

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: P491600

Luminaire Tested: **LDA2B058027R20D010 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: P491600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B058027R20D010 2LBDLC1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

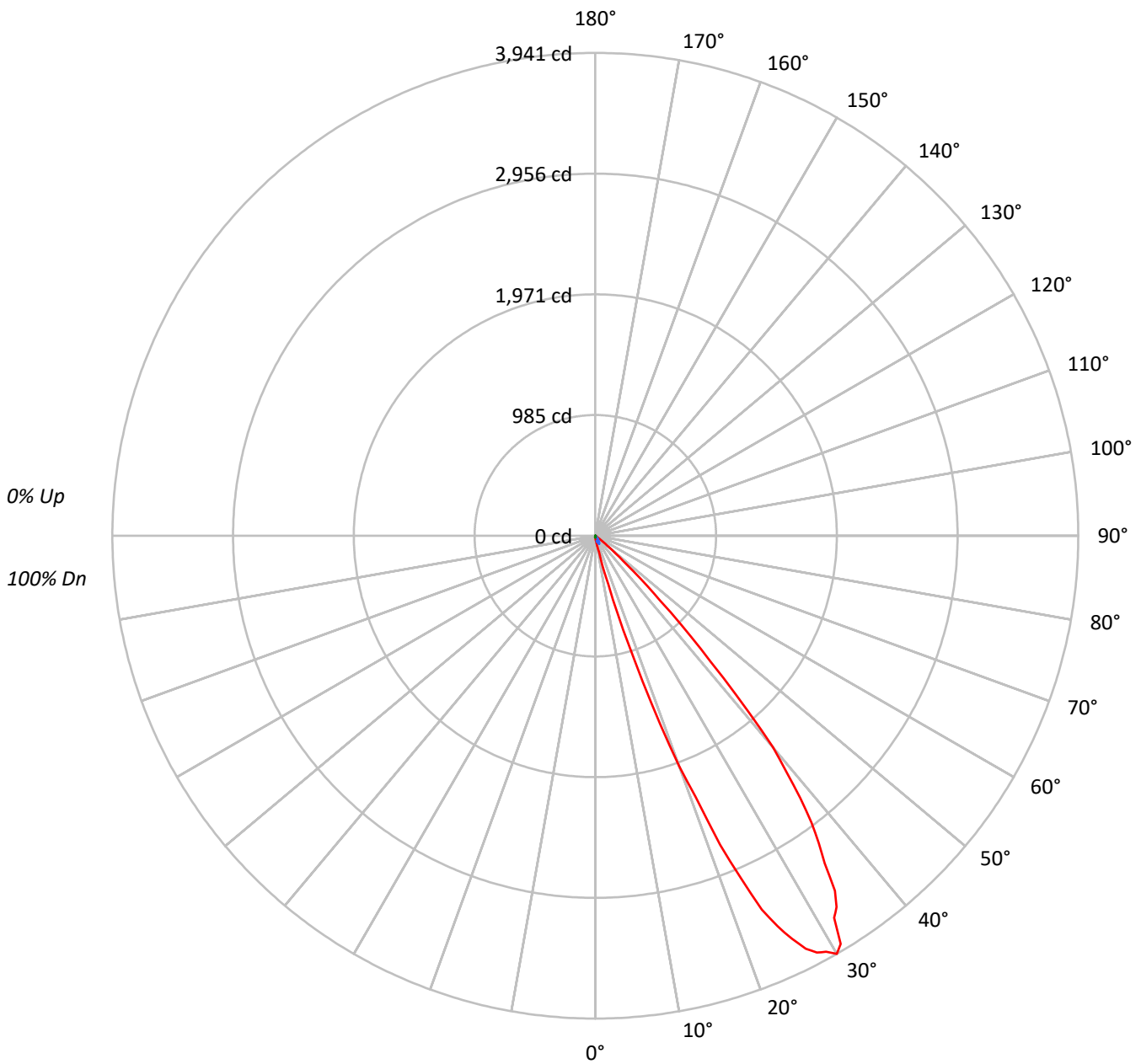
Lumens per Lamp: N/A
Luminaire Lumens: 497.7 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P491600

