

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: P492502

Luminaire Tested: **LDA2B058050R30D010 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: P492502
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: LDA2B058050R30D010 2LBDLC1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

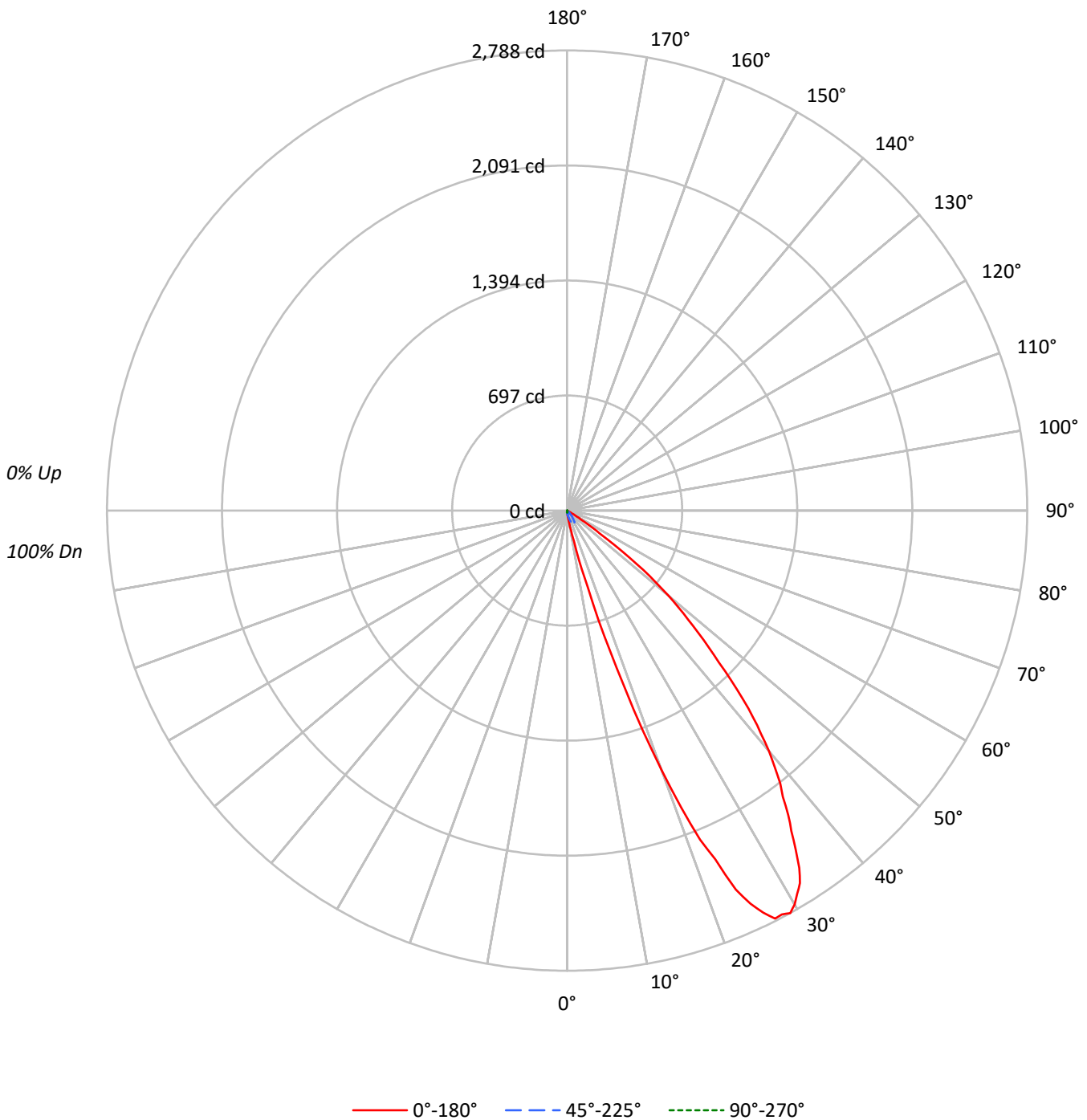
Lumens per Lamp: N/A
Luminaire Lumens: 560.8 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P492502

