

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: P492024

Luminaire Tested: **LDA2B058035R20D010 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: P492024  
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: LDA2B058035R20D010 2LBDL1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

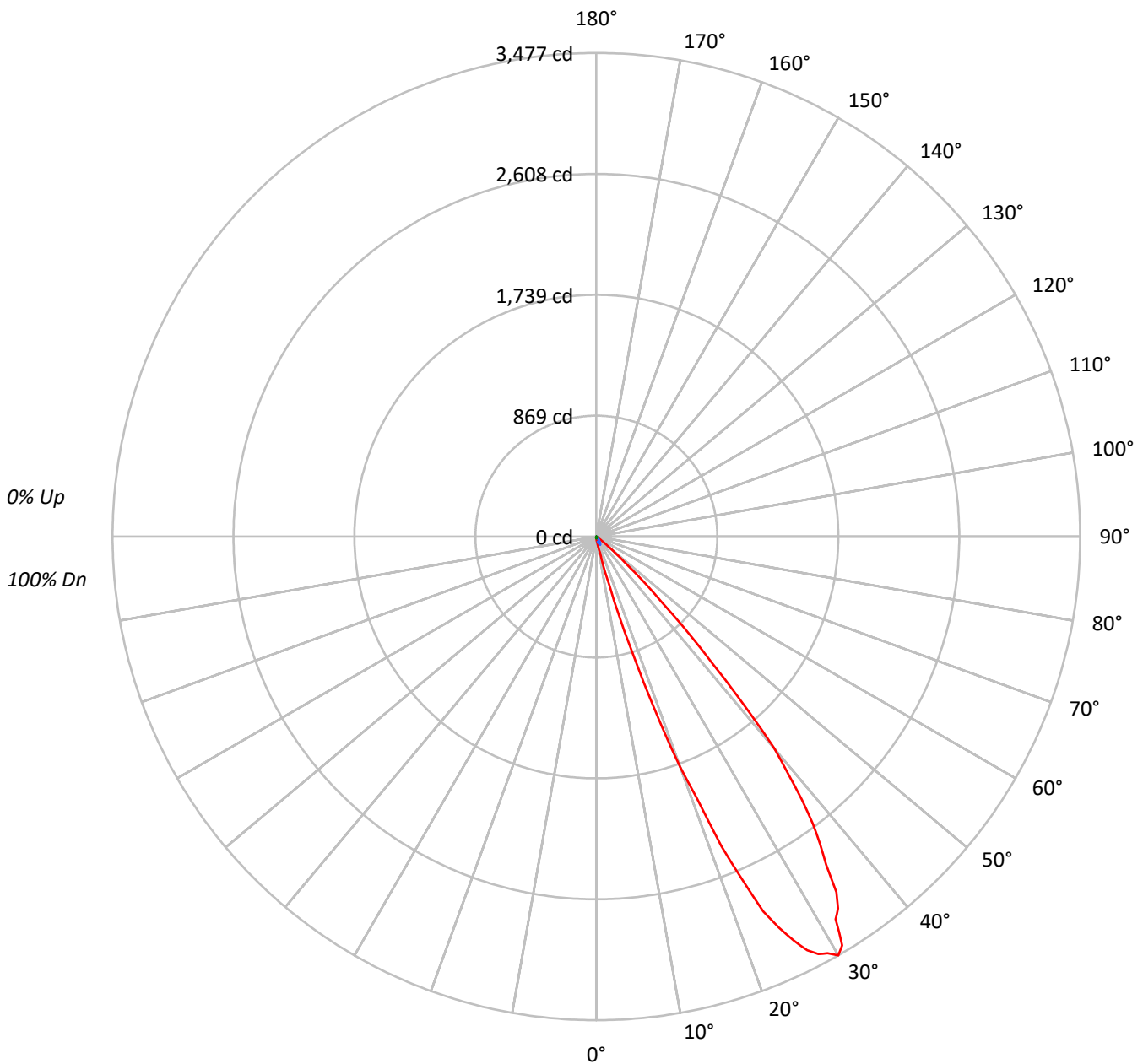
Lumens per Lamp: N/A  
Luminaire Lumens: 439.0 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (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°	6956	6956	6956
5°	13322	6191	4507
10°	31862	5411	3056
15°	185663	4290	1226
20°	926248	2625	368
25°	1688891	925	0
30°	1980909	0	0
35°	1733794	0	0
40°	1280348	0	0
45°	461471	0	0
50°	96095	0	0
55°	22020	258	0
60°	7006	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°	1.6	0.4
10°-20°	24.1	5.5
20°-30°	162.6	37.0
30°-40°	189.9	43.3
40°-50°	55.4	12.6
50°-60°	3.7	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°	188.3	42.9
0°-40°	378.3	86.2
0°-60°	437.3	99.6
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	27	20	12	10	9	4
15°	364	41	8	4	2	190
25°	3102	64	2	0	0	1374
35°	2879	34	0	0	0	1768
45°	661	7	0	0	0	609
55°	26	1	0	0	0	33
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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	18.2	18.2	16.2	14.5	13.1	12.5	12.1	11.4	11.1
5°	26.9	23.6	19.5	15.1	12.5	11.4	10.4	9.4	9.1
7.5°	39.4	34.3	23.6	15.5	11.8	10.1	9.1	8.1	7.4
10°	63.6	49.5	28.9	15.5	10.8	8.8	7.4	6.4	6.1
12.5°	117.5	75.7	34.7	15.1	9.8	7.4	5.7	5.0	4.0
15°	363.5	156.9	41.1	14.5	8.4	5.7	4.4	2.7	2.4
