

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: P493608

Luminaire Tested: **LDA2B059040R35D010 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: P493608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059040R35D010 2LBDC1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

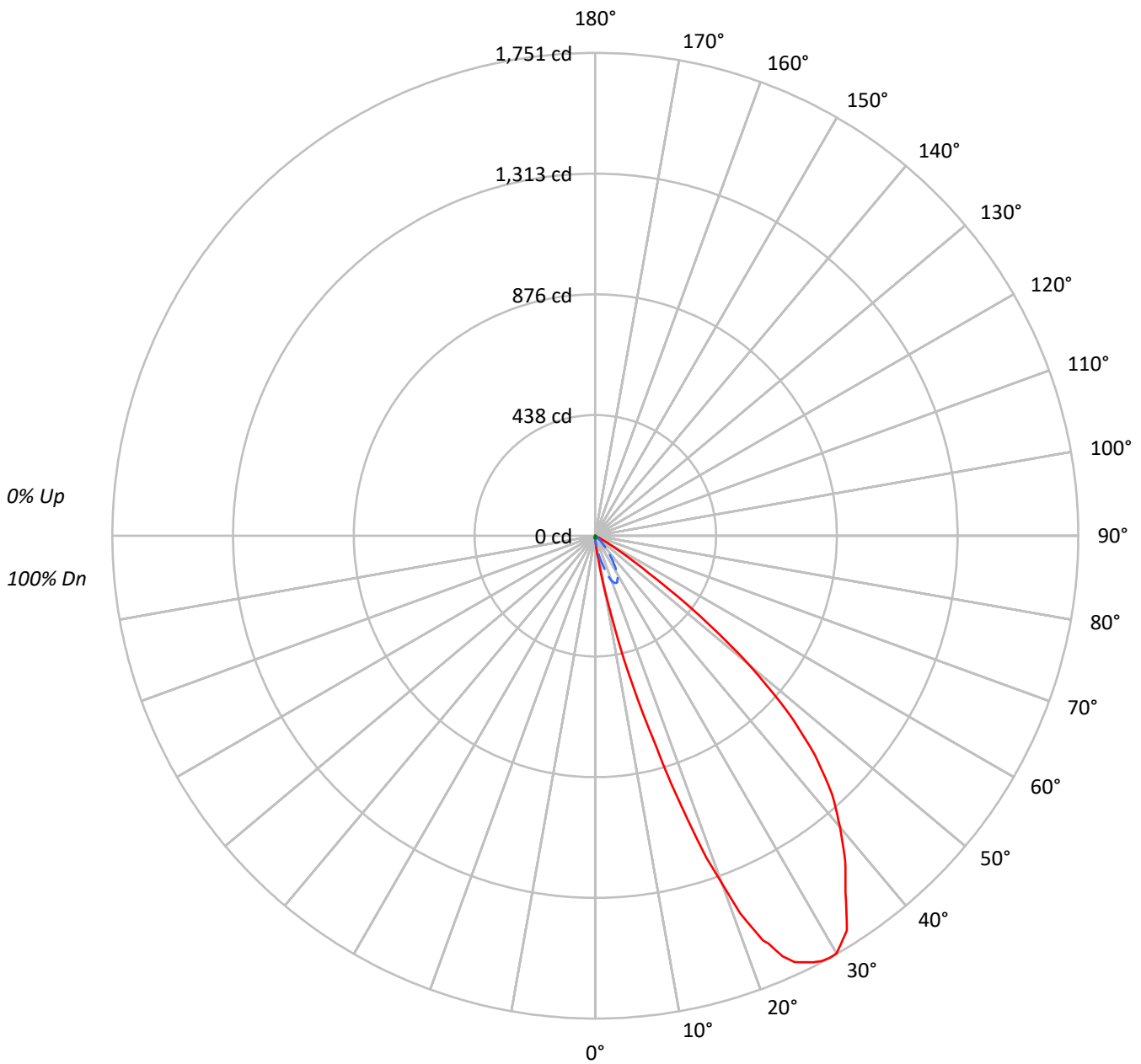
Lumens per Lamp: N/A  
Luminaire Lumens: 472.5 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P493608

