

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: P394896

Luminaire Tested: **303-A1-LEDB2-TSAM-UNV-T4-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394896
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-A1-LEDB2-TSAM-UNV-T4-DIM10
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, TWO LIGHTBARS, TYPE 4
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

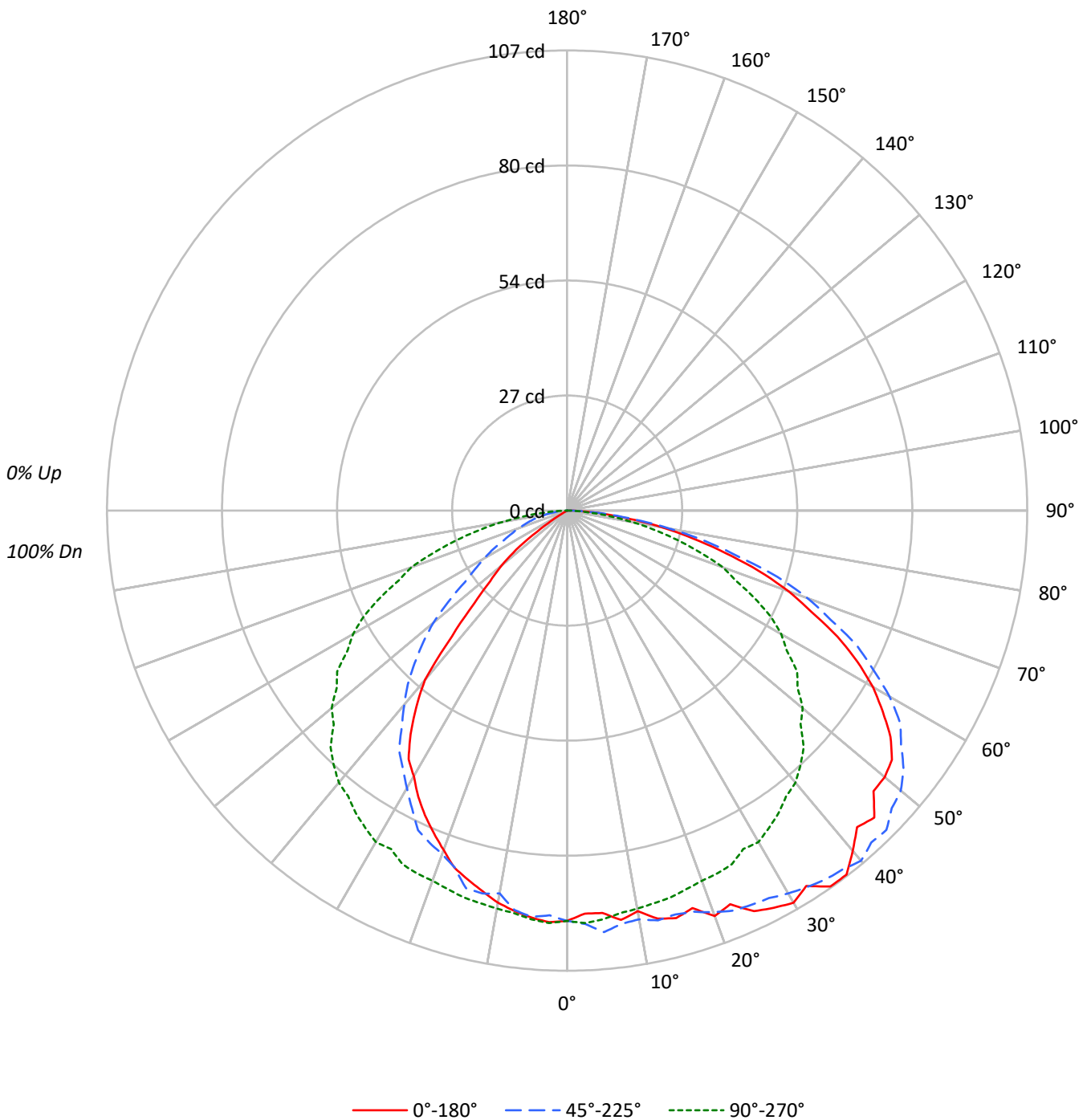
Lumens per Lamp: N/A
Luminaire Lumens: 316.5 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.39 / 1.52
Luminous Opening: Rectangular (W 0.38' x L: 0.42' x H: 0')
CIE Type: Direct

