

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P394838

Luminaire Tested: **303-A1-LEDB2-TSAM-UNV-T2-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394838
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-A1-LEDB2-TSAM-UNV-T2-DIM10
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, TWO LIGHTBARS, TYPE 2
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

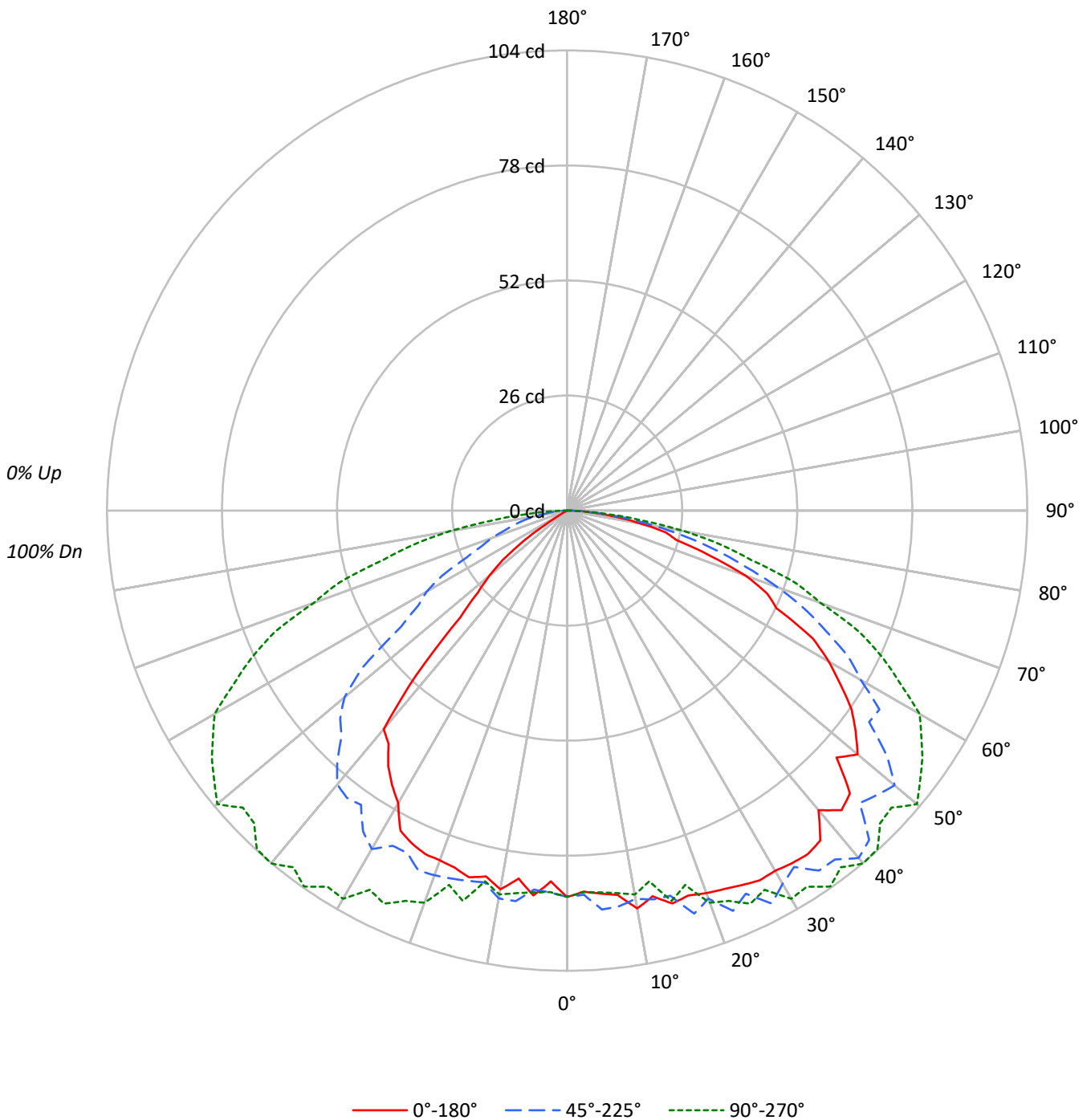
Lumens per Lamp: N/A
Luminaire Lumens: 346.5 lumens
Efficiency: N/A
Efficacy: 28.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.77 / 1.7
Luminous Opening: Rectangular (W 0.38' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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: 24 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	37	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	62	48	39	33	61	47	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28	26
9	54	40	31	26	52	39	31	26	38	31	25	37	30	25	36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6014	6014	6014
5°	6009	5989	6037
10°	6387	6163	6079
15°	6554	6512	6119
20°	6745	6913	6165
25°	7100	7449	6309
30°	7477	8058	6077
35°	7973	8721	5929
40°	7950	9362	5800
45°	8807	9743	3322
50°	9185	11060	2454
55°	9428	11770	1453
60°	9410	12676	220
65°	8509	12829	0
70°	8621	12267	0
75°	6761	11445	0
80°	6705	10672	0
85°	4901	7272	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	2.4
10°-20°	25.4	7.3
20°-30°	42.6	12.3
30°-40°	58.1	16.8
40°-50°	65.3	18.8
50°-60°	62.3	18.0
60°-70°	48.9	14.1
70°-80°	28.4	8.2
80°-90°	7.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	76.4	22.1
0°-40°	134.5	38.8
0°-60°	262.1	75.6
0°-90°	346.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	346.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	87	90	87	86	87	8
15°	92	90	91	87	86	26
25°	93	96	98	85	83	43
35°	95	99	104	81	70	59
45°	90	94	100	72	34	68
55°	78	83	98	46	12	70
65°	52	65	79	25	0	54
75°	25	35	43	12	0	30
85°	6	7	9	3	0	8
90°	0	0	0	0	0	



