

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: P494423

Luminaire Tested: **LDA2B108027R30D010 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: P494423  
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: LDA2B108027R30D010 2LBD1MW-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

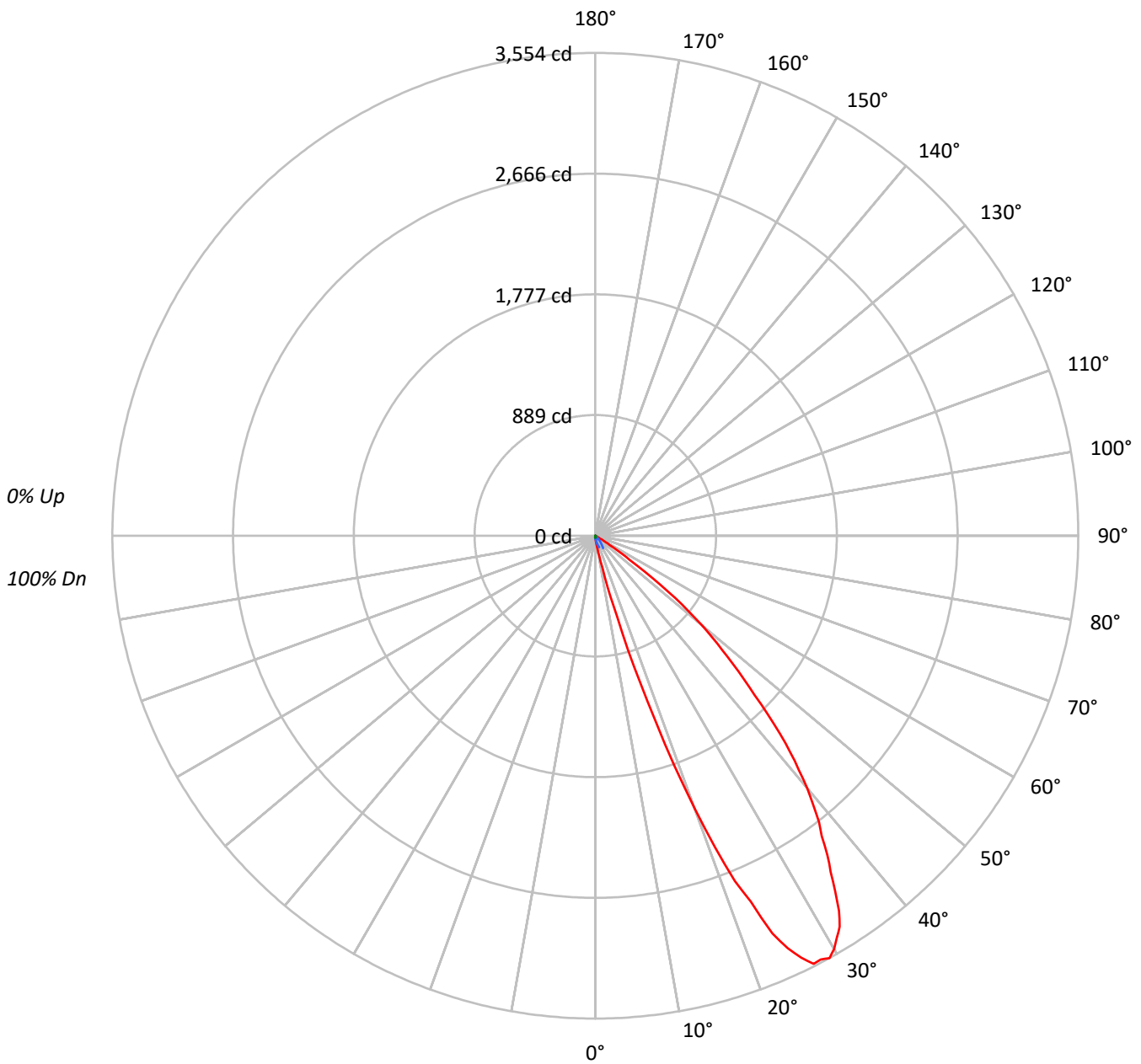
Lumens per Lamp: N/A  
Luminaire Lumens: 714.9 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (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

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### Luminous Intensity Polar Plot



