

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: P394895

Luminaire Tested: **303-A1-LEDB1-TSAM-UNV-T4-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394895
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-LEDB1-TSAM-UNV-T4-DIM10
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, ONE LIGHTBAR, TYPE 4
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

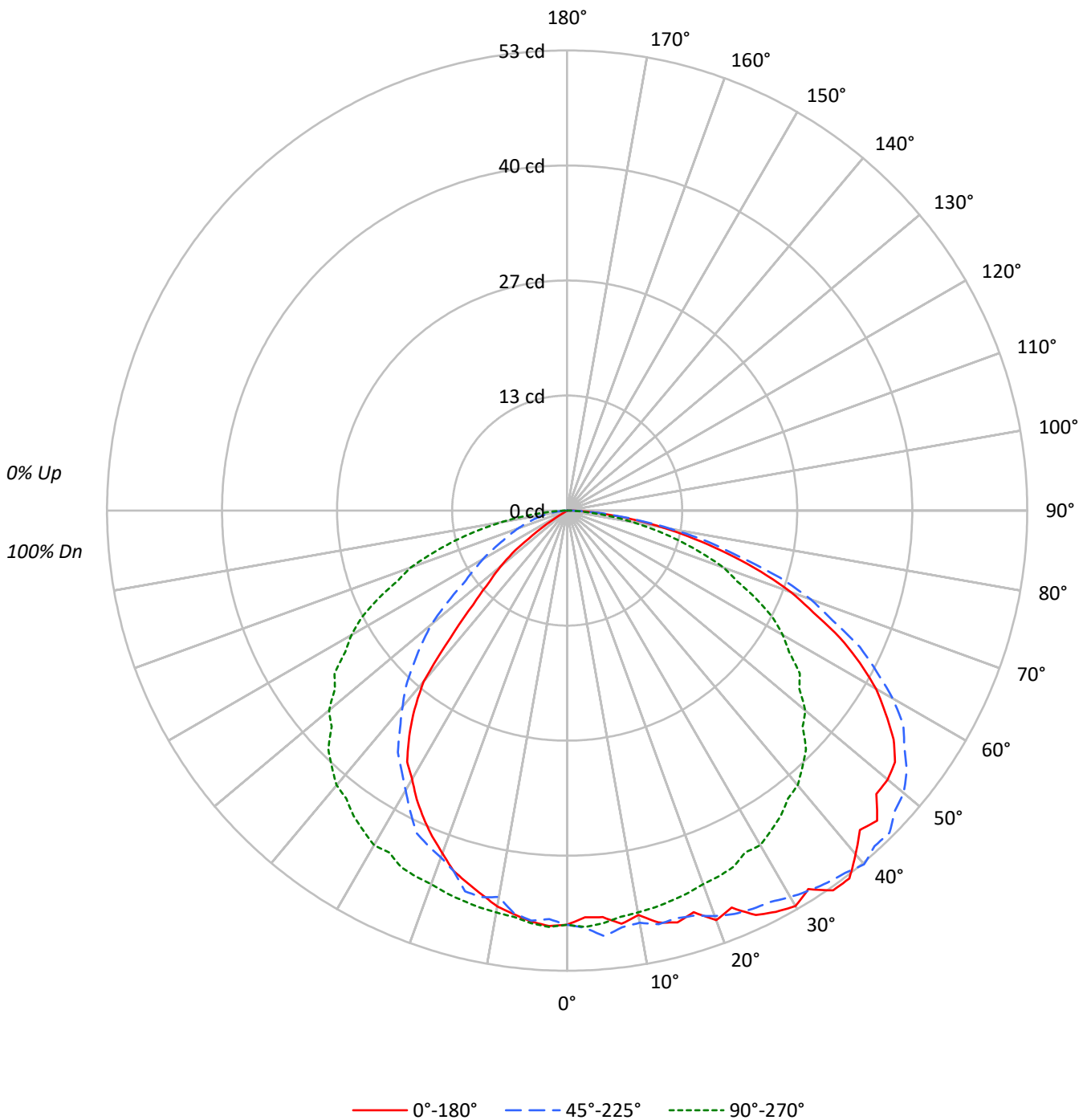
Lumens per Lamp: N/A
Luminaire Lumens: 158.2 lumens
Efficiency: N/A
Efficacy: 24.3 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.39 / 1.52
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: Direct

