

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: P499153

Luminaire Tested: **LDA2B159040R20D010 2LBDL1MMS**

Issue Date: 3/9/2021

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: P499153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B159040R20D010 2LBDL1MMS
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

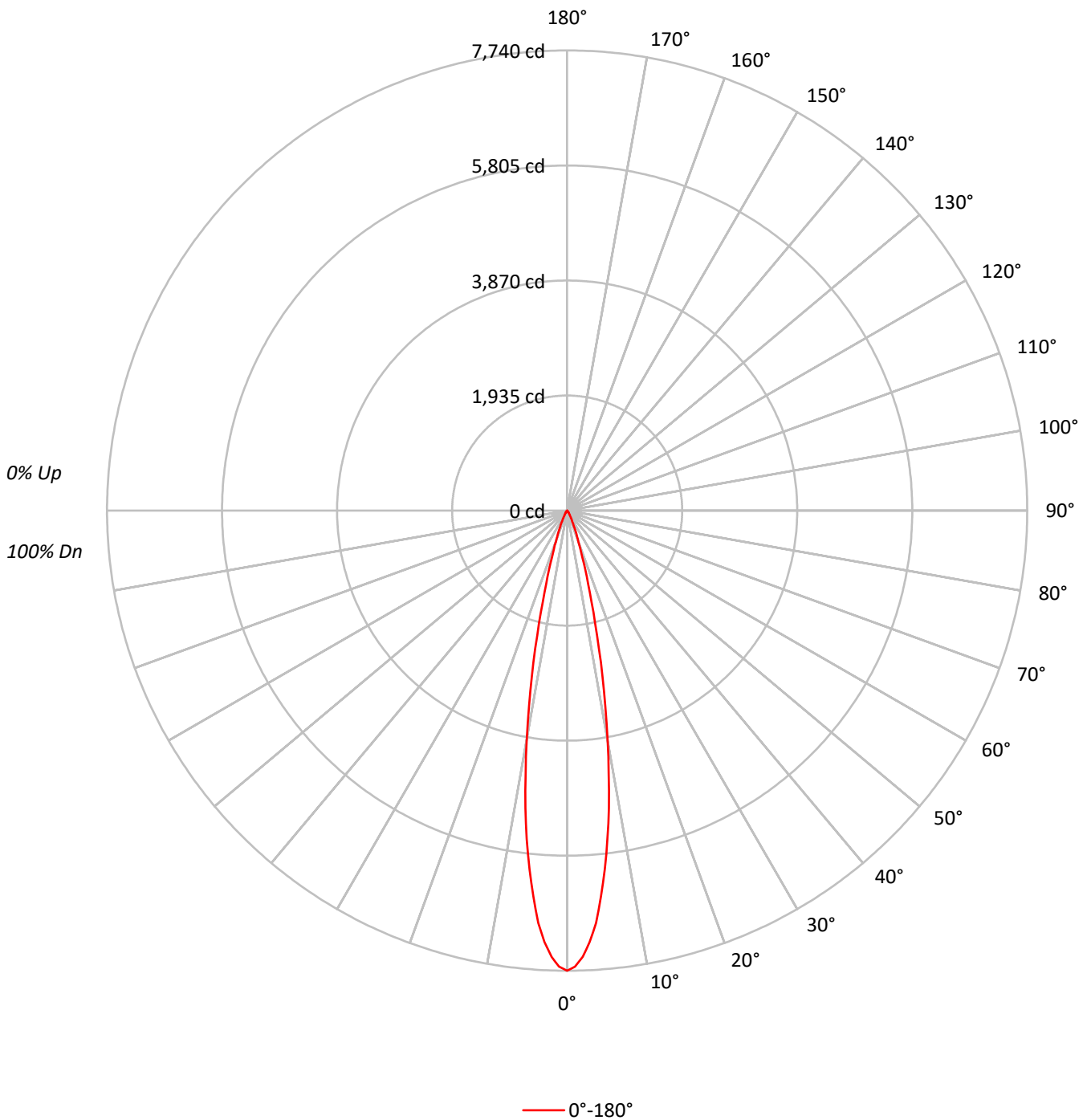
Lumens per Lamp: N/A
Luminaire Lumens: 1155.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.34
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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: P499153

CATALOG NUMBER: LDA2B159040R20D010 2LBDL1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P499153

CATALOG NUMBER: LDA2B159040R20D010 2LBDL1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95	95	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92	92	92
4	106	101	98	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	90	90
5	103	98	94	92	102	97	94	91	96	93	90	94	92	90	93	91	89	88	88	88
6	101	95	91	89	100	95	91	88	93	90	88	92	89	87	91	89	87	86	86	86
7	98	93	89	86	97	92	89	86	91	88	86	90	87	85	89	87	85	84	84	84
8	96	90	87	84	95	90	86	84	89	86	84	88	85	83	87	85	83	82	82	82
9	94	88	85	82	93	88	84	82	87	84	82	86	84	82	86	83	81	81	81	81
10	92	86	83	80	91	86	83	80	85	82	80	85	82	80	84	82	80	79	79	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3818472
5°	3227520
10°	1966568
15°	809053
20°	291336
25°	116821
30°	53095
35°	24995
40°	13138
45°	7117
50°	4145
55°	2064
60°	1184
65°	700
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P499153

CATALOG NUMBER: LDA2B159040R20D010 2LBDL1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	46.5
10°-20°	464.9	40.3
20°-30°	112.1	9.7
30°-40°	28.7	2.5
40°-50°	8.6	0.7
50°-60°	2.5	0.2
60°-70°	0.6	0.1
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°	1114.6	96.5
0°-40°	1143.4	99.0
0°-60°	1154.5	99.9
0°-90°	1155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7740	
5°	6517	538
15°	1584	465
25°	215	112
35°	42	29
45°	10	9
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P499153

CATALOG NUMBER: LDA2B159040R20D010 2LBDL1MMS

CANDELA DISTRIBUTION (FULL):

0°	
0°	7739.7
1°	7672.4
2°	7511.9
3°	7267.8
4°	6953.4
5°	6517.0
6°	6066.1
7°	5568.4
8°	5051.4
9°	4471.3
10°	3925.5
11°	3355.0
12°	2854.8
13°	2381.7
14°	1947.7
15°	1584.0
16°	1283.4
17°	1036.4
18°	836.2
19°	687.7
20°	554.9
22.5°	342.1
25°	214.6
27.5°	139.5
30°	93.2
32.5°	61.3
35°	41.5
37.5°	28.9
40°	20.4
42.5°	14.4
45°	10.2
47.5°	7.8
50°	5.4
52.5°	3.6
55°	2.4
57.5°	1.8
60°	1.2
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P499153

CATALOG NUMBER: LDA2B159040R20D010 2LBDL1MMS

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)