CATALOG NUMBER: LDA2B058050R30D010 2LBDLC1MMS-30DEG TILT

Luminous Intensity Polar Plot





TEST NUMBER: P492502

CATALOG NUMBER: LDA2B058050R30D010 2LBDLC1MMS-30DEG TILT

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	58					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°	6216	6216	6216
5°	13471	5646	4011
10°	40529	4910	2655
15°	245883	3524	2094
20°	880309	1943	840
25°	1430699	653	0
30°	1570166	228	0
35°	1426930	0	0
40°	1224703	0	0
45°	907802	0	0
50°	613797	0	0
55°	207382	344	0
60°	29700	789	0
65°	2335	934	0
70°	0	1154	0
75°	0	2287	0
80°	0	2273	0
85°	0	4529	0



TEST NUMBER: P492502

CATALOG NUMBER: LDA2B058050R30D010 2LBDLC1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.3
10°-20°	28.9	5.2
20°-30°	164.0	29.2
30°-40°	213.7	38.1
40°-50°	125.2	22.3
50°-60°	25.3	4.5
60°-70°	1.0	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°	194.5	34.7
0°-40°	408.2	72.8
0°-60°	558.7	99.6
0°-90°	560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	27	20	11	9	8	4
15°	481	55	7	4	4	204
25°	2628	92	1	1	0	1162
35°	2369	68	0	0	0	1475
45°	1301	17	0	0	0	1016
55°	241	2	0	0	0	281
65°	2	0	1	1	0	6
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P492502

CATALOG NUMBER: LDA2B058050R30D010 2LBDLC1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	17.1	15.9	15.0	13.0	11.8	11.0	10.6	10.2	9.8
5°	27.2	25.2	19.5	14.2	11.4	9.8	8.9	8.1	8.1
7.5°	46.8	37.8	25.6	15.0	10.6	8.5	7.7	6.5	6.1
10°	80.9	63.0	35.0	15.9	9.8	7.7	6.1	5.7	5.3
12.5°	189.9	115.1	44.3	15.9	8.5	6.5	5.3	4.9	4.5
15°	481.4	234.6	54.9	15.0	6.9	4.9	4.5	4.1	4.1
17.5°	998.6	481.8	66.7	13.8	5.7	3.7	3.3	2.8	2.8
20°	1676.7	863.6	78.1	11.8	3.7	2.4	2.0	1.6	1.6
21°	1926.4	1002.2	83.8	11.0	3.3	2.0	1.6	1.6	1.2
22°	2150.8	1129.5	87.0	10.6	2.4	1.6	1.6	1.2	1.2
23°	2295.6	1290.9	89.9	9.4	2.0	1.2	1.2	0.8	0.4
24°	2513.9	1417.3	91.1	8.5	1.6	1.2	0.8	0.4	0.4
25°	2628.2	1532.0	92.3	7.7	1.2	1.2	0.8	0.4	0.0
26°	2710.3	1622.7	96.8	7.3	1.2	0.8	0.8	0.4	0.0
27°	2774.5	1680.4	99.2	6.5	0.8	0.8	0.8	0.0	0.0
28°	2770.9	1722.3	97.2	5.7	0.8	0.8	0.4	0.0	0.0
29°	2788.3	1750.7	96.0	4.9	0.4	0.4	0.4	0.0	0.0
30°	2756.2	1753.2	91.5	4.5	0.4	0.4	0.4	0.0	0.0
31°	2707.4	1723.5	89.9	4.1	0.0	0.4	0.4	0.0	0.0
32°	2661.5	1710.1	84.6	3.3	0.0	0.4	0.4	0.0	0.0
33°	2582.6	1649.9	79.3	2.8	0.0	0.4	0.0	0.0	0.0
34°	2476.9	1591.0	74.4	2.4	0.0	0.4	0.0	0.0	0.0
35°	2369.2	1542.2	67.5	2.4	0.0	0.4	0.0	0.0	0.0
36°	2279.7	1453.5	62.6	2.0	0.0	0.4	0.0	0.0	0.0
37°	2171.2	1377.5	56.1	1.6	0.0	0.0	0.0	0.0	0.0
38°	2097.2	1270.6	51.2	1.6	0.0	0.0	0.0	0.0	0.0
39°	1997.5	1180.3	45.1	1.2	0.0	0.0	0.0	0.0	0.0
40°	1901.6	1086.8	39.0	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1626.3	838.4	26.8	0.4	0.0	0.0	0.0	0.0	0.0
45°	1301.1	614.8	16.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1033.1	415.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	799.7	213.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	531.8	90.7	3.7	0.0	0.0	0.4	0.0	0.0	0.0
55°	241.1	47.2	1.6	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	97.2	20.3	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	30.1	5.7	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	6.1	1.2	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	2.0	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



TEST NUMBER: P492502

CATALOG NUMBER: LDA2B058050R30D010 2LBDLC1MMS-30DEG TILT

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)