

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: P493352

Luminaire Tested: **LDA2B059035R30D010 2LBDC1MW-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: P493352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059035R30D010 2LBDC1MW-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

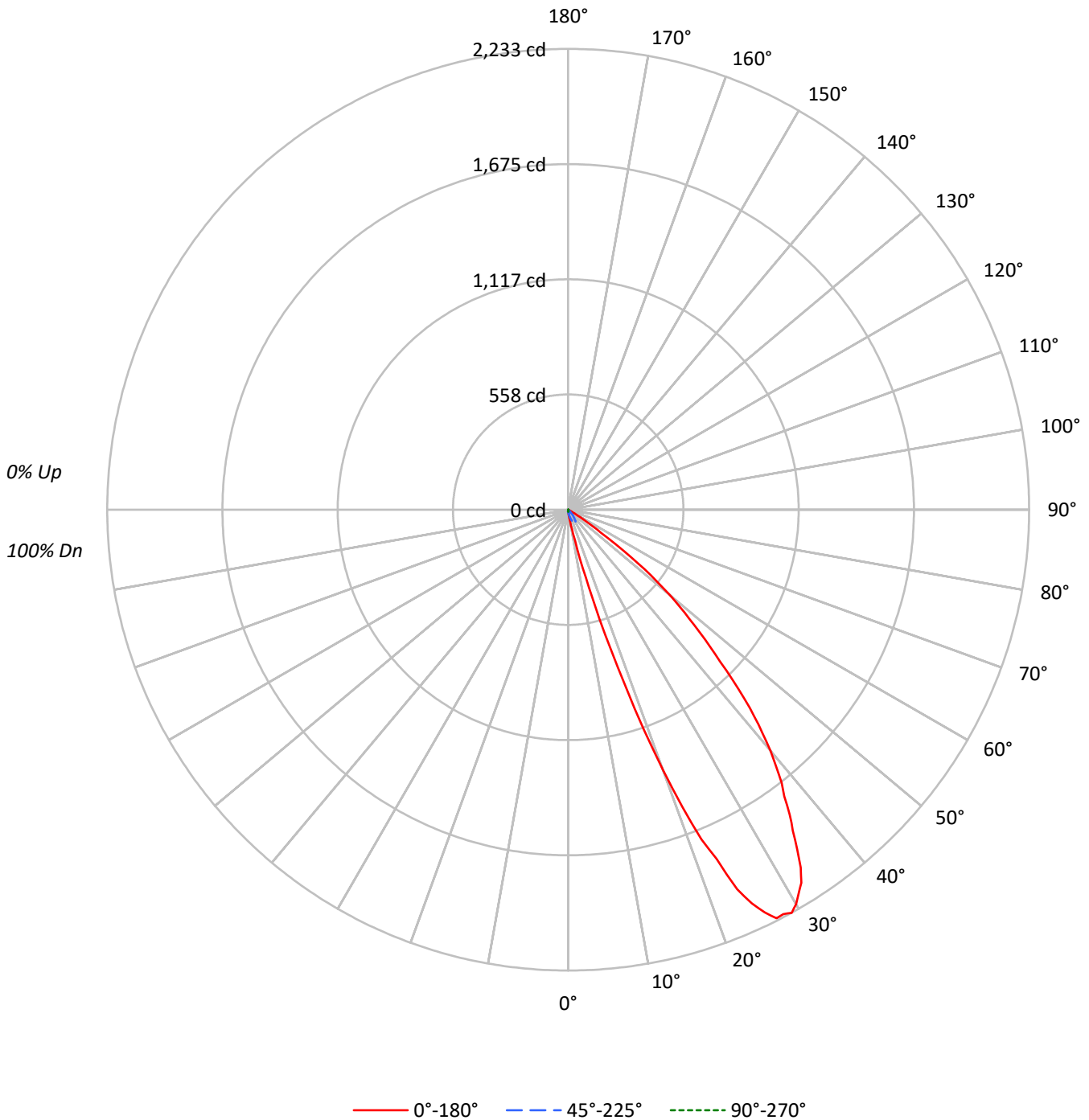
Lumens per Lamp: N/A
Luminaire Lumens: 449.2 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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				
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	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57					56				
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51					49				
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45					44				
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40					39				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36					34				
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4983	4983	4983
5°	10796	4507	3219
10°	32463	3908	2104
15°	196900	2809	1686
20°	705056	1523	683
25°	1145778	544	0
30°	1257523	171	0
35°	1142773	0	0
40°	980806	0	0
45°	727023	0	0
50°	491606	0	0
55°	166095	258	0
60°	23780	691	0
65°	1868	817	0
70°	0	1010	0
75°	0	1906	0
80°	0	1989	0
85°	0	3962	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.3
10°-20°	23.1	5.2
20°-30°	131.3	29.2
30°-40°	171.1	38.1
40°-50°	100.2	22.3
50°-60°	20.2	4.5
60°-70°	0.8	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°	155.8	34.7
0°-40°	326.9	72.8
0°-60°	447.4	99.6
0°-90°	449.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	9	7	6	3
15°	386	44	6	4	3	163
25°	2105	74	1	1	0	931
35°	1897	54	0	0	0	1182
45°	1042	13	0	0	0	814
55°	193	1	0	0	0	225
65°	2	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°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
2.5°	13.7	12.7	12.0	10.4	9.4	8.8	8.5	8.1	7.8
5°	21.8	20.2	15.6	11.4	9.1	7.8	7.2	6.5	6.5
7.5°	37.4	30.3	20.5	12.0	8.5	6.8	6.2	5.2	4.9
