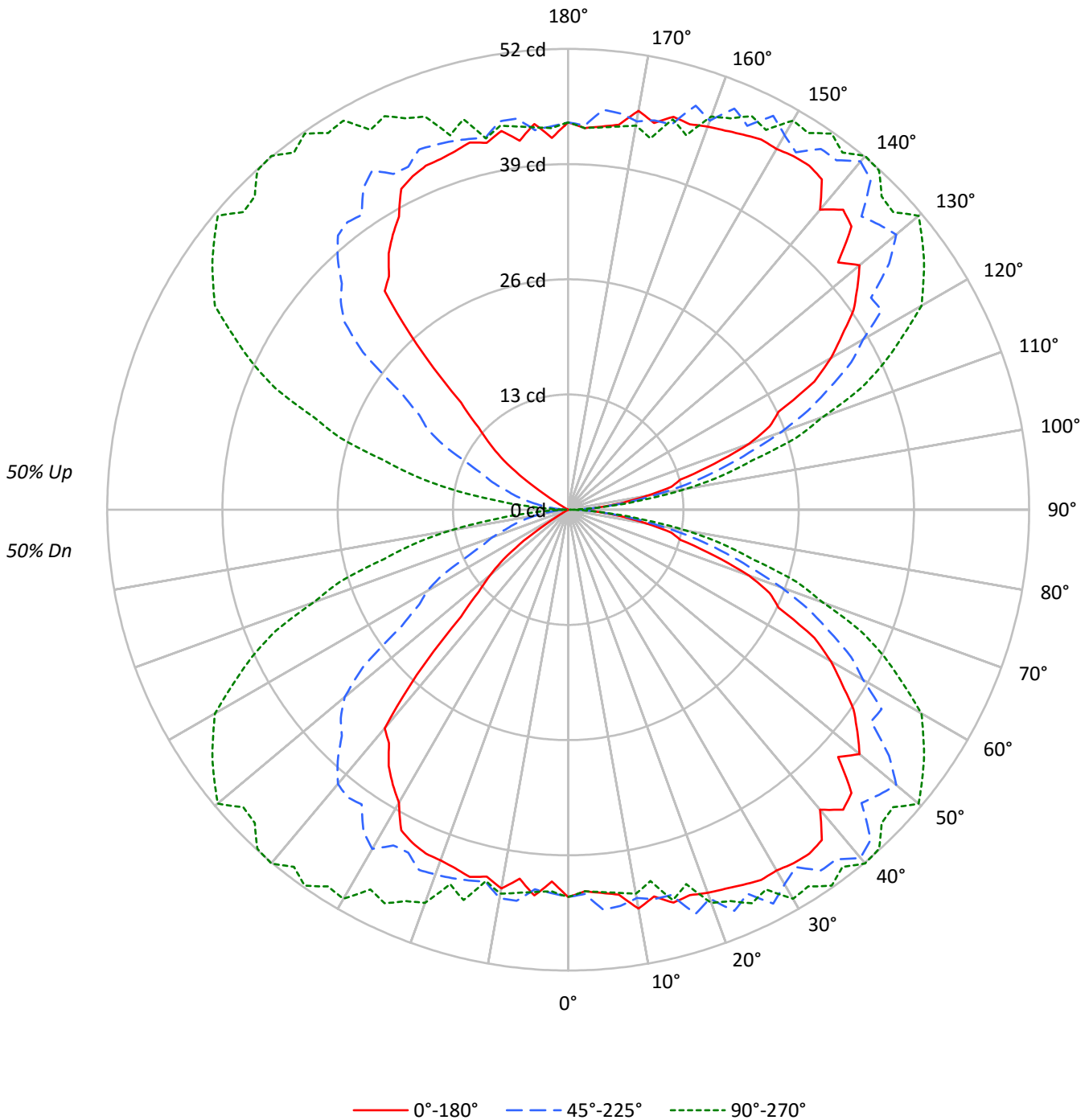
Lumens per Lamp: N/A
Luminaire Lumens: 347.7 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.77 / 1.7
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: General Diffuse

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	97	93	89	85	90	86	82	79	72	70	67		60	58	57		49	48	46	41
2	88	80	74	68	81	74	69	64	63	59	55		52	49	46		42	40	38	34
3	80	70	62	56	73	65	58	53	55	50	45		46	42	39		37	34	32	28
4	73	62	53	47	67	57	50	44	48	43	38		40	36	32		33	29	27	23
5	67	55	46	40	61	51	43	37	43	37	32		36	31	28		29	26	23	20
6	61	49	40	34	56	45	38	32	38	32	28		32	27	24		26	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24		29	24	21		24	20	17	15
8	52	39	32	26	48	37	29	24	31	26	21		26	22	18		22	18	15	13
9	48	36	28	23	45	33	26	22	29	23	19		24	20	16		20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17		22	18	15		18	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6021	6021	6021
5°	6002	5989	6044
10°	6394	6156	6072
15°	6547	6504	6119
20°	6745	6920	6173
25°	7099	7449	6309
30°	7477	8066	6077
35°	7973	8713	5937
40°	7950	9371	5791
45°	8807	9742	3332
50°	9195	11060	2465
55°	9440	11770	1465
60°	9424	12676	220
65°	8541	12845	0
70°	8742	12287	0
75°	6974	11445	0
80°	7141	10711	0
85°	6007	7272	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	1.2
10°-20°	12.7	3.7
20°-30°	21.3	6.1
30°-40°	29.0	8.4
40°-50°	32.7	9.4
50°-60°	31.2	9.0
60°-70°	24.5	7.1
70°-80°	14.4	4.1
80°-90°	3.8	1.1
90°-100°	3.8	1.1
100°-110°	14.4	4.1
110°-120°	24.5	7.1
120°-130°	31.2	9.0
130°-140°	32.7	9.4
140°-150°	29.0	8.4
150°-160°	21.3	6.1
160°-170°	12.7	3.7
170°-180°	4.2	1.2
0°-30°	38.2	11.0
0°-40°	67.3	19.3
0°-60°	131.1	37.7
0°-90°	173.8	50.0
90°-120°	42.7	12.3
90°-150°	135.6	39.0
90°-180°	174.0	50.0