Input Watts (W): 6.5
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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68					68			
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57					57			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36					36			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	52	38	30	25	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6572	6572	6572
5°	6500	6597	6569
10°	6617	6575	6478
15°	7004	6633	6333
20°	7360	6715	6158
25°	7814	6887	5944
30°	8368	7080	5680
35°	8982	7216	5332
40°	9299	7428	4622
45°	9840	7580	2981
50°	10331	7674	2143
55°	11026	7855	1009
60°	11325	7908	28
65°	11313	7824	0
70°	11038	7734	0
75°	10168	7080	0
80°	8886	6109	0
85°	6323	4110	0



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CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	2.9
10°-20°	13.2	8.4
20°-30°	21.0	13.3
30°-40°	26.9	17.0
40°-50°	28.9	18.2
50°-60°	26.7	16.9
60°-70°	21.3	13.4
70°-80°	12.6	8.0
80°-90°	3.1	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°	38.8	24.5
0°-40°	65.7	41.5
0°-60°	121.3	76.6
0°-90°	158.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	158.2	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	46	45	44	14
25°	51	51	45	41	39	24
35°	53	52	43	34	32	33
45°	50	52	39	25	15	38
55°	46	47	33	14	4	41
65°	35	37	24	8	0	34
75°	19	20	13	4	0	20
85°	4	4	3	1	0	5
90°	0	0	0	0	0	



TEST NUMBER: P394895

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10

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	48.0	47.8	47.7	48.0
5°	47.0	48.6	48.0	48.4	47.7	49.2	47.8	48.2	46.7	48.0	47.7
7.5°	48.0	48.7	48.2	48.7	47.3	48.4	47.9	48.3	48.4	47.6	47.2
10°	47.3	49.0	48.5	48.2	48.1	48.2	47.4	48.2	48.3	47.5	47.0
12.5°	48.6	49.4	48.7	49.1	47.6	48.8	48.2	48.2	47.7	47.3	46.8
15°	49.1	49.2	49.3	49.7	48.5	48.6	48.3	48.2	47.7	47.1	46.5
17.5°	48.5	50.2	49.6	49.5	49.1	48.9	48.6	48.3	48.2	47.2	46.2
20°	50.2	50.7	50.3	50.0	49.3	49.7	48.9	48.6	47.2	46.6	45.8
22.5°	49.5	50.8	50.7	50.9	50.2	50.3	48.9	48.8	47.5	46.3	45.6
25°	51.4	52.0	51.3	51.2	50.2	50.6	49.1	48.8	47.3	45.9	45.3
27.5°	52.1	52.6	52.3	52.5	51.6	50.8	50.1	49.7	47.3	45.7	44.4
30°	52.6	53.6	53.3	52.9	51.8	51.4	50.6	49.8	48.2	45.4	44.5
32.5°	51.7	53.5	52.6	53.0	52.9	51.9	50.7	49.7	48.3	45.7	43.7
35°	53.4	53.1	53.2	53.7	52.9	52.3	51.6	50.2	48.2	45.3	42.9
37.5°	53.4	53.7	52.9	53.9	53.0	52.6	51.2	49.7	47.9	43.9	41.8
40°	51.7	52.6	52.9	53.7	53.5	53.2	51.8	49.9	47.4	43.2	41.3
42.5°	49.9	52.1	51.5	52.9	53.3	52.4	51.6	48.8	46.6	42.2	40.1
45°	50.5	51.9	51.8	52.8	52.3	52.5	51.0	48.6	45.0	41.5	38.9
47.5°	48.3	50.9	50.2	51.9	51.7	51.2	50.2	47.5	44.3	39.5	36.8
50°	48.2	49.1	49.4	50.2	51.0	50.6	48.5	47.3	42.7	37.7	35.8
52.5°	47.6	47.1	47.8	48.7	49.2	49.3	47.1	44.2	41.2	36.8	33.7
55°	45.9	45.5	46.1	46.9	48.3	47.4	46.4	42.9	39.1	34.5	32.7
57.5°	43.5	43.0	43.3	44.8	46.2	45.9	44.4	41.1	38.4	33.2	30.3
60°	41.1	40.6	40.4	42.2	42.9	43.3	41.8	38.3	35.2	30.7	28.7
62.5°	38.0	38.5	38.7	39.5	40.2	40.2	39.4	35.7	32.5	28.5	26.7
65°	34.7	34.3	34.6	36.6	37.5	37.2	36.7	32.9	29.8	26.0	24.0
67.5°	30.7	30.7	31.8	32.5	34.0	33.1	32.6	29.9	26.4	23.3	21.1
70°	27.4	27.2	27.3	28.6	29.3	29.8	28.8	25.8	23.3	20.5	19.2
72.5°	23.4	23.1	23.3	24.6	25.1	25.7	24.4	22.1	20.2	17.6	16.2
75°	19.1	19.1	19.4	19.9	21.0	20.5	20.2	18.3	16.2	14.2	13.3
77.5°	15.0	15.0	15.3	16.0	16.5	16.6	16.2	14.4	12.6	11.1	10.4
80°	11.2	11.0	11.1	11.6	12.2	12.2	11.7	10.6	9.4	8.0	7.7
82.5°	7.3	7.3	7.4	7.8	7.8	7.8	7.7	7.0	6.3	5.3	5.0
85°	4.0	4.1	4.3	4.2	4.4	4.5	4.2	3.8	3.2	2.9	2.6
87.5°	1.9	1.8	1.8	1.7	1.7	1.6	1.5	1.3	1.1	0.9	0.8
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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CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10

