

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: P496352

Luminaire Tested: **LDA2B109040R20D010 2LBDLC1MMS-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: P496352  
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: LDA2B109040R20D010 2LBDLC1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

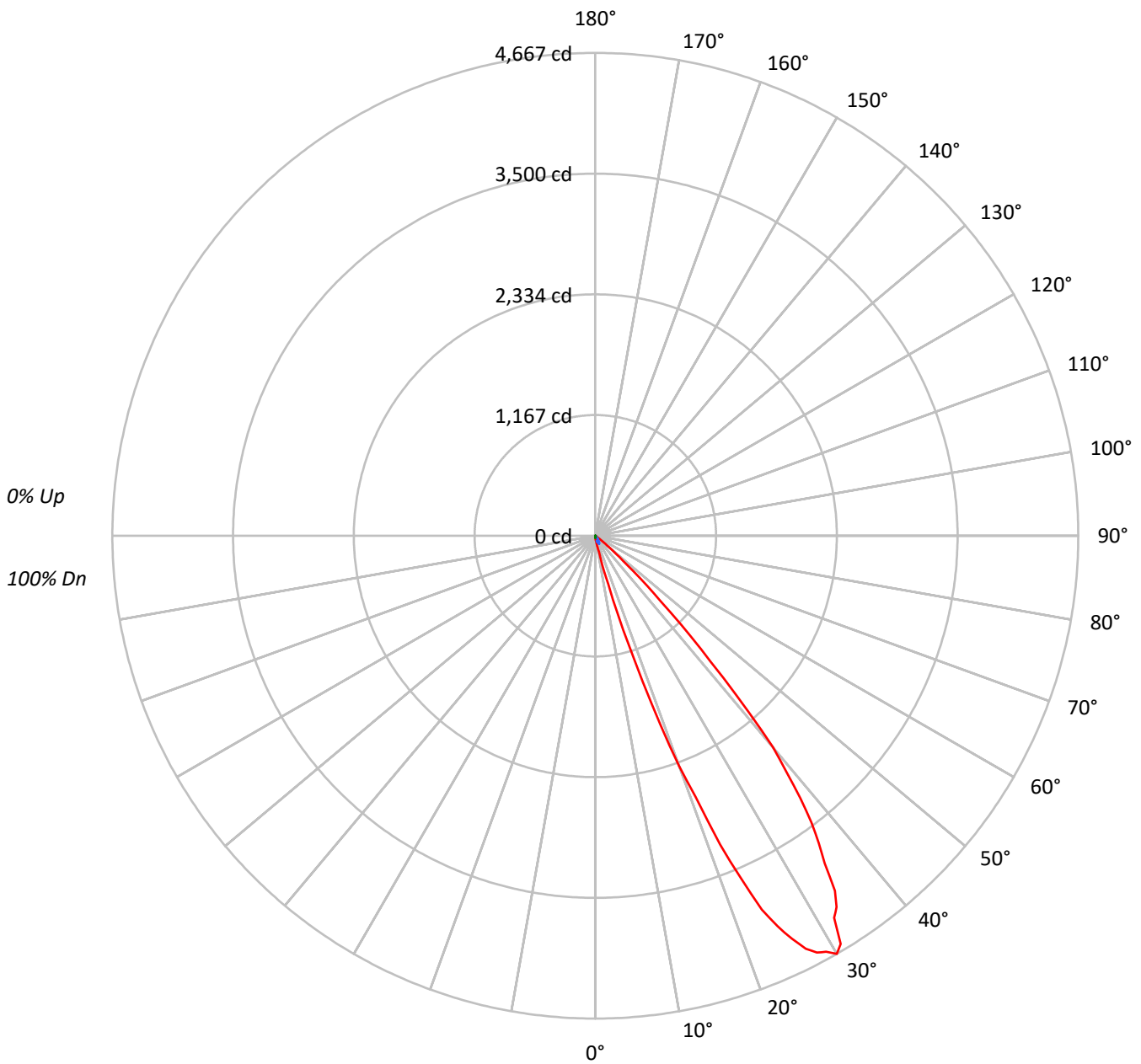
Lumens per Lamp: N/A  
Luminaire Lumens: 589.4 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	9374	9374	9374
5°	17878	8271	6042
10°	42783	7264	4058
15°	249203	5772	1634
20°	1243153	3570	473
25°	2266788	1252	0
30°	2658663	0	0
35°	2327043	0	0
40°	1718422	0	0
45°	619435	0	0
50°	129023	0	0
55°	29503	430	0
60°	9374	493	0
65°	2101	1051	0
70°	0	1298	721
75°	0	1716	0
80°	0	2557	0
85°	0	5095	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.1	0.4
10°-20°	32.4	5.5
20°-30°	218.2	37.0
30°-40°	254.9	43.3
40°-50°	74.3	12.6
50°-60°	5.0	0.8
60°-70°	0.9	0.2
70°-80°	0.8	0.1
80°-90°	0.6	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°	252.7	42.9
0°-40°	507.7	86.1
0°-60°	587.0	99.6
0°-90°	589.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	36	26	17	14	12	5
15°	488	55	11	6	3	255
25°	4164	85	2	0	0	1844
35°	3864	46	0	0	0	2374
45°	888	10	0	0	0	818
55°	34	2	0	0	0	44
65°	2	1	1	1	0	3
75°	0	1	1	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°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	24.4	24.4	21.7	19.4	17.6	16.7	16.3	15.4	14.9
5°	36.1	31.6	26.2	20.3	16.7	15.4	14.0	12.7	12.2
7.5°	52.9	46.1	31.6	20.8	15.8	13.6	12.2	10.8	9.9
10°	85.4	66.4	38.9	20.8	14.5	11.7	9.9	8.6	8.1
12.5°	157.7	101.7	46.5	20.3	13.1	9.9	7.7	6.8	5.4
15°	487.9	210.5	55.1	19.4	11.3	7.7	5.9	3.6	3.2
17.5°	1261.8	491.5	61.4	17.2	9.0	5.4	2.7	2.3	2.3
20°	2367.8	891.4	70.5	14.9	6.8	3.6	1.8	1.4	0.9
21°	2701.2	1090.6	75.0	14.0	5.9	2.3	1.4	0.5	0.5
22°	3219.4	1307.9	78.6	13.1	5.0	1.4	0.9	0.5	0.0
23°	3588.5	1446.6	82.2	11.7	3.6	1.4	0.5	0.0	0.0
24°	3957.6	1623.3	84.5	10.8	3.2	0.9	0.5	0.0	0.0
