

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: P493840

Luminaire Tested: **LDA2B059050R35D010 2LBDLC1MMS-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: P493840
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: LDA2B059050R35D010 2LBDLC1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

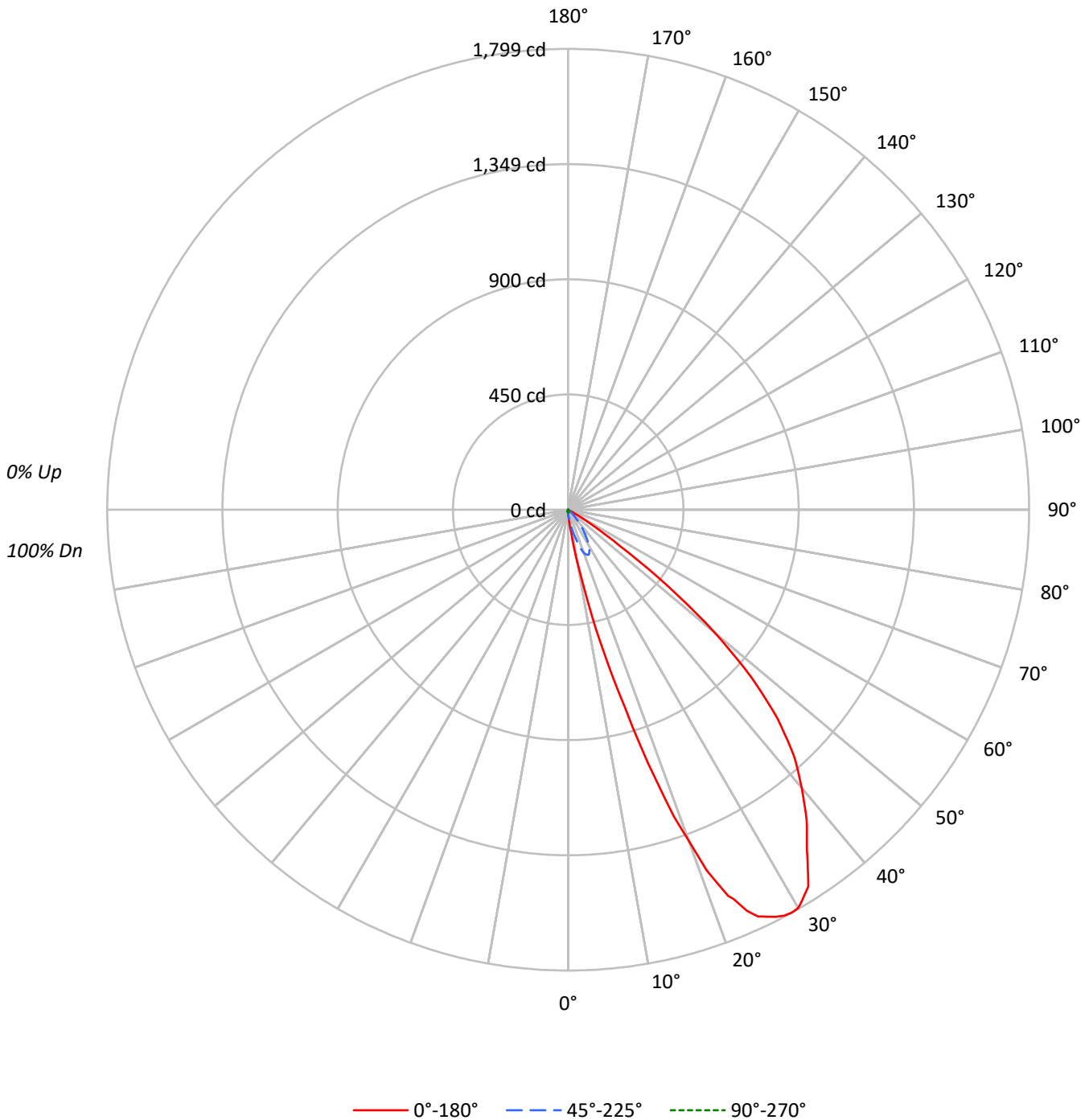
Lumens per Lamp: N/A
Luminaire Lumens: 485.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): 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					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	47	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°	8091	8091	8091
5°	25357	7082	4408
10°	108360	6012	3256
15°	350028	4342	2605
20°	721436	2678	1785
25°	953890	1306	1089
30°	1023154	570	570
35°	977807	422	181
40°	912924	193	0
45°	806912	0	0
50°	572965	230	0
55°	205404	258	0
60°	31674	691	0
65°	1634	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°	2.9	0.6
10°-20°	39.3	8.1
20°-30°	131.5	27.1
30°-40°	165.6	34.1
40°-50°	117.2	24.1
50°-60°	27.0	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°	173.7	35.8
0°-40°	339.3	69.9
0°-60°	483.5	99.6
0°-90°	485.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	51	34	14	10	9	10
15°	685	121	8	6	5	226
25°	1752	191	2	2	2	790
35°	1624	112	1	1	0	1016
45°	1156	28	0	0	0	867
55°	239	1	0	0	0	270
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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
1°	20.5	19.8	18.8	17.1	15.4	14.7	14.7	13.7	13.7
2°	24.6	23.6	21.5	18.1	15.4	13.7	13.0	12.3	12.0
3°	31.8	29.0	24.6	19.5	15.0	13.0	12.6	10.9	10.9
4°	39.6	36.9	28.4	20.5	14.7	12.3	10.9	10.2	9.9
5°	51.2	45.1	33.5	21.5	14.3	11.6	10.2	9.2	8.9
6°	66.3	57.7	38.3	22.5	14.0	10.9	9.6	8.5	8.2
7°	83.4	71.7	44.1	23.6	13.3	10.2	8.9	8.2	7.9
8°	119.6	92.2	50.9	24.3	13.0	9.6	8.5	7.5	7.2
