

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: P493419

Luminaire Tested: **LDA2B059035R45D010 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: P493419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059035R45D010 2LBD1MW  
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**

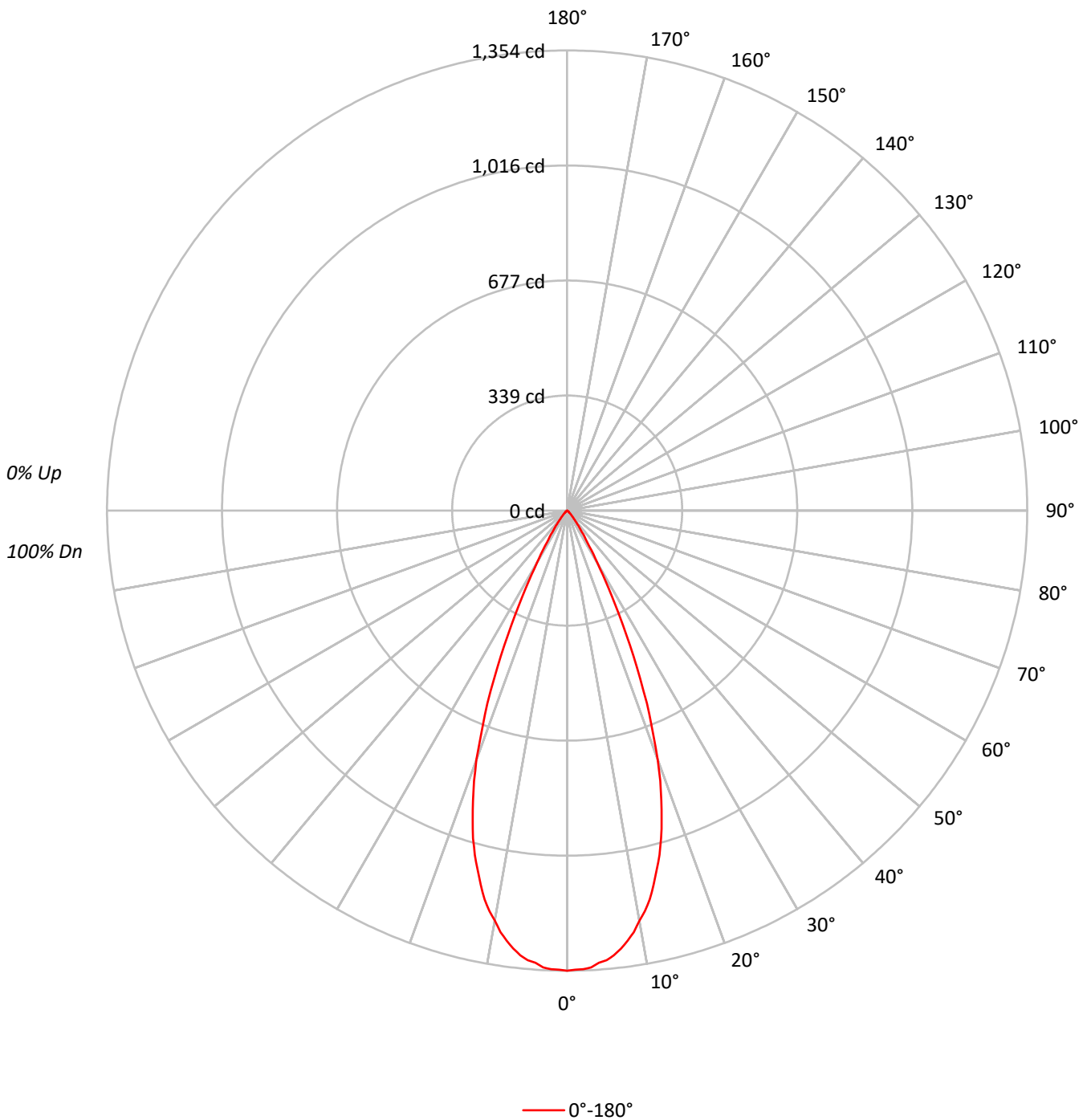
Lumens per Lamp: N/A  
Luminaire Lumens: 673.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P493419

CATALOG NUMBER: LDA2B059035R45D010 2LBD1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P493419

CATALOG NUMBER: LDA2B059035R45D010 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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	105	100	96	93	104	99	95	92	96	93	90		94	91	89		92	90	88	86
4	101	95	90	87	100	94	90	86	92	88	85		90	87	84		88	86	84	82
5	97	90	86	82	96	90	85	82	88	84	81		86	83	80		85	82	80	78
6	94	86	81	78	92	86	81	77	84	80	77		83	79	76		82	78	76	75
7	90	82	77	74	89	82	77	74	81	76	73		80	76	73		78	75	73	71
8	87	79	74	71	86	78	74	70	77	73	70		76	73	70		76	72	70	68
9	84	76	71	67	83	75	70	67	74	70	67		73	70	67		73	69	67	66
10	81	73	68	65	80	72	68	64	71	67	64		71	67	64		70	67	64	63

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

	0°
0°	668012
5°	657786
10°	613842
15°	535691
20°	409624
25°	237887
30°	100891
35°	41798
40°	18484
45°	9559
50°	4759
55°	1118
60°	691
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P493419

CATALOG NUMBER: LDA2B059035R45D010 2LBD1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.6	18.4
10°-20°	286.1	42.5
20°-30°	200.0	29.7
30°-40°	49.5	7.4
40°-50°	11.5	1.7
50°-60°	1.9	0.3
60°-70°	0.3	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°	609.7	90.6
0°-40°	659.2	97.9
0°-60°	672.6	99.9
0°-90°	673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1354	
5°	1328	124
15°	1049	286
25°	437	200
35°	69	50
45°	14	11
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493419

CATALOG NUMBER: LDA2B059035R45D010 2LBD1MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1354.0
1°	1351.0
2°	1350.4
3°	1346.1
4°	1334.1
5°	1328.2
6°	1316.2
7°	1298.9
8°	1277.8
9°	1255.9
10°	1225.3
11°	1200.3
12°	1169.6
13°	1129.9
14°	1089.5
15°	1048.8
16°	1003.9
17°	950.5
18°	896.4
19°	840.8
20°	780.2
21°	707.6
22.5°	613.5
23°	574.7
24°	505.0
25°	437.0
26°	373.2
27°	313.6
28°	261.2
29°	215.6
30°	177.1
32.5°	109.1
35°	69.4
37.5°	44.9
40°	28.7
42.5°	19.5
45°	13.7
47.5°	9.8
50°	6.2
52.5°	3.3
55°	1.3
57.5°	0.7
60°	0.7
62.5°	0.3
65°	0.3



TEST NUMBER: P493419

CATALOG NUMBER: LDA2B059035R45D010 2LBD1MW

**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)