

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: P494064

Luminaire Tested: **LDA2B059727R45D010 2LBD1LI**

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: P494064
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: LDA2B059727R45D010 2LBD1LI
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

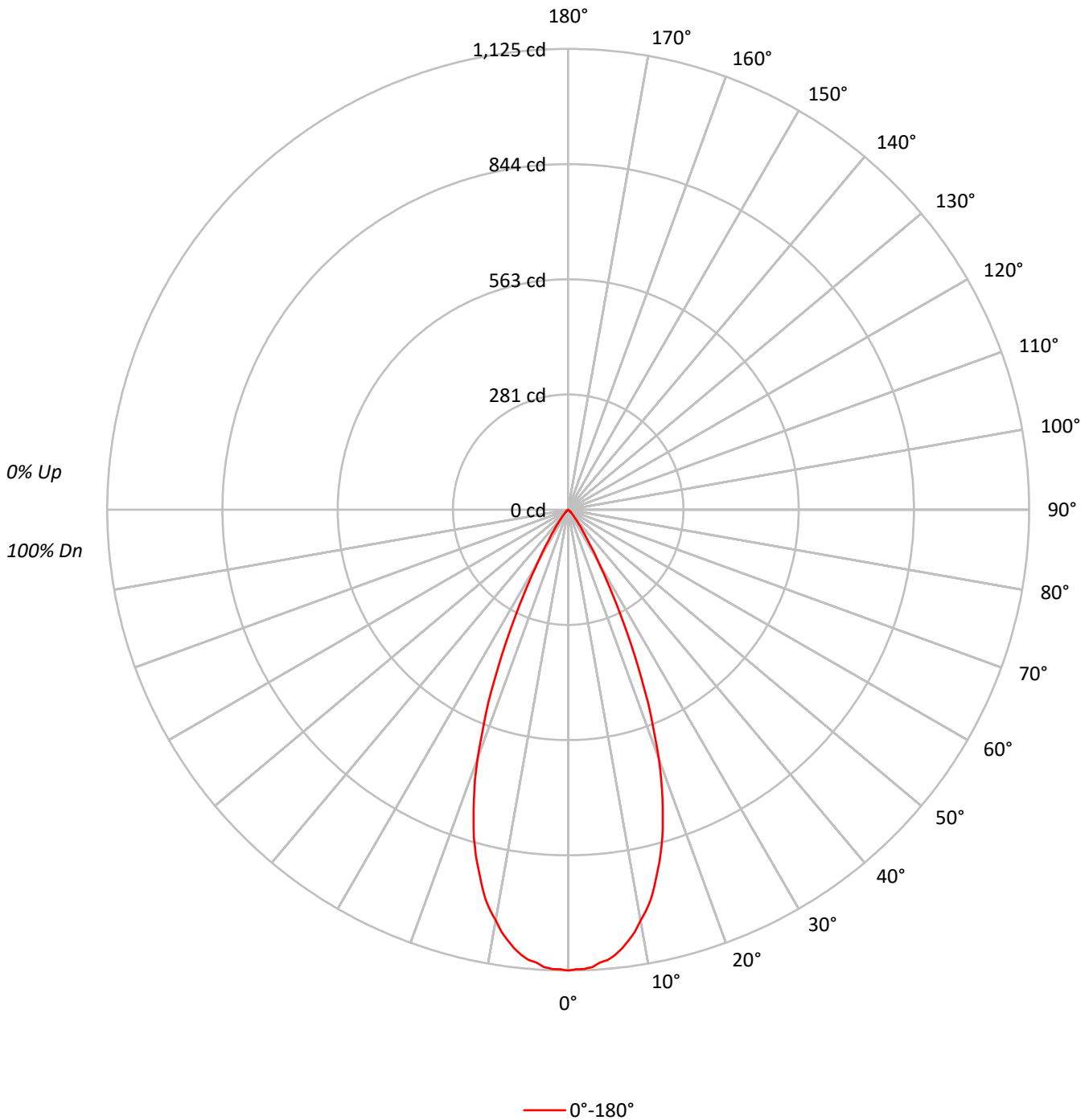
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 559.1 lumens
Efficiency: N/A
Efficacy: 79.9 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 (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: P494064
CATALOG NUMBER: LDA2B059727R45D010 2LBD1LI

Luminous Intensity Polar Plot





TEST NUMBER: P494064

CATALOG NUMBER: LDA2B059727R45D010 2LBD1LI

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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100		
1	114	112	110	108	112	110	108	106	106	104	103	103	102	101	100	100	99	98	97	97	95	95		
2	110	106	102	99	108	104	101	98	101	98	96	96	98	96	94	94	95	94	92	92	91	91		
3	105	100	96	93	104	99	95	92	96	93	90	90	94	91	89	89	92	90	88	88	86	86		
4	101	95	90	87	100	94	90	86	92	88	85	85	90	87	84	84	88	86	84	84	82	82		
5	97	90	86	82	96	90	85	82	88	84	81	81	86	83	80	80	85	82	80	80	78	78		
6	94	86	81	78	92	86	81	77	84	80	77	77	83	79	76	76	82	78	76	76	75	75		
7	90	82	77	74	89	82	77	74	81	76	73	73	80	76	73	73	78	75	73	73	71	71		
8	87	79	74	71	86	78	74	70	77	73	70	70	76	73	70	70	76	72	70	70	68	68		
9	84	76	71	67	83	75	70	67	74	70	67	67	73	70	67	67	73	69	67	67	66	66		
10	81	73	68	65	80	72	68	64	71	67	64	64	71	67	64	64	70	67	64	64	63	63		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	554933
5°	546455
10°	509940
15°	445030
20°	340268
25°	197604
30°	83858
35°	34692
40°	15328
45°	7954
50°	3914
55°	946
60°	493
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P494064

CATALOG NUMBER: LDA2B059727R45D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	18.4
10°-20°	237.6	42.5
20°-30°	166.1	29.7
30°-40°	41.1	7.4
40°-50°	9.5	1.7
50°-60°	1.6	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°	506.5	90.6
0°-40°	547.6	97.9
0°-60°	558.7	99.9
0°-90°	559.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	559.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1125	
5°	1103	103
15°	871	238
25°	363	166
35°	58	41
45°	11	10
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P494064

CATALOG NUMBER: LDA2B059727R45D010 2LBD1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	1124.8
1°	1122.3
2°	1121.8
3°	1118.3
4°	1108.3
5°	1103.4
6°	1093.4
7°	1079.1
8°	1061.5
9°	1043.3
10°	1017.9
11°	997.1
12°	971.7
13°	938.7
14°	905.1
15°	871.3
16°	834.0
17°	789.6
18°	744.7
19°	698.4
20°	648.1
21°	587.8
22.5°	509.6
23°	477.4
24°	419.6
25°	363.0
26°	310.0
27°	260.5
28°	216.9
29°	179.1
30°	147.2
32.5°	90.6
35°	57.6
37.5°	37.3
40°	23.8
42.5°	16.2
45°	11.4
47.5°	8.1
50°	5.1
52.5°	2.7
55°	1.1
57.5°	0.5
60°	0.5
62.5°	0.3
65°	0.3



TEST NUMBER: P494064

CATALOG NUMBER: LDA2B059727R45D010 2LBD1LI

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)