

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: P493730

Luminaire Tested: **LDA2B059050R20D010 2LBD1MB**

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: P493730
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: LDA2B059050R20D010 2LBD1MB
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

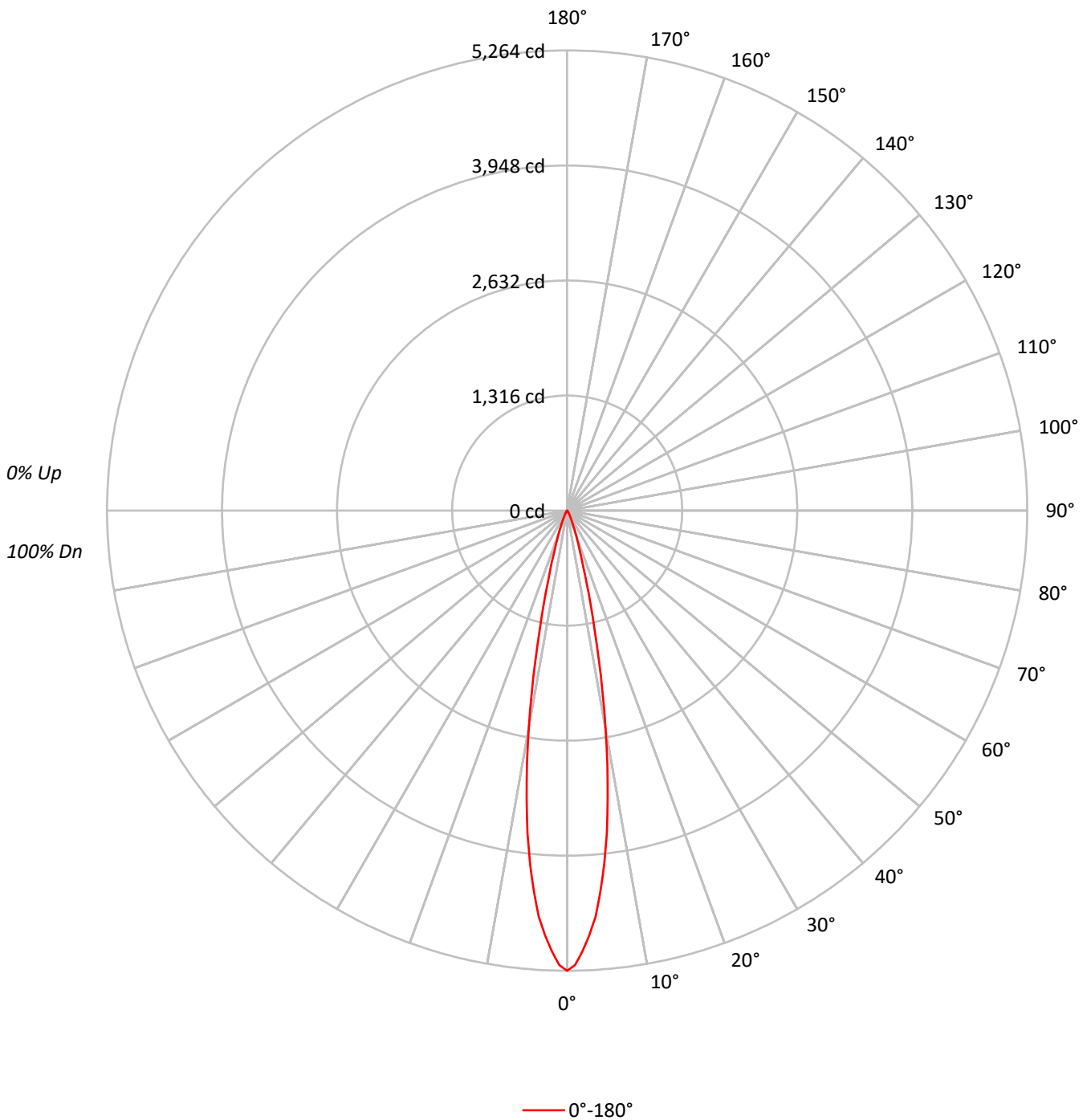
Lumens per Lamp: N/A
Luminaire Lumens: 700.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P493730

CATALOG NUMBER: LDA2B059050R20D010 2LBD1MB

Luminous Intensity Polar Plot





TEST NUMBER: P493730

CATALOG NUMBER: LDA2B059050R20D010 2LBD1MB

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°	2596908
5°	2163731
10°	1268964
15°	444468
20°	149580
25°	57648
30°	26490
35°	11745
40°	5732
45°	3349
50°	1842
55°	602
60°	296
65°	350
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P493730

CATALOG NUMBER: LDA2B059050R20D010 2LBD1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.5	51.0
10°-20°	268.4	38.3
20°-30°	56.4	8.0
30°-40°	13.5	1.9
40°-50°	3.9	0.6
50°-60°	0.8	0.1
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°	682.3	97.4
0°-40°	695.8	99.3
0°-60°	700.5	100.0
0°-90°	700.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5264	
5°	4369	357
15°	870	268
25°	106	56
35°	20	14
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P493730

CATALOG NUMBER: LDA2B059050R20D010 2LBD1MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	5263.7
1°	5199.5
2°	5042.4
3°	4861.3
4°	4658.7
5°	4369.0
6°	4061.5
7°	3720.2
8°	3330.4
9°	2936.8
10°	2533.0
11°	2117.5
12°	1751.6
13°	1394.6
14°	1110.0
15°	870.2
16°	682.6
17°	538.4
18°	432.9
19°	350.9
20°	284.9
22.5°	172.9
25°	105.9
27.5°	69.4
30°	46.5
32.5°	28.4
35°	19.5
37.5°	13.3
40°	8.9
42.5°	6.5
45°	4.8
47.5°	3.4
50°	2.4
52.5°	1.4
55°	0.7
57.5°	0.3
60°	0.3
62.5°	0.3
65°	0.3
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P493730

CATALOG NUMBER: LDA2B059050R20D010 2LBD1MB

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)