

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: P493072

Luminaire Tested: **LDA2B059027R70D010 2LBDLC1MW**

Issue Date: 3/9/2021

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: P493072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-81)
Test Lab: INNOVATION CENTER
Issue Date: 3/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059027R70D010 2LBDLC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

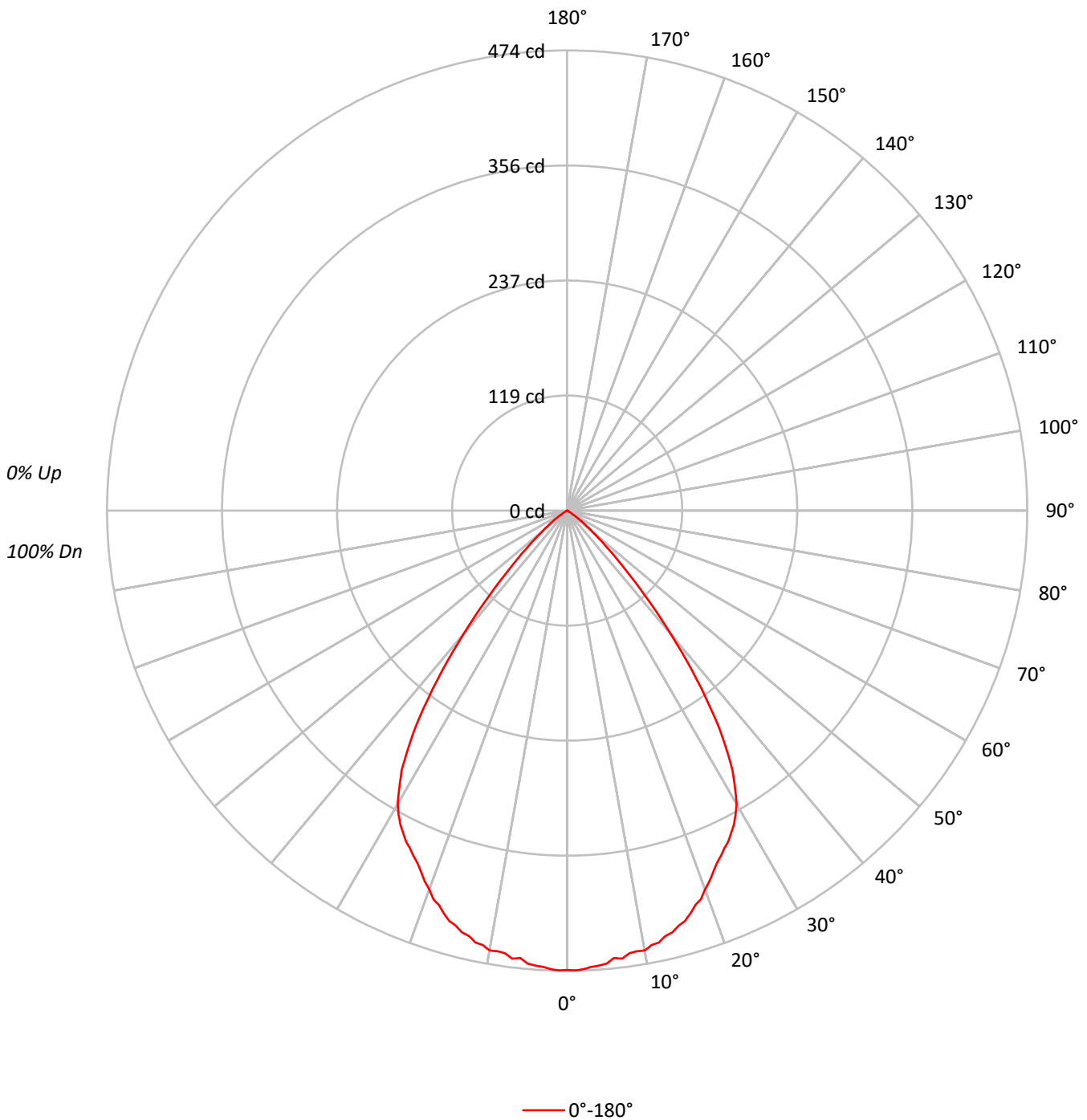
Lumens per Lamp: N/A
Luminaire Lumens: 589.5 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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

TEST NUMBER: P493072

CATALOG NUMBER: LDA2B059027R70D010 2LBDLC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P493072

CATALOG NUMBER: LDA2B059027R70D010 2LBDLC1MW

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	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82		87	84	81		85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		74	71	67	66
6	85	75	68	64	83	74	68	63	72	67	63		71	66	63		70	65	62	61
7	80	70	63	59	78	69	63	58	68	62	58		66	61	58		65	61	57	56
8	75	65	59	54	74	64	58	54	63	58	54		62	57	53		61	57	53	52
9	71	61	54	50	70	60	54	50	59	54	50		58	53	50		57	53	49	48
10	68	57	51	47	66	57	50	46	56	50	46		55	50	46		54	49	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	233409
5°	232023
10°	230498
15°	226218
20°	218043
25°	208764
30°	198877
35°	164062
40°	106653
45°	55748
50°	25943
55°	9462
60°	987
65°	700
70°	433
75°	572
80°	0
85°	0



TEST NUMBER: P493072

CATALOG NUMBER: LDA2B059027R70D010 2LBDLC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	7.5
10°-20°	124.5	21.1
20°-30°	176.6	30.0
30°-40°	165.2	28.0
40°-50°	66.4	11.3
50°-60°	11.6	2.0
60°-70°	0.5	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	345.4	58.6
0°-40°	510.6	86.6
0°-60°	588.7	99.9
0°-90°	589.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	473	
5°	468	44
15°	443	124
25°	384	177
35°	272	165
45°	80	66
55°	11	12
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493072

CATALOG NUMBER: LDA2B059027R70D010 2LBDLC1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	473.1
1°	473.7
2°	472.8
3°	470.8
4°	469.8
5°	468.5
6°	463.3
7°	465.0
8°	460.4
9°	459.5
10°	460.1
11°	455.9
12°	454.9
13°	449.7
14°	447.8
15°	442.9
16°	440.0
17°	434.1
18°	427.3
19°	423.4
20°	415.3
21°	409.1
22.5°	397.8
23°	394.8
24°	389.3
25°	383.5
26°	378.9
27°	372.4
28°	365.9
29°	358.1
30°	349.1
32.5°	317.2
35°	272.4
37.5°	219.5
40°	165.6
42.5°	118.2
45°	79.9
47.5°	52.6
50°	33.8
52.5°	21.1
55°	11.0
57.5°	3.6
60°	1.0
62.5°	0.6
65°	0.6



TEST NUMBER: P493072

CATALOG NUMBER: LDA2B059027R70D010 2LBDLC1MW

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)