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: 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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6572	6572	6572
5°	6493	6597	6570
10°	6618	6576	6478
15°	6997	6640	6340
20°	7353	6715	6158
25°	7814	6894	5944
30°	8376	7080	5672
35°	8973	7216	5340
40°	9290	7428	4622
45°	9840	7580	2971
50°	10332	7663	2133
55°	11026	7843	1021
60°	11312	7922	28
65°	11313	7824	0
70°	11018	7755	0
75°	10141	7080	0
80°	8887	6110	0
85°	6402	4110	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	2.9
10°-20°	26.5	8.4
20°-30°	42.0	13.3
30°-40°	53.8	17.0
40°-50°	57.7	18.2
50°-60°	53.5	16.9
60°-70°	42.6	13.4
70°-80°	25.2	8.0
80°-90°	6.2	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°	77.5	24.5
0°-40°	131.3	41.5
0°-60°	242.6	76.6
0°-90°	316.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	95	95	95	95	95	
5°	94	98	95	95	95	9
15°	98	97	93	91	89	28
25°	103	101	91	82	78	47
35°	107	105	86	68	64	66
45°	101	105	78	50	30	77
55°	92	95	65	29	8	81
65°	69	74	48	16	0	68
75°	38	41	27	8	0	40
85°	8	9	5	2	0	10
90°	0	0	0	0	0	



