

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: P496453

Luminaire Tested: **LDA2B109040R45D010 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: P496453
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: LDA2B109040R45D010 2LBDL1MW
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

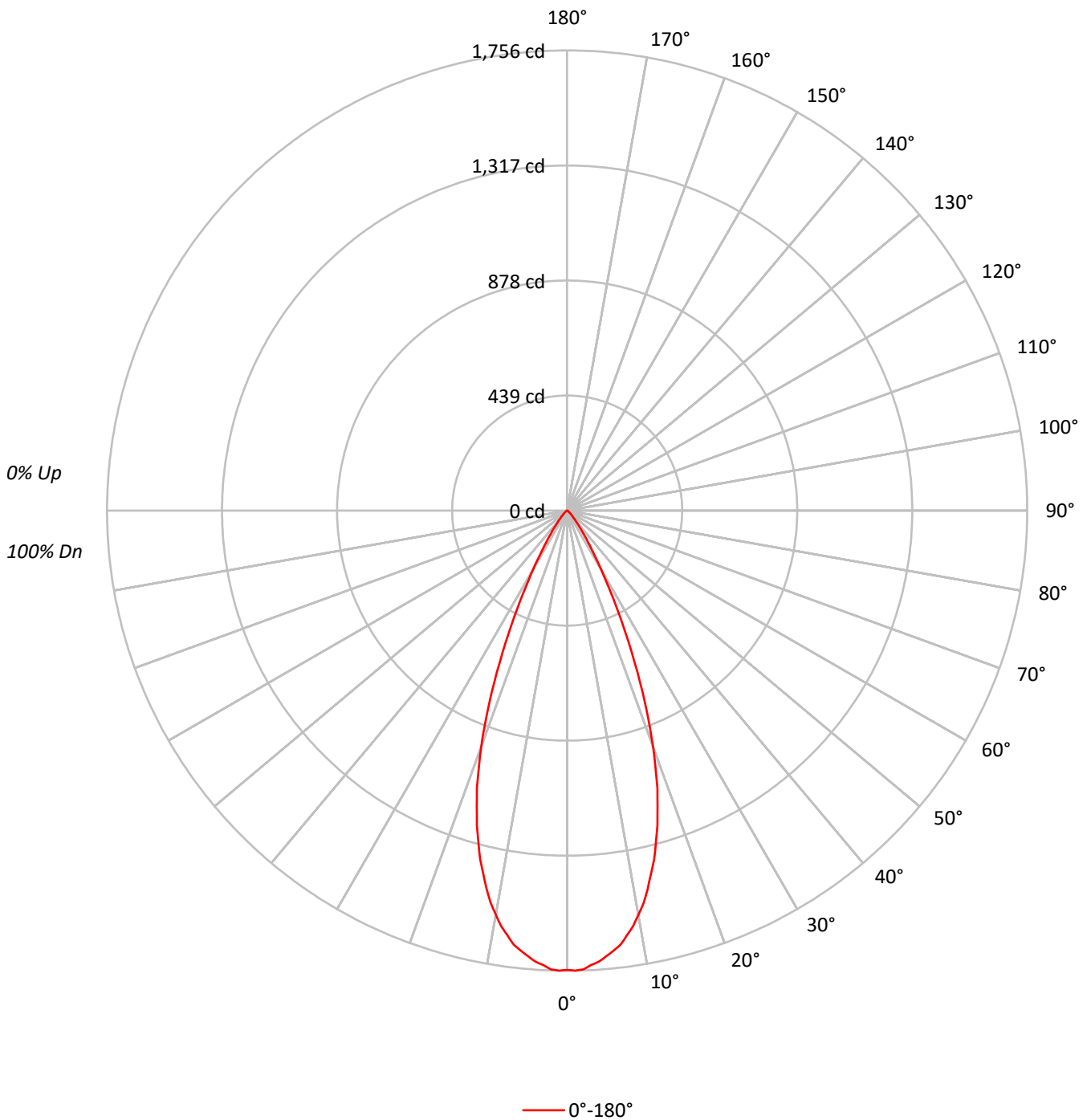
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.6 lumens
Efficiency: N/A
Efficacy: 87.3 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): 10
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: P496453
CATALOG NUMBER: LDA2B109040R45D010 2LBDL1MW

Luminous Intensity Polar Plot





TEST NUMBER: P496453

CATALOG NUMBER: LDA2B109040R45D010 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°	864814
5°	845782
10°	784674
15°	669205
20°	503814
25°	303755
30°	146466
35°	66372
40°	30527
45°	15768
50°	8289
55°	3097
60°	888
65°	584
70°	721
75°	0
80°	0
85°	0



TEST NUMBER: P496453

CATALOG NUMBER: LDA2B109040R45D010 2LBDL1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	18.2
10°-20°	357.8	41.0
20°-30°	255.6	29.3
30°-40°	76.6	8.8
40°-50°	19.0	2.2
50°-60°	4.0	0.5
60°-70°	0.6	0.1
70°-80°	0.2	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°	772.2	88.5
0°-40°	848.8	97.3
0°-60°	871.8	99.9
0°-90°	872.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1753	
5°	1708	159
15°	1310	358
25°	558	256
35°	110	77
45°	23	19
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P496453

CATALOG NUMBER: LDA2B109040R45D010 2LBDL1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1752.9
1°	1756.1
2°	1752.0
3°	1737.1
4°	1726.3
5°	1707.8
6°	1689.2
7°	1669.4
8°	1636.8
9°	1606.1
10°	1566.3
11°	1526.6
12°	1476.4
13°	1422.7
14°	1372.5
15°	1310.2
16°	1249.2
17°	1180.1
18°	1114.6
19°	1034.1
20°	959.6
21°	876.9
22.5°	753.6
23°	712.0
24°	631.1
25°	558.0
26°	484.8
27°	417.9
28°	355.6
29°	304.5
30°	257.1
32.5°	169.0
35°	110.2
37.5°	72.3
40°	47.4
42.5°	32.1
45°	22.6
47.5°	16.3
50°	10.8
52.5°	6.8
55°	3.6
57.5°	1.8
60°	0.9
62.5°	0.9
65°	0.5



TEST NUMBER: P496453

CATALOG NUMBER: LDA2B109040R45D010 2LBDL1MW

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
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)