

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: P499362

Luminaire Tested: **LDA2B159050R20D010 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: P499362  
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: LDA2B159050R20D010 2LBDC1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

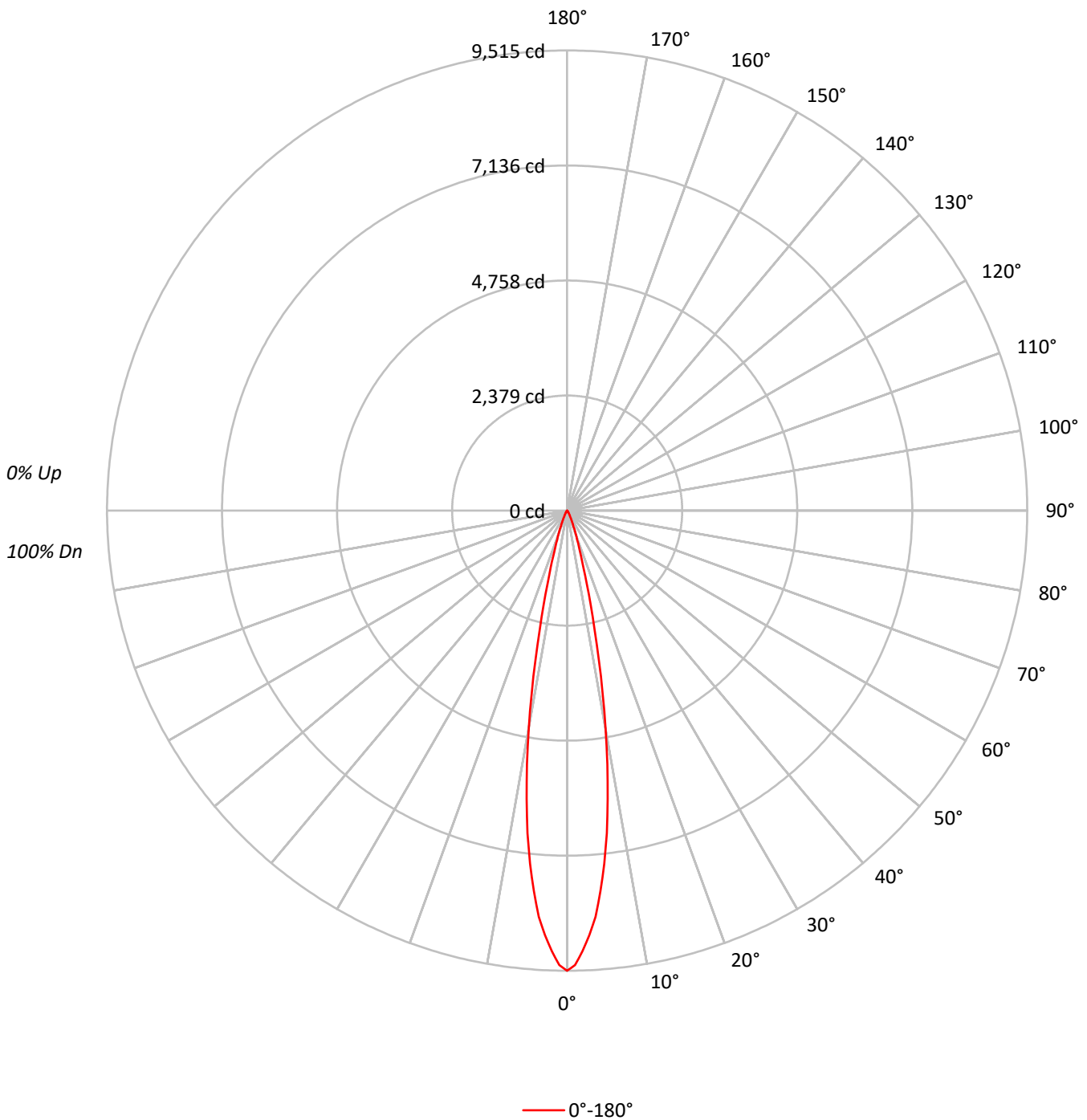
Lumens per Lamp: N/A  
Luminaire Lumens: 1266.6 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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### Luminous Intensity Polar Plot





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**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	116	114	112	110	113	111	110	109	108	106	105		104	103	102		101	100	99	98
2	112	109	106	104	110	107	105	103	104	102	101		102	100	99		99	98	97	95
3	109	105	102	100	108	104	101	99	102	99	97		99	97	96		97	96	94	93
4	107	102	99	96	105	101	98	95	99	96	94		97	95	93		96	94	92	91
5	104	99	95	93	103	98	95	92	97	94	92		95	93	91		94	92	90	89
6	102	96	93	90	101	96	92	90	95	92	89		93	91	89		92	90	88	87
7	100	94	91	88	99	94	90	88	92	90	87		92	89	87		91	88	87	86
8	98	92	88	86	97	91	88	86	91	88	86		90	87	85		89	87	85	84
9	96	90	87	84	95	90	86	84	89	86	84		88	86	84		88	85	83	83
10	94	88	85	83	93	88	85	82	87	84	82		87	84	82		86	84	82	81

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

	0°
0°	4694436
5°	3911357
10°	2293854
15°	803434
20°	270440
25°	104246
30°	47854
35°	21200
40°	10369
45°	6000
50°	3300
55°	1032
60°	592
65°	700
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.2	51.0
10°-20°	485.2	38.3
20°-30°	102.0	8.0
30°-40°	24.5	1.9
40°-50°	7.0	0.6
50°-60°	1.5	0.1
60°-70°	0.4	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°	1233.3	97.4
0°-40°	1257.8	99.3
0°-60°	1266.2	100.0
0°-90°	1266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9515	
5°	7898	646
15°	1573	485
25°	192	102
35°	35	24
45°	9	7
55°	1	1
65°	1	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9515.2
1°	9399.1
2°	9115.0
3°	8787.7
4°	8421.5
5°	7897.8
6°	7341.9
7°	6724.9
8°	6020.3
9°	5308.8
10°	4578.8
11°	3827.8
12°	3166.4
13°	2521.0
14°	2006.6
15°	1573.0
16°	1233.9
17°	973.3
18°	782.5
19°	634.3
20°	515.1
22.5°	312.5
25°	191.5
27.5°	125.4
30°	84.0
32.5°	51.3
35°	35.2
37.5°	24.1
40°	16.1
42.5°	11.7
45°	8.6
47.5°	6.2
50°	4.3
52.5°	2.5
55°	1.2
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)