

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: P493630

Luminaire Tested: **LDA2B059040R45D010 2LBD1GPH**

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: P493630  
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: LDA2B059040R45D010 2LBD1GPH  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

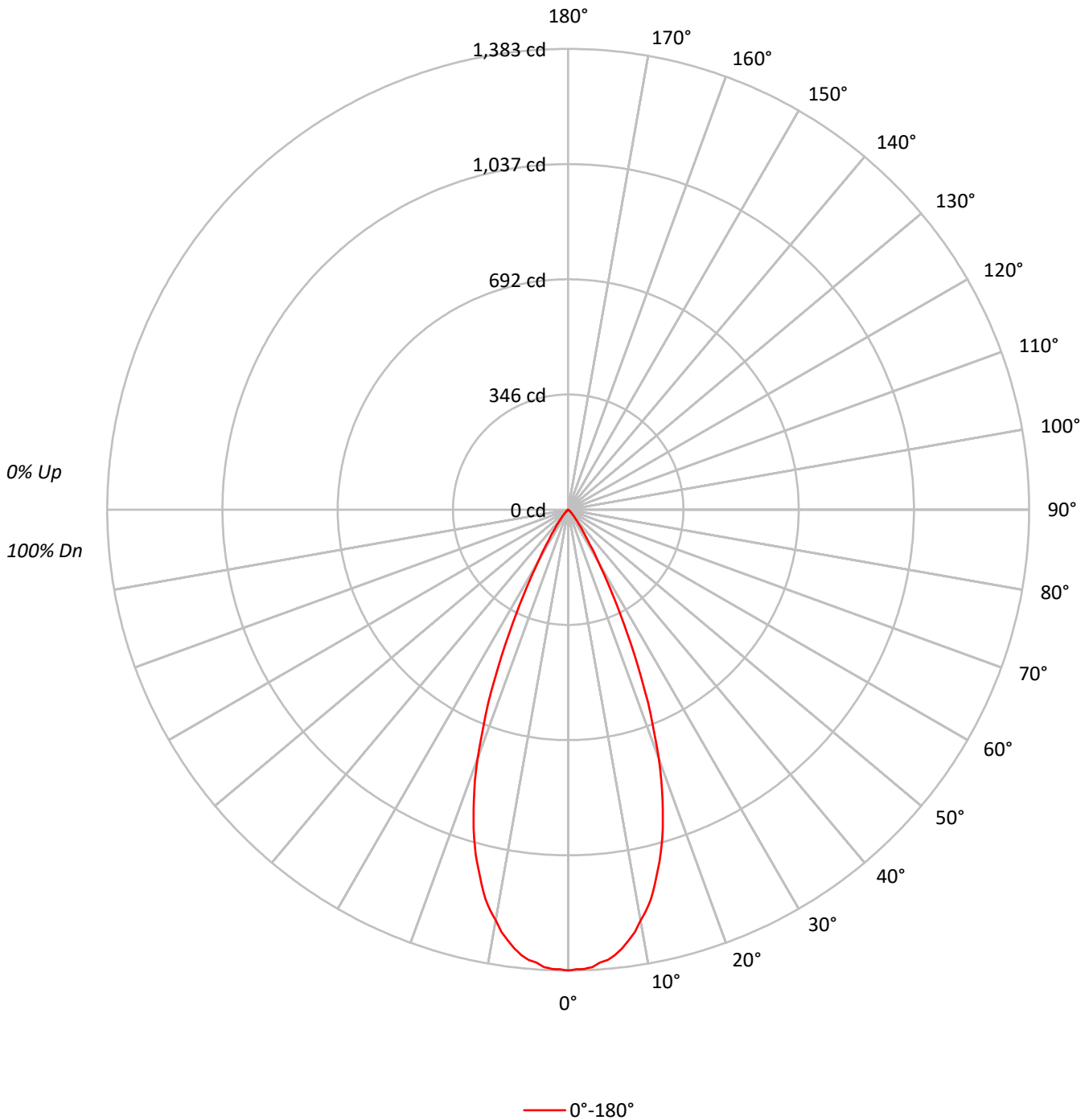
Lumens per Lamp: N/A  
Luminaire Lumens: 687.3 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P493630

CATALOG NUMBER: LDA2B059040R45D010 2LBD1GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P493630

CATALOG NUMBER: LDA2B059040R45D010 2LBD1GPH

**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°	682171
5°	671802
10°	626917
15°	547081
20°	418340
25°	242950
30°	103056
35°	42642
40°	18870
45°	9768
50°	4835
55°	1118
60°	691
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P493630

CATALOG NUMBER: LDA2B059040R45D010 2LBD1GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	18.4
10°-20°	292.1	42.5
20°-30°	204.3	29.7
30°-40°	50.6	7.4
40°-50°	11.7	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°	622.6	90.6
0°-40°	673.2	97.9
0°-60°	686.8	99.9
0°-90°	687.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1383	
5°	1356	126
15°	1071	292
25°	446	204
35°	71	51
45°	14	12
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493630

CATALOG NUMBER: LDA2B059040R45D010 2LBD1GPH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1382.7
1°	1379.7
2°	1379.1
3°	1374.8
4°	1362.4
5°	1356.5
6°	1344.2
7°	1326.5
8°	1304.9
9°	1282.6
10°	1251.4
11°	1225.8
12°	1194.5
13°	1153.9
14°	1112.7
15°	1071.1
16°	1025.2
17°	970.7
18°	915.5
19°	858.6
20°	796.8
21°	722.6
22.5°	626.5
23°	586.9
24°	515.8
25°	446.3
26°	381.1
27°	320.2
28°	266.7
29°	220.1
30°	180.9
32.5°	111.4
35°	70.8
37.5°	45.9
40°	29.3
42.5°	20.0
45°	14.0
47.5°	10.0
50°	6.3
52.5°	3.3
55°	1.3
57.5°	0.7
60°	0.7
62.5°	0.3
65°	0.3



TEST NUMBER: P493630

CATALOG NUMBER: LDA2B059040R45D010 2LBD1GPH

**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)