17.5°	940.2	366.2	45.8	12.8	6.7	4.0	2.0	1.7	1.7
20°	1764.2	664.1	52.5	11.1	5.0	2.7	1.3	1.0	0.7
21°	2012.6	812.6	55.9	10.4	4.4	1.7	1.0	0.3	0.3
22°	2398.7	974.5	58.6	9.8	3.7	1.0	0.7	0.3	0.0
23°	2673.7	1077.8	61.3	8.8	2.7	1.0	0.3	0.0	0.0
24°	2948.7	1209.4	62.9	8.1	2.4	0.7	0.3	0.0	0.0
25°	3102.5	1319.2	63.6	7.4	1.7	0.3	0.0	0.0	0.0
26°	3229.1	1392.6	64.0	6.7	1.0	0.0	0.0	0.0	0.0
27°	3337.5	1477.7	63.3	6.1	1.0	0.0	0.0	0.0	0.0
28°	3399.1	1491.9	62.3	5.4	0.3	0.0	0.0	0.0	0.0
29°	3425.7	1474.7	59.2	4.7	0.3	0.0	0.0	0.0	0.0
30°	3477.2	1458.5	56.2	4.4	0.0	0.0	0.0	0.0	0.0
31°	3429.7	1405.0	52.5	3.7	0.0	0.0	0.0	0.0	0.0
32°	3243.9	1359.9	48.1	3.0	0.0	0.0	0.0	0.0	0.0
33°	3188.4	1267.3	43.4	2.7	0.0	0.0	0.0	0.0	0.0
34°	3083.7	1129.7	39.4	2.4	0.0	0.0	0.0	0.0	0.0
35°	2878.7	1015.9	34.3	2.0	0.0	0.0	0.0	0.0	0.0
36°	2735.6	886.0	30.0	1.7	0.0	0.0	0.0	0.0	0.0
37°	2585.8	772.5	26.6	1.3	0.0	0.0	0.0	0.0	0.0
38°	2399.7	653.4	22.6	1.0	0.0	0.0	0.0	0.0	0.0
39°	2182.9	539.9	19.2	1.0	0.0	0.0	0.0	0.0	0.0
40°	1988.0	435.2	16.5	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1226.9	248.4	9.8	0.7	0.0	0.0	0.0	0.0	0.0
45°	661.4	150.8	7.1	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	304.6	70.4	5.0	0.3	0.0	0.0	0.0	0.0	0.0
50°	125.2	31.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	45.1	17.5	2.4	0.0	0.0	0.3	0.0	0.0	0.0
55°	25.6	10.1	1.3	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	12.1	5.7	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	7.1	3.0	0.3	0.3	0.3	0.7	0.3	0.0	0.0
62.5°	3.4	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)