10°	64.8	50.5	28.0	12.7	7.8	6.2	4.9	4.6	4.2
12.5°	152.1	92.2	35.5	12.7	6.8	5.2	4.2	3.9	3.6
15°	385.5	187.9	44.0	12.0	5.5	3.9	3.6	3.3	3.3
17.5°	799.7	385.9	53.4	11.1	4.6	2.9	2.6	2.3	2.3
20°	1342.9	691.6	62.5	9.4	2.9	2.0	1.6	1.3	1.3
21°	1542.8	802.7	67.1	8.8	2.6	1.6	1.3	1.3	1.0
22°	1722.6	904.6	69.7	8.5	2.0	1.3	1.3	1.0	1.0
23°	1838.5	1033.9	72.0	7.5	1.6	1.0	1.0	0.7	0.3
24°	2013.3	1135.1	72.9	6.8	1.3	1.0	0.7	0.3	0.3
25°	2104.8	1227.0	73.9	6.2	1.0	1.0	0.7	0.3	0.0
26°	2170.6	1299.6	77.5	5.9	1.0	0.7	0.7	0.3	0.0
27°	2222.1	1345.8	79.5	5.2	0.7	0.7	0.7	0.0	0.0
28°	2219.1	1379.3	77.8	4.6	0.7	0.7	0.3	0.0	0.0
29°	2233.1	1402.1	76.8	3.9	0.3	0.3	0.3	0.0	0.0
30°	2207.4	1404.1	73.3	3.6	0.3	0.3	0.3	0.0	0.0
31°	2168.3	1380.3	72.0	3.3	0.0	0.3	0.3	0.0	0.0
32°	2131.5	1369.6	67.7	2.6	0.0	0.3	0.3	0.0	0.0
33°	2068.4	1321.4	63.5	2.3	0.0	0.3	0.0	0.0	0.0
34°	1983.7	1274.2	59.6	2.0	0.0	0.3	0.0	0.0	0.0
35°	1897.4	1235.1	54.1	2.0	0.0	0.3	0.0	0.0	0.0
36°	1825.8	1164.1	50.1	1.6	0.0	0.3	0.0	0.0	0.0
37°	1738.8	1103.2	44.9	1.3	0.0	0.0	0.0	0.0	0.0
38°	1679.6	1017.6	41.0	1.3	0.0	0.0	0.0	0.0	0.0
39°	1599.8	945.3	36.1	1.0	0.0	0.0	0.0	0.0	0.0
40°	1522.9	870.4	31.3	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1302.5	671.4	21.5	0.3	0.0	0.0	0.0	0.0	0.0
45°	1042.0	492.3	13.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	827.4	332.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	640.5	171.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	425.9	72.6	2.9	0.0	0.0	0.3	0.0	0.0	0.0
55°	193.1	37.8	1.3	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	77.8	16.3	0.7	0.3	0.3	0.3	0.3	0.0	0.0
60°	24.1	4.6	0.3	0.3	0.7	0.7	0.3	0.0	0.0
62.5°	4.9	1.0	0.3	0.7	0.7	0.7	0.3	0.0	0.0
65°	1.6	0.3	0.3	0.7	0.7	0.7	0.7	0.0	0.0
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	0.7	0.7	0.7	1.0	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	1.0	1.0	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	0.0	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)