CATALOG NUMBER: LDA2B059040R35D010 2LBDC1MMS-30DEG TILT

### 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	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41	39					39			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	7894	7894	7894
5°	24713	6933	4259
10°	105455	5811	3156
15°	340732	4239	2554
20°	702220	2625	1733
25°	928468	1252	1089
30°	995924	570	570
35°	951789	422	181
40°	888579	193	0
45°	785422	0	0
50°	557691	230	0
55°	199985	258	0
60°	30884	691	0
65°	1518	817	0
70°	0	1010	0
75°	0	1334	572
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	38.2	8.1
20°-30°	128.0	27.1
30°-40°	161.2	34.1
40°-50°	114.1	24.1
50°-60°	26.3	5.6
60°-70°	0.9	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°	169.1	35.8
0°-40°	330.3	69.9
0°-60°	470.6	99.6
0°-90°	472.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	472.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	50	33	14	10	9	9
15°	667	118	8	6	5	220
25°	1706	186	2	2	2	769
35°	1580	109	1	1	0	989
45°	1126	27	0	0	0	844
55°	232	1	0	0	0	263
65°	1	0	1	1	0	5
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°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
1°	20.0	19.3	18.3	16.6	15.0	14.3	14.3	13.3	13.3
2°	23.9	22.9	21.0	17.6	15.0	13.3	12.6	12.0	11.6
3°	30.9	28.3	23.9	19.0	14.6	12.6	12.3	10.6	10.6
4°	38.6	35.9	27.6	20.0	14.3	12.0	10.6	10.0	9.6
5°	49.9	43.9	32.6	21.0	14.0	11.3	10.0	9.0	8.6
6°	64.5	56.2	37.2	21.9	13.6	10.6	9.3	8.3	8.0
7°	81.1	69.8	42.9	22.9	13.0	10.0	8.6	8.0	7.6
8°	116.4	89.8	49.5	23.6	12.6	9.3	8.3	7.3	7.0
9°	155.6	116.1	56.9	24.6	12.0	9.0	7.6	7.0	6.7
10°	210.5	152.0	65.2	25.3	11.6	8.3	7.0	6.7	6.3
11°	265.0	196.5	75.5	25.6	11.0	7.3	7.0	6.7	6.3
12°	354.8	239.1	84.5	25.6	10.3	7.0	6.3	6.0	5.7
13°	461.2	312.3	97.4	25.9	9.3	6.7	6.0	5.7	5.7
14°	555.0	377.8	106.1	25.9	9.0	6.0	5.7	5.7	5.3
15°	667.1	441.6	117.7	25.6	8.3	5.7	5.7	5.3	5.0
16°	784.5	537.4	133.4	24.9	7.6	5.0	5.3	4.7	4.3
17°	940.1	616.5	145.3	24.3	7.0	4.7	4.7	4.7	4.3
18°	1082.4	712.6	155.0	23.6	6.3	4.7	4.3	4.3	4.0
19°	1235.1	789.8	164.6	22.6	5.7	4.0	4.0	4.0	3.7
20°	1337.5	884.6	175.3	21.6	5.0	3.7	4.0	3.7	3.3
21°	1467.2	969.4	179.2	20.6	4.3	3.3	3.3	3.3	3.0
22.5°	1588.6	1082.1	185.6	18.6	3.7	2.7	3.0	2.7	2.7
23°	1607.2	1106.1	185.6	18.0	3.3	2.7	3.0	2.7	2.7
24°	1669.1	1171.6	187.9	16.6	2.7	2.3	2.7	2.3	2.3
25°	1705.6	1223.4	186.2	15.3	2.3	2.3	2.3	2.3	2.0
26°	1720.6	1237.7	182.2	14.3	2.0	2.0	2.3	2.0	1.7
27°	1736.2	1270.3	177.2	13.0	1.7	2.0	2.0	2.0	1.7
28°	1747.2	1274.3	172.3	12.0	1.3	1.7	2.0	1.7	1.7
29°	1750.9	1279.6	166.3	10.6	1.0	1.3	1.7	1.3	1.3
30°	1748.2	1278.6	157.6	9.6	1.0	1.3	1.3	1.3	1.0
32.5°	1697.3	1250.0	133.7	7.0	0.7	1.0	1.0	1.0	0.7
35°	1580.3	1184.2	109.1	4.7	0.7	0.7	0.7	0.7	0.3
37.5°	1487.8	1085.8	83.5	2.7	0.3	0.7	0.7	0.3	0.0
40°	1379.7	943.1	60.2	1.7	0.3	0.3	0.3	0.0	0.0
42.5°	1270.0	797.8	40.9	0.7	0.0	0.3	0.3	0.0	0.0
45°	1125.7	610.9	26.9	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	946.8	443.6	18.3	0.0	0.0	0.3	0.0	0.0	0.0
50°	726.6	248.4	10.3	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	478.9	124.0	4.0	0.0	0.3	0.3	0.3	0.0	0.0
55°	232.5	66.5	1.3	0.3	0.3	0.7	0.3	0.0	0.0
57.5°	109.7	25.9	0.3	0.3	0.7	0.7	0.3	0.0	0.0
60°	31.3	5.3	0.3	0.3	0.7	0.7	0.3	0.3	0.0
62.5°	4.3	0.7	0.3	0.7	0.7	0.7	0.7	0.3	0.0
65°	1.3	0.3	0.3	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°
67.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
70°	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
72.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
75°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.3
77.5°	0.0	0.3	0.7	0.7	1.0	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
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)