

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: P493311

Luminaire Tested: **LDA2B059035R20D010 2LBDC1MMS-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: P493311  
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: LDA2B059035R20D010 2LBDC1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

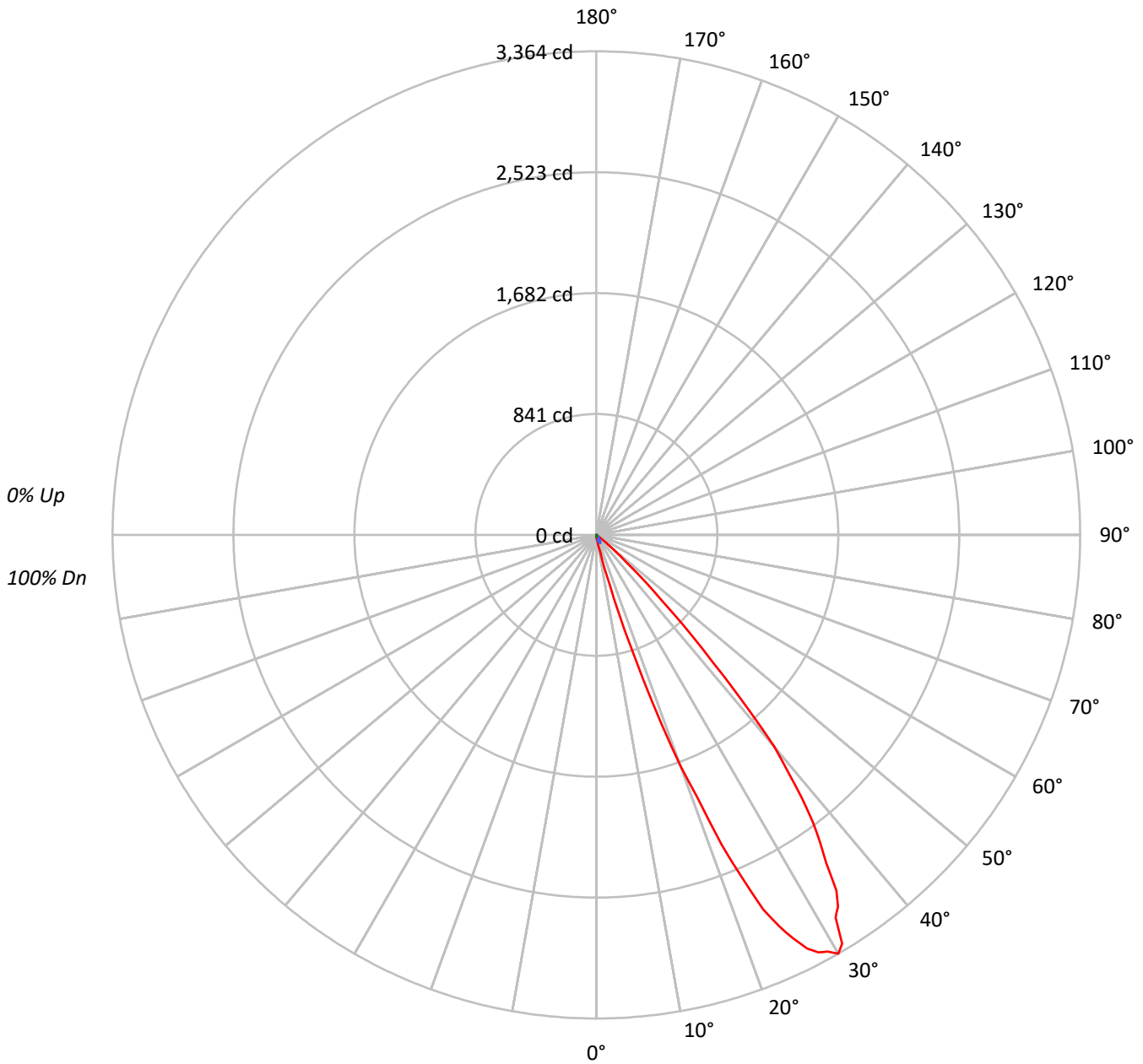
Lumens per Lamp: N/A  
Luminaire Lumens: 424.8 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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°	6759	6759	6759
5°	12876	5943	4358
10°	30810	5210	2956
15°	179636	4137	1175
20°	896007	2573	368
25°	1633801	871	0
30°	1916250	0	0
35°	1677179	0	0
40°	1238550	0	0
45°	446470	0	0
50°	92948	0	0
55°	21246	258	0
60°	6710	296	0
65°	1518	817	0
70°	0	1010	433
75°	0	1334	0
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	23.3	5.5
20°-30°	157.3	37.0
30°-40°	183.8	43.3
40°-50°	53.6	12.6
50°-60°	3.6	0.8
60°-70°	0.7	0.2
70°-80°	0.6	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°	182.2	42.9
0°-40°	365.9	86.1
0°-60°	423.1	99.6
0°-90°	424.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	26	19	12	10	9	4
15°	352	40	8	4	2	183
25°	3001	62	2	0	0	1329
35°	2785	33	0	0	0	1711
45°	640	7	0	0	0	590
55°	25	1	0	0	0	31
65°	1	1	1	1	0	2
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°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	17.6	17.6	15.6	14.0	12.7	12.0	11.7	11.1	10.7
5°	26.0	22.8	18.9	14.7	12.0	11.1	10.1	9.1	8.8
7.5°	38.1	33.2	22.8	15.0	11.4	9.8	8.8	7.8	7.2
10°	61.5	47.9	28.0	15.0	10.4	8.5	7.2	6.2	5.9
12.5°	113.6	73.3	33.5	14.7	9.4	7.2	5.5	4.9	3.9
15°	351.7	151.7	39.7	14.0	8.1	5.5	4.2	2.6	2.3
17.5°	909.5	354.3	44.3	12.4	6.5	3.9	2.0	1.6	1.6
20°	1706.6	642.5	50.8	10.7	4.9	2.6	1.3	1.0	0.7
21°	1946.9	786.1	54.1	10.1	4.2	1.6	1.0	0.3	0.3
22°	2320.4	942.7	56.7	9.4	3.6	1.0	0.7	0.3	0.0
23°	2586.4	1042.7	59.3	8.5	2.6	1.0	0.3	0.0	0.0
24°	2852.5	1170.0	60.9	7.8	2.3	0.7	0.3	0.0	0.0
