

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: P496554

Luminaire Tested: **LDA2B109050R20D010 2LBDC1MW**

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: P496554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B109050R20D010 2LBDC1MW  
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**

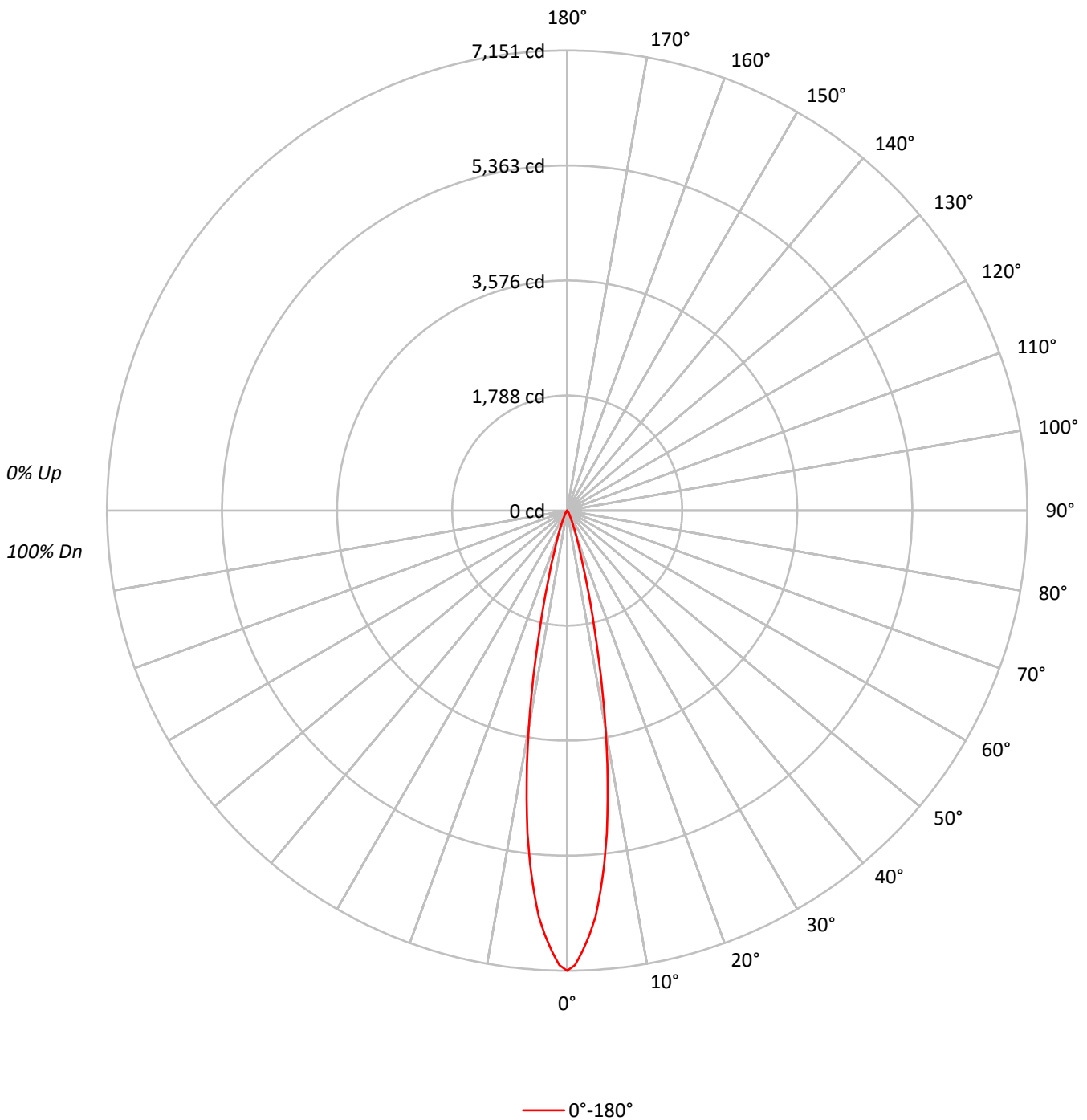
Lumens per Lamp: N/A  
Luminaire Lumens: 951.9 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P496554

CATALOG NUMBER: LDA2B109050R20D010 2LBDC1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P496554

CATALOG NUMBER: LDA2B109050R20D010 2LBDC1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	116	114	112	110	113	111	110	109	108	106	105	104	103	102	101	100	99	98	97	96
2	112	109	106	104	110	107	105	103	104	102	101	102	100	99	99	98	97	96	95	94
3	109	105	102	100	108	104	101	99	102	99	97	99	97	96	97	96	94	93	92	91
4	107	102	99	96	105	101	98	95	99	96	94	97	95	93	96	94	92	91	90	89
5	104	99	95	93	103	98	95	92	97	94	92	95	93	91	94	92	90	89	88	87
6	102	96	93	90	101	96	92	90	94	92	89	93	91	89	92	90	88	87	86	85
7	100	94	91	88	99	94	90	88	92	90	87	92	89	87	91	88	87	86	85	84
8	98	92	88	86	97	91	88	86	91	88	86	90	87	85	89	87	85	84	83	82
9	96	90	87	84	95	90	86	84	89	86	84	88	86	84	88	85	83	82	81	80
10	94	88	85	83	93	88	85	82	87	84	82	87	84	82	86	84	82	81	80	79

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	3528079
5°	2939535
10°	1723947
15°	603827
20°	203237
25°	78334
30°	35947
35°	15961
40°	7793
45°	4535
50°	2456
55°	774
60°	493
65°	584
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P496554

CATALOG NUMBER: LDA2B109050R20D010 2LBDC1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.6	51.0
10°-20°	364.6	38.3
20°-30°	76.6	8.0
30°-40°	18.4	1.9
40°-50°	5.2	0.6
50°-60°	1.1	0.1
60°-70°	0.3	0.0
70°-80°	0.0	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°	926.9	97.4
0°-40°	945.3	99.3
0°-60°	951.6	100.0
0°-90°	951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7151	
5°	5936	486
15°	1182	365
25°	144	77
35°	26	18
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P496554

CATALOG NUMBER: LDA2B109050R20D010 2LBDC1MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7151.1
1°	7063.8
2°	6850.3
3°	6604.3
4°	6329.1
5°	5935.5
6°	5517.8
7°	5054.1
8°	4524.5
9°	3989.8
10°	3441.2
11°	2876.8
12°	2379.7
13°	1894.6
14°	1508.0
15°	1182.2
16°	927.4
17°	731.5
18°	588.1
19°	476.7
20°	387.1
22.5°	234.9
25°	143.9
27.5°	94.2
30°	63.1
32.5°	38.5
35°	26.5
37.5°	18.1
40°	12.1
42.5°	8.8
45°	6.5
47.5°	4.6
50°	3.2
52.5°	1.9
55°	0.9
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P496554

CATALOG NUMBER: LDA2B109050R20D010 2LBDC1MW

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)