

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: P492456

Luminaire Tested: **LDA2B058050R20D010 2LBDL1MMS-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: P492456  
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: LDA2B058050R20D010 2LBDL1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

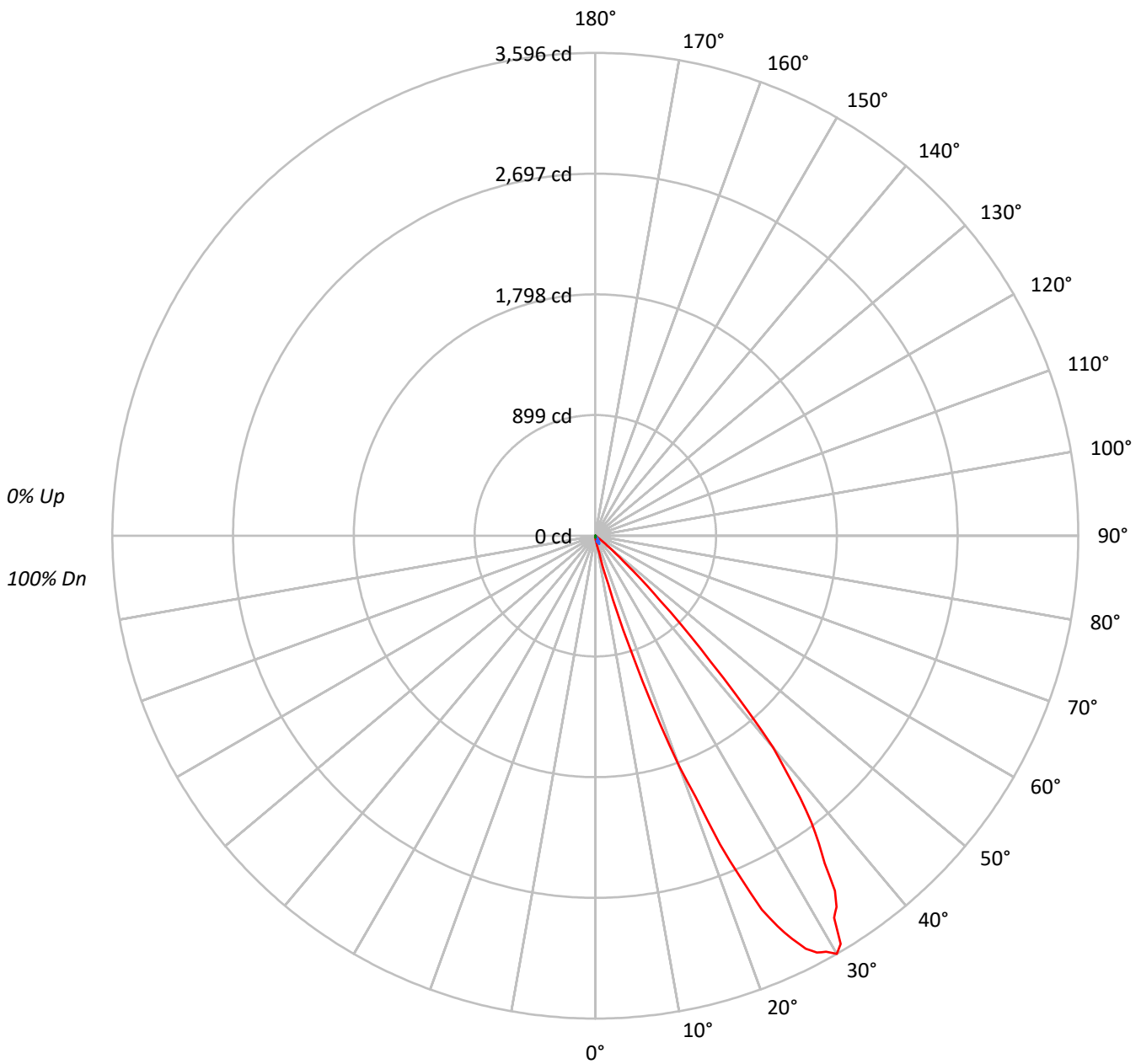
Lumens per Lamp: N/A  
Luminaire Lumens: 454.0 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	7203	7203	7203
5°	13768	6389	4655
10°	32964	5561	3156
15°	191997	4444	1226
20°	957855	2730	368
25°	1746539	925	0
30°	2048474	0	0
35°	1792938	0	0
40°	1324013	0	0
45°	477240	0	0
50°	99396	0	0
55°	22794	258	0
60°	7203	296	0
65°	1634	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°	1.7	0.4
10°-20°	24.9	5.5
20°-30°	168.1	37.0
30°-40°	196.4	43.3
40°-50°	57.3	12.6
50°-60°	3.8	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°	194.7	42.9
0°-40°	391.2	86.2
0°-60°	452.2	99.6
0°-90°	454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	28	20	13	11	9	4
15°	376	42	9	4	2	196
25°	3208	66	2	0	0	1421
35°	2977	36	0	0	0	1829
45°	684	7	0	0	0	630
55°	26	1	0	0	0	34
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°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	18.8	18.8	16.7	15.0	13.6	12.9	12.5	11.8	11.5
5°	27.8	24.4	20.2	15.7	12.9	11.8	10.8	9.7	9.4
7.5°	40.7	35.5	24.4	16.0	12.2	10.4	9.4	8.4	7.7
10°	65.8	51.2	29.9	16.0	11.1	9.1	7.7	6.6	6.3
12.5°	121.5	78.3	35.9	15.7	10.1	7.7	5.9	5.2	4.2
15°	375.9	162.2	42.5	15.0	8.7	5.9	4.5	2.8	2.4
17.5°	972.2	378.7	47.3	13.2	7.0	4.2	2.1	1.7	1.7