0°-180°	347.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	43	45	43	43	44	4
15°	46	45	46	43	43	13
25°	47	48	49	43	42	22
35°	47	50	52	41	35	29
45°	45	47	50	36	17	34
55°	39	42	49	23	6	35
65°	26	32	39	13	0	27
75°	13	18	22	6	0	15
85°	4	4	5	1	0	4
90°	2	1	0	0	0	1
95°	4	4	5	1	0	4
105°	13	18	22	6	0	15
115°	26	32	39	13	0	27
125°	39	42	49	23	6	35
135°	45	47	50	36	17	34
145°	47	50	52	41	35	29
155°	47	48	49	43	42	22
165°	46	45	46	43	43	13
175°	43	45	43	43	44	4
180°	44	44	44	44	44	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
2.5°	43.1	45.5	44.9	43.9	43.0	43.4	43.8	45.0	43.3	43.7	43.1
5°	43.4	43.3	44.3	42.6	43.4	45.3	41.1	43.1	43.5	43.9	43.3
7.5°	43.8	44.3	44.6	45.9	43.2	45.1	44.6	44.9	46.4	44.3	43.6
10°	45.7	46.9	45.3	42.1	43.6	44.5	45.3	44.9	45.2	44.7	44.0
12.5°	44.7	45.1	45.7	46.2	44.9	45.0	44.5	45.1	49.0	45.1	42.9
15°	45.9	49.3	46.2	45.6	45.5	45.0	46.5	46.1	46.1	45.9	45.6
17.5°	45.6	46.8	46.8	46.0	44.8	47.8	47.3	46.6	50.1	46.6	44.3
20°	46.0	47.3	47.3	46.5	46.8	46.7	45.1	47.3	47.6	45.9	47.2
22.5°	46.3	48.9	47.2	43.7	47.3	49.0	48.6	48.6	48.3	48.2	47.8
25°	46.7	47.9	47.4	45.6	44.7	47.8	48.1	50.2	49.3	49.2	49.0
27.5°	47.1	47.9	48.0	47.4	48.4	50.1	50.2	49.4	50.2	50.0	48.3
30°	47.0	48.1	48.3	47.9	45.4	48.8	49.8	50.3	50.5	50.7	50.7
32.5°	47.3	49.9	48.9	46.6	47.6	47.8	50.5	52.0	52.4	51.4	50.4
35°	47.4	48.1	48.5	46.7	49.7	49.7	51.1	51.2	52.5	51.7	51.8
37.5°	47.0	47.8	47.0	48.3	47.8	49.7	52.2	51.2	51.9	52.7	50.8
40°	44.2	48.3	46.5	46.6	47.7	51.3	52.1	53.0	52.8	51.6	52.1
42.5°	45.9	47.3	47.0	47.0	47.1	50.5	51.1	52.6	51.7	52.9	51.9
45°	45.2	46.5	46.2	46.4	48.2	46.8	51.3	50.5	51.7	51.7	50.0
47.5°	41.3	46.6	45.3	45.7	47.4	47.6	50.7	50.3	52.8	51.7	49.7
50°	42.9	45.1	42.4	44.5	46.5	48.3	49.8	51.0	50.9	49.8	51.6
52.5°	41.1	41.1	42.2	41.3	44.0	45.6	48.6	48.2	50.4	51.9	50.3
