

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: P491640

Luminaire Tested: **LDA2B058027R30D010 2LBDLC1MW-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: P491640  
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: LDA2B058027R30D010 2LBDLC1MW-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

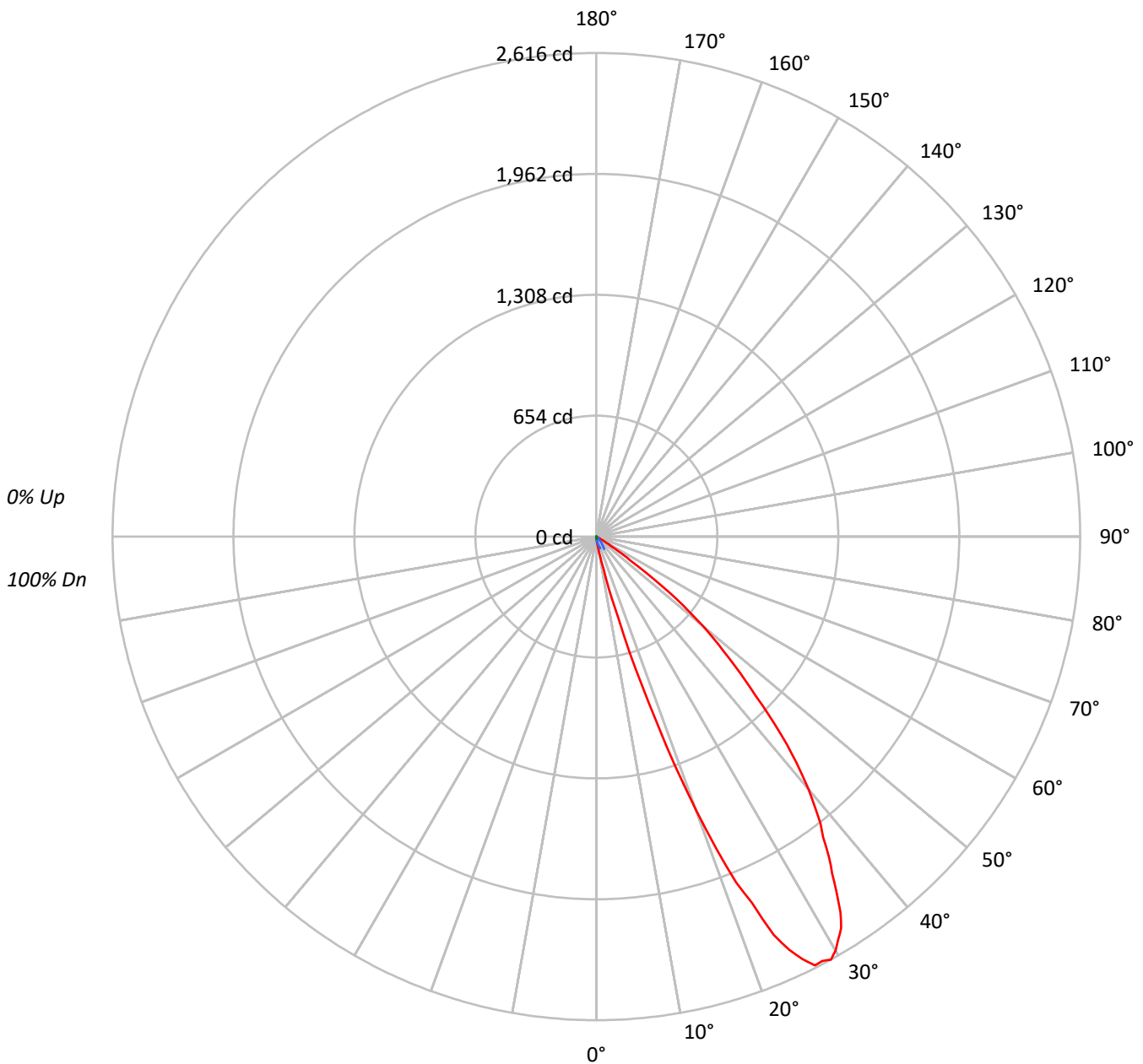
Lumens per Lamp: N/A  
Luminaire Lumens: 526.3 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P491640

CATALOG NUMBER: LDA2B058027R30D010 2LBDLC1MW-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P491640

CATALOG NUMBER: LDA2B058027R30D010 2LBDLC1MW-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	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	57					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	44	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°	5822	5822	5822
5°	12678	5299	3764
10°	38024	4609	2505
15°	230713	3320	1941
20°	826021	1785	788
25°	1342403	599	0
30°	1473320	228	0
35°	1338876	0	0
40°	1149157	0	0
45°	851775	0	0
50°	575958	0	0
55°	194566	344	0
60°	27826	789	0
65°	2218	934	0
70°	0	1154	0
75°	0	2097	0
80°	0	2273	0
85°	0	4529	0