9°	159.9	119.2	58.4	25.3	12.3	9.2	7.9	7.2	6.8
10°	216.3	156.1	67.0	26.0	12.0	8.5	7.2	6.8	6.5
11°	272.3	201.9	77.6	26.3	11.3	7.5	7.2	6.8	6.5
12°	364.5	245.6	86.8	26.3	10.6	7.2	6.5	6.1	5.8
13°	473.9	320.8	100.1	26.6	9.6	6.8	6.1	5.8	5.8
14°	570.2	388.1	109.0	26.6	9.2	6.1	5.8	5.8	5.5
15°	685.3	453.7	120.9	26.3	8.5	5.8	5.8	5.5	5.1
16°	805.9	552.1	137.0	25.6	7.9	5.1	5.5	4.8	4.4
17°	965.8	633.4	149.3	24.9	7.2	4.8	4.8	4.8	4.4
18°	1112.1	732.1	159.2	24.3	6.5	4.8	4.4	4.4	4.1
19°	1268.9	811.4	169.1	23.2	5.8	4.1	4.1	4.1	3.8
20°	1374.1	908.8	180.0	22.2	5.1	3.8	4.1	3.8	3.4
21°	1507.3	995.9	184.1	21.2	4.4	3.4	3.4	3.4	3.1
22.5°	1632.0	1111.7	190.6	19.1	3.8	2.7	3.1	2.7	2.7
23°	1651.2	1136.3	190.6	18.4	3.4	2.7	3.1	2.7	2.7
24°	1714.7	1203.6	193.0	17.1	2.7	2.4	2.7	2.4	2.4
25°	1752.3	1256.9	191.3	15.7	2.4	2.4	2.4	2.4	2.0
26°	1767.7	1271.6	187.2	14.7	2.0	2.0	2.4	2.0	1.7
27°	1783.7	1305.1	182.1	13.3	1.7	2.0	2.0	2.0	1.7
28°	1795.0	1309.2	177.0	12.3	1.4	1.7	2.0	1.7	1.7
29°	1798.8	1314.7	170.8	10.9	1.0	1.4	1.7	1.4	1.4
30°	1796.0	1313.6	161.9	9.9	1.0	1.4	1.4	1.4	1.0
32.5°	1743.8	1284.2	137.3	7.2	0.7	1.0	1.0	1.0	0.7
35°	1623.5	1216.6	112.1	4.8	0.7	0.7	0.7	0.7	0.3
37.5°	1528.5	1115.5	85.8	2.7	0.3	0.7	0.7	0.3	0.0
40°	1417.5	968.9	61.8	1.7	0.3	0.3	0.3	0.0	0.0
42.5°	1304.7	819.6	42.0	0.7	0.0	0.3	0.3	0.0	0.0
45°	1156.5	627.6	27.7	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	972.7	455.8	18.8	0.0	0.0	0.3	0.0	0.0	0.0
50°	746.5	255.2	10.6	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	492.0	127.4	4.1	0.0	0.3	0.3	0.3	0.0	0.0
55°	238.8	68.3	1.4	0.3	0.3	0.7	0.3	0.0	0.0
57.5°	112.7	26.6	0.3	0.3	0.7	0.7	0.3	0.0	0.0
60°	32.1	5.5	0.3	0.3	0.7	0.7	0.3	0.3	0.0
62.5°	4.4	0.7	0.3	0.7	0.7	0.7	0.7	0.3	0.0
65°	1.4	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)