

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: P498602

Luminaire Tested: **LDA2B159027R45D010 2LBD1MMS**

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: P498602
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: LDA2B159027R45D010 2LBD1MMS
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

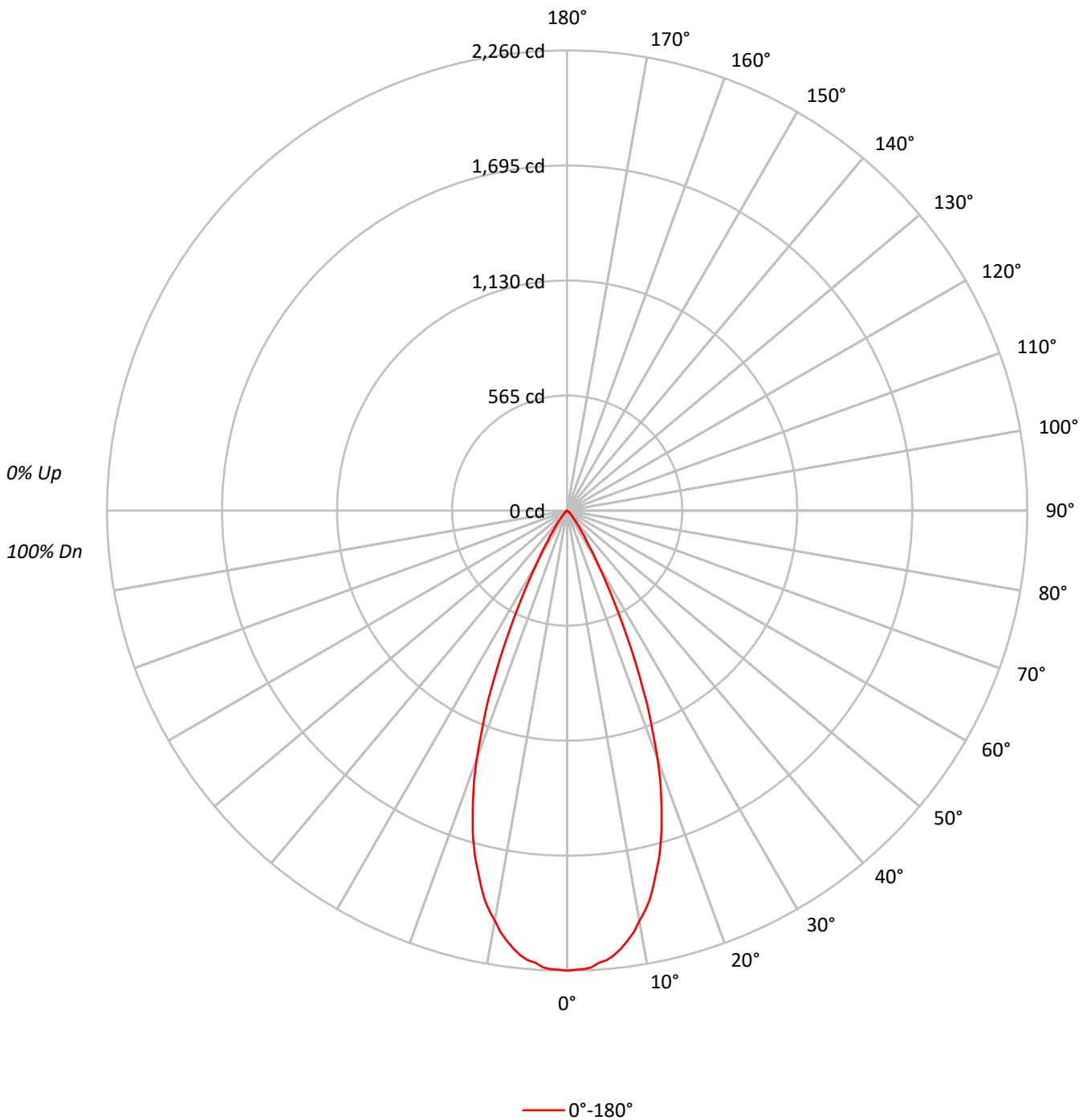
Lumens per Lamp: N/A
Luminaire Lumens: 1123.2 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.65
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P498602

CATALOG NUMBER: LDA2B159027R45D010 2LBD1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P498602

CATALOG NUMBER: LDA2B159027R45D010 2LBD1MMS

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91				91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86				86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82				82
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78				78
6	94	86	81	78	92	86	81	77	84	80	77	83	79	76	82	78	76	75				75
7	90	82	77	74	89	82	77	74	81	76	73	80	76	73	78	75	73	71				71
8	87	79	74	71	86	78	74	70	77	73	70	76	73	70	76	72	70	68				68
9	84	76	71	67	83	75	70	67	74	70	67	73	70	67	73	69	67	66				66
10	81	73	68	65	80	72	68	64	71	67	64	71	67	64	70	67	64	63				63

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1114850
5°	1097862
10°	1024489
15°	894095
20°	683635
25°	397005
30°	168399
35°	69744
40°	30785
45°	15908
50°	7906
55°	1892
60°	1085
65°	584
70°	721
75°	0
80°	0
85°	0



TEST NUMBER: P498602

CATALOG NUMBER: LDA2B159027R45D010 2LBD1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	18.4
10°-20°	477.4	42.5
20°-30°	333.8	29.7
30°-40°	82.7	7.4
40°-50°	19.1	1.7
50°-60°	3.2	0.3
60°-70°	0.6	0.1
70°-80°	0.2	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°	1017.5	90.6
0°-40°	1100.2	97.9
0°-60°	1122.5	99.9
0°-90°	1123.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2260	
5°	2217	206
15°	1750	477
25°	729	334
35°	116	83
45°	23	19
55°	2	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P498602

CATALOG NUMBER: LDA2B159027R45D010 2LBD1MMS

CANDELA DISTRIBUTION (FULL):

0°	
0°	2259.7
1°	2254.8
2°	2253.7
3°	2246.7
4°	2226.6
5°	2216.8
6°	2196.7
7°	2167.9
8°	2132.5
9°	2096.1
10°	2045.0
11°	2003.2
12°	1952.1
13°	1885.8
14°	1818.4
15°	1750.5
16°	1675.5
17°	1586.4
18°	1496.1
19°	1403.2
20°	1302.1
21°	1180.9
22.5°	1023.9
23°	959.2
24°	842.9
25°	729.3
26°	622.8
27°	523.4
28°	435.9
29°	359.8
30°	295.6
32.5°	182.1
35°	115.8
37.5°	75.0
40°	47.8
42.5°	32.6
45°	22.8
47.5°	16.3
50°	10.3
52.5°	5.4
55°	2.2
57.5°	1.1
60°	1.1
62.5°	0.5
65°	0.5



TEST NUMBER: P498602

CATALOG NUMBER: LDA2B159027R45D010 2LBD1MMS

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
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)