

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: P493056

Luminaire Tested: **LDA2B059027R70D010 2LBD1MW**

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: P493056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-79)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059027R70D010 2LBD1MW
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

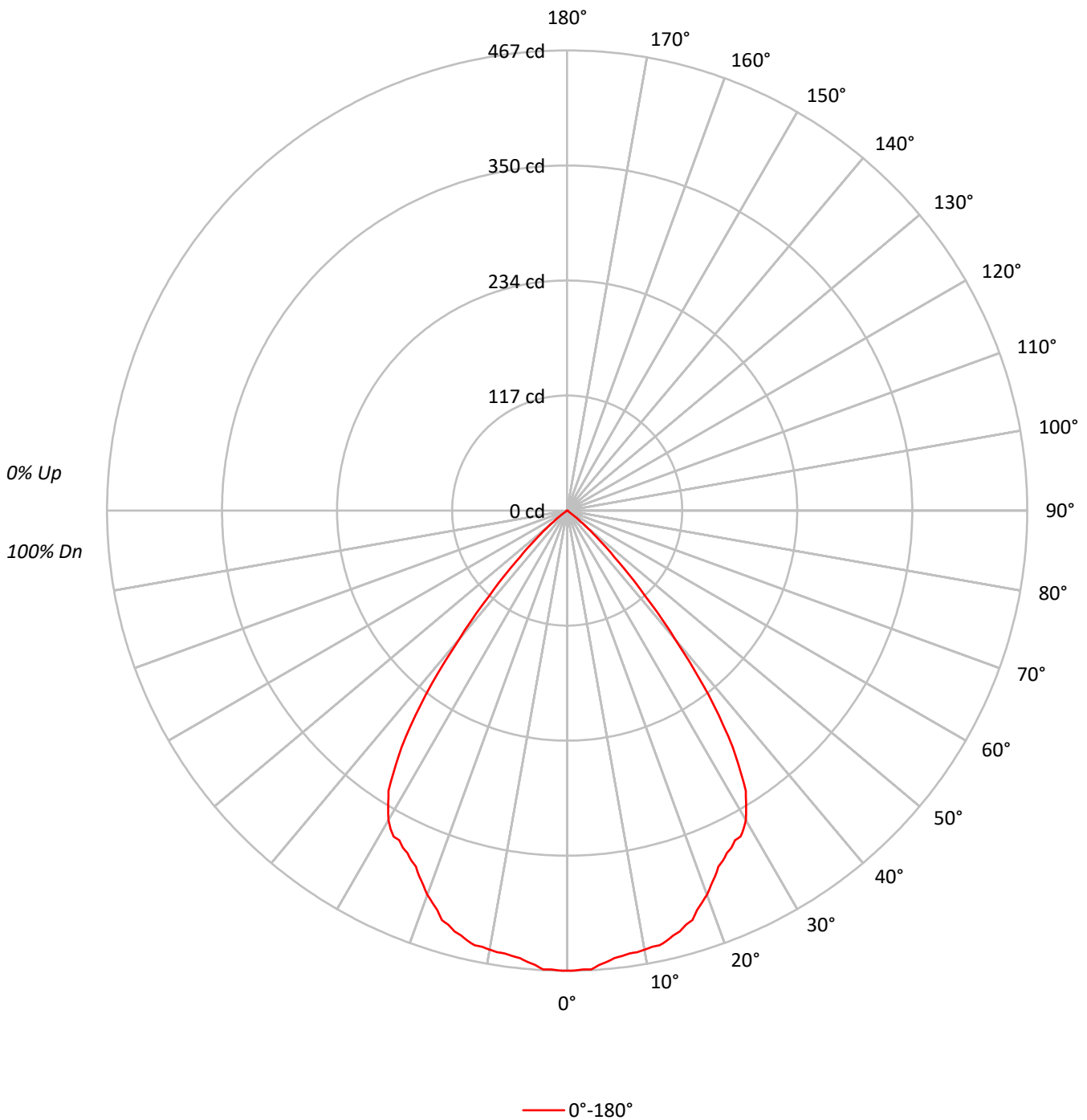
Lumens per Lamp: N/A
Luminaire Lumens: 589.5 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
Input Voltage (V): NR
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: 25 FT

TEST NUMBER: P493056

CATALOG NUMBER: LDA2B059027R70D010 2LBD1MW

Luminous Intensity Polar Plot





TEST NUMBER: P493056

CATALOG NUMBER: LDA2B059027R70D010 2LBD1MW

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	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	82	80	78
4	95	87	81	77	93	86	81	76	84	79	75		82	78	74		80	76	74	72
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	62	61
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66	61	58	56
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61	57	54	52
9	71	61	55	50	70	61	54	50	60	54	50		59	54	50		58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47		55	50	46		54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230351
5°	227813
10°	226690
15°	225861
20°	217833
25°	208818
30°	206739
35°	176529
40°	110195
45°	51003
50°	18498
55°	1290
60°	592
65°	700
70°	433
75°	572
80°	0
85°	0



TEST NUMBER: P493056

CATALOG NUMBER: LDA2B059027R70D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	7.4
10°-20°	123.9	21.0
20°-30°	178.1	30.2
30°-40°	175.6	29.8
40°-50°	62.6	10.6
50°-60°	5.1	0.9
60°-70°	0.5	0.1
70°-80°	0.2	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°	345.6	58.6
0°-40°	521.1	88.4
0°-60°	588.9	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°	467	
5°	460	44
15°	442	124
25°	384	178
35°	293	176
45°	73	63
55°	2	5
65°	1	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493056

CATALOG NUMBER: LDA2B059027R70D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	466.9
1°	466.9
2°	466.0
3°	466.3
4°	462.4
5°	460.0
6°	456.7
7°	455.5
8°	454.0
9°	453.7
10°	452.5
11°	451.0
12°	451.0
13°	448.3
14°	444.6
15°	442.2
16°	437.4
17°	434.7
18°	426.3
19°	420.6
20°	414.9
21°	407.4
22.5°	396.8
23°	392.6
24°	388.7
25°	383.6
26°	380.6
27°	375.5
28°	374.9
29°	369.5
30°	362.9
32.5°	337.3
35°	293.1
37.5°	235.7
40°	171.1
42.5°	116.9
45°	73.1
47.5°	43.6
50°	24.1
52.5°	9.0
55°	1.5
57.5°	0.9
60°	0.6
62.5°	0.6
65°	0.6



TEST NUMBER: P493056

CATALOG NUMBER: LDA2B059027R70D010 2LBD1MW

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)