

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: P493127

Luminaire Tested: **LDA2B059030R30D010 2LBD1MW-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: P493127  
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: LDA2B059030R30D010 2LBD1MW-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

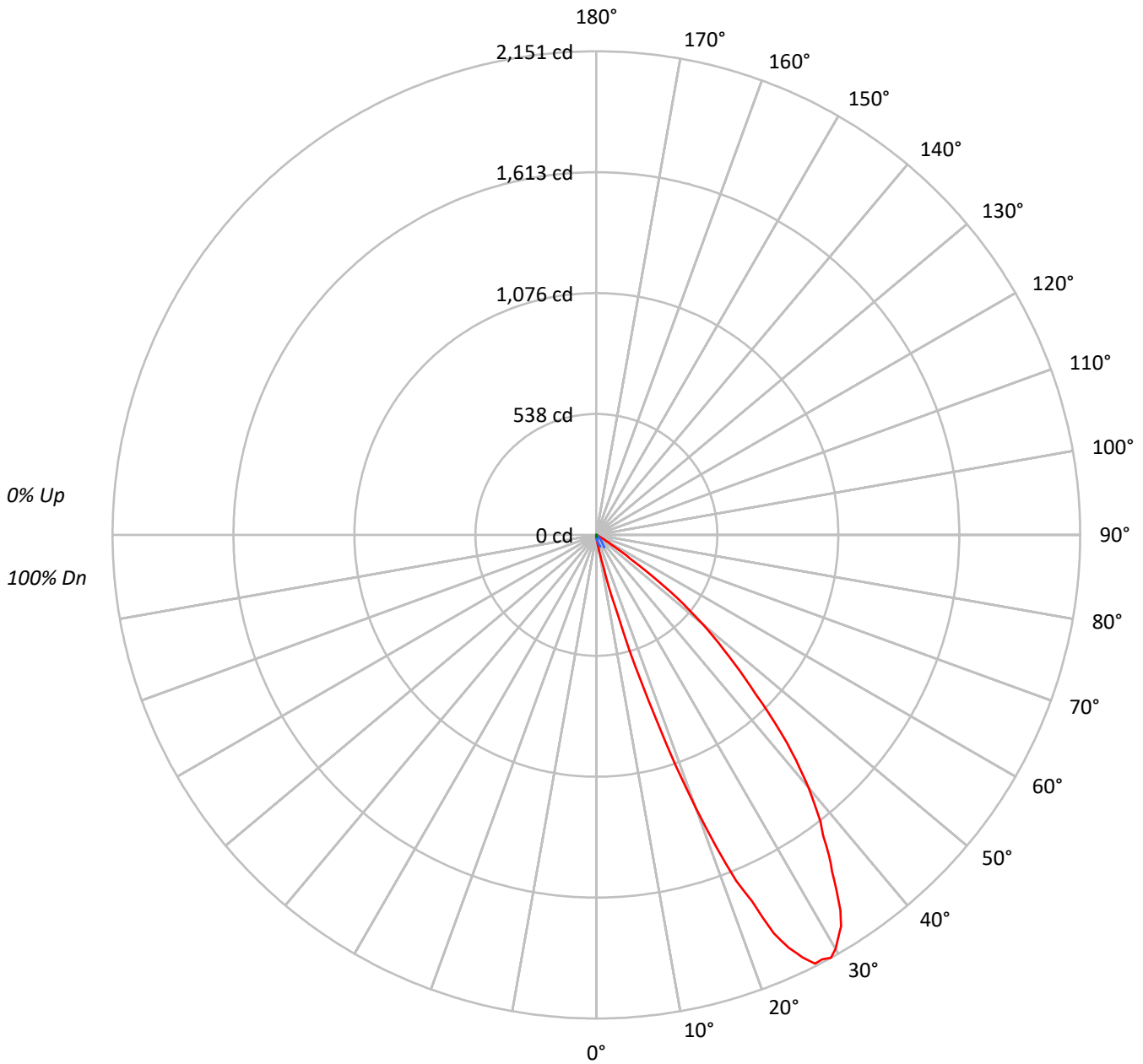
Lumens per Lamp: N/A  
Luminaire Lumens: 432.6 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P493127

CATALOG NUMBER: LDA2B059030R30D010 2LBD1MW-30DEG TILT

### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ····· 90°-270°



TEST NUMBER: P493127

CATALOG NUMBER: LDA2B059030R30D010 2LBD1MW-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	4786	4786	4786
5°	10400	4358	3120
10°	31261	3757	2054
15°	189698	2707	1583
20°	679119	1470	683
25°	1103699	490	0
30°	1211321	171	0
35°	1100794	0	0
40°	944804	0	0
45°	700300	0	0
50°	473569	0	0
55°	159988	258	0
60°	22892	592	0
65°	1868	700	0
70°	0	865	0
75°	0	1716	0
80°	0	1705	0
85°	0	3396	0



