

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: P493770

Luminaire Tested: **LDA2B059050R30D010 2LBD1LI**

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: P493770  
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: LDA2B059050R30D010 2LBD1LI  
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

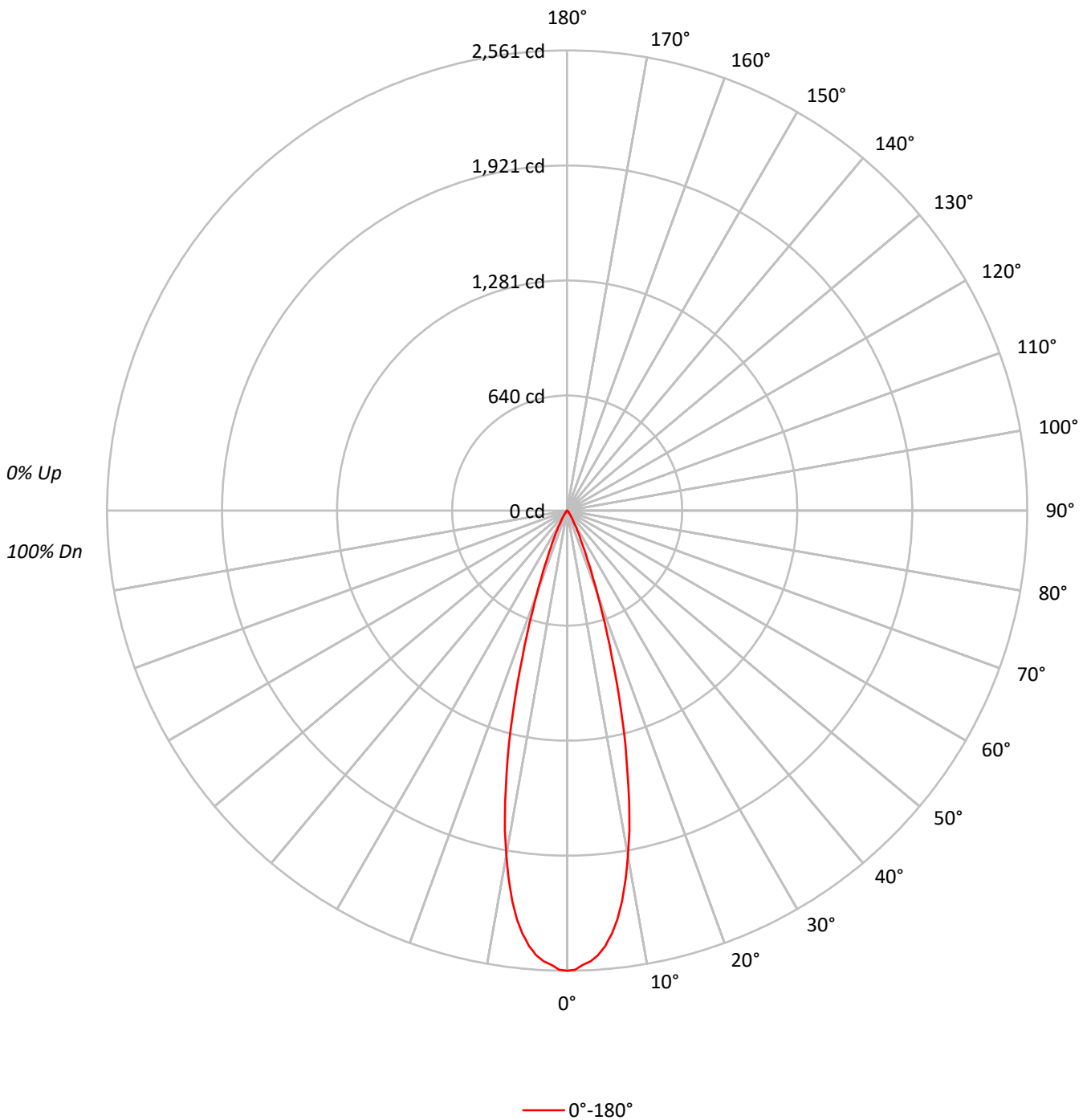
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 652.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 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): 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

TEST NUMBER: P493770  
CATALOG NUMBER: LDA2B059050R30D010 2LBD1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P493770

CATALOG NUMBER: LDA2B059050R30D010 2LBD1LI

**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		93	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°	1263648
5°	1204885
10°	977147
15°	597340
20°	260990
25°	97659
30°	40505
35°	18912
40°	8823
45°	4256
50°	2379
55°	860
60°	296
65°	350
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P493770

CATALOG NUMBER: LDA2B059050R30D010 2LBD1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.0	33.3
10°-20°	313.3	48.1
20°-30°	93.5	14.3
30°-40°	21.5	3.3
40°-50°	5.3	0.8
50°-60°	1.2	0.2
60°-70°	0.2	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°	623.9	95.7
0°-40°	645.4	99.0
0°-60°	651.8	100.0
0°-90°	652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2561	
5°	2433	217
15°	1170	313
25°	179	94
35°	31	21
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493770

CATALOG NUMBER: LDA2B059050R30D010 2LBD1LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2561.3
1°	2555.5
2°	2529.5
3°	2512.1
4°	2479.7
5°	2432.9
6°	2369.0
7°	2292.8
8°	2195.8
9°	2077.5
10°	1950.5
11°	1814.5
12°	1660.1
13°	1494.0
14°	1336.2
15°	1169.5
16°	1008.2
17°	849.3
18°	721.2
19°	596.9
20°	497.1
21°	402.8
22.5°	298.6
23°	269.2
24°	220.4
25°	179.4
26°	147.2
27°	122.7
28°	101.1
29°	84.7
30°	71.1
32.5°	46.5
35°	31.4
37.5°	20.8
40°	13.7
42.5°	8.9
45°	6.1
47.5°	4.4
50°	3.1
52.5°	2.0
55°	1.0
57.5°	0.7
60°	0.3
62.5°	0.3
65°	0.3



TEST NUMBER: P493770

CATALOG NUMBER: LDA2B059050R30D010 2LBD1LI

**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)