

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: P494040

Luminaire Tested: **LDA2B059727R35D010 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: P494040  
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: LDA2B059727R35D010 2LBDC1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

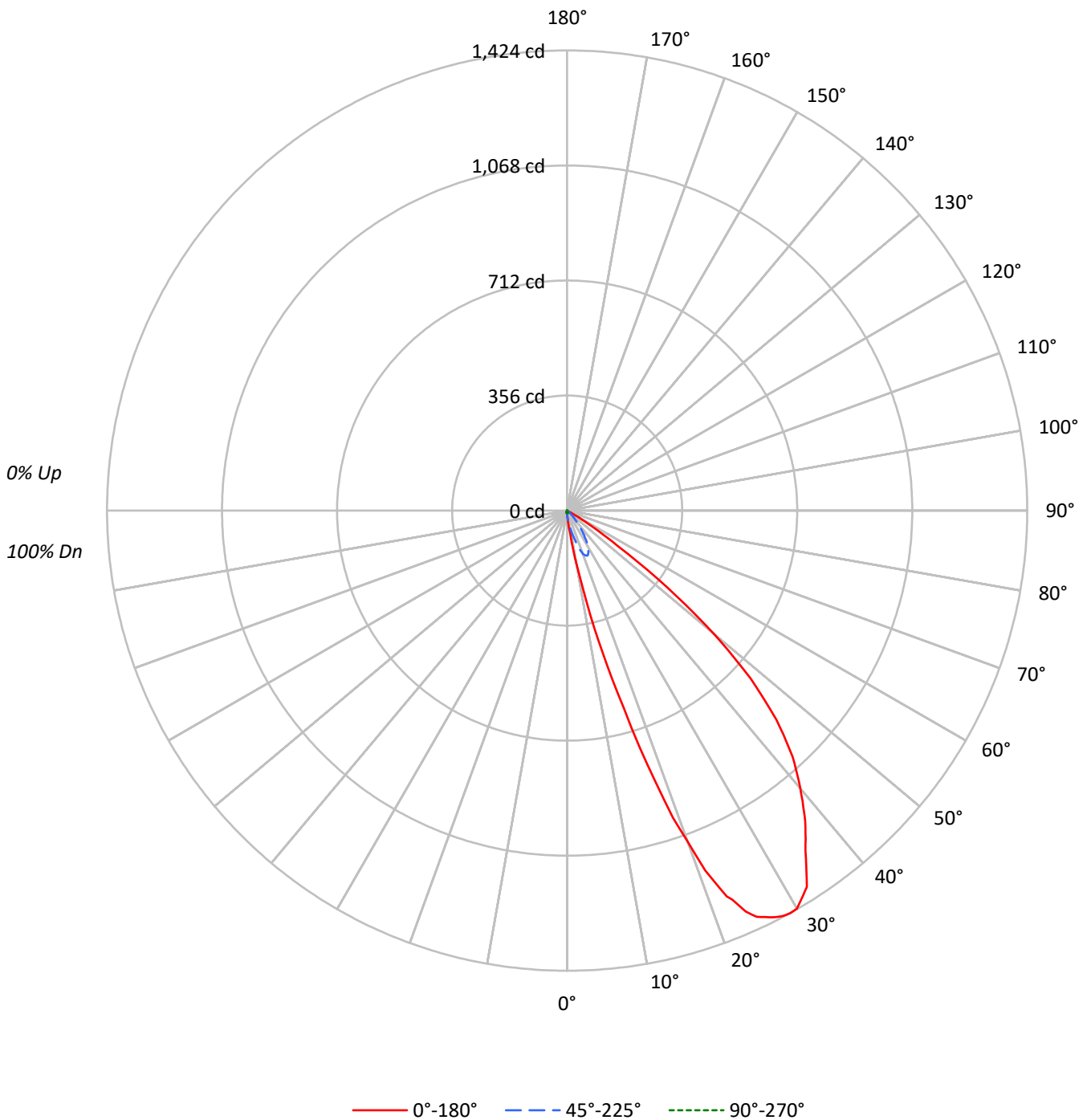
Lumens per Lamp: N/A  
Luminaire Lumens: 384.3 lumens  
Efficiency: N/A  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (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





