

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: P496442

Luminaire Tested: **LDA2B109040R45D010 2LBD1MMS**

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: P496442
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: LDA2B109040R45D010 2LBD1MMS
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

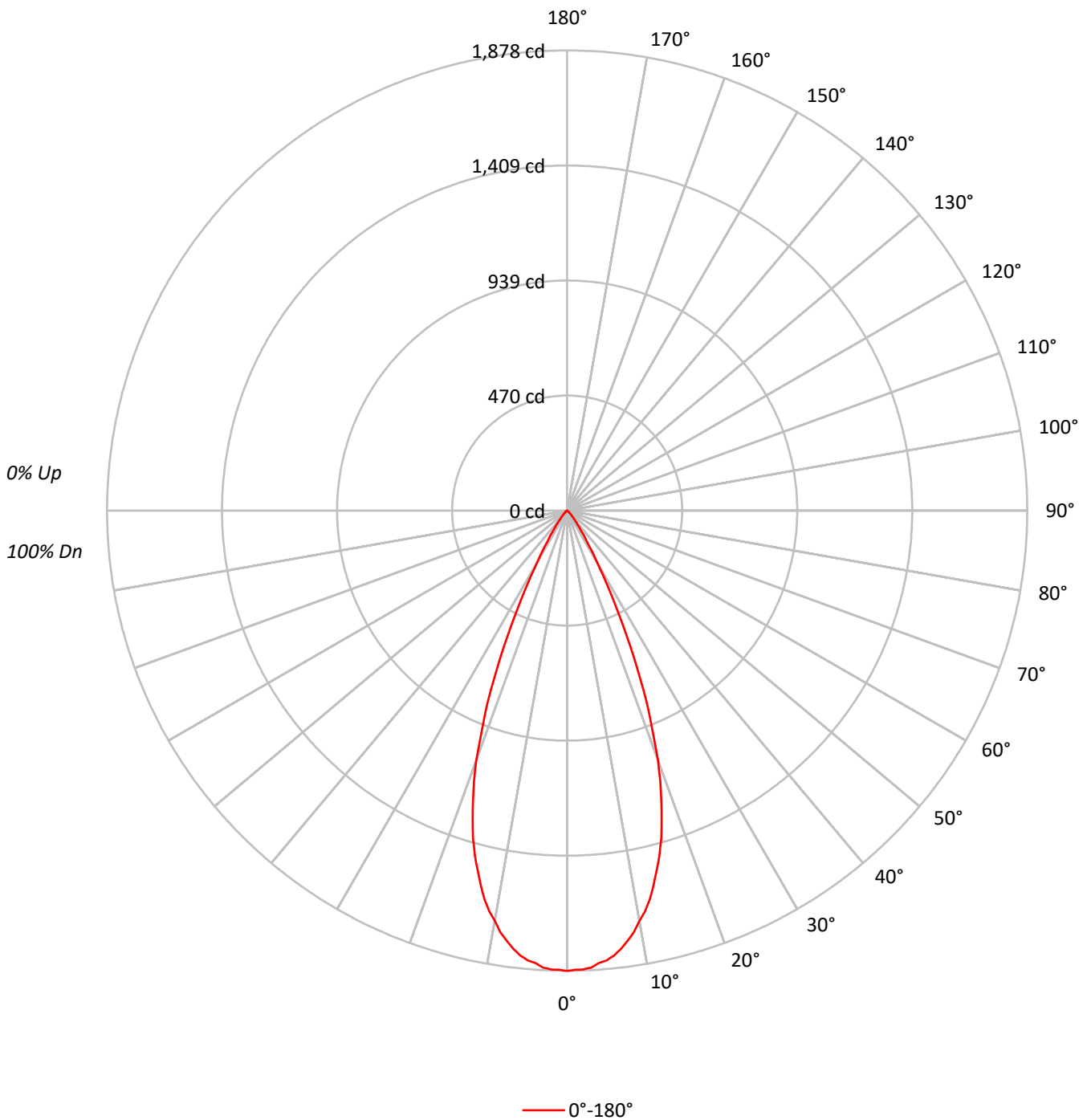
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 933.9 lumens
Efficiency: N/A
Efficacy: 93.4 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): 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: P496442
CATALOG NUMBER: LDA2B109040R45D010 2LBD1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P496442

CATALOG NUMBER: LDA2B109040R45D010 2LBD1MMS

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	83	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	70	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°	926780
5°	912640
10°	851704
15°	743266
20°	568339
25°	330048
30°	140029
35°	57940
40°	25633
45°	13257
50°	6601
55°	1548
60°	888
65°	584
70°	721
75°	0
80°	0
85°	0



TEST NUMBER: P496442

CATALOG NUMBER: LDA2B109040R45D010 2LBD1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	18.4
10°-20°	396.9	42.5
20°-30°	277.5	29.7
30°-40°	68.7	7.4
40°-50°	15.9	1.7
50°-60°	2.6	0.3
60°-70°	0.5	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°	845.9	90.6
0°-40°	914.6	97.9
0°-60°	933.1	99.9
0°-90°	933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1878	
5°	1843	171
15°	1455	397
25°	606	277
35°	96	69
45°	19	16
55°	2	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P496442

CATALOG NUMBER: LDA2B109040R45D010 2LBD1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1878.5
1°	1874.5
2°	1873.6
3°	1867.7
4°	1851.0
5°	1842.8
6°	1826.1
7°	1802.2
8°	1772.8
9°	1742.5
10°	1700.1
11°	1665.3
12°	1622.8
13°	1567.7
14°	1511.7
15°	1455.2
16°	1392.9
17°	1318.8
18°	1243.8
19°	1166.5
20°	1082.5
21°	981.7
22.5°	851.2
23°	797.4
24°	700.7
25°	606.3
26°	517.7
27°	435.1
28°	362.3
29°	299.1
30°	245.8
32.5°	151.3
35°	96.2
37.5°	62.3
40°	39.8
42.5°	27.1
45°	19.0
47.5°	13.6
50°	8.6
52.5°	4.5
55°	1.8
57.5°	0.9
60°	0.9
62.5°	0.5
65°	0.5



TEST NUMBER: P496442

CATALOG NUMBER: LDA2B109040R45D010 2LBD1MMS

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)