

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: PORTFOLIO

Report Number: P496174

Luminaire Tested: **LDA2B109035R30D010 2LBDLC1MMS-30DEG TILT**

Issue Date: 3/8/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P496174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B109035R30D010 2LBDLC1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

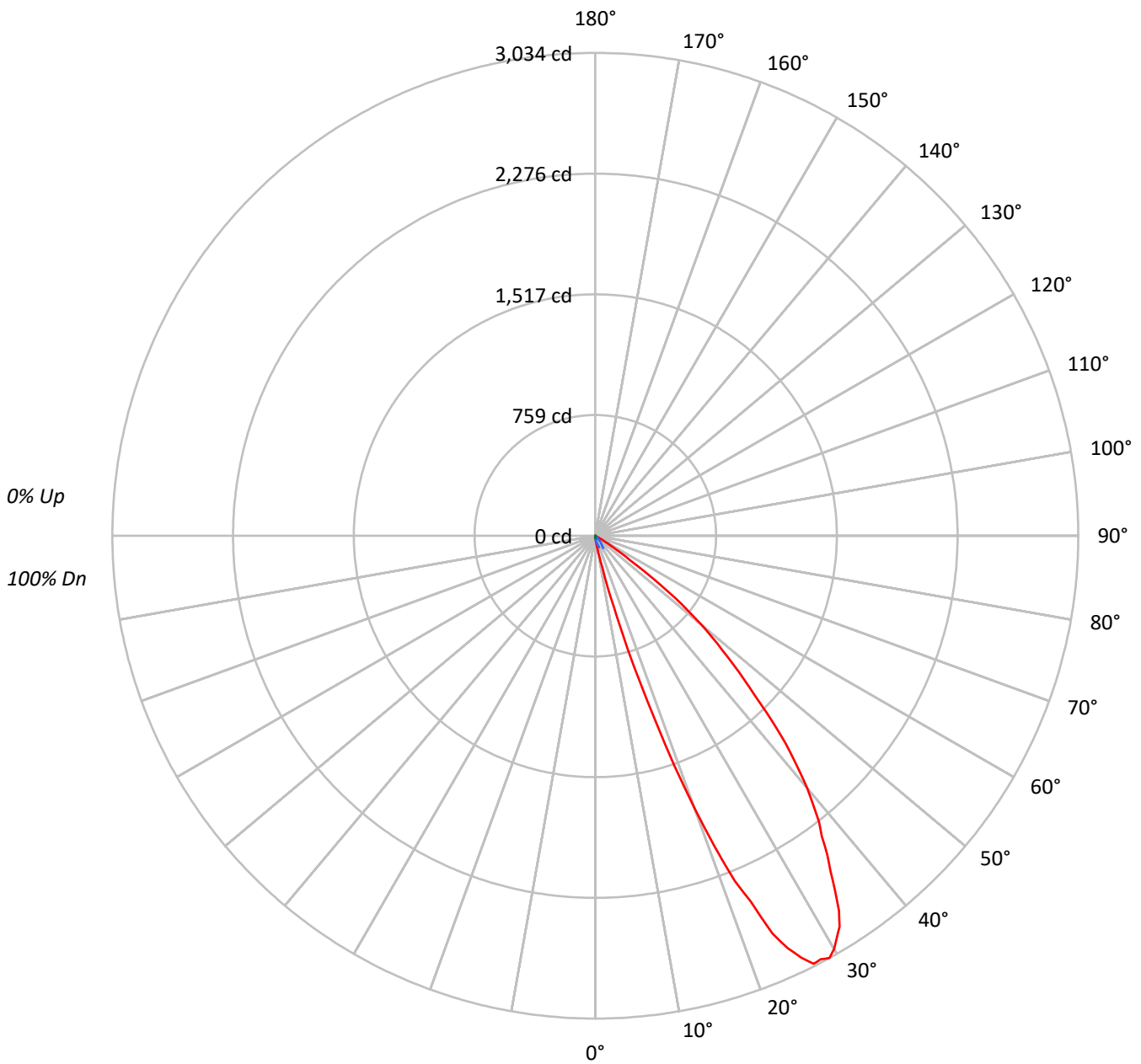
Lumens per Lamp: N/A
Luminaire Lumens: 610.2 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6759	6759	6759
5°	14659	6141	4358
10°	44086	5310	2906
15°	267539	3831	2247
20°	957855	2100	945
25°	1556665	708	0
30°	1708429	228	0
35°	1552566	0	0
40°	1332515	0	0
45°	987691	0	0
50°	667909	0	0
55°	225617	344	0
60°	32266	888	0
65°	2568	1051	0
70°	0	1298	0
75°	0	2478	0
80°	0	2557	0
85°	0	5095	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.3
10°-20°	31.4	5.2
20°-30°	178.4	29.2
30°-40°	232.5	38.1
40°-50°	136.2	22.3
50°-60°	27.5	4.5
60°-70°	1.0	0.2
70°-80°	0.7	0.1
80°-90°	0.6	0.1
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°	211.7	34.7
0°-40°	444.2	72.8
0°-60°	607.8	99.6
0°-90°	610.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	610.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	30	21	12	10	9	5
15°	524	60	8	5	4	222
25°	2860	100	1	1	0	1265
35°	2578	73	0	0	0	1605
45°	1416	18	0	0	0	1106
55°	262	2	0	0	0	306
65°	2	0	1	1	0	6
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	18.6	17.3	16.4	14.2	12.8	11.9	11.5	11.1	10.6
5°	29.6	27.4	21.2	15.5	12.4	10.6	9.7	8.8	8.8
7.5°	50.9	41.1	27.9	16.4	11.5	9.3	8.4	7.1	6.6
10°	88.0	68.6	38.0	17.3	10.6	8.4	6.6	6.2	5.8
12.5°	206.6	125.2	48.2	17.3	9.3	7.1	5.8	5.3	4.9
15°	523.8	255.3	59.7	16.4	7.5	5.3	4.9	4.4	4.4
17.5°	1086.5	524.2	72.6	15.0	6.2	4.0	3.5	3.1	3.1
20°	1824.4	939.6	84.9	12.8	4.0	2.7	2.2	1.8	1.8
21°	2096.0	1090.5	91.1	11.9	3.5	2.2	1.8	1.8	1.3
22°	2340.2	1228.9	94.7	11.5	2.7	1.8	1.8	1.3	1.3
