

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: P496667

Luminaire Tested: **LDA2B109050R45D010 2LBDL1MB**

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: P496667
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: LDA2B109050R45D010 2LBDL1MB
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

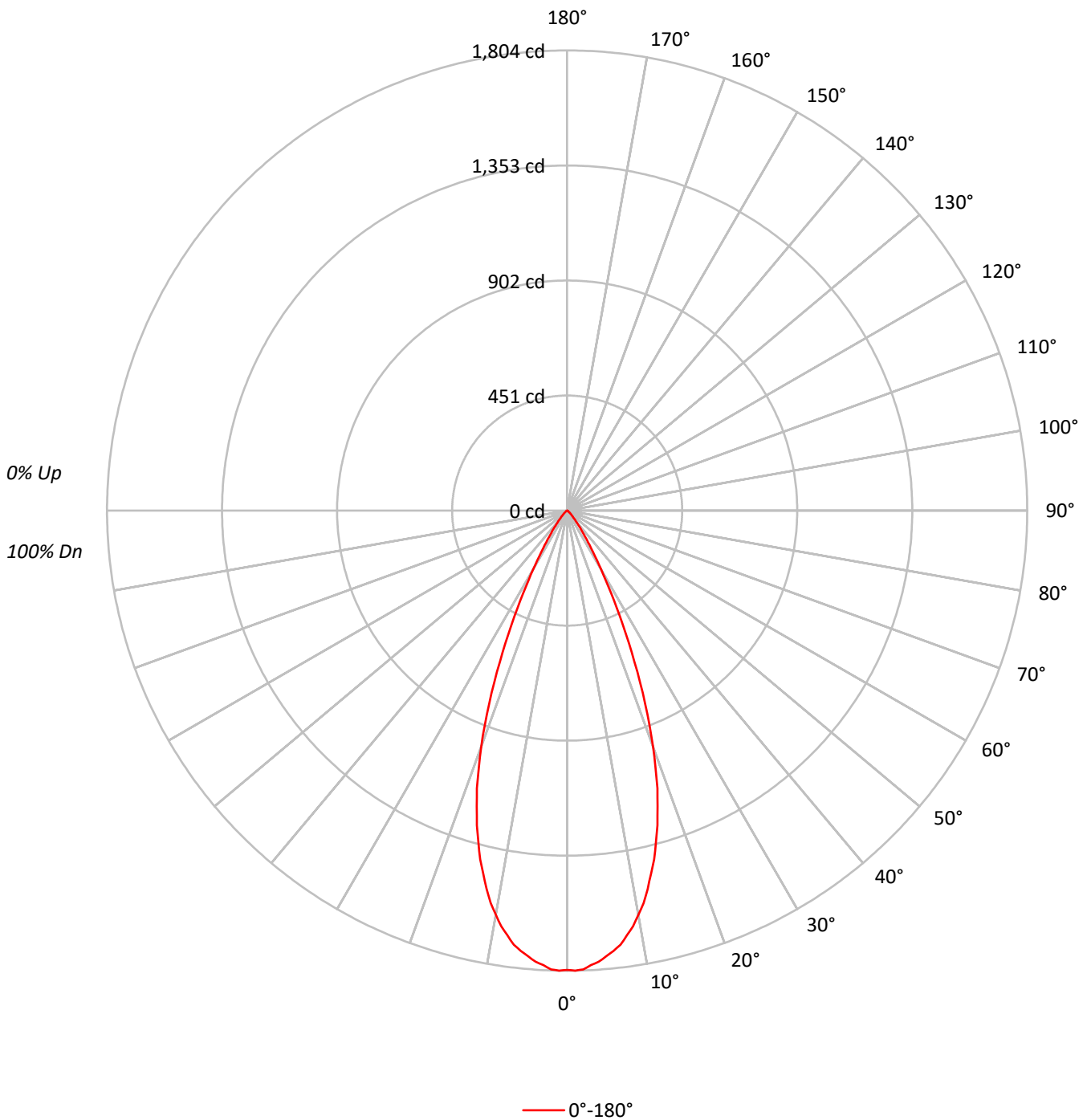
Lumens per Lamp: N/A
Luminaire Lumens: 896.5 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.65
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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: P496667

CATALOG NUMBER: LDA2B109050R45D010 2LBDL1MB

Luminous Intensity Polar Plot





TEST NUMBER: P496667

CATALOG NUMBER: LDA2B109050R45D010 2LBDL1MB

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°	888495
5°	868910
10°	806165
15°	687491
20°	517622
25°	312030
30°	150454
35°	68239
40°	31365
45°	16187
50°	8520
55°	3183
60°	888
65°	584
70°	721
75°	0
80°	0
85°	0



TEST NUMBER: P496667

CATALOG NUMBER: LDA2B109050R45D010 2LBDL1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	18.2
10°-20°	367.6	41.0
20°-30°	262.6	29.3
30°-40°	78.7	8.8
40°-50°	19.5	2.2
50°-60°	4.1	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°	793.3	88.5
0°-40°	872.0	97.3
0°-60°	895.6	99.9
0°-90°	896.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1801	
5°	1754	163
15°	1346	368
25°	573	263
35°	113	79
45°	23	20
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P496667

CATALOG NUMBER: LDA2B109050R45D010 2LBDL1MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	1800.9
1°	1804.1
2°	1800.0
3°	1784.7
4°	1773.5
5°	1754.5
6°	1735.5
7°	1715.0
8°	1681.6
9°	1650.0
10°	1609.2
11°	1568.4
12°	1516.8
13°	1461.6
14°	1410.1
15°	1346.0
16°	1283.4
17°	1212.4
18°	1145.1
19°	1062.4
20°	985.9
21°	900.9
22.5°	774.2
23°	731.5
24°	648.4
25°	573.2
26°	498.0
27°	429.3
28°	365.3
29°	312.8
30°	264.1
32.5°	173.6
35°	113.3
37.5°	74.3
40°	48.7
42.5°	33.0
45°	23.2
47.5°	16.7
50°	11.1
52.5°	7.0
55°	3.7
57.5°	1.9
60°	0.9
62.5°	0.9
65°	0.5



TEST NUMBER: P496667

CATALOG NUMBER: LDA2B109050R45D010 2LBDL1MB

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)