25°	4164.1	1770.5	85.4	9.9	2.3	0.5	0.0	0.0	0.0
26°	4334.0	1869.0	85.8	9.0	1.4	0.0	0.0	0.0	0.0
27°	4479.5	1983.3	84.9	8.1	1.4	0.0	0.0	0.0	0.0
28°	4562.1	2002.3	83.6	7.2	0.5	0.0	0.0	0.0	0.0
29°	4597.8	1979.3	79.5	6.3	0.5	0.0	0.0	0.0	0.0
30°	4666.9	1957.6	75.4	5.9	0.0	0.0	0.0	0.0	0.0
31°	4603.2	1885.8	70.5	5.0	0.0	0.0	0.0	0.0	0.0
32°	4353.9	1825.2	64.6	4.1	0.0	0.0	0.0	0.0	0.0
33°	4279.3	1701.0	58.3	3.6	0.0	0.0	0.0	0.0	0.0
34°	4138.8	1516.2	52.9	3.2	0.0	0.0	0.0	0.0	0.0
35°	3863.7	1363.5	46.1	2.7	0.0	0.0	0.0	0.0	0.0
36°	3671.7	1189.1	40.2	2.3	0.0	0.0	0.0	0.0	0.0
37°	3470.6	1036.8	35.7	1.8	0.0	0.0	0.0	0.0	0.0
38°	3220.8	876.9	30.3	1.4	0.0	0.0	0.0	0.0	0.0
39°	2929.8	724.7	25.8	1.4	0.0	0.0	0.0	0.0	0.0
40°	2668.2	584.2	22.1	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	1646.8	333.4	13.1	0.9	0.0	0.0	0.0	0.0	0.0
45°	887.8	202.4	9.5	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	408.9	94.4	6.8	0.5	0.0	0.0	0.0	0.0	0.0
50°	168.1	42.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	60.5	23.5	3.2	0.0	0.0	0.5	0.0	0.0	0.0
55°	34.3	13.6	1.8	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	16.3	7.7	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	9.5	4.1	0.5	0.5	0.5	0.9	0.5	0.0	0.0
62.5°	4.5	1.4	0.5	0.9	0.9	0.9	0.9	0.5	0.0
65°	1.8	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.0
67.5°	0.5	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
70°	0.0	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
72.5°	0.0	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
75°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
77.5°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
80°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	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	0.9	0.9	0.9	0.9	0.9	0.5	0.0
85°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
87.5°	0.0	0.5	0.9	0.9	0.9	0.9	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)