25°	3001.3	1276.1	61.5	7.2	1.6	0.3	0.0	0.0	0.0
26°	3123.7	1347.1	61.9	6.5	1.0	0.0	0.0	0.0	0.0
27°	3228.6	1429.5	61.2	5.9	1.0	0.0	0.0	0.0	0.0
28°	3288.2	1443.2	60.2	5.2	0.3	0.0	0.0	0.0	0.0
29°	3313.9	1426.6	57.3	4.6	0.3	0.0	0.0	0.0	0.0
30°	3363.7	1410.9	54.4	4.2	0.0	0.0	0.0	0.0	0.0
31°	3317.8	1359.2	50.8	3.6	0.0	0.0	0.0	0.0	0.0
32°	3138.0	1315.5	46.6	2.9	0.0	0.0	0.0	0.0	0.0
33°	3084.3	1226.0	42.0	2.6	0.0	0.0	0.0	0.0	0.0
34°	2983.0	1092.8	38.1	2.3	0.0	0.0	0.0	0.0	0.0
35°	2784.7	982.7	33.2	2.0	0.0	0.0	0.0	0.0	0.0
36°	2646.4	857.0	29.0	1.6	0.0	0.0	0.0	0.0	0.0
37°	2501.4	747.3	25.7	1.3	0.0	0.0	0.0	0.0	0.0
38°	2321.4	632.0	21.8	1.0	0.0	0.0	0.0	0.0	0.0
39°	2111.7	522.3	18.6	1.0	0.0	0.0	0.0	0.0	0.0
40°	1923.1	421.0	16.0	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1186.9	240.3	9.4	0.7	0.0	0.0	0.0	0.0	0.0
45°	639.9	145.9	6.8	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	294.7	68.1	4.9	0.3	0.0	0.0	0.0	0.0	0.0
50°	121.1	30.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	43.6	16.9	2.3	0.0	0.0	0.3	0.0	0.0	0.0
55°	24.7	9.8	1.3	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	11.7	5.5	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	6.8	2.9	0.3	0.3	0.3	0.7	0.3	0.0	0.0
62.5°	3.3	1.0	0.3	0.7	0.7	0.7	0.7	0.3	0.0
65°	1.3	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.0
67.5°	0.3	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.3
70°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.3
72.5°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.3
75°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
77.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
80°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	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	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
85°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
87.5°	0.0	0.3	0.7	0.7	0.7	0.7	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)