

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: P493847

Luminaire Tested: **LDA2B059050R45D010 2LBD1H**

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: P493847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059050R45D010 2LBD1H  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

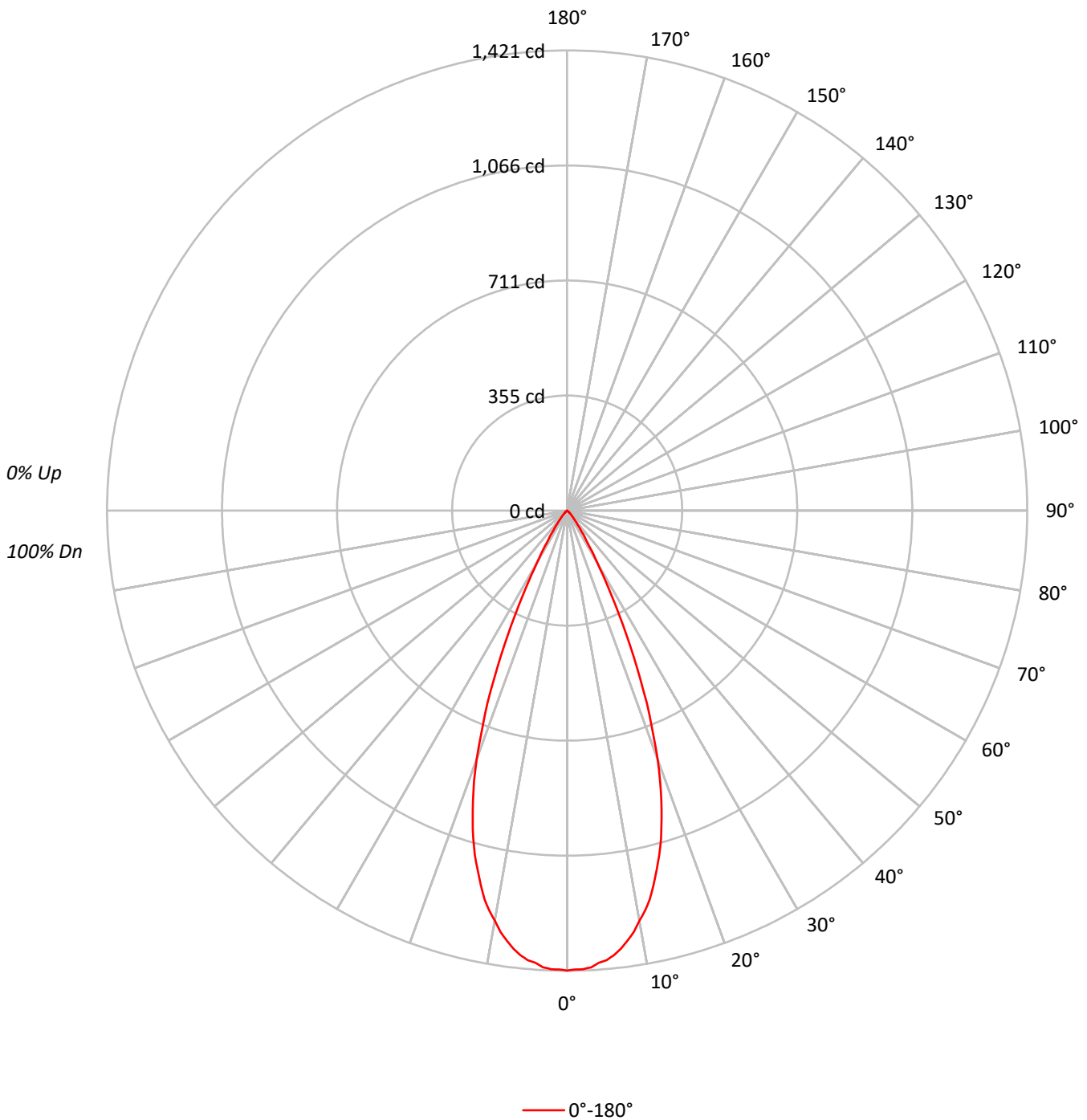
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 706.1 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): 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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	105	100	96	93	104	99	95	92	96	93	90		94	91	89		92	90	88	86
4	101	95	90	87	100	94	90	86	92	88	85		90	87	84		88	86	84	82
5	97	90	86	82	96	90	85	82	88	84	81		86	83	80		85	82	80	78
6	94	86	81	78	92	86	81	77	84	80	77		83	79	76		82	78	76	75
7	90	82	77	74	89	82	77	74	81	76	73		80	76	73		78	75	73	71
8	87	79	74	71	86	78	74	70	77	73	70		76	73	70		76	72	70	68
9	84	76	71	67	83	75	70	67	74	70	67		73	70	67		73	69	67	66
10	81	73	68	65	80	72	68	64	71	67	64		71	67	64		70	67	64	63

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

	0°
0°	700870
5°	690175
10°	644050
15°	562047
20°	429785
25°	249591
30°	105904
35°	43846
40°	19386
45°	9977
50°	4989
55°	1204
60°	691
65°	350
70°	433
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.7	18.4
10°-20°	300.1	42.5
20°-30°	209.8	29.7
30°-40°	52.0	7.4
40°-50°	12.0	1.7
50°-60°	2.0	0.3
60°-70°	0.3	0.0
70°-80°	0.1	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
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0°-30°	639.7	90.6
0°-40°	691.6	98.0
0°-60°	705.6	99.9
0°-90°	706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1421	
5°	1394	130
15°	1100	300
25°	458	210
35°	73	52
45°	14	12
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1420.6
1°	1417.5
2°	1416.8
3°	1412.4
4°	1399.7
5°	1393.6
6°	1380.9
7°	1362.8
8°	1340.6
9°	1317.7
10°	1285.6
11°	1259.3
12°	1227.2
13°	1185.5
14°	1143.1
15°	1100.4
16°	1053.3
17°	997.3
18°	940.6
19°	882.1
20°	818.6
21°	742.4
22.5°	643.7
23°	603.0
24°	529.9
25°	458.5
26°	391.5
27°	329.0
28°	274.0
29°	226.2
30°	185.9
32.5°	114.5
35°	72.8
37.5°	47.1
40°	30.1
42.5°	20.5
45°	14.3
47.5°	10.2
50°	6.5
52.5°	3.4
55°	1.4
57.5°	0.7
60°	0.7
62.5°	0.3
65°	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
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)