

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: P499182

Luminaire Tested: **LDA2B159040R30D010 2LBDC1MMS-30DEG TILT**

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: P499182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B159040R30D010 2LBDC1MMS-30DEG TILT
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

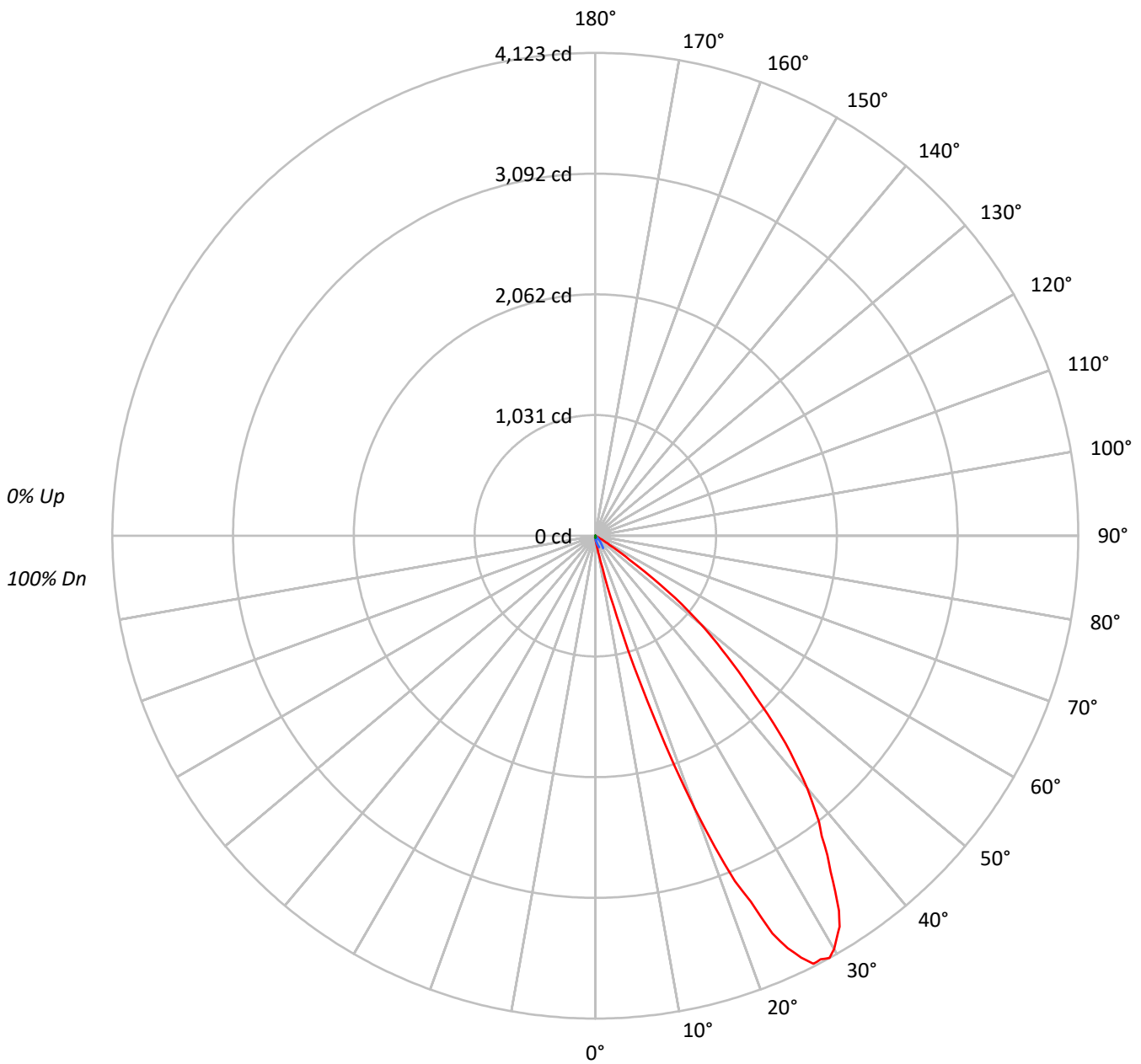
Lumens per Lamp: N/A
Luminaire Lumens: 829.2 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P499182

CATALOG NUMBER: LDA2B159040R30D010 2LBDC1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P499182

CATALOG NUMBER: LDA2B159040R30D010 2LBDC1MMS-30DEG TILT

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	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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90									90																			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80									80																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71									71																			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63									63																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56									56																			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49									49																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44									44																			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39									39																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34									34																			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31									31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9177	9177	9177
5°	19958	8320	5943
10°	59916	7214	3908
15°	363563	5210	3065
20°	1301589	2835	1260
25°	2115292	980	0
30°	2321581	342	0
35°	2109739	0	0
40°	1810713	0	0
45°	1342202	0	0
50°	907533	0	0
55°	306643	516	0
60°	43909	1184	0
65°	3502	1401	0
70°	0	1731	0
75°	0	3431	0
80°	0	3409	0
85°	0	6793	0