TEST NUMBER: P491640

CATALOG NUMBER: LDA2B058027R30D010 2LBDLC1MW-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.5	0.3
10°-20°	27.1	5.2
20°-30°	153.9	29.2
30°-40°	200.5	38.1
40°-50°	117.4	22.3
50°-60°	23.7	4.5
60°-70°	0.9	0.2
70°-80°	0.7	0.1
80°-90°	0.5	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°	182.5	34.7
0°-40°	383.0	72.8
0°-60°	524.2	99.6
0°-90°	526.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	26	18	11	8	8	4
15°	452	52	6	4	4	191
25°	2466	87	1	1	0	1091
35°	2223	63	0	0	0	1384
45°	1221	16	0	0	0	954
55°	226	2	0	0	0	264
65°	2	0	1	1	0	5
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P491640

CATALOG NUMBER: LDA2B058027R30D010 2LBDLC1MW-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	16.0	14.9	14.1	12.2	11.1	10.3	9.9	9.5	9.2
5°	25.6	23.7	18.3	13.4	10.7	9.2	8.4	7.6	7.6
7.5°	43.9	35.5	24.0	14.1	9.9	8.0	7.2	6.1	5.7
10°	75.9	59.1	32.8	14.9	9.2	7.2	5.7	5.3	5.0
12.5°	178.2	108.0	41.6	14.9	8.0	6.1	5.0	4.6	4.2
15°	451.7	220.1	51.5	14.1	6.5	4.6	4.2	3.8	3.8
17.5°	937.0	452.1	62.6	13.0	5.3	3.4	3.1	2.7	2.7
20°	1573.3	810.3	73.2	11.1	3.4	2.3	1.9	1.5	1.5
21°	1807.5	940.4	78.6	10.3	3.1	1.9	1.5	1.5	1.1
22°	2018.1	1059.8	81.6	9.9	2.3	1.5	1.5	1.1	1.1
23°	2153.9	1211.3	84.3	8.8	1.9	1.1	1.1	0.8	0.4
24°	2358.8	1329.9	85.5	8.0	1.5	1.1	0.8	0.4	0.4
25°	2466.0	1437.5	86.6	7.2	1.1	1.1	0.8	0.4	0.0
26°	2543.1	1522.6	90.8	6.9	1.1	0.8	0.8	0.4	0.0
27°	2603.4	1576.7	93.1	6.1	0.8	0.8	0.8	0.0	0.0
28°	2599.9	1616.0	91.2	5.3	0.8	0.8	0.4	0.0	0.0
29°	2616.3	1642.7	90.0	4.6	0.4	0.4	0.4	0.0	0.0
30°	2586.2	1645.0	85.8	4.2	0.4	0.4	0.4	0.0	0.0
31°	2540.4	1617.2	84.3	3.8	0.0	0.4	0.4	0.0	0.0
32°	2497.3	1604.6	79.4	3.1	0.0	0.4	0.4	0.0	0.0
33°	2423.3	1548.1	74.4	2.7	0.0	0.4	0.0	0.0	0.0
34°	2324.1	1492.8	69.8	2.3	0.0	0.4	0.0	0.0	0.0
35°	2223.0	1447.0	63.3	2.3	0.0	0.4	0.0	0.0	0.0
36°	2139.1	1363.9	58.8	1.9	0.0	0.4	0.0	0.0	0.0
37°	2037.2	1292.5	52.6	1.5	0.0	0.0	0.0	0.0	0.0
38°	1967.8	1192.2	48.1	1.5	0.0	0.0	0.0	0.0	0.0
39°	1874.3	1107.5	42.3	1.1	0.0	0.0	0.0	0.0	0.0
40°	1784.3	1019.7	36.6	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1526.0	786.7	25.2	0.4	0.0	0.0	0.0	0.0	0.0
45°	1220.8	576.8	15.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	969.4	389.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	750.4	200.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	499.0	85.1	3.4	0.0	0.0	0.4	0.0	0.0	0.0
55°	226.2	44.3	1.5	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	91.2	19.1	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	28.2	5.3	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	5.7	1.1	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	1.9	0.4	0.4	0.8	0.8	0.8	0.8	0.0	0.0
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.8	0.8	0.8	1.1	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	1.1	1.1	0.8	0.4	0.0
77.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0



TEST NUMBER: P491640

CATALOG NUMBER: LDA2B058027R30D010 2LBDLC1MW-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	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)