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



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**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	45	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°	7943	7943	7943
5°	17185	7181	5151
10°	51650	6212	3357
15°	313457	4495	2656
20°	1122188	2468	1103
25°	1823730	871	0
30°	2001589	285	0
35°	1818957	0	0
40°	1561148	0	0
45°	1157167	0	0
50°	782502	0	0
55°	264324	430	0
60°	37890	987	0
65°	3035	1167	0
70°	0	1442	0
75°	0	3050	0
80°	0	2841	0
85°	0	5661	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.1	0.3
10°-20°	36.8	5.2
20°-30°	209.1	29.2
30°-40°	272.4	38.1
40°-50°	159.6	22.3
50°-60°	32.2	4.5
60°-70°	1.2	0.2
70°-80°	0.8	0.1
80°-90°	0.7	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°	248.0	34.7
0°-40°	520.4	72.8
0°-60°	712.1	99.6
0°-90°	714.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	714.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	35	25	14	11	10	5
15°	614	70	9	6	5	260
25°	3350	118	2	1	0	1482
35°	3020	86	0	0	0	1881
45°	1658	21	0	0	0	1296
55°	307	2	0	0	0	359
65°	3	0	1	1	0	7
75°	0	1	2	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
2.5°	21.8	20.2	19.2	16.6	15.0	14.0	13.5	13.0	12.4
5°	34.7	32.1	24.9	18.1	14.5	12.4	11.4	10.4	10.4
7.5°	59.6	48.2	32.7	19.2	13.5	10.9	9.8	8.3	7.8
10°	103.1	80.3	44.6	20.2	12.4	9.8	7.8	7.3	6.7
12.5°	242.0	146.7	56.5	20.2	10.9	8.3	6.7	6.2	5.7
15°	613.7	299.1	70.0	19.2	8.8	6.2	5.7	5.2	5.2
17.5°	1272.9	614.2	85.0	17.6	7.3	4.7	4.1	3.6	3.6
20°	2137.4	1100.9	99.5	15.0	4.7	3.1	2.6	2.1	2.1
21°	2455.7	1277.6	106.8	14.0	4.1	2.6	2.1	2.1	1.6
22°	2741.8	1439.8	110.9	13.5	3.1	2.1	2.1	1.6	1.6
23°	2926.3	1645.6	114.5	11.9	2.6	1.6	1.6	1.0	0.5
24°	3204.6	1806.8	116.1	10.9	2.1	1.6	1.0	0.5	0.5
25°	3350.2	1952.9	117.7	9.8	1.6	1.6	1.0	0.5	0.0
26°	3454.9	2068.5	123.4	9.3	1.6	1.0	1.0	0.5	0.0
27°	3536.8	2142.1	126.5	8.3	1.0	1.0	1.0	0.0	0.0
28°	3532.2	2195.5	123.9	7.3	1.0	1.0	0.5	0.0	0.0
29°	3554.4	2231.8	122.3	6.2	0.5	0.5	0.5	0.0	0.0
30°	3513.5	2234.9	116.6	5.7	0.5	0.5	0.5	0.0	0.0
31°	3451.3	2197.0	114.5	5.2	0.0	0.5	0.5	0.0	0.0
32°	3392.7	2179.9	107.8	4.1	0.0	0.5	0.5	0.0	0.0
33°	3292.2	2103.2	101.1	3.6	0.0	0.5	0.0	0.0	0.0
34°	3157.4	2028.1	94.8	3.1	0.0	0.5	0.0	0.0	0.0
35°	3020.1	1965.9	86.0	3.1	0.0	0.5	0.0	0.0	0.0
36°	2906.1	1852.9	79.8	2.6	0.0	0.5	0.0	0.0	0.0
37°	2767.7	1756.0	71.5	2.1	0.0	0.0	0.0	0.0	0.0
38°	2673.3	1619.7	65.3	2.1	0.0	0.0	0.0	0.0	0.0
39°	2546.4	1504.6	57.5	1.6	0.0	0.0	0.0	0.0	0.0
40°	2424.0	1385.4	49.8	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	2073.2	1068.7	34.2	0.5	0.0	0.0	0.0	0.0	0.0
45°	1658.5	783.7	21.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1317.0	529.2	13.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	1019.5	272.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	677.9	115.6	4.7	0.0	0.0	0.5	0.0	0.0	0.0
55°	307.3	60.1	2.1	0.0	0.5	0.5	0.5	0.0	0.0
57.5°	123.9	25.9	1.0	0.5	0.5	0.5	0.5	0.0	0.0
60°	38.4	7.3	0.5	0.5	1.0	1.0	0.5	0.0	0.0
62.5°	7.8	1.6	0.5	1.0	1.0	1.0	0.5	0.0	0.0
65°	2.6	0.5	0.5	1.0	1.0	1.0	1.0	0.0	0.0
67.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
70°	0.0	0.5	1.0	1.0	1.0	1.6	1.0	0.5	0.0
72.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
75°	0.0	0.5	1.0	1.0	1.6	1.6	1.0	0.5	0.0
77.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
80°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	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	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
85°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.0	1.0	1.0	0.5	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)