TEST NUMBER: P394838

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	86.2	91.0	89.9	87.8	86.0	86.9	87.5	90.0	86.5	87.5	86.3
5°	86.9	86.4	88.7	85.2	86.8	90.5	82.3	86.1	87.0	87.8	86.6
7.5°	87.6	88.6	89.2	91.6	86.4	90.2	89.3	89.7	92.7	88.5	87.2
10°	91.3	93.7	90.5	84.0	87.3	89.1	90.5	89.9	90.4	89.4	88.1
12.5°	89.3	90.2	91.5	92.5	89.9	90.0	89.0	90.2	98.0	90.3	85.8
15°	91.9	98.6	92.4	91.0	91.0	90.1	93.0	92.1	92.2	91.6	91.3
17.5°	91.2	93.6	93.5	92.0	89.6	95.5	94.5	93.2	100.2	93.2	88.7
20°	92.0	94.6	94.5	93.0	93.5	93.3	90.2	94.6	95.2	91.9	94.3
22.5°	92.6	97.8	94.3	87.3	94.5	97.9	97.1	97.1	96.7	96.4	95.5
25°	93.4	95.7	94.6	91.2	89.3	95.5	96.1	100.3	98.6	98.4	98.0
27.5°	94.2	95.8	96.0	94.6	96.8	100.1	100.3	98.7	100.4	100.0	96.6
30°	94.0	96.1	96.4	95.7	90.7	97.4	99.6	100.6	101.0	101.3	101.3
32.5°	94.5	99.8	97.7	93.1	95.1	95.5	100.9	104.0	104.7	102.8	100.8
35°	94.8	96.1	97.0	93.3	99.3	99.3	102.2	102.4	105.0	103.5	103.7
37.5°	94.0	95.5	94.1	96.6	95.7	99.4	104.3	102.4	103.8	105.4	101.6
40°	88.4	96.6	93.0	93.2	95.4	102.5	104.1	105.8	105.5	103.1	104.1
42.5°	91.8	94.6	93.9	94.1	94.2	101.0	102.2	105.2	103.3	105.7	103.8
45°	90.4	93.0	92.4	92.8	96.4	93.5	102.5	100.9	103.2	103.3	100.0
47.5°	82.6	93.2	90.6	91.4	94.6	95.1	101.2	100.4	105.4	103.4	99.4
50°	85.7	90.2	84.8	88.9	92.9	96.6	99.5	101.8	101.6	99.5	103.2
52.5°	82.2	82.2	84.3	82.6	87.8	91.1	97.0	96.3	100.6	103.7	100.5
55°	78.5	77.6	80.3	72.7	84.0	83.3	93.8	100.8	101.5	92.8	98.0
57.5°	73.3	75.3	76.8	76.9	78.0	83.7	89.4	93.8	95.5	94.8	94.9
60°	68.3	67.5	71.3	69.2	74.5	76.7	87.5	86.8	91.3	91.2	92.0
62.5°	62.6	61.6	63.6	66.0	69.5	71.7	81.1	81.4	86.0	88.4	85.0
65°	52.2	55.7	57.5	59.0	63.0	64.6	72.1	73.3	77.5	78.9	78.7
67.5°	48.9	48.5	50.7	51.1	55.0	58.2	68.1	66.8	70.3	74.2	71.4
70°	42.8	41.9	43.7	44.5	48.3	50.6	55.7	58.3	61.7	63.6	60.9
72.5°	33.9	34.9	37.9	38.3	40.3	42.4	50.2	49.6	55.1	56.2	54.0
75°	25.4	28.4	30.3	30.4	32.8	35.1	40.8	42.2	46.7	44.9	43.0
77.5°	22.9	22.2	23.7	24.5	26.0	27.8	30.9	32.2	37.1	35.5	35.6
80°	16.9	16.3	17.4	17.5	19.2	20.3	22.3	23.8	26.3	26.0	26.9
82.5°	11.3	11.2	11.7	11.9	12.9	13.8	15.1	16.1	17.3	17.6	17.2
