

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: P496023

Luminaire Tested: **LDA2B109030R45D010 2LBDL1WHH**

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: P496023  
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: LDA2B109030R45D010 2LBDL1WHH  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

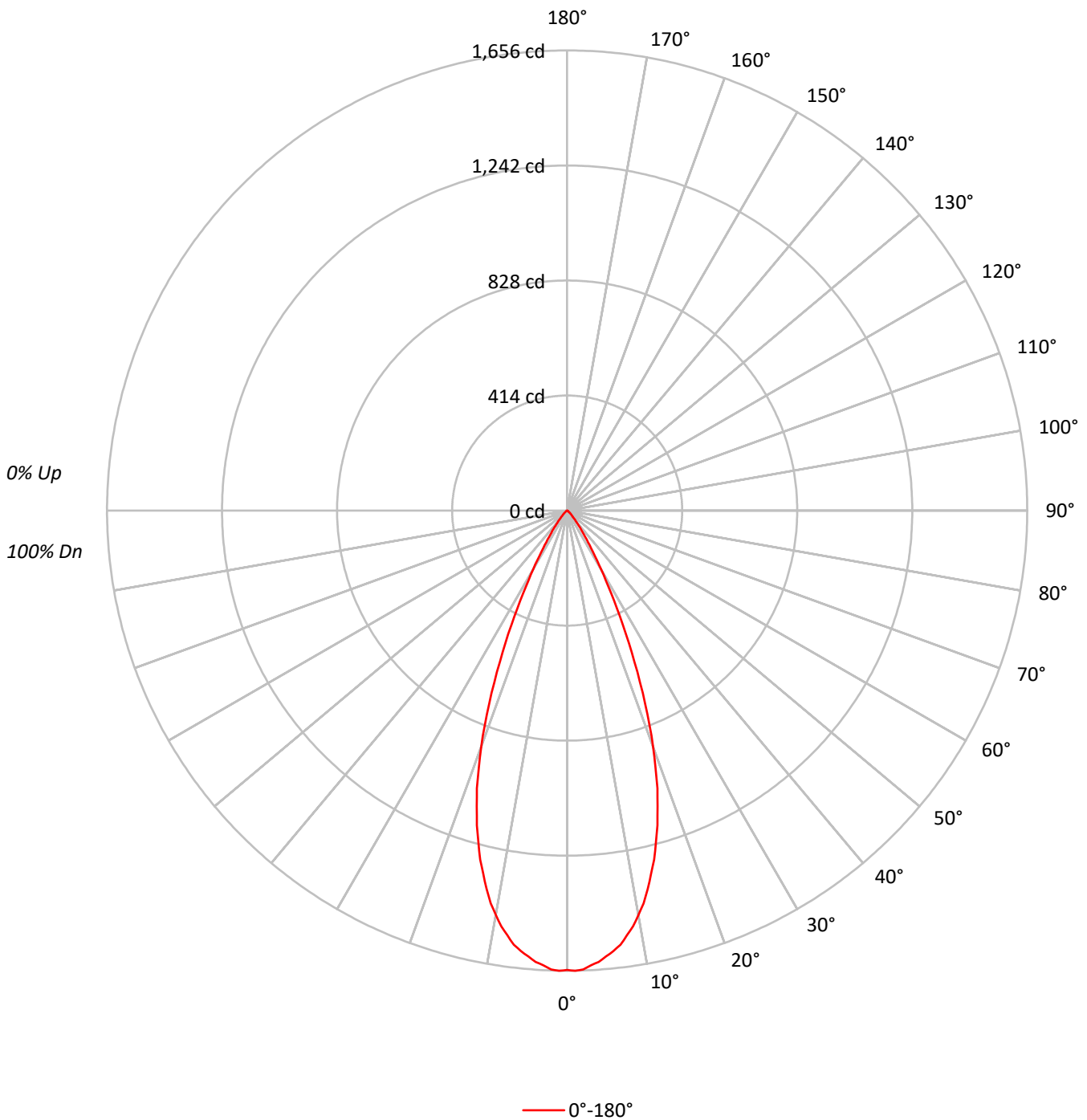
Lumens per Lamp: N/A  
Luminaire Lumens: 823.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<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: P496023

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WHH

### Luminous Intensity Polar Plot





TEST NUMBER: P496023

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WHH

**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°	815675
5°	797693
10°	740137
15°	631153
20°	475200
25°	286499
30°	138149
35°	62637
40°	28789
45°	14861
50°	7829
55°	2925
60°	888
65°	467
70°	577
75°	0
80°	0
85°	0



TEST NUMBER: P496023

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WHH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	18.2
10°-20°	337.5	41.0
20°-30°	241.1	29.3
30°-40°	72.3	8.8
40°-50°	17.9	2.2
50°-60°	3.7	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°	728.3	88.5
0°-40°	800.6	97.3
0°-60°	822.3	99.9
0°-90°	823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1653	
5°	1611	150
15°	1236	337
25°	526	241
35°	104	72
45°	21	18
55°	3	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P496023

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WHH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1653.3
1°	1656.3
2°	1652.5
3°	1638.4
4°	1628.2
5°	1610.7
6°	1593.3
7°	1574.5
8°	1543.8
9°	1514.9
10°	1477.4
11°	1439.9
12°	1392.6
13°	1341.9
14°	1294.6
15°	1235.7
16°	1178.2
17°	1113.0
18°	1051.2
19°	975.4
20°	905.1
21°	827.1
22.5°	710.8
23°	671.6
24°	595.3
25°	526.3
26°	457.2
27°	394.2
28°	335.4
29°	287.2
30°	242.5
32.5°	159.4
35°	104.0
37.5°	68.2
40°	44.7
42.5°	30.3
45°	21.3
47.5°	15.3
50°	10.2
52.5°	6.4
55°	3.4
57.5°	1.7
60°	0.9
62.5°	0.9
65°	0.4



TEST NUMBER: P496023

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WHH

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
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)