

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: P497858

Luminaire Tested: **LDA2B158040R20D010 2LBDL1MW**

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: P497858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B158040R20D010 2LBDL1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

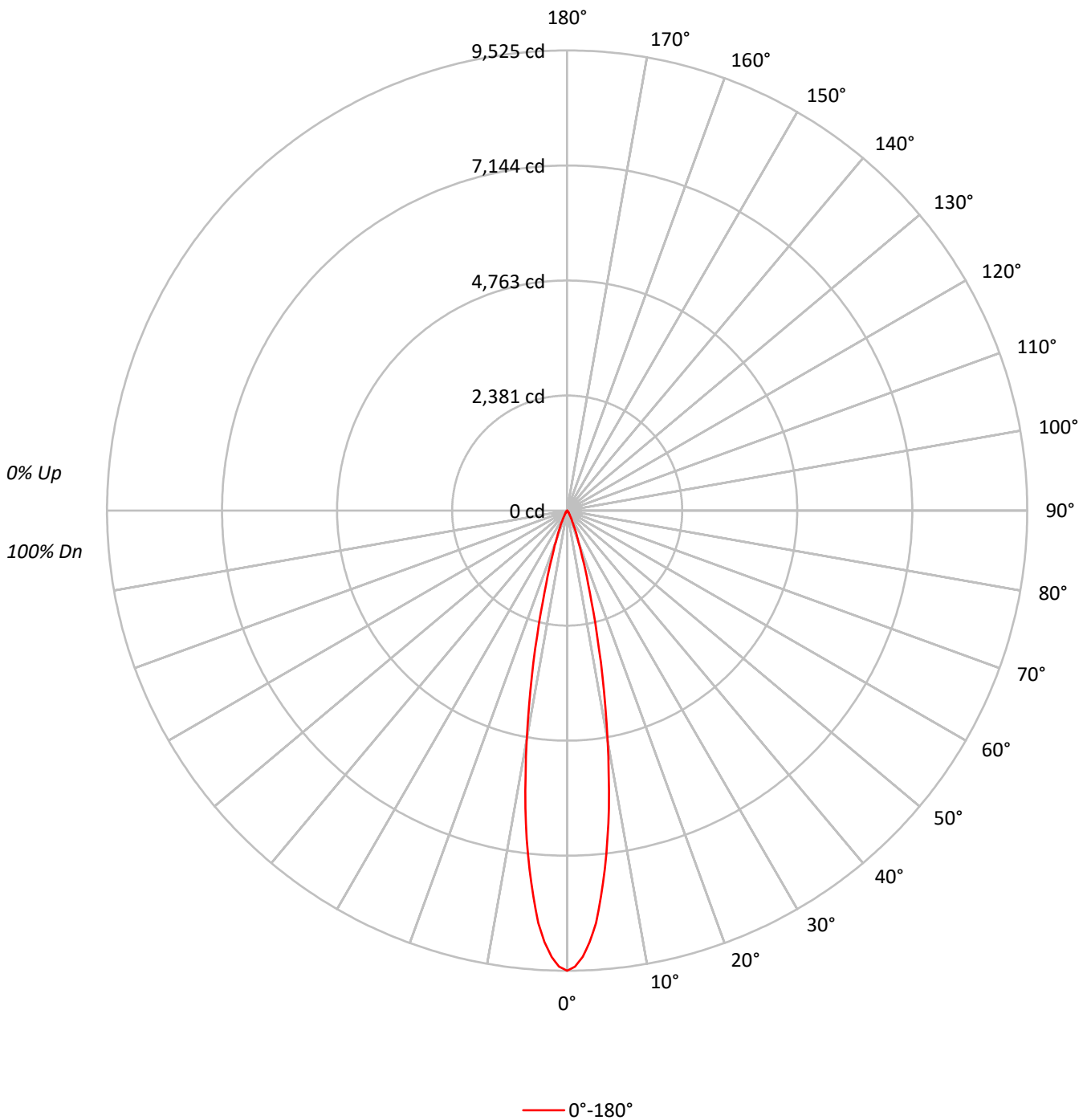
Lumens per Lamp: N/A  
Luminaire Lumens: 1421.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.34  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P497858

CATALOG NUMBER: LDA2B158040R20D010 2LBDL1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P497858

CATALOG NUMBER: LDA2B158040R20D010 2LBDL1MW

**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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	98	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	94	92	102	97	94	91	96	93	90	94	92	90	93	91	89	88
6	101	95	91	89	100	95	91	88	93	90	88	92	89	87	91	89	87	86
7	98	93	89	86	97	92	89	86	91	88	86	90	87	85	89	87	85	84
8	96	90	87	84	95	90	86	84	89	86	84	88	85	83	87	85	83	82
9	94	88	85	82	93	88	84	82	87	84	82	86	84	82	86	83	81	81
10	92	86	83	80	91	86	83	80	85	82	80	85	82	80	84	82	80	79

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

	0°
0°	4699222
5°	3971975
10°	2420149
15°	995687
20°	358487
25°	143767
30°	65343
35°	30716
40°	16230
45°	8791
50°	5142
55°	2580
60°	1480
65°	817
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P497858

CATALOG NUMBER: LDA2B158040R20D010 2LBDL1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.6	46.5
10°-20°	572.2	40.3
20°-30°	137.9	9.7
30°-40°	35.4	2.5
40°-50°	10.6	0.7
50°-60°	3.0	0.2
60°-70°	0.7	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°	1371.7	96.5
0°-40°	1407.1	99.0
0°-60°	1420.7	100.0
0°-90°	1421.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9525	
5°	8020	662
15°	1949	572
25°	264	138
35°	51	35
45°	13	11
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P497858

CATALOG NUMBER: LDA2B158040R20D010 2LBDL1MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9524.9
1°	9442.1
2°	9244.5
3°	8944.2
4°	8557.3
5°	8020.2
6°	7465.3
7°	6852.8
8°	6216.5
9°	5502.6
10°	4830.9
11°	4128.8
12°	3513.3
13°	2931.1
14°	2397.0
15°	1949.4
16°	1579.5
17°	1275.4
18°	1029.1
19°	846.3
20°	682.8
22.5°	420.9
25°	264.1
27.5°	171.6
30°	114.7
32.5°	75.5
35°	51.0
37.5°	35.5
40°	25.2
42.5°	17.8
45°	12.6
47.5°	9.6
50°	6.7
52.5°	4.4
55°	3.0
57.5°	2.2
60°	1.5
62.5°	0.7
65°	0.7
67.5°	0.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P497858

CATALOG NUMBER: LDA2B158040R20D010 2LBDL1MW

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)