

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: P493968

Luminaire Tested: **LDA2B059727R20D010 2LBDL1MMS-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: P493968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059727R20D010 2LBDL1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

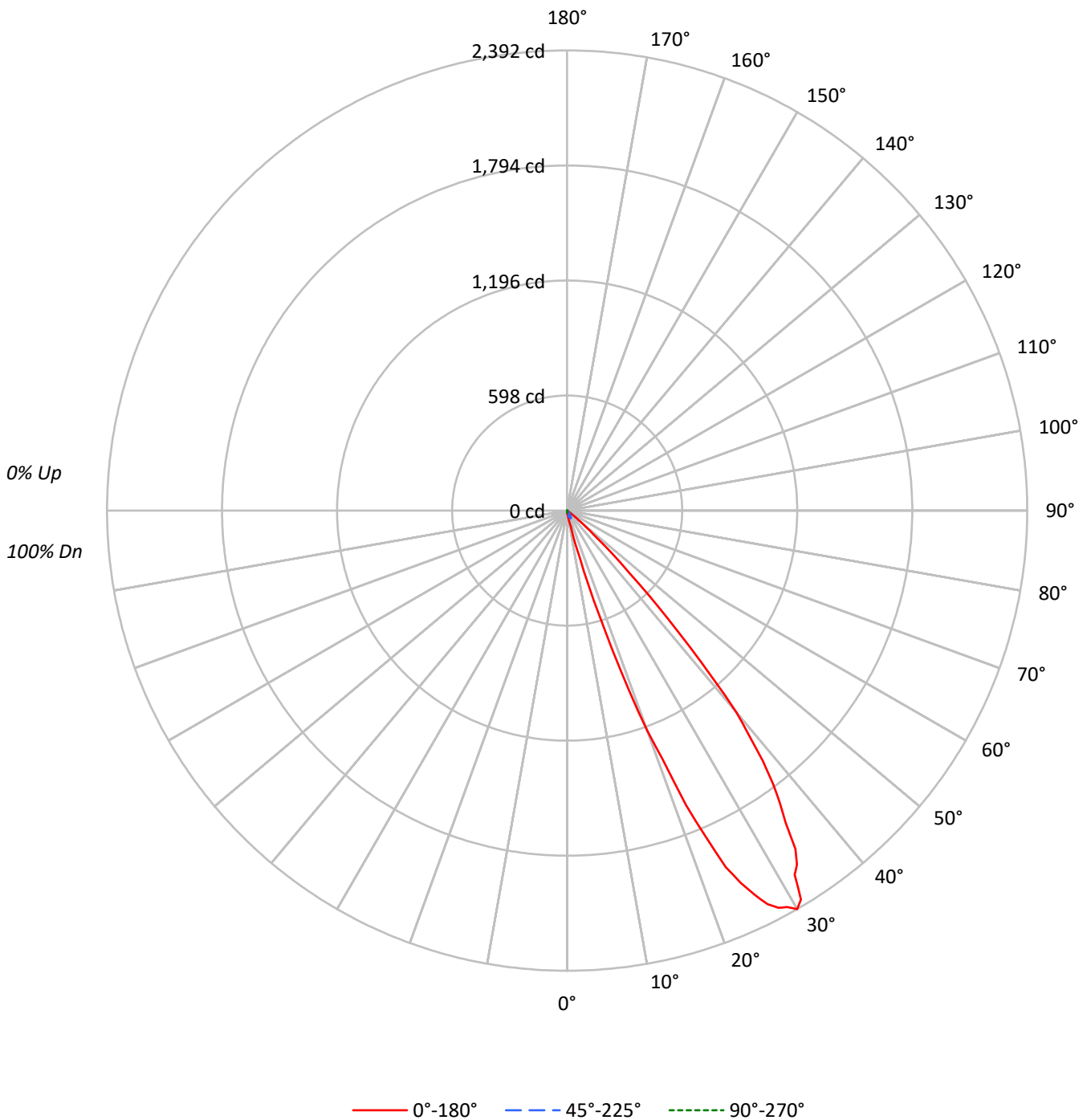
Lumens per Lamp: N/A
Luminaire Lumens: 302.1 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P493968

CATALOG NUMBER: LDA2B059727R20D010 2LBDL1MMS-30DEG TILT

Luminous Intensity Polar Plot





TEST NUMBER: P493968

CATALOG NUMBER: LDA2B059727R20D010 2LBDL1MMS-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	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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4786	4786	4786
5°	9162	4259	3120
10°	21943	3707	2104
15°	127743	2962	817
20°	637275	1838	263
25°	1162000	653	0
30°	1362858	0	0
35°	1192883	0	0
40°	880915	0	0
45°	317532	0	0
50°	66161	0	0
55°	15139	172	0
60°	4835	197	0
65°	1051	584	0
70°	0	721	288
75°	0	953	0
80°	0	1421	0
85°	0	2830	0