23°	2497.7	1404.6	97.8	10.2	2.2	1.3	1.3	0.9	0.4
24°	2735.2	1542.1	99.1	9.3	1.8	1.3	0.9	0.4	0.4
25°	2859.6	1666.9	100.4	8.4	1.3	1.3	0.9	0.4	0.0
26°	2948.9	1765.5	105.3	8.0	1.3	0.9	0.9	0.4	0.0
27°	3018.8	1828.4	107.9	7.1	0.9	0.9	0.9	0.0	0.0
28°	3014.8	1873.9	105.7	6.2	0.9	0.9	0.4	0.0	0.0
29°	3033.8	1904.9	104.4	5.3	0.4	0.4	0.4	0.0	0.0
30°	2998.9	1907.5	99.5	4.9	0.4	0.4	0.4	0.0	0.0
31°	2945.8	1875.3	97.8	4.4	0.0	0.4	0.4	0.0	0.0
32°	2895.8	1860.7	92.0	3.5	0.0	0.4	0.4	0.0	0.0
33°	2810.0	1795.2	86.3	3.1	0.0	0.4	0.0	0.0	0.0
34°	2695.0	1731.0	81.0	2.7	0.0	0.4	0.0	0.0	0.0
35°	2577.8	1678.0	73.4	2.7	0.0	0.4	0.0	0.0	0.0
36°	2480.4	1581.5	68.1	2.2	0.0	0.4	0.0	0.0	0.0
37°	2362.3	1498.8	61.0	1.8	0.0	0.0	0.0	0.0	0.0
38°	2281.8	1382.4	55.7	1.8	0.0	0.0	0.0	0.0	0.0
39°	2173.4	1284.2	49.1	1.3	0.0	0.0	0.0	0.0	0.0
40°	2069.0	1182.5	42.5	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	1769.5	912.2	29.2	0.4	0.0	0.0	0.0	0.0	0.0
45°	1415.6	668.9	18.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1124.1	451.7	11.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	870.2	232.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	578.6	98.7	4.0	0.0	0.0	0.4	0.0	0.0	0.0
55°	262.3	51.3	1.8	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	105.7	22.1	0.9	0.4	0.4	0.4	0.4	0.0	0.0
60°	32.7	6.2	0.4	0.4	0.9	0.9	0.4	0.0	0.0
62.5°	6.6	1.3	0.4	0.9	0.9	0.9	0.4	0.0	0.0
65°	2.2	0.4	0.4	0.9	0.9	0.9	0.9	0.0	0.0
67.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.4	0.0
70°	0.0	0.4	0.9	0.9	0.9	1.3	0.9	0.4	0.0
72.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
75°	0.0	0.4	0.9	0.9	1.3	1.3	0.9	0.4	0.0
77.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
80°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
85°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.0	0.0
87.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)