

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: P495728

Luminaire Tested: **LDA2B109027R30D010 2LBDC1MW-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: P495728  
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: LDA2B109027R30D010 2LBDC1MW-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

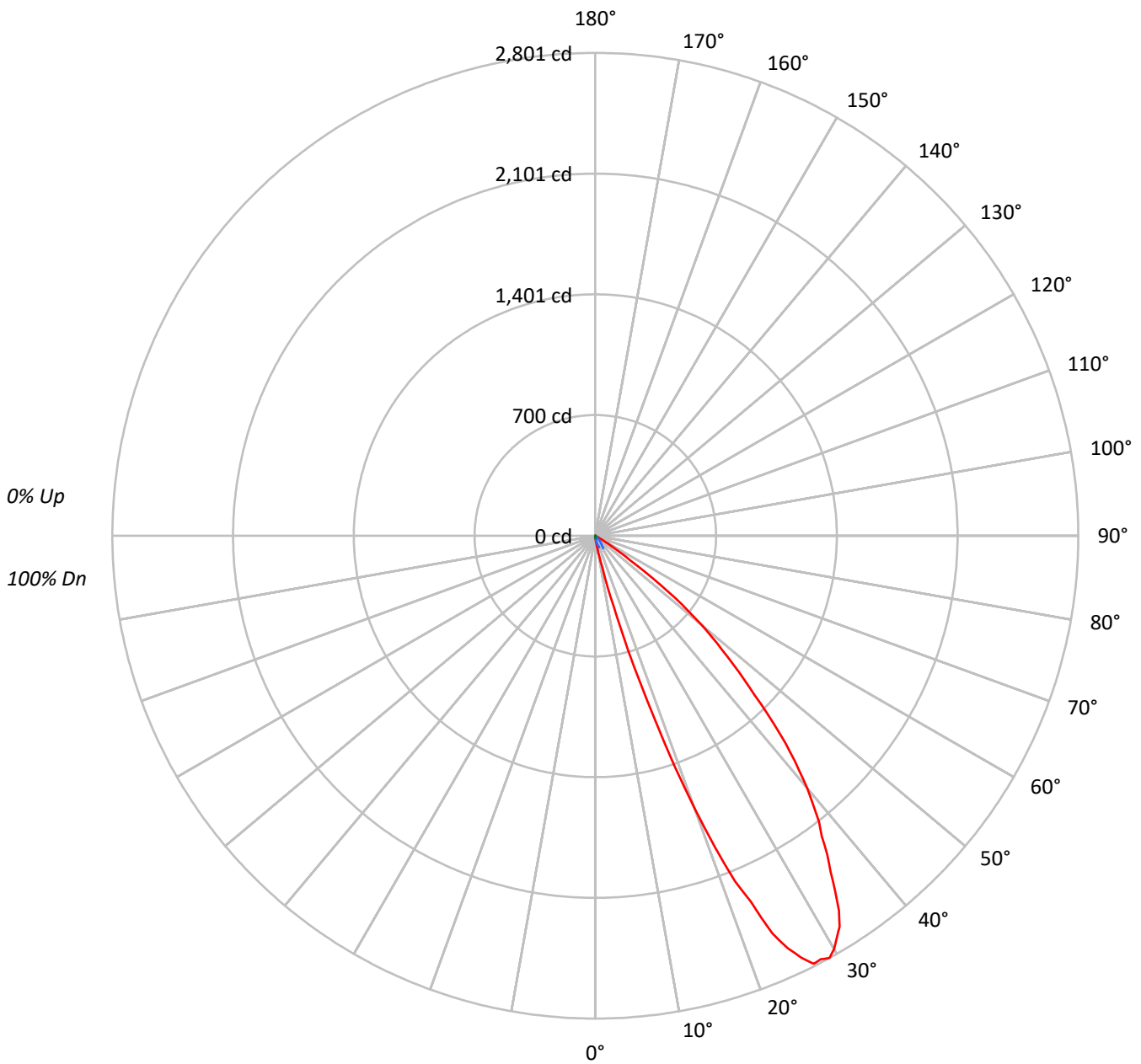
Lumens per Lamp: N/A  
Luminaire Lumens: 563.4 lumens  
Efficiency: N/A  
Efficacy: 56.3 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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: P495728

CATALOG NUMBER: LDA2B109027R30D010 2LBDC1MW-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P495728