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°	47.7	48.3	47.9	47.5	47.1	47.5	47.6	47.1	47.3	47.9
5°	48.0	47.2	47.7	47.8	47.4	47.6	46.2	47.2	46.9	47.5
7.5°	47.4	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	46.8	45.2	46.0	45.6	45.9	45.6	46.3
12.5°	46.8	46.3	46.4	46.2	45.6	45.3	45.5	45.6	46.0	45.3
15°	46.5	46.2	45.8	45.9	45.4	44.6	43.6	44.1	43.8	44.4
17.5°	46.1	45.5	45.3	44.4	43.5	44.1	43.6	43.2	42.8	43.5
20°	45.9	45.3	44.6	43.2	42.5	42.4	42.5	42.4	42.1	42.0
22.5°	45.1	44.1	43.5	42.2	41.8	41.1	40.2	40.9	40.1	40.6
25°	44.6	43.3	42.7	41.5	41.0	39.7	39.5	38.5	38.9	39.1
27.5°	44.3	43.0	41.2	39.7	39.1	38.1	38.1	37.2	37.4	37.5
30°	43.5	41.5	40.6	38.7	37.2	36.5	36.0	35.6	35.7	35.7
32.5°	42.7	40.4	38.6	36.4	35.5	34.7	34.5	33.3	34.2	34.3
35°	41.9	39.2	37.1	34.6	34.0	32.7	32.5	31.7	31.5	31.7
37.5°	41.2	37.8	35.6	32.9	31.6	30.9	30.3	29.0	28.6	28.9
40°	39.6	36.3	33.7	31.3	29.5	27.8	27.8	26.4	25.8	25.7
42.5°	39.1	34.7	31.8	29.1	27.5	25.9	24.6	23.0	20.6	19.9
45°	36.8	33.2	29.5	26.7	25.0	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	12.3	12.1
50°	33.9	29.3	25.6	22.8	20.4	15.4	13.2	10.5	9.4	10.0
52.5°	32.0	27.6	23.9	20.6	17.4	13.0	11.1	8.5	7.5	7.5
55°	30.4	26.1	22.5	18.8	14.5	11.2	9.0	6.2	4.5	4.2
57.5°	28.6	24.3	20.9	16.9	12.7	9.4	6.6	2.9	1.7	1.8
60°	26.5	22.6	18.9	14.3	11.2	7.6	4.2	1.3	0.1	0.1
62.5°	24.8	20.8	17.2	12.8	9.6	5.4	2.8	0.1	0.0	0.0
65°	22.7	18.8	15.5	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	3.8	2.1	0.3	0.0	0.0
70°	17.5	14.8	12.1	8.8	6.0	3.4	1.8	0.4	0.0	0.0
72.5°	15.0	12.5	10.1	7.4	5.0	2.9	1.6	0.3	0.0	0.0
75°	12.2	10.3	8.4	6.2	4.1	2.4	1.3	0.3	0.0	0.0
77.5°	9.5	8.0	6.8	4.8	3.3	1.9	1.0	0.2	0.0	0.0
80°	7.2	5.9	4.8	3.5	2.4	1.3	0.7	0.1	0.0	0.0
82.5°	4.5	3.9	3.2	2.3	1.6	0.9	0.5	0.1	0.0	0.0
85°	2.5	2.1	1.8	1.3	0.9	0.5	0.3	0.1	0.0	0.0
87.5°	0.9	0.7	0.6	0.5	0.3	0.2	0.1	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)