85°	6.2	6.3	7.0	7.0	7.1	7.4	8.1	8.9	9.2	9.5	9.2
87.5°	3.1	3.2	3.2	3.0	3.0	2.9	2.9	3.1	3.5	3.3	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	88.5	87.4	85.7	87.3	86.4	82.9	85.4	90.4	87.0	83.9
5°	88.6	87.3	85.5	86.7	86.0	85.8	86.4	87.2	86.2	87.3
7.5°	89.3	87.0	85.7	86.9	89.0	87.3	84.5	89.0	85.1	83.9
10°	90.1	87.6	86.1	84.4	89.0	84.0	84.4	85.6	84.8	86.9
12.5°	88.7	88.7	86.6	87.5	86.1	82.6	81.5	85.1	84.7	84.7
15°	92.7	89.9	89.7	88.4	86.6	87.3	84.0	84.6	84.3	85.8
17.5°	94.1	91.5	89.9	89.4	87.2	84.5	83.8	84.0	83.9	84.6
20°	97.8	92.3	91.2	90.4	87.7	87.8	83.6	83.3	81.1	84.1
22.5°	95.5	95.1	91.3	91.3	88.0	85.3	83.0	82.2	79.7	84.0
25°	99.4	94.3	93.2	92.3	85.4	85.1	82.3	81.2	80.8	83.0
27.5°	99.7	95.5	94.3	89.9	85.4	83.3	79.9	79.1	75.7	81.6
30°	108.9	99.7	90.7	93.4	88.3	85.6	79.9	78.0	73.5	76.4
32.5°	103.5	97.7	92.7	93.7	85.9	83.9	77.9	76.9	70.9	73.6
35°	107.6	100.3	96.4	92.7	81.2	81.8	75.3	71.7	72.0	70.5
37.5°	108.5	101.6	96.1	89.8	81.8	79.0	70.3	68.0	66.8	66.3
40°	103.7	100.5	93.2	91.4	80.8	75.4	64.8	63.2	58.6	64.5
42.5°	104.3	99.9	93.1	86.9	76.9	71.2	63.1	55.7	51.3	50.6
45°	101.9	98.7	89.0	83.4	72.1	66.2	51.7	37.9	33.4	34.1
47.5°	100.8	90.7	89.3	79.8	69.6	58.9	40.1	32.4	28.4	27.3
50°	99.4	95.1	80.9	76.7	65.7	45.3	31.3	25.4	22.4	22.9
52.5°	99.8	93.5	83.3	72.6	58.3	37.7	29.6	21.2	19.0	18.4
55°	94.6	87.5	79.7	67.8	45.8	33.0	25.2	16.6	13.3	12.1
57.5°	91.3	84.9	75.1	61.7	39.8	28.4	18.9	6.9	4.9	4.8
60°	89.3	81.9	70.1	54.9	36.7	23.9	11.5	3.9	2.0	1.6
62.5°	84.0	74.5	61.8	45.9	31.9	16.0	8.8	1.7	0.0	0.0
65°	74.4	67.8	53.7	39.2	25.0	13.0	6.5	1.1	0.0	0.0
67.5°	67.7	57.1	49.6	34.9	20.7	10.8	5.9	1.0	0.0	0.0
70°	59.3	55.4	43.0	29.8	18.1	9.0	4.8	0.8	0.0	0.0
72.5°	50.9	45.8	37.9	25.6	14.7	7.5	3.9	0.8	0.0	0.0
75°	41.5	38.8	30.0	20.0	12.3	6.3	3.2	0.7	0.0	0.0
77.5°	31.9	30.1	24.3	16.5	9.8	5.0	2.6	0.5	0.0	0.0
80°	25.3	22.4	17.2	11.3	7.1	3.6	1.8	0.4	0.0	0.0
82.5°	16.6	14.2	11.6	8.0	4.8	2.3	1.3	0.2	0.0	0.0
85°	8.7	7.7	6.5	4.2	2.8	1.4	0.7	0.2	0.0	0.0
87.5°	3.2	2.6	2.2	1.5	1.0	0.5	0.2	0.1	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

(END OF REPORT)