CATALOG NUMBER: LDA2B109027R30D010 2LBDC1MW-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					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	58	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°	6266	6266	6266
5°	13570	5646	4061
10°	40729	4910	2655
15°	247006	3524	2094
20°	884352	1943	840
25°	1437177	653	0
30°	1577344	228	0
35°	1433375	0	0
40°	1230242	0	0
45°	911919	0	0
50°	616637	0	0
55°	208328	344	0
60°	29799	789	0
65°	2335	934	0
70°	0	1154	0
75°	0	2287	0
80°	0	2273	0
85°	0	4529	0



TEST NUMBER: P495728

CATALOG NUMBER: LDA2B109027R30D010 2LBDC1MW-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.6	0.3
10°-20°	29.0	5.2
20°-30°	164.7	29.2
30°-40°	214.7	38.1
40°-50°	125.7	22.3
50°-60°	25.4	4.5
60°-70°	1.0	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°	195.4	34.7
0°-40°	410.1	72.8
0°-60°	561.2	99.6
0°-90°	563.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	27	20	11	9	8	4
15°	484	55	7	4	4	205
25°	2640	93	1	1	0	1168
35°	2380	68	0	0	0	1482
45°	1307	17	0	0	0	1021
55°	242	2	0	0	0	283
65°	2	0	1	1	0	6
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P495728

CATALOG NUMBER: LDA2B109027R30D010 2LBDC1MW-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
2.5°	17.2	15.9	15.1	13.1	11.8	11.0	10.6	10.2	9.8
5°	27.4	25.3	19.6	14.3	11.4	9.8	9.0	8.2	8.2
7.5°	47.0	38.0	25.7	15.1	10.6	8.6	7.8	6.5	6.1
10°	81.3	63.3	35.1	15.9	9.8	7.8	6.1	5.7	5.3
12.5°	190.7	115.6	44.5	15.9	8.6	6.5	5.3	4.9	4.5
15°	483.6	235.7	55.1	15.1	6.9	4.9	4.5	4.1	4.1
17.5°	1003.1	484.0	67.0	13.9	5.7	3.7	3.3	2.9	2.9
20°	1684.4	867.5	78.4	11.8	3.7	2.5	2.0	1.6	1.6
21°	1935.2	1006.8	84.1	11.0	3.3	2.0	1.6	1.6	1.2
22°	2160.6	1134.6	87.4	10.6	2.5	1.6	1.6	1.2	1.2
23°	2306.0	1296.8	90.3	9.4	2.0	1.2	1.2	0.8	0.4
24°	2525.4	1423.8	91.5	8.6	1.6	1.2	0.8	0.4	0.4
25°	2640.1	1539.0	92.7	7.8	1.2	1.2	0.8	0.4	0.0
26°	2722.6	1630.1	97.2	7.4	1.2	0.8	0.8	0.4	0.0
27°	2787.2	1688.1	99.7	6.5	0.8	0.8	0.8	0.0	0.0
28°	2783.5	1730.1	97.6	5.7	0.8	0.8	0.4	0.0	0.0
29°	2801.0	1758.7	96.4	4.9	0.4	0.4	0.4	0.0	0.0
30°	2768.8	1761.2	91.9	4.5	0.4	0.4	0.4	0.0	0.0
31°	2719.8	1731.4	90.3	4.1	0.0	0.4	0.4	0.0	0.0
32°	2673.6	1717.9	85.0	3.3	0.0	0.4	0.4	0.0	0.0
33°	2594.4	1657.4	79.6	2.9	0.0	0.4	0.0	0.0	0.0
34°	2488.2	1598.2	74.7	2.5	0.0	0.4	0.0	0.0	0.0
35°	2379.9	1549.2	67.8	2.5	0.0	0.4	0.0	0.0	0.0
36°	2290.1	1460.2	62.9	2.0	0.0	0.4	0.0	0.0	0.0
37°	2181.0	1383.8	56.4	1.6	0.0	0.0	0.0	0.0	0.0
38°	2106.7	1276.4	51.5	1.6	0.0	0.0	0.0	0.0	0.0
39°	2006.6	1185.7	45.3	1.2	0.0	0.0	0.0	0.0	0.0
40°	1910.2	1091.7	39.2	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1633.7	842.2	27.0	0.4	0.0	0.0	0.0	0.0	0.0
45°	1307.0	617.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1037.8	417.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	803.4	214.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	534.2	91.1	3.7	0.0	0.0	0.4	0.0	0.0	0.0
55°	242.2	47.4	1.6	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	97.6	20.4	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	30.2	5.7	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	6.1	1.2	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	2.0	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	1.2	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	1.2	1.2	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: P495728

CATALOG NUMBER: LDA2B109027R30D010 2LBDC1MW-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)