55°	39.3	38.8	40.1	36.4	42.1	41.7	47.0	50.5	50.8	46.4	49.0
57.5°	36.6	37.6	38.4	38.5	39.1	41.9	44.8	47.0	47.9	47.4	47.5
60°	34.2	33.7	35.7	34.6	37.3	38.4	43.8	43.5	45.8	45.6	46.0
62.5°	31.3	30.8	31.9	33.1	34.9	36.0	40.7	40.8	43.1	44.3	42.6
65°	26.2	27.9	28.9	29.6	31.6	32.5	36.2	36.8	38.9	39.5	39.4
67.5°	24.6	24.3	25.5	25.7	27.7	29.3	34.2	33.5	35.2	37.1	35.7
70°	21.7	21.2	22.1	22.5	24.3	25.5	28.0	29.3	31.0	31.8	30.5
72.5°	17.3	17.8	19.3	19.5	20.4	21.4	25.3	25.0	27.7	28.1	27.0
75°	13.1	14.6	15.5	15.6	16.7	17.8	20.7	21.3	23.5	22.5	21.5
77.5°	11.9	11.5	12.3	12.7	13.4	14.3	15.7	16.3	18.7	17.8	17.8
80°	9.0	8.6	9.2	9.2	10.0	10.5	11.4	12.1	13.3	13.0	13.5
82.5°	6.3	6.2	6.5	6.6	6.9	7.3	7.9	8.3	8.8	8.9	8.6
85°	3.8	3.9	4.2	4.2	4.1	4.2	4.4	4.6	4.7	4.7	4.6
87.5°	2.4	2.4	2.4	2.2	2.1	1.9	1.8	1.8	1.9	1.7	1.6
90°	1.9	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.5	0.2	0.2
92.5°	2.4	2.4	2.4	2.2	2.1	1.9	1.8	1.8	1.9	1.7	1.6
95°	3.8	3.9	4.2	4.2	4.1	4.2	4.4	4.6	4.7	4.7	4.6
97.5°	6.3	6.2	6.5	6.6	6.9	7.3	7.9	8.3	8.8	8.9	8.6
100°	9.0	8.6	9.2	9.2	10.0	10.5	11.4	12.1	13.3	13.0	13.5
102.5°	11.9	11.5	12.3	12.7	13.4	14.3	15.7	16.3	18.7	17.8	17.8
105°	13.1	14.6	15.5	15.6	16.7	17.8	20.7	21.3	23.5	22.5	21.5
107.5°	17.3	17.8	19.3	19.5	20.4	21.4	25.3	25.0	27.7	28.1	27.0
110°	21.7	21.2	22.1	22.5	24.3	25.5	28.0	29.3	31.0	31.8	30.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	24.6	24.3	25.5	25.7	27.7	29.3	34.2	33.5	35.2	37.1	35.7
115°	26.2	27.9	28.9	29.6	31.6	32.5	36.2	36.8	38.9	39.5	39.4
117.5°	31.3	30.8	31.9	33.1	34.9	36.0	40.7	40.8	43.1	44.3	42.6
120°	34.2	33.7	35.7	34.6	37.3	38.4	43.8	43.5	45.8	45.6	46.0
122.5°	36.6	37.6	38.4	38.5	39.1	41.9	44.8	47.0	47.9	47.4	47.5
125°	39.3	38.8	40.1	36.4	42.1	41.7	47.0	50.5	50.8	46.4	49.0