20°	1824.4	686.8	54.3	11.5	5.2	2.8	1.4	1.0	0.7
21°	2081.2	840.3	57.8	10.8	4.5	1.7	1.0	0.3	0.3
22°	2480.5	1007.7	60.6	10.1	3.8	1.0	0.7	0.3	0.0
23°	2764.9	1114.6	63.4	9.1	2.8	1.0	0.3	0.0	0.0
24°	3049.3	1250.7	65.1	8.4	2.4	0.7	0.3	0.0	0.0
25°	3208.4	1364.2	65.8	7.7	1.7	0.3	0.0	0.0	0.0
26°	3339.3	1440.1	66.1	7.0	1.0	0.0	0.0	0.0	0.0
27°	3451.3	1528.1	65.4	6.3	1.0	0.0	0.0	0.0	0.0
28°	3515.0	1542.7	64.4	5.6	0.3	0.0	0.0	0.0	0.0
29°	3542.5	1525.0	61.3	4.9	0.3	0.0	0.0	0.0	0.0
30°	3595.8	1508.3	58.1	4.5	0.0	0.0	0.0	0.0	0.0
31°	3546.7	1452.9	54.3	3.8	0.0	0.0	0.0	0.0	0.0
32°	3354.6	1406.3	49.8	3.1	0.0	0.0	0.0	0.0	0.0
33°	3297.1	1310.6	44.9	2.8	0.0	0.0	0.0	0.0	0.0
34°	3188.9	1168.2	40.7	2.4	0.0	0.0	0.0	0.0	0.0
35°	2976.9	1050.5	35.5	2.1	0.0	0.0	0.0	0.0	0.0
36°	2829.0	916.2	31.0	1.7	0.0	0.0	0.0	0.0	0.0
37°	2674.0	798.9	27.5	1.4	0.0	0.0	0.0	0.0	0.0
38°	2481.6	675.6	23.3	1.0	0.0	0.0	0.0	0.0	0.0
39°	2257.4	558.3	19.8	1.0	0.0	0.0	0.0	0.0	0.0
40°	2055.8	450.1	17.1	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1268.8	256.9	10.1	0.7	0.0	0.0	0.0	0.0	0.0
45°	684.0	155.9	7.3	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	315.0	72.8	5.2	0.3	0.0	0.0	0.0	0.0	0.0
50°	129.5	32.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	46.6	18.1	2.4	0.0	0.0	0.3	0.0	0.0	0.0
55°	26.5	10.4	1.4	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	12.5	5.9	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	7.3	3.1	0.3	0.3	0.3	0.7	0.3	0.0	0.0
62.5°	3.5	1.0	0.3	0.7	0.7	0.7	0.7	0.3	0.0
65°	1.4	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)