

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: P493861

Luminaire Tested: **LDA2B059050R45D010 2LBDL1MW**

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: P493861
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: LDA2B059050R45D010 2LBDL1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

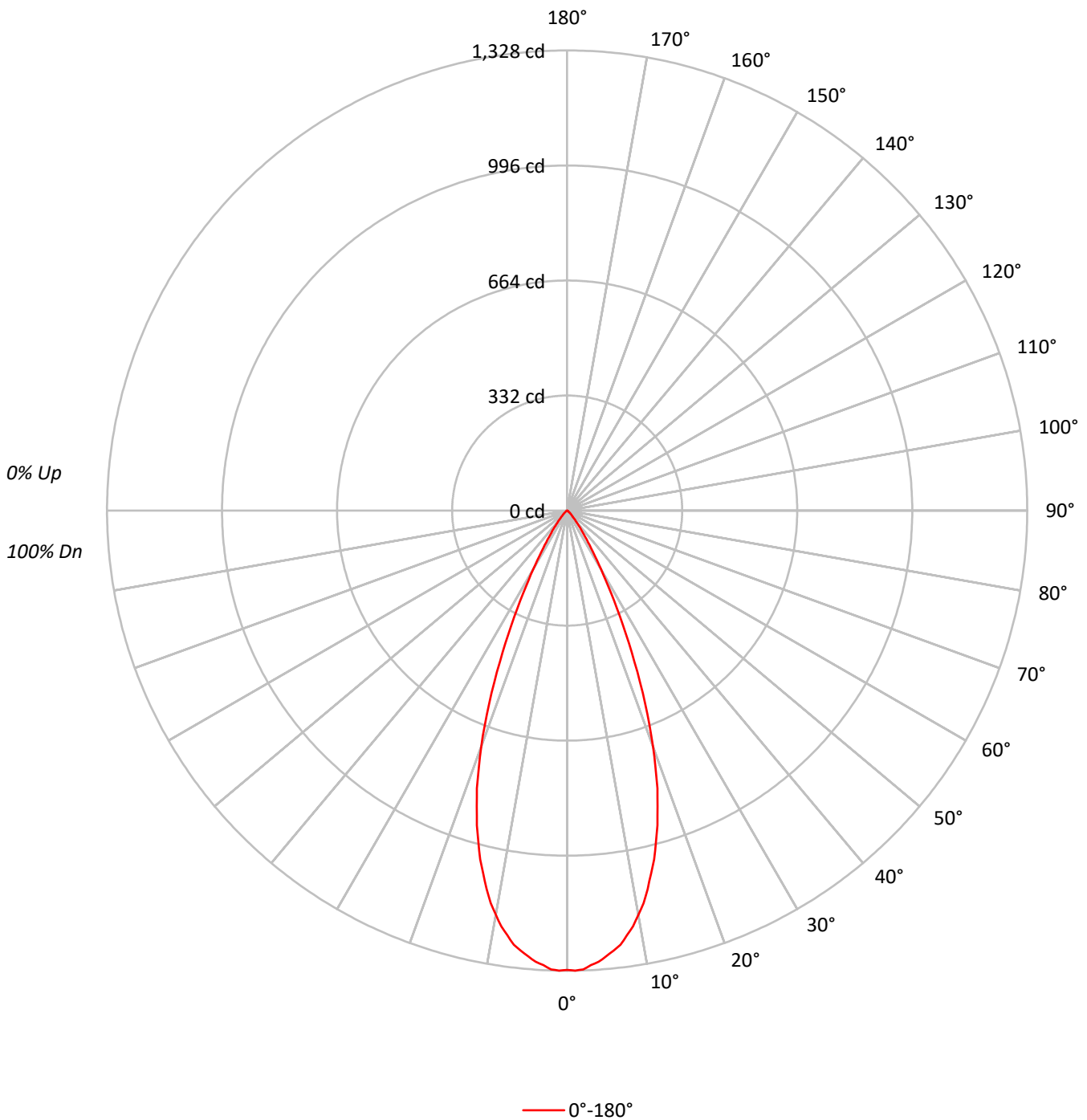
Lumens per Lamp: N/A
Luminaire Lumens: 659.8 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.65
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P493861

CATALOG NUMBER: LDA2B059050R45D010 2LBDL1MW

Luminous Intensity Polar Plot





TEST NUMBER: P493861

CATALOG NUMBER: LDA2B059050R45D010 2LBDL1MW

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°	654000
5°	639561
10°	593402
15°	506067
20°	381010
25°	229667
30°	110747
35°	50230
40°	23121
45°	11931
50°	6294
55°	2322
60°	691
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P493861

CATALOG NUMBER: LDA2B059050R45D010 2LBDL1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	18.2
10°-20°	270.6	41.0
20°-30°	193.3	29.3
30°-40°	58.0	8.8
40°-50°	14.4	2.2
50°-60°	3.0	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°	583.9	88.5
0°-40°	641.9	97.3
0°-60°	659.3	99.9
0°-90°	659.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1326	
5°	1291	120
15°	991	271
25°	422	193
35°	83	58
45°	17	14
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493861

CATALOG NUMBER: LDA2B059050R45D010 2LBDL1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1325.6
1°	1328.0
2°	1324.9
3°	1313.6
4°	1305.4
5°	1291.4
6°	1277.4
7°	1262.4
8°	1237.8
9°	1214.6
10°	1184.5
11°	1154.4
12°	1116.5
13°	1075.8
14°	1037.9
15°	990.8
16°	944.7
17°	892.4
18°	842.8
19°	782.0
20°	725.7
21°	663.1
22.5°	569.9
23°	538.4
24°	477.3
25°	421.9
26°	366.6
27°	316.0
28°	268.9
29°	230.3
30°	194.4
32.5°	127.8
35°	83.4
37.5°	54.7
40°	35.9
42.5°	24.3
45°	17.1
47.5°	12.3
50°	8.2
52.5°	5.1
55°	2.7
57.5°	1.4
60°	0.7
62.5°	0.7
65°	0.3



TEST NUMBER: P493861

CATALOG NUMBER: LDA2B059050R45D010 2LBDL1MW

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)