127.5°	41.1	41.1	42.2	41.3	44.0	45.6	48.6	48.2	50.4	51.9	50.3
130°	42.9	45.1	42.4	44.5	46.5	48.3	49.8	51.0	50.9	49.8	51.6
132.5°	41.3	46.6	45.3	45.7	47.4	47.6	50.7	50.3	52.8	51.7	49.7
135°	45.2	46.5	46.2	46.4	48.2	46.8	51.3	50.5	51.7	51.7	50.0
137.5°	45.9	47.3	47.0	47.0	47.1	50.5	51.1	52.6	51.7	52.9	51.9
140°	44.2	48.3	46.5	46.6	47.7	51.3	52.1	53.0	52.8	51.6	52.1
142.5°	47.0	47.8	47.0	48.3	47.8	49.7	52.2	51.2	51.9	52.7	50.8
145°	47.4	48.1	48.5	46.7	49.7	49.7	51.1	51.2	52.5	51.7	51.8
147.5°	47.3	49.9	48.9	46.6	47.6	47.8	50.5	52.0	52.4	51.4	50.4
150°	47.0	48.1	48.3	47.9	45.4	48.8	49.8	50.3	50.5	50.7	50.7
152.5°	47.1	47.9	48.0	47.4	48.4	50.1	50.2	49.4	50.2	50.0	48.3
155°	46.7	47.9	47.4	45.6	44.7	47.8	48.1	50.2	49.3	49.2	49.0
157.5°	46.3	48.9	47.2	43.7	47.3	49.0	48.6	48.6	48.3	48.2	47.8
160°	46.0	47.3	47.3	46.5	46.8	46.7	45.1	47.3	47.6	45.9	47.2
162.5°	45.6	46.8	46.8	46.0	44.8	47.8	47.3	46.6	50.1	46.6	44.3
165°	45.9	49.3	46.2	45.6	45.5	45.0	46.5	46.1	46.1	45.9	45.6
167.5°	44.7	45.1	45.7	46.2	44.9	45.0	44.5	45.1	49.0	45.1	42.9
170°	45.7	46.9	45.3	42.1	43.6	44.5	45.3	44.9	45.2	44.7	44.0
172.5°	43.8	44.3	44.6	45.9	43.2	45.1	44.6	44.9	46.4	44.3	43.6
175°	43.4	43.3	44.3	42.6	43.4	45.3	41.1	43.1	43.5	43.9	43.3
177.5°	43.1	45.5	44.9	43.9	43.0	43.4	43.8	45.0	43.3	43.7	43.1
180°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
2.5°	44.2	43.7	42.9	43.7	43.3	41.5	42.7	45.2	43.5	42.0
5°	44.3	43.6	42.8	43.3	43.0	42.9	43.2	43.6	43.1	43.7
7.5°	44.6	43.5	42.8	43.5	44.5	43.6	42.3	44.5	42.6	42.0
10°	45.1	43.8	43.0	42.2	44.5	42.1	42.2	42.8	42.4	43.4
12.5°	44.3	44.4	43.3	43.8	43.0	41.3	40.8	42.6	42.4	42.4
15°	46.4	44.9	44.9	44.2	43.3	43.7	42.0	42.4	42.2	42.9
17.5°	47.0	45.8	45.0	44.7	43.6	42.2	41.9	42.1	42.0	42.4
20°	48.9	46.2	45.6	45.2	43.8	43.9	41.8	41.6	40.6	42.1