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

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

	0°	90°	180°
0°	6414	6414	6414
5°	20107	5646	3467
10°	85767	4759	2555
15°	277141	3473	2094
20°	571227	2153	1418
25°	755251	1034	871
30°	810149	456	456
35°	774175	301	181
40°	722804	193	0
45°	638901	0	0
50°	453690	230	0
55°	162654	258	0
60°	25063	493	0
65°	1284	584	0
70°	0	721	0
75°	0	953	572
80°	0	1421	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.3	0.6
10°-20°	31.1	8.1
20°-30°	104.1	27.1
30°-40°	131.1	34.1
40°-50°	92.8	24.1
50°-60°	21.4	5.6
60°-70°	0.7	0.2
70°-80°	0.4	0.1
80°-90°	0.4	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°	137.5	35.8
0°-40°	268.7	69.9
0°-60°	382.8	99.6
0°-90°	384.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	384.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	41	26	11	8	7	8
15°	543	96	7	5	4	179
25°	1387	152	2	2	2	625
35°	1285	89	0	0	0	805
45°	916	22	0	0	0	687
55°	189	1	0	0	0	214
65°	1	0	0	0	0	4
75°	0	0	0	0	0	0
85°	0	0	0	0	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°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
1°	16.2	15.7	14.9	13.5	12.2	11.6	11.6	10.8	10.8
2°	19.5	18.7	17.0	14.3	12.2	10.8	10.3	9.7	9.5
3°	25.2	23.0	19.5	15.4	11.9	10.3	10.0	8.7	8.7
4°	31.4	29.2	22.5	16.2	11.6	9.7	8.7	8.1	7.8
5°	40.6	35.7	26.5	17.0	11.4	9.2	8.1	7.3	7.0
6°	52.5	45.7	30.3	17.9	11.1	8.7	7.6	6.8	6.5
7°	66.0	56.8	34.9	18.7	10.5	8.1	7.0	6.5	6.2
8°	94.7	73.0	40.3	19.2	10.3	7.6	6.8	6.0	5.7
9°	126.6	94.4	46.3	20.0	9.7	7.3	6.2	5.7	5.4
10°	171.2	123.6	53.0	20.6	9.5	6.8	5.7	5.4	5.1
11°	215.6	159.9	61.4	20.8	8.9	6.0	5.7	5.4	5.1
12°	288.6	194.5	68.7	20.8	8.4	5.7	5.1	4.9	4.6
13°	375.2	254.0	79.3	21.1	7.6	5.4	4.9	4.6	4.6
14°	451.5	307.3	86.3	21.1	7.3	4.9	4.6	4.6	4.3
15°	542.6	359.2	95.8	20.8	6.8	4.6	4.6	4.3	4.1
16°	638.1	437.1	108.5	20.3	6.2	4.1	4.3	3.8	3.5
17°	764.7	501.5	118.2	19.7	5.7	3.8	3.8	3.8	3.5
18°	880.5	579.7	126.1	19.2	5.1	3.8	3.5	3.5	3.2
19°	1004.7	642.5	133.9	18.4	4.6	3.2	3.2	3.2	3.0
20°	1088.0	719.5	142.6	17.6	4.1	3.0	3.2	3.0	2.7
21°	1193.5	788.5	145.8	16.8	3.5	2.7	2.7	2.7	2.4
22.5°	1292.2	880.2	150.9	15.1	3.0	2.2	2.4	2.2	2.2
23°	1307.4	899.7	150.9	14.6	2.7	2.2	2.4	2.2	2.2
24°	1357.7	953.0	152.8	13.5	2.2	1.9	2.2	1.9	1.9
25°	1387.4	995.2	151.5	12.4	1.9	1.9	1.9	1.9	1.6
26°	1399.6	1006.8	148.2	11.6	1.6	1.6	1.9	1.6	1.4
27°	1412.3	1033.3	144.2	10.5	1.4	1.6	1.6	1.6	1.4
28°	1421.2	1036.6	140.1	9.7	1.1	1.4	1.6	1.4	1.4
29°	1424.2	1040.9	135.3	8.7	0.8	1.1	1.4	1.1	1.1
30°	1422.1	1040.1	128.2	7.8	0.8	1.1	1.1	1.1	0.8
32.5°	1380.7	1016.8	108.7	5.7	0.5	0.8	0.8	0.8	0.5
35°	1285.4	963.3	88.7	3.8	0.5	0.5	0.5	0.5	0.3
37.5°	1210.2	883.2	67.9	2.2	0.3	0.5	0.5	0.3	0.0
40°	1122.3	767.2	49.0	1.4	0.3	0.3	0.3	0.0	0.0
42.5°	1033.1	648.9	33.3	0.5	0.0	0.3	0.3	0.0	0.0
45°	915.7	496.9	21.9	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	770.1	360.9	14.9	0.0	0.0	0.3	0.0	0.0	0.0
50°	591.1	202.1	8.4	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	389.5	100.9	3.2	0.0	0.3	0.3	0.3	0.0	0.0
55°	189.1	54.1	1.1	0.3	0.3	0.5	0.3	0.0	0.0
57.5°	89.3	21.1	0.3	0.3	0.5	0.5	0.3	0.0	0.0
60°	25.4	4.3	0.3	0.3	0.5	0.5	0.3	0.3	0.0
62.5°	3.5	0.5	0.3	0.5	0.5	0.5	0.5	0.3	0.0
65°	1.1	0.3	0.3	0.5	0.5	0.5	0.5	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	0.5	0.5	0.5	0.5	0.3	0.0
70°	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.0
72.5°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0
75°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3
77.5°	0.0	0.3	0.5	0.5	0.8	0.5	0.5	0.3	0.0
80°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0
82.5°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0
85°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0
87.5°	0.0	0.3	0.5	0.5	0.5	0.5	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)