TEST NUMBER: P394896

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
2.5°	93.8	95.7	95.6	94.8	94.2	96.2	94.1	96.1	95.5	95.4	96.0
5°	93.9	97.2	96.1	96.8	95.4	98.4	95.5	96.5	93.4	96.0	95.4
7.5°	96.0	97.4	96.4	97.4	94.6	96.9	95.7	96.6	96.8	95.3	94.4
10°	94.6	97.9	97.0	96.4	96.1	96.5	94.9	96.3	96.7	95.1	94.0
12.5°	97.2	98.7	97.4	98.2	95.3	97.6	96.3	96.4	95.4	94.7	93.5
15°	98.1	98.5	98.6	99.3	96.9	97.2	96.7	96.5	95.5	94.2	93.1
17.5°	96.9	100.4	99.2	99.0	98.2	97.8	97.2	96.7	96.4	94.3	92.3
20°	100.3	101.5	100.6	100.0	98.6	99.4	97.8	97.3	94.4	93.3	91.6
22.5°	99.1	101.5	101.5	101.8	100.4	100.7	97.8	97.7	95.0	92.6	91.3
25°	102.8	103.9	102.6	102.4	100.4	101.2	98.1	97.6	94.5	91.9	90.7
27.5°	104.1	105.2	104.6	104.9	103.1	101.6	100.1	99.3	94.7	91.5	88.7
30°	105.3	107.1	106.7	105.8	103.7	102.8	101.2	99.6	96.5	90.9	89.0
32.5°	103.5	107.0	105.3	105.9	105.7	103.8	101.4	99.3	96.6	91.4	87.4
35°	106.7	106.1	106.4	107.5	105.8	104.7	103.2	100.5	96.5	90.5	85.8
37.5°	106.7	107.4	105.9	107.7	106.1	105.2	102.4	99.4	95.9	87.9	83.7
40°	103.3	105.2	105.7	107.4	106.9	106.3	103.6	99.8	94.8	86.4	82.6
42.5°	99.8	104.2	103.0	105.9	106.7	104.7	103.1	97.6	93.3	84.5	80.3
45°	101.0	103.8	103.6	105.5	104.6	105.0	102.1	97.3	90.1	83.1	77.8
47.5°	96.6	101.8	100.5	103.7	103.4	102.4	100.5	95.0	88.5	79.1	73.6
50°	96.4	98.2	98.8	100.5	102.0	101.3	97.1	94.7	85.5	75.4	71.5
52.5°	95.2	94.3	95.6	97.3	98.5	98.6	94.2	88.5	82.4	73.7	67.5
55°	91.8	90.9	92.1	93.7	96.6	94.8	92.7	85.8	78.2	68.9	65.3
57.5°	87.0	85.9	86.6	89.7	92.4	91.8	88.8	82.2	76.9	66.3	60.5
60°	82.1	81.3	80.8	84.3	85.8	86.6	83.5	76.7	70.5	61.5	57.5
62.5°	76.1	77.0	77.4	79.0	80.3	80.3	78.7	71.5	65.0	56.9	53.3
65°	69.4	68.6	69.3	73.1	75.0	74.4	73.4	65.8	59.6	52.0	48.0
67.5°	61.4	61.4	63.6	64.9	68.0	66.3	65.3	59.8	52.8	46.7	42.3
70°	54.7	54.4	54.7	57.2	58.6	59.5	57.6	51.7	46.6	41.0	38.5
72.5°	46.8	46.2	46.6	49.2	50.2	51.3	48.8	44.1	40.4	35.1	32.4
75°	38.1	38.2	38.9	39.7	42.0	41.1	40.4	36.6	32.5	28.4	26.6
77.5°	30.0	30.1	30.7	31.9	33.0	33.1	32.4	28.7	25.2	22.3	20.9
80°	22.4	22.1	22.3	23.2	24.5	24.3	23.4	21.1	18.8	16.1	15.4
82.5°	14.5	14.7	14.8	15.6	15.6	15.6	15.4	14.1	12.6	10.5	10.0
85°	8.1	8.3	8.6	8.5	8.8	9.0	8.3	7.5	6.4	5.9	5.2
87.5°	3.7	3.5	3.6	3.3	3.4	3.3	2.9	2.6	2.3	1.9	1.7
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°	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
2.5°	95.5	96.6	95.9	95.0	94.2	95.1	95.2	94.3	94.6	95.8
5°	96.1	94.5	95.5	95.5	94.8	95.2	92.3	94.3	93.8	95.0
7.5°	94.9	95.7	94.6	94.6	93.7	94.2	93.6	93.1	94.4	93.9
10°	94.6	93.9	94.6	93.7	90.4	92.0	91.2	91.8	91.3	92.6
12.5°	93.7	92.6	92.8	92.4	91.2	90.6	91.0	91.3	92.0	90.7
15°	93.1	92.3	91.6	91.7	90.9	89.2	87.2	88.2	87.7	88.9
17.5°	92.2	90.9	90.7	88.7	87.0	88.1	87.3	86.3	85.6	87.1
20°	91.8	90.6	89.1	86.4	85.0	84.8	84.9	84.8	84.2	84.0
22.5°	90.3	88.2	87.0	84.3	83.6	82.3	80.3	81.8	80.3	81.1
25°	89.2	86.7	85.3	82.9	82.0	79.4	79.0	77.0	77.7	78.2
27.5°	88.7	85.9	82.5	79.3	78.1	76.3	76.3	74.4	74.7	75.0
30°	87.0	83.1	81.2	77.5	74.5	73.0	71.9	71.1	71.4	71.3
32.5°	85.5	80.8	77.2	72.7	71.1	69.3	69.0	66.5	68.3	68.6
35°	83.7	78.4	74.1	69.2	68.1	65.4	64.9	63.4	63.1	63.5
37.5°	82.4	75.6	71.1	65.7	63.1	61.8	60.6	58.0	57.2	57.7
40°	79.2	72.5	67.4	62.6	58.9	55.6	55.7	52.8	51.6	51.4
42.5°	78.2	69.3	63.6	58.3	54.9	51.8	49.2	46.0	41.2	39.7
45°	73.7	66.3	58.9	53.5	50.1	46.3	40.9	31.8	30.6	30.5
47.5°	70.6	62.8	55.0	49.8	45.4	40.3	32.0	26.3	24.6	24.3
50°	67.7	58.5	51.2	45.5	40.7	30.9	26.4	21.0	18.8	19.9
52.5°	64.0	55.2	47.7	41.3	34.8	26.1	22.1	17.0	15.0	15.0
55°	60.8	52.2	44.9	37.6	29.0	22.4	17.9	12.3	9.0	8.5
57.5°	57.2	48.7	41.9	33.7	25.4	18.8	13.1	5.9	3.5	3.5
60°	53.1	45.3	37.9	28.7	22.3	15.2	8.5	2.6	0.2	0.2
62.5°	49.5	41.5	34.4	25.7	19.3	10.7	5.6	0.2	0.0	0.0
65°	45.3	37.7	31.0	22.9	16.2	9.0	4.4	0.4	0.0	0.0
67.5°	40.2	33.7	27.6	20.2	13.9	7.7	4.1	0.7	0.0	0.0
70°	35.1	29.6	24.2	17.6	11.9	6.8	3.6	0.7	0.0	0.0
72.5°	30.1	25.1	20.3	14.9	10.0	5.8	3.2	0.7	0.0	0.0
75°	24.4	20.6	16.7	12.3	8.3	4.8	2.6	0.5	0.0	0.0
77.5°	18.9	16.0	13.6	9.7	6.6	3.8	2.0	0.4	0.0	0.0
80°	14.4	11.8	9.7	7.1	4.8	2.7	1.5	0.3	0.0	0.0
82.5°	9.0	7.8	6.5	4.7	3.1	1.8	1.0	0.2	0.0	0.0
85°	5.0	4.2	3.6	2.6	1.9	1.0	0.5	0.1	0.0	0.0
87.5°	1.7	1.5	1.3	1.0	0.7	0.4	0.2	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

(END OF REPORT)