22.5°	47.8	47.5	45.6	45.7	44.0	42.7	41.5	41.1	39.9	42.0
25°	49.7	47.2	46.6	46.2	42.7	42.5	41.2	40.6	40.4	41.5
27.5°	49.9	47.7	47.2	45.0	42.7	41.6	40.0	39.6	37.9	40.8
30°	54.5	49.9	45.4	46.8	44.2	42.8	40.0	39.0	36.8	38.2
32.5°	51.7	48.8	46.4	46.9	43.0	42.0	39.0	38.5	35.5	36.8
35°	53.8	50.2	48.2	46.4	40.6	40.9	37.7	35.8	36.0	35.3
37.5°	54.3	50.8	48.1	44.9	40.9	39.5	35.1	34.0	33.4	33.2
40°	51.9	50.3	46.6	45.7	40.4	37.7	32.5	31.6	29.3	32.2
42.5°	52.2	50.0	46.6	43.4	38.5	35.6	31.5	27.9	25.7	25.3
45°	51.0	49.4	44.5	41.7	36.1	33.1	25.9	19.0	16.7	17.1
47.5°	50.4	45.4	44.7	40.0	34.8	29.5	20.1	16.2	14.2	13.7
50°	49.7	47.6	40.5	38.4	32.9	22.7	15.7	12.7	11.2	11.5
52.5°	49.9	46.8	41.7	36.3	29.2	18.9	14.8	10.6	9.5	9.2
55°	47.3	43.8	39.9	33.9	22.9	16.5	12.6	8.3	6.7	6.1
57.5°	45.7	42.5	37.6	30.9	19.9	14.2	9.5	3.5	2.5	2.4
60°	44.7	41.0	35.1	27.5	18.4	12.0	5.8	2.0	1.0	0.8
62.5°	42.1	37.3	31.0	23.0	16.0	8.0	4.5	0.9	0.1	0.1
65°	37.2	33.9	26.9	19.7	12.6	6.5	3.3	0.6	0.0	0.0
67.5°	33.9	28.6	24.8	17.5	10.4	5.4	3.0	0.5	0.0	0.0
70°	29.7	27.7	21.5	14.9	9.1	4.5	2.5	0.4	0.0	0.0
72.5°	25.5	22.9	19.0	12.8	7.4	3.8	2.0	0.4	0.1	0.1
75°	20.8	19.4	15.0	10.0	6.2	3.2	1.6	0.4	0.0	0.0
77.5°	16.0	15.1	12.2	8.3	4.9	2.5	1.3	0.3	0.0	0.0
80°	12.7	11.2	8.6	5.7	3.6	1.8	0.9	0.2	0.0	0.0
82.5°	8.3	7.1	5.8	4.0	2.5	1.2	0.6	0.1	0.0	0.0
85°	4.4	3.8	3.2	2.1	1.4	0.7	0.4	0.1	0.0	0.0
87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.1	0.0	0.0	0.0
90°	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.1	0.0	0.0	0.0
95°	4.4	3.8	3.2	2.1	1.4	0.7	0.4	0.1	0.0	0.0
97.5°	8.3	7.1	5.8	4.0	2.5	1.2	0.6	0.1	0.0	0.0
100°	12.7	11.2	8.6	5.7	3.6	1.8	0.9	0.2	0.0	0.0
102.5°	16.0	15.1	12.2	8.3	4.9	2.5	1.3	0.3	0.0	0.0
105°	20.8	19.4	15.0	10.0	6.2	3.2	1.6	0.4	0.0	0.0
