

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: P491840

Luminaire Tested: **LDA2B058030R30D010 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: P491840
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: LDA2B058030R30D010 2LBDC1MW-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

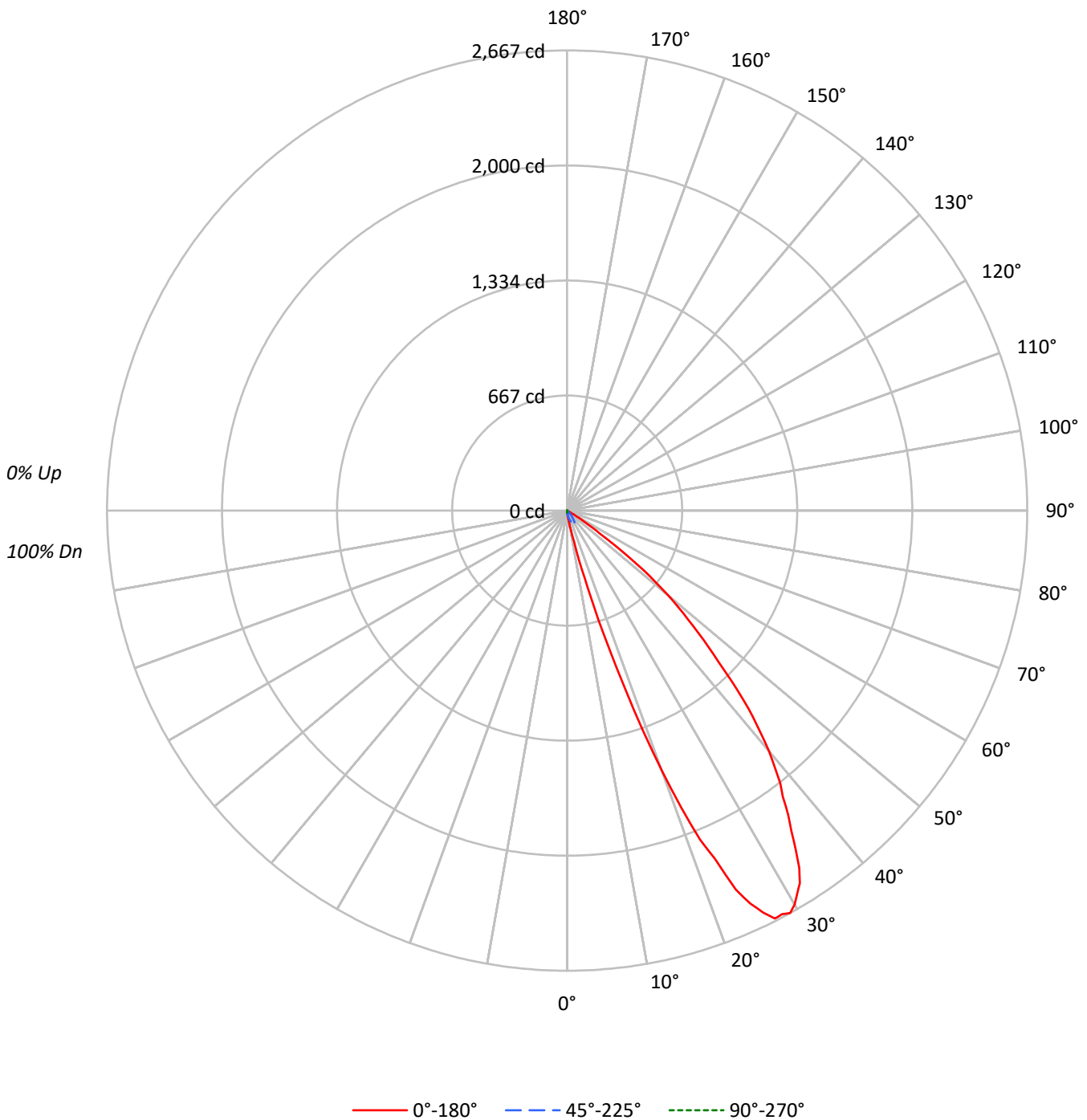
Lumens per Lamp: N/A
Luminaire Lumens: 536.4 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	5970	5970	5970
5°	12926	5398	3863
10°	38775	4659	2555
15°	235157	3371	1992
20°	841930	1838	840
25°	1368315	653	0
30°	1501747	228	0
35°	1364714	0	0
40°	1171312	0	0
45°	868172	0	0
50°	587087	0	0
55°	198351	344	0
60°	28418	789	0
65°	2218	934	0
70°	0	1154	0
75°	0	2287	0
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.3
10°-20°	27.6	5.2
20°-30°	156.9	29.2
30°-40°	204.4	38.1
40°-50°	119.7	22.3
50°-60°	24.2	4.5
60°-70°	0.9	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°	186.1	34.7
0°-40°	390.4	72.8
0°-60°	534.3	99.6
0°-90°	536.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	26	19	11	9	8	4
15°	460	52	7	4	4	195
25°	2514	88	1	1	0	1112
35°	2266	65	0	0	0	1411
45°	1244	16	0	0	0	972
55°	231	2	0	0	0	269
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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	16.3	15.2	14.4	12.4	11.3	10.5	10.1	9.7	9.3
5°	26.1	24.1	18.7	13.6	10.9	9.3	8.6	7.8	7.8
7.5°	44.7	36.2	24.5	14.4	10.1	8.2	7.4	6.2	5.8
10°	77.4	60.3	33.4	15.2	9.3	7.4	5.8	5.4	5.1
12.5°	181.6	110.0	42.4	15.2	8.2	6.2	5.1	4.7	4.3
15°	460.4	224.4	52.5	14.4	6.6	4.7	4.3	3.9	3.9
17.5°	955.0	460.8	63.8	13.2	5.4	3.5	3.1	2.7	2.7
20°	1603.6	825.9	74.7	11.3	3.5	2.3	1.9	1.6	1.6
21°	1842.4	958.5	80.1	10.5	3.1	1.9	1.6	1.6	1.2
