

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: P492003

Luminaire Tested: **LDA2B058035R20D010 2LBD1MMS-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: P492003  
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 2LBD1MMS-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**

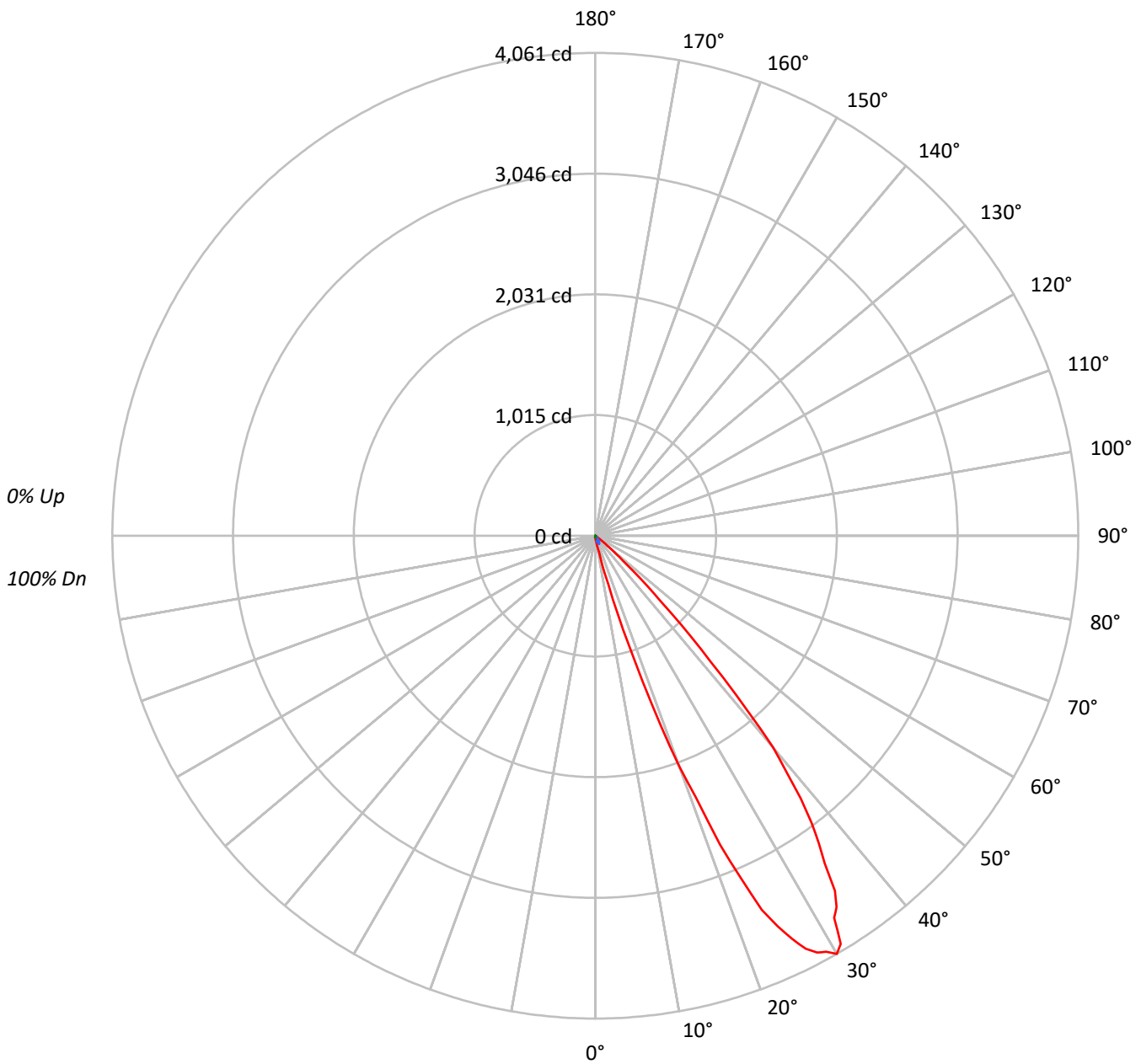
Lumens per Lamp: N/A  
Luminaire Lumens: 512.9 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P492003

CATALOG NUMBER: LDA2B058035R20D010 2LBD1MMS-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P492003

CATALOG NUMBER: LDA2B058035R20D010 2LBD1MMS-30DEG TILT

**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°	8140	8140	8140
5°	15600	7181	5250
10°	37222	6312	3557
15°	216871	5006	1430
20°	1081866	3098	420
25°	1972668	1089	0
30°	2313719	0	0
35°	2025118	0	0
40°	1495521	0	0
45°	539058	0	0
50°	112290	0	0
55°	25718	344	0
60°	8190	395	0
65°	1868	934	0
70°	0	1154	577
75°	0	1525	0
80°	0	2273	0
85°	0	4529	0