TEST NUMBER: P493127

CATALOG NUMBER: LDA2B059030R30D010 2LBD1MW-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.3	0.3
10°-20°	22.3	5.2
20°-30°	126.5	29.2
30°-40°	164.8	38.1
40°-50°	96.6	22.3
50°-60°	19.5	4.5
60°-70°	0.7	0.2
70°-80°	0.5	0.1
80°-90°	0.4	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°	150.1	34.7
0°-40°	314.9	72.8
0°-60°	431.0	99.6
0°-90°	432.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	21	15	9	7	6	3
15°	371	42	5	4	3	157
25°	2028	71	1	1	0	897
35°	1828	52	0	0	0	1138
45°	1004	13	0	0	0	784
55°	186	1	0	0	0	217
65°	2	0	1	1	0	4
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P493127

CATALOG NUMBER: LDA2B059030R30D010 2LBD1MW-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°	13.2	12.2	11.6	10.0	9.1	8.5	8.2	7.8	7.5
5°	21.0	19.4	15.1	11.0	8.8	7.5	6.9	6.3	6.3
7.5°	36.1	29.2	19.8	11.6	8.2	6.6	6.0	5.0	4.7
10°	62.4	48.6	27.0	12.2	7.5	6.0	4.7	4.4	4.1
12.5°	146.5	88.8	34.2	12.2	6.6	5.0	4.1	3.8	3.5
15°	371.4	181.0	42.3	11.6	5.3	3.8	3.5	3.1	3.1
17.5°	770.3	371.7	51.4	10.7	4.4	2.8	2.5	2.2	2.2
20°	1293.5	666.2	60.2	9.1	2.8	1.9	1.6	1.3	1.3
21°	1486.1	773.2	64.6	8.5	2.5	1.6	1.3	1.3	0.9
22°	1659.2	871.3	67.1	8.2	1.9	1.3	1.3	0.9	0.9
23°	1770.9	995.9	69.3	7.2	1.6	0.9	0.9	0.6	0.3
24°	1939.3	1093.4	70.3	6.6	1.3	0.9	0.6	0.3	0.3
25°	2027.5	1181.8	71.2	6.0	0.9	0.9	0.6	0.3	0.0
26°	2090.8	1251.8	74.6	5.6	0.9	0.6	0.6	0.3	0.0
27°	2140.4	1296.3	76.5	5.0	0.6	0.6	0.6	0.0	0.0
28°	2137.6	1328.6	75.0	4.4	0.6	0.6	0.3	0.0	0.0
29°	2151.0	1350.6	74.0	3.8	0.3	0.3	0.3	0.0	0.0
30°	2126.3	1352.5	70.6	3.5	0.3	0.3	0.3	0.0	0.0
31°	2088.6	1329.6	69.3	3.1	0.0	0.3	0.3	0.0	0.0
32°	2053.2	1319.2	65.2	2.5	0.0	0.3	0.3	0.0	0.0
33°	1992.3	1272.8	61.2	2.2	0.0	0.3	0.0	0.0	0.0
34°	1910.8	1227.3	57.4	1.9	0.0	0.3	0.0	0.0	0.0
35°	1827.7	1189.7	52.1	1.9	0.0	0.3	0.0	0.0	0.0
36°	1758.7	1121.3	48.3	1.6	0.0	0.3	0.0	0.0	0.0
37°	1674.9	1062.7	43.3	1.3	0.0	0.0	0.0	0.0	0.0
38°	1617.8	980.2	39.5	1.3	0.0	0.0	0.0	0.0	0.0
39°	1541.0	910.5	34.8	0.9	0.0	0.0	0.0	0.0	0.0
40°	1467.0	838.4	30.1	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1254.6	646.8	20.7	0.3	0.0	0.0	0.0	0.0	0.0
45°	1003.7	474.2	12.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	797.0	320.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	617.0	165.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	410.3	69.9	2.8	0.0	0.0	0.3	0.0	0.0	0.0
55°	186.0	36.4	1.3	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	75.0	15.7	0.6	0.3	0.3	0.3	0.3	0.0	0.0
60°	23.2	4.4	0.3	0.3	0.6	0.6	0.3	0.0	0.0
62.5°	4.7	0.9	0.3	0.6	0.6	0.6	0.3	0.0	0.0
65°	1.6	0.3	0.3	0.6	0.6	0.6	0.6	0.0	0.0
67.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
70°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.0
72.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
75°	0.0	0.3	0.6	0.6	0.9	0.9	0.6	0.3	0.0
77.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
80°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0



TEST NUMBER: P493127

CATALOG NUMBER: LDA2B059030R30D010 2LBD1MW-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
85°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.3	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)