

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: P499320

Luminaire Tested: **LDA2B159040R70D010 2LBD1MW**

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: P499320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-79)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B159040R70D010 2LBD1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

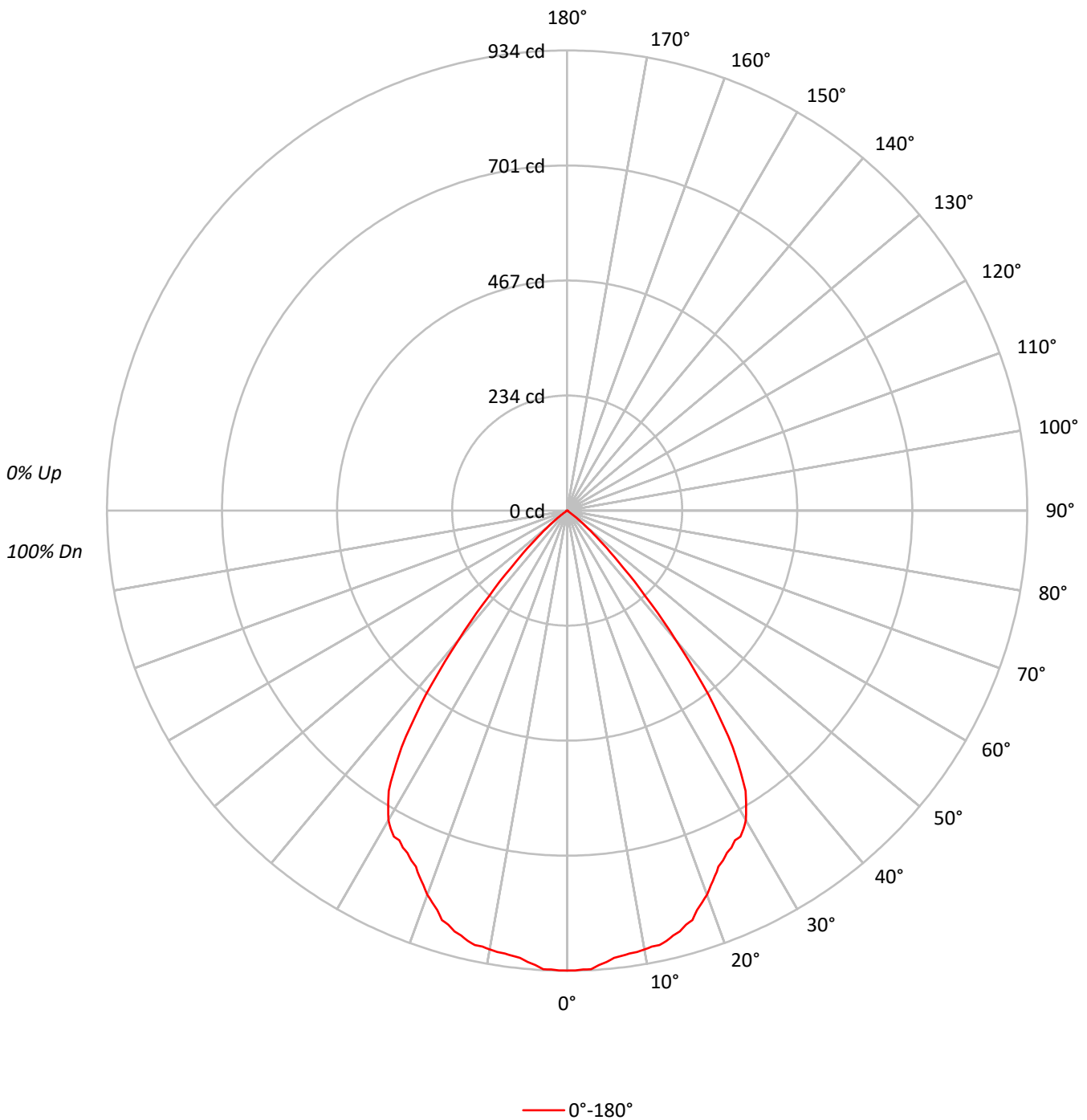
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1178.8 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): 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: P499320
CATALOG NUMBER: LDA2B159040R70D010 2LBD1MW

Luminous Intensity Polar Plot





TEST NUMBER: P499320

CATALOG NUMBER: LDA2B159040R70D010 2LBD1MW

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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	82	80	78
4	95	87	81	77	93	86	81	76	84	79	75		82	78	74		80	76	74	72
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	62	61
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66	61	58	56
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61	57	54	52
9	71	61	55	50	70	61	54	50	60	54	50		59	54	50		58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47		55	50	46		54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	460603
5°	455478
10°	453230
15°	451670
20°	435560
25°	417582
30°	413364
35°	352998
40°	220325
45°	101937
50°	36918
55°	2580
60°	1184
65°	1401
70°	865
75°	1144
80°	0
85°	0



TEST NUMBER: P499320

CATALOG NUMBER: LDA2B159040R70D010 2LBD1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	7.4
10°-20°	247.7	21.0
20°-30°	356.1	30.2
30°-40°	351.0	29.8
40°-50°	125.1	10.6
50°-60°	10.3	0.9
60°-70°	1.0	0.1
70°-80°	0.4	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°	691.0	58.6
0°-40°	1042.1	88.4
0°-60°	1177.4	99.9
0°-90°	1178.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	934	
5°	920	87
15°	884	248
25°	767	356
35°	586	351
45°	146	125
55°	3	10
65°	1	1
75°	1	0
85°	0	0
90°	0	



TEST NUMBER: P499320

CATALOG NUMBER: LDA2B159040R70D010 2LBD1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	933.6
1°	933.6
2°	931.8
3°	932.4
4°	924.6
5°	919.7
6°	913.1
7°	910.7
8°	907.7
9°	907.1
10°	904.7
11°	901.7
12°	901.7
13°	896.3
14°	889.1
15°	884.3
16°	874.7
17°	869.3
18°	852.4
19°	841.0
20°	829.6
21°	814.5
22.5°	793.5
23°	785.1
24°	777.3
25°	767.1
26°	761.0
27°	750.8
28°	749.6
29°	738.8
30°	725.6
32.5°	674.5
35°	586.1
37.5°	471.3
40°	342.1
42.5°	233.8
45°	146.1
47.5°	87.2
50°	48.1
52.5°	18.0
55°	3.0
57.5°	1.8
60°	1.2
62.5°	1.2
65°	1.2



TEST NUMBER: P499320

CATALOG NUMBER: LDA2B159040R70D010 2LBD1MW

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)