TEST NUMBER: P492003

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.9	0.4
10°-20°	28.2	5.5
20°-30°	189.9	37.0
30°-40°	221.9	43.3
40°-50°	64.7	12.6
50°-60°	4.3	0.8
60°-70°	0.8	0.2
70°-80°	0.7	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°	219.9	42.9
0°-40°	441.8	86.1
0°-60°	510.8	99.6
0°-90°	512.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	32	23	14	12	11	4
15°	425	48	10	5	3	222
25°	3624	74	2	0	0	1605
35°	3362	40	0	0	0	2066
45°	773	8	0	0	0	712
55°	30	2	0	0	0	38
65°	2	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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	21.2	21.2	18.9	16.9	15.3	14.5	14.2	13.4	13.0
5°	31.5	27.5	22.8	17.7	14.5	13.4	12.2	11.0	10.6
7.5°	46.0	40.1	27.5	18.1	13.8	11.8	10.6	9.4	8.6
10°	74.3	57.8	33.8	18.1	12.6	10.2	8.6	7.5	7.1
12.5°	137.2	88.5	40.5	17.7	11.4	8.6	6.7	5.9	4.7
15°	424.6	183.2	48.0	16.9	9.8	6.7	5.1	3.1	2.8
17.5°	1098.1	427.8	53.5	14.9	7.9	4.7	2.4	2.0	2.0
20°	2060.6	775.7	61.3	13.0	5.9	3.1	1.6	1.2	0.8
21°	2350.8	949.1	65.3	12.2	5.1	2.0	1.2	0.4	0.4
22°	2801.7	1138.2	68.4	11.4	4.3	1.2	0.8	0.4	0.0
23°	3123.0	1258.9	71.6	10.2	3.1	1.2	0.4	0.0	0.0
24°	3444.2	1412.7	73.5	9.4	2.8	0.8	0.4	0.0	0.0
25°	3623.8	1540.8	74.3	8.6	2.0	0.4	0.0	0.0	0.0
26°	3771.7	1626.5	74.7	7.9	1.2	0.0	0.0	0.0	0.0
27°	3898.3	1726.0	73.9	7.1	1.2	0.0	0.0	0.0	0.0
28°	3970.2	1742.5	72.7	6.3	0.4	0.0	0.0	0.0	0.0
29°	4001.3	1722.5	69.2	5.5	0.4	0.0	0.0	0.0	0.0
30°	4061.4	1703.6	65.7	5.1	0.0	0.0	0.0	0.0	0.0
31°	4006.0	1641.1	61.3	4.3	0.0	0.0	0.0	0.0	0.0
32°	3789.0	1588.4	56.2	3.5	0.0	0.0	0.0	0.0	0.0
33°	3724.1	1480.3	50.7	3.1	0.0	0.0	0.0	0.0	0.0
34°	3601.8	1319.5	46.0	2.8	0.0	0.0	0.0	0.0	0.0
35°	3362.4	1186.6	40.1	2.4	0.0	0.0	0.0	0.0	0.0
36°	3195.3	1034.8	35.0	2.0	0.0	0.0	0.0	0.0	0.0
37°	3020.3	902.3	31.1	1.6	0.0	0.0	0.0	0.0	0.0
38°	2802.9	763.1	26.3	1.2	0.0	0.0	0.0	0.0	0.0
39°	2549.7	630.6	22.4	1.2	0.0	0.0	0.0	0.0	0.0
40°	2322.1	508.4	19.3	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1433.1	290.2	11.4	0.8	0.0	0.0	0.0	0.0	0.0
45°	772.6	176.1	8.3	0.4	0.0	0.0	0.0	0.0	0.0
47.5°	355.8	82.2	5.9	0.4	0.0	0.0	0.0	0.0	0.0
50°	146.3	36.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	52.7	20.4	2.8	0.0	0.0	0.4	0.0	0.0	0.0
55°	29.9	11.8	1.6	0.4	0.4	0.4	0.4	0.0	0.0
57.5°	14.2	6.7	0.4	0.4	0.4	0.4	0.4	0.0	0.0
60°	8.3	3.5	0.4	0.4	0.4	0.8	0.4	0.0	0.0
62.5°	3.9	1.2	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.6	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.0
67.5°	0.4	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.4
70°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.4
72.5°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.4
75°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
77.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	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	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	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)