

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: P499617

Luminaire Tested: **LDA2B159727R30D010 2LBDC1MW**

Issue Date: 3/12/2021

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: P499617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159727R30D010 2LBDC1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

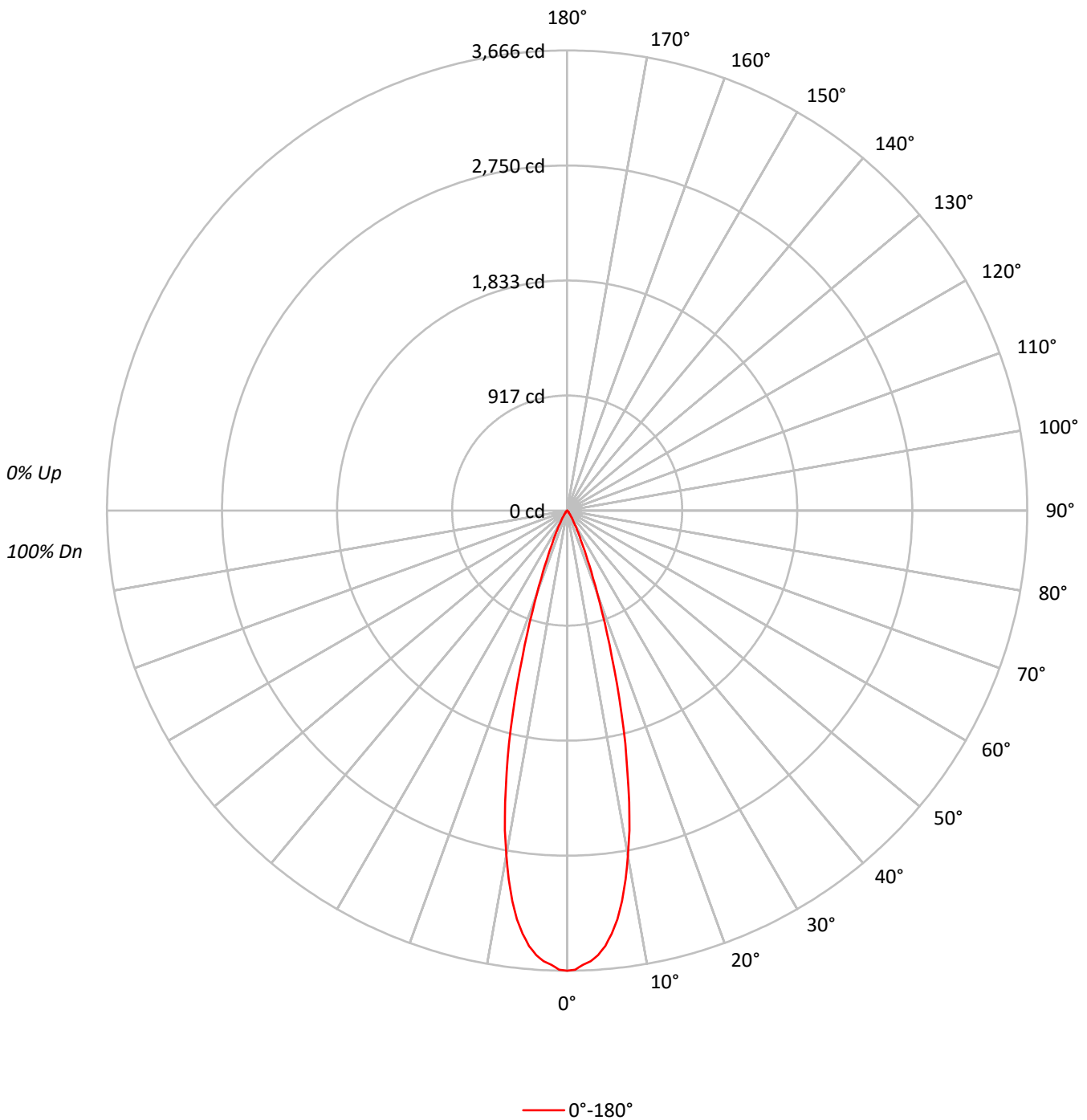
Lumens per Lamp: N/A  
Luminaire Lumens: 933.3 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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: P499617

CATALOG NUMBER: LDA2B159727R30D010 2LBDC1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P499617

CATALOG NUMBER: LDA2B159727R30D010 2LBDC1MW

**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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87
5	101	95	91	88	100	95	91	88	93	90	87	91	89	86	90	88	86	85
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	87	84	81	86	83	81	85	83	81	80
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	81	78	77
9	90	84	80	77	90	83	80	77	83	79	77	82	79	76	81	78	76	75
10	88	81	77	75	87	81	77	75	80	77	75	80	77	74	79	76	74	73

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

	0°
0°	1808664
5°	1724497
10°	1398565
15°	854920
20°	373555
25°	139738
30°	57937
35°	27103
40°	12623
45°	6140
50°	3377
55°	1290
60°	493
65°	584
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P499617

CATALOG NUMBER: LDA2B159727R30D010 2LBDC1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.6	33.3
10°-20°	448.5	48.1
20°-30°	133.8	14.3
30°-40°	30.8	3.3
40°-50°	7.6	0.8
50°-60°	1.7	0.2
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°	893.0	95.7
0°-40°	923.7	99.0
0°-60°	933.0	100.0
0°-90°	933.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3666	
5°	3482	311
15°	1674	448
25°	257	134
35°	45	31
45°	9	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P499617

CATALOG NUMBER: LDA2B159727R30D010 2LBDC1MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3666.0
1°	3657.7
2°	3620.5
3°	3595.6
4°	3549.1
5°	3482.1
6°	3390.7
7°	3281.6
8°	3142.8
9°	2973.6
10°	2791.7
11°	2597.0
12°	2376.0
13°	2138.4
14°	1912.5
15°	1673.8
16°	1443.0
17°	1215.6
18°	1032.3
19°	854.3
20°	711.5
21°	576.5
22.5°	427.4
23°	385.3
24°	315.4
25°	256.7
26°	210.8
27°	175.5
28°	144.7
29°	121.3
30°	101.7
32.5°	66.5
35°	45.0
37.5°	29.8
40°	19.6
42.5°	12.7
45°	8.8
47.5°	6.4
50°	4.4
52.5°	2.9
55°	1.5
57.5°	1.0
60°	0.5
62.5°	0.5
65°	0.5



TEST NUMBER: P499617

CATALOG NUMBER: LDA2B159727R30D010 2LBDC1MW

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.0
70°	0.0
72.5°	0.0
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)