107.5°	25.5	22.9	19.0	12.8	7.4	3.8	2.0	0.4	0.1	0.1
110°	29.7	27.7	21.5	14.9	9.1	4.5	2.5	0.4	0.0	0.0



TEST NUMBER: P394990

CATALOG NUMBER: 303-W2-LEDB2-TSAM-UNV-T2-DIM10-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	33.9	28.6	24.8	17.5	10.4	5.4	3.0	0.5	0.0	0.0
115°	37.2	33.9	26.9	19.7	12.6	6.5	3.3	0.6	0.0	0.0
117.5°	42.1	37.3	31.0	23.0	16.0	8.0	4.5	0.9	0.1	0.1
120°	44.7	41.0	35.1	27.5	18.4	12.0	5.8	2.0	1.0	0.8
122.5°	45.7	42.5	37.6	30.9	19.9	14.2	9.5	3.5	2.5	2.4
125°	47.3	43.8	39.9	33.9	22.9	16.5	12.6	8.3	6.7	6.1
127.5°	49.9	46.8	41.7	36.3	29.2	18.9	14.8	10.6	9.5	9.2
130°	49.7	47.6	40.5	38.4	32.9	22.7	15.7	12.7	11.2	11.5
132.5°	50.4	45.4	44.7	40.0	34.8	29.5	20.1	16.2	14.2	13.7
135°	51.0	49.4	44.5	41.7	36.1	33.1	25.9	19.0	16.7	17.1
137.5°	52.2	50.0	46.6	43.4	38.5	35.6	31.5	27.9	25.7	25.3
140°	51.9	50.3	46.6	45.7	40.4	37.7	32.5	31.6	29.3	32.2
142.5°	54.3	50.8	48.1	44.9	40.9	39.5	35.1	34.0	33.4	33.2
145°	53.8	50.2	48.2	46.4	40.6	40.9	37.7	35.8	36.0	35.3
147.5°	51.7	48.8	46.4	46.9	43.0	42.0	39.0	38.5	35.5	36.8
150°	54.5	49.9	45.4	46.8	44.2	42.8	40.0	39.0	36.8	38.2
152.5°	49.9	47.7	47.2	45.0	42.7	41.6	40.0	39.6	37.9	40.8
155°	49.7	47.2	46.6	46.2	42.7	42.5	41.2	40.6	40.4	41.5
157.5°	47.8	47.5	45.6	45.7	44.0	42.7	41.5	41.1	39.9	42.0
160°	48.9	46.2	45.6	45.2	43.8	43.9	41.8	41.6	40.6	42.1
162.5°	47.0	45.8	45.0	44.7	43.6	42.2	41.9	42.1	42.0	42.4
165°	46.4	44.9	44.9	44.2	43.3	43.7	42.0	42.4	42.2	42.9
167.5°	44.3	44.4	43.3	43.8	43.0	41.3	40.8	42.6	42.4	42.4
170°	45.1	43.8	43.0	42.2	44.5	42.1	42.2	42.8	42.4	43.4
172.5°	44.6	43.5	42.8	43.5	44.5	43.6	42.3	44.5	42.6	42.0
175°	44.3	43.6	42.8	43.3	43.0	42.9	43.2	43.6	43.1	43.7
177.5°	44.2	43.7	42.9	43.7	43.3	41.5	42.7	45.2	43.5	42.0
180°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7

(END OF REPORT)