

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: P493427

Luminaire Tested: **LDA2B059035R45D010 2LBDL1MB**

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: P493427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-42)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059035R45D010 2LBDL1MB  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

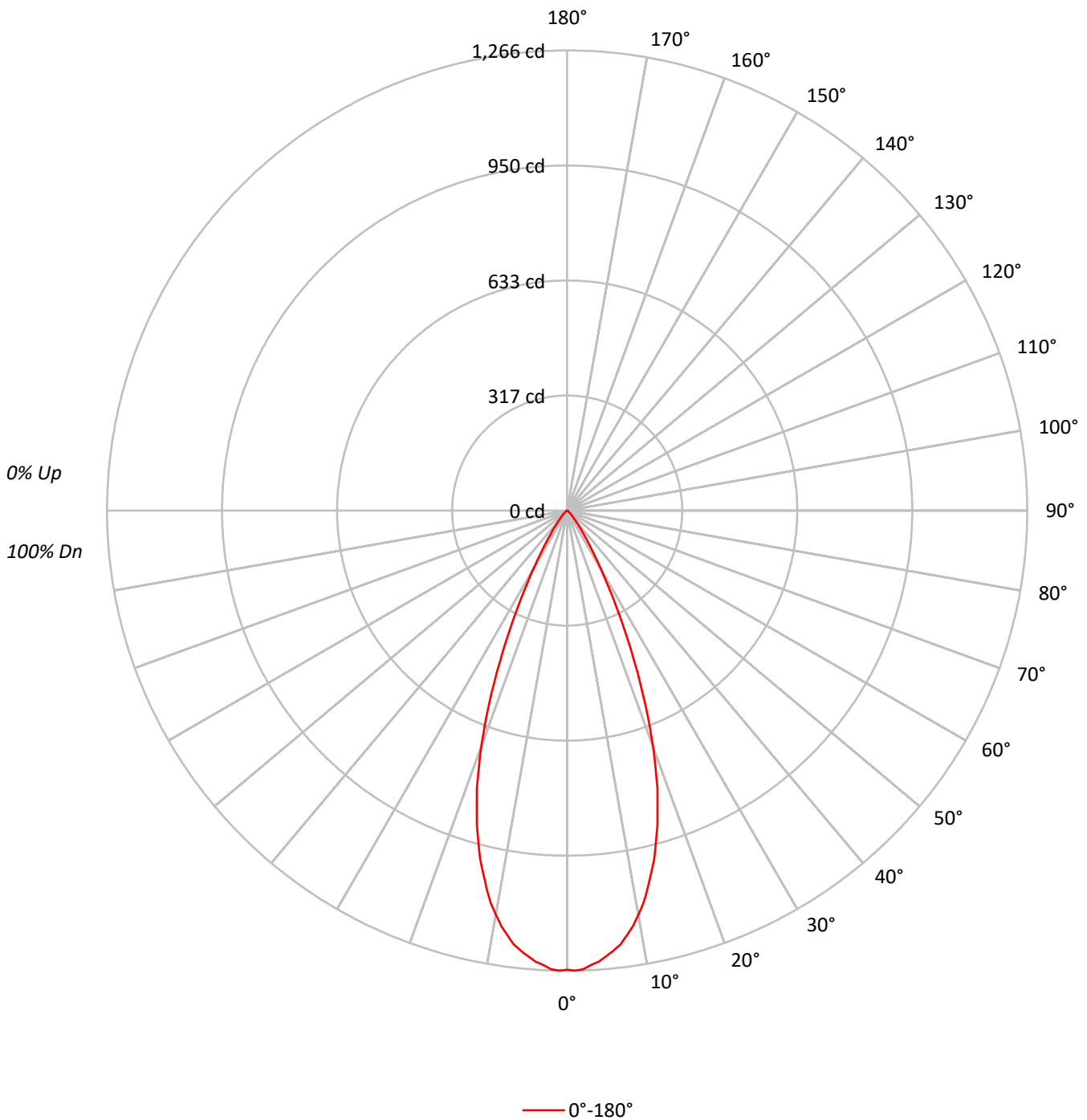
Lumens per Lamp: N/A  
Luminaire Lumens: 628.9 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P493427

CATALOG NUMBER: LDA2B059035R45D010 2LBDL1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P493427

CATALOG NUMBER: LDA2B059035R45D010 2LBDL1MB

**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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	105	102	99	108	104	101	98	101	98	96		98	96	94		95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90		94	91	89		91	89	87	86
4	101	95	90	86	99	94	89	86	91	88	85		90	86	84		88	85	83	82
5	97	90	85	81	95	89	84	81	87	83	80		86	82	80		84	81	79	78
6	93	86	81	77	92	85	80	77	84	79	76		82	79	76		81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73		79	75	72		78	74	72	71
8	86	78	73	70	85	78	73	70	77	72	69		76	72	69		75	71	69	68
9	83	75	70	66	82	74	70	66	74	69	66		73	69	66		72	68	66	65
10	80	72	67	64	79	71	67	64	71	66	63		70	66	63		69	66	63	62

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	623313
5°	609599
10°	565548
15°	482316
20°	363107
25°	218889
30°	105563
35°	47882
40°	22026
45°	11373
50°	5987
55°	2236
60°	691
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P493427

CATALOG NUMBER: LDA2B059035R45D010 2LBDL1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	18.2
10°-20°	257.9	41.0
20°-30°	184.2	29.3
30°-40°	55.2	8.8
40°-50°	13.7	2.2
50°-60°	2.9	0.5
60°-70°	0.4	0.1
70°-80°	0.1	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°	556.5	88.5
0°-40°	611.8	97.3
0°-60°	628.3	99.9
0°-90°	628.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1263	
5°	1231	114
15°	944	258
25°	402	184
35°	80	55
45°	16	14
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493427

CATALOG NUMBER: LDA2B059035R45D010 2LBDL1MB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1263.4
1°	1265.7
2°	1262.8
3°	1252.0
4°	1244.2
5°	1230.9
6°	1217.5
7°	1203.2
8°	1179.7
9°	1157.6
10°	1128.9
11°	1100.3
12°	1064.1
13°	1025.4
14°	989.3
15°	944.3
16°	900.4
17°	850.5
18°	803.3
19°	745.4
20°	691.6
21°	632.0
22.5°	543.1
23°	513.2
24°	454.9
25°	402.1
26°	349.4
27°	301.2
28°	256.3
29°	219.5
30°	185.3
32.5°	121.8
35°	79.5
37.5°	52.1
40°	34.2
42.5°	23.1
45°	16.3
47.5°	11.7
50°	7.8
52.5°	4.9
55°	2.6
57.5°	1.3
60°	0.7
62.5°	0.7
65°	0.3



TEST NUMBER: P493427

CATALOG NUMBER: LDA2B059035R45D010 2LBDL1MB

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)