TEST NUMBER: P499182

CATALOG NUMBER: LDA2B159040R30D010 2LBDC1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.3
10°-20°	42.7	5.2
20°-30°	242.5	29.2
30°-40°	315.9	38.1
40°-50°	185.1	22.3
50°-60°	37.4	4.5
60°-70°	1.4	0.2
70°-80°	1.0	0.1
80°-90°	0.8	0.1
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°	287.6	34.7
0°-40°	603.5	72.8
0°-60°	826.0	99.6
0°-90°	829.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	40	29	17	13	12	6
15°	712	81	10	7	6	301
25°	3886	136	2	1	0	1718
35°	3503	100	0	0	0	2181
45°	1924	25	0	0	0	1503
55°	356	2	1	1	0	416
65°	3	1	1	1	0	8
75°	0	1	2	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P499182

CATALOG NUMBER: LDA2B159040R30D010 2LBDC1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	25.2	23.4	22.2	19.2	17.4	16.2	15.6	15.0	14.4
5°	40.3	37.3	28.9	21.0	16.8	14.4	13.2	12.0	12.0
7.5°	69.1	55.9	37.9	22.2	15.6	12.6	11.4	9.6	9.0
10°	119.6	93.2	51.7	23.4	14.4	11.4	9.0	8.4	7.8
12.5°	280.7	170.1	65.5	23.4	12.6	9.6	7.8	7.2	6.6
15°	711.8	346.9	81.2	22.2	10.2	7.2	6.6	6.0	6.0
17.5°	1476.4	712.4	98.6	20.4	8.4	5.4	4.8	4.2	4.2
20°	2479.1	1276.8	115.4	17.4	5.4	3.6	3.0	2.4	2.4
21°	2848.2	1481.8	123.8	16.2	4.8	3.0	2.4	2.4	1.8
22°	3180.0	1670.0	128.6	15.6	3.6	2.4	2.4	1.8	1.8
23°	3394.1	1908.6	132.9	13.8	3.0	1.8	1.8	1.2	0.6
24°	3716.9	2095.6	134.7	12.6	2.4	1.8	1.2	0.6	0.6
25°	3885.8	2265.1	136.5	11.4	1.8	1.8	1.2	0.6	0.0
26°	4007.2	2399.2	143.1	10.8	1.8	1.2	1.2	0.6	0.0
27°	4102.2	2484.5	146.7	9.6	1.2	1.2	1.2	0.0	0.0
28°	4096.8	2546.4	143.7	8.4	1.2	1.2	0.6	0.0	0.0
29°	4122.6	2588.5	141.9	7.2	0.6	0.6	0.6	0.0	0.0
30°	4075.2	2592.1	135.3	6.6	0.6	0.6	0.6	0.0	0.0
31°	4003.0	2548.2	132.9	6.0	0.0	0.6	0.6	0.0	0.0
32°	3935.1	2528.4	125.0	4.8	0.0	0.6	0.6	0.0	0.0
33°	3818.5	2439.4	117.2	4.2	0.0	0.6	0.0	0.0	0.0
34°	3662.2	2352.3	110.0	3.6	0.0	0.6	0.0	0.0	0.0
35°	3502.9	2280.1	99.8	3.6	0.0	0.6	0.0	0.0	0.0
36°	3370.6	2149.1	92.6	3.0	0.0	0.6	0.0	0.0	0.0
37°	3210.1	2036.7	83.0	2.4	0.0	0.0	0.0	0.0	0.0
38°	3100.7	1878.6	75.7	2.4	0.0	0.0	0.0	0.0	0.0
39°	2953.4	1745.1	66.7	1.8	0.0	0.0	0.0	0.0	0.0
40°	2811.5	1606.9	57.7	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	2404.6	1239.6	39.7	0.6	0.0	0.0	0.0	0.0	0.0
45°	1923.7	908.9	24.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1527.5	613.8	15.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	1182.4	316.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	786.3	134.1	5.4	0.0	0.0	0.6	0.0	0.0	0.0
55°	356.5	69.7	2.4	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	143.7	30.1	1.2	0.6	0.6	0.6	0.6	0.0	0.0
60°	44.5	8.4	0.6	0.6	1.2	1.2	0.6	0.0	0.0
62.5°	9.0	1.8	0.6	1.2	1.2	1.2	0.6	0.0	0.0
65°	3.0	0.6	0.6	1.2	1.2	1.2	1.2	0.0	0.0
67.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.0
70°	0.0	0.6	1.2	1.2	1.2	1.8	1.2	0.6	0.0
72.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
75°	0.0	0.6	1.2	1.2	1.8	1.8	1.2	0.6	0.0
77.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
80°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0



TEST NUMBER: P499182

CATALOG NUMBER: LDA2B159040R30D010 2LBDC1MMS-30DEG TILT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
85°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.0	0.0
87.5°	0.0	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)