22°	2057.0	1080.2	83.2	10.1	2.3	1.6	1.6	1.2	1.2
23°	2195.5	1234.6	85.9	8.9	1.9	1.2	1.2	0.8	0.4
24°	2404.3	1355.6	87.1	8.2	1.6	1.2	0.8	0.4	0.4
25°	2513.6	1465.2	88.3	7.4	1.2	1.2	0.8	0.4	0.0
26°	2592.1	1551.9	92.5	7.0	1.2	0.8	0.8	0.4	0.0
27°	2653.6	1607.1	94.9	6.2	0.8	0.8	0.8	0.0	0.0
28°	2650.1	1647.2	92.9	5.4	0.8	0.8	0.4	0.0	0.0
29°	2666.8	1674.4	91.8	4.7	0.4	0.4	0.4	0.0	0.0
30°	2636.1	1676.7	87.5	4.3	0.4	0.4	0.4	0.0	0.0
31°	2589.4	1648.4	85.9	3.9	0.0	0.4	0.4	0.0	0.0
32°	2545.4	1635.5	80.9	3.1	0.0	0.4	0.4	0.0	0.0
33°	2470.0	1578.0	75.8	2.7	0.0	0.4	0.0	0.0	0.0
34°	2368.9	1521.6	71.2	2.3	0.0	0.4	0.0	0.0	0.0
35°	2265.9	1474.9	64.6	2.3	0.0	0.4	0.0	0.0	0.0
36°	2180.3	1390.2	59.9	1.9	0.0	0.4	0.0	0.0	0.0
37°	2076.5	1317.4	53.7	1.6	0.0	0.0	0.0	0.0	0.0
38°	2005.7	1215.2	49.0	1.6	0.0	0.0	0.0	0.0	0.0
39°	1910.4	1128.8	43.2	1.2	0.0	0.0	0.0	0.0	0.0
40°	1818.7	1039.4	37.3	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1555.4	801.8	25.7	0.4	0.0	0.0	0.0	0.0	0.0
45°	1244.3	587.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	988.1	397.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	764.9	204.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	508.6	86.7	3.5	0.0	0.0	0.4	0.0	0.0	0.0
55°	230.6	45.1	1.6	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	92.9	19.4	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	28.8	5.4	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	5.8	1.2	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	1.9	0.4	0.4	0.8	0.8	0.8	0.8	0.0	0.0
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	1.2	1.2	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	0.0	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)