TEST NUMBER: P493968

CATALOG NUMBER: LDA2B059727R20D010 2LBDL1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	16.6	5.5
20°-30°	111.9	37.0
30°-40°	130.7	43.3
40°-50°	38.1	12.6
50°-60°	2.5	0.8
60°-70°	0.5	0.2
70°-80°	0.4	0.1
80°-90°	0.3	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°	129.6	42.9
0°-40°	260.2	86.1
0°-60°	300.9	99.6
0°-90°	302.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	18	13	9	7	6	3
15°	250	28	6	3	2	130
25°	2135	44	1	0	0	945
35°	1981	24	0	0	0	1217
45°	455	5	0	0	0	419
55°	18	1	0	0	0	22
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CATALOG NUMBER: LDA2B059727R20D010 2LBDL1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2.5°	12.5	12.5	11.1	10.0	9.0	8.6	8.3	7.9	7.6
5°	18.5	16.2	13.4	10.4	8.6	7.9	7.2	6.5	6.3
7.5°	27.1	23.6	16.2	10.7	8.1	6.9	6.3	5.6	5.1
10°	43.8	34.0	19.9	10.7	7.4	6.0	5.1	4.4	4.2
12.5°	80.8	52.1	23.9	10.4	6.7	5.1	3.9	3.5	2.8
15°	250.1	107.9	28.3	10.0	5.8	3.9	3.0	1.9	1.6
17.5°	646.8	252.0	31.5	8.8	4.6	2.8	1.4	1.2	1.2
20°	1213.8	456.9	36.1	7.6	3.5	1.9	0.9	0.7	0.5
21°	1384.7	559.1	38.4	7.2	3.0	1.2	0.7	0.2	0.2
22°	1650.3	670.5	40.3	6.7	2.5	0.7	0.5	0.2	0.0
23°	1839.5	741.6	42.1	6.0	1.9	0.7	0.2	0.0	0.0
24°	2028.7	832.1	43.3	5.6	1.6	0.5	0.2	0.0	0.0
25°	2134.6	907.6	43.8	5.1	1.2	0.2	0.0	0.0	0.0
26°	2221.7	958.1	44.0	4.6	0.7	0.0	0.0	0.0	0.0
27°	2296.2	1016.7	43.5	4.2	0.7	0.0	0.0	0.0	0.0
28°	2338.6	1026.4	42.8	3.7	0.2	0.0	0.0	0.0	0.0
29°	2356.9	1014.6	40.8	3.2	0.2	0.0	0.0	0.0	0.0
30°	2392.3	1003.5	38.7	3.0	0.0	0.0	0.0	0.0	0.0
31°	2359.7	966.7	36.1	2.5	0.0	0.0	0.0	0.0	0.0
32°	2231.9	935.6	33.1	2.1	0.0	0.0	0.0	0.0	0.0
33°	2193.6	871.9	29.9	1.9	0.0	0.0	0.0	0.0	0.0
34°	2121.6	777.2	27.1	1.6	0.0	0.0	0.0	0.0	0.0
35°	1980.6	698.9	23.6	1.4	0.0	0.0	0.0	0.0	0.0
36°	1882.1	609.6	20.6	1.2	0.0	0.0	0.0	0.0	0.0
37°	1779.1	531.5	18.3	0.9	0.0	0.0	0.0	0.0	0.0
38°	1651.0	449.5	15.5	0.7	0.0	0.0	0.0	0.0	0.0
39°	1501.9	371.5	13.2	0.7	0.0	0.0	0.0	0.0	0.0
40°	1367.8	299.4	11.3	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	844.2	170.9	6.7	0.5	0.0	0.0	0.0	0.0	0.0
45°	455.1	103.8	4.9	0.2	0.0	0.0	0.0	0.0	0.0
47.5°	209.6	48.4	3.5	0.2	0.0	0.0	0.0	0.0	0.0
50°	86.2	21.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	31.0	12.0	1.6	0.0	0.0	0.2	0.0	0.0	0.0
55°	17.6	6.9	0.9	0.2	0.2	0.2	0.2	0.0	0.0
57.5°	8.3	3.9	0.2	0.2	0.2	0.2	0.2	0.0	0.0
60°	4.9	2.1	0.2	0.2	0.2	0.5	0.2	0.0	0.0
62.5°	2.3	0.7	0.2	0.5	0.5	0.5	0.5	0.2	0.0
65°	0.9	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.0
67.5°	0.2	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
70°	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
72.5°	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
75°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
77.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
80°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
85°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
87.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.2	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)