CATALOG NUMBER: LDA2B058027R20D010 2LBDLC1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P491600

CATALOG NUMBER: LDA2B058027R20D010 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7894	7894	7894
5°	15105	6983	5101
10°	36120	6112	3457
15°	210435	4852	1379
20°	1049734	2993	420
25°	1914149	1034	0
30°	2245072	0	0
35°	1965010	0	0
40°	1451082	0	0
45°	523010	0	0
50°	108913	0	0
55°	24944	344	0
60°	7894	395	0
65°	1751	934	0
70°	0	1154	577
75°	0	1525	0
80°	0	2273	0
85°	0	4529	0



TEST NUMBER: P491600

CATALOG NUMBER: LDA2B058027R20D010 2LBDLC1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	27.3	5.5
20°-30°	184.3	37.0
30°-40°	215.3	43.3
40°-50°	62.8	12.6
50°-60°	4.2	0.8
60°-70°	0.8	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°	213.4	42.9
0°-40°	428.7	86.1
0°-60°	495.7	99.6
0°-90°	497.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	30	22	14	12	10	4
15°	412	46	10	5	3	215
25°	3516	72	2	0	0	1557
35°	3263	39	0	0	0	2004
45°	750	8	0	0	0	691
55°	29	2	0	0	0	37
65°	2	1	1	1	0	2
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P491600

CATALOG NUMBER: LDA2B058027R20D010 2LBDLC1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	20.6	20.6	18.3	16.4	14.9	14.1	13.7	13.0	12.6
5°	30.5	26.7	22.1	17.2	14.1	13.0	11.8	10.7	10.3
7.5°	44.6	38.9	26.7	17.5	13.4	11.4	10.3	9.2	8.4
10°	72.1	56.1	32.8	17.5	12.2	9.9	8.4	7.2	6.9
12.5°	133.1	85.8	39.3	17.2	11.1	8.4	6.5	5.7	4.6
15°	412.0	177.8	46.5	16.4	9.5	6.5	5.0	3.1	2.7
17.5°	1065.5	415.1	51.9	14.5	7.6	4.6	2.3	1.9	1.9
20°	1999.4	752.7	59.5	12.6	5.7	3.1	1.5	1.1	0.8
21°	2281.0	920.9	63.3	11.8	5.0	1.9	1.1	0.4	0.4
22°	2718.6	1104.4	66.4	11.1	4.2	1.1	0.8	0.4	0.0
23°	3030.3	1221.6	69.4	9.9	3.1	1.1	0.4	0.0	0.0
24°	3341.9	1370.7	71.3	9.2	2.7	0.8	0.4	0.0	0.0
25°	3516.3	1495.1	72.1	8.4	1.9	0.4	0.0	0.0	0.0
26°	3659.7	1578.3	72.5	7.6	1.1	0.0	0.0	0.0	0.0
27°	3782.6	1674.8	71.7	6.9	1.1	0.0	0.0	0.0	0.0
28°	3852.4	1690.8	70.6	6.1	0.4	0.0	0.0	0.0	0.0
29°	3882.5	1671.4	67.1	5.3	0.4	0.0	0.0	0.0	0.0
30°	3940.9	1653.0	63.7	5.0	0.0	0.0	0.0	0.0	0.0
31°	3887.1	1592.4	59.5	4.2	0.0	0.0	0.0	0.0	0.0
32°	3676.5	1541.3	54.6	3.4	0.0	0.0	0.0	0.0	0.0
33°	3613.6	1436.3	49.2	3.1	0.0	0.0	0.0	0.0	0.0
34°	3494.9	1280.3	44.6	2.7	0.0	0.0	0.0	0.0	0.0
35°	3262.6	1151.4	38.9	2.3	0.0	0.0	0.0	0.0	0.0
36°	3100.5	1004.1	34.0	1.9	0.0	0.0	0.0	0.0	0.0
37°	2930.7	875.5	30.1	1.5	0.0	0.0	0.0	0.0	0.0
38°	2719.7	740.5	25.6	1.1	0.0	0.0	0.0	0.0	0.0
39°	2474.0	611.9	21.7	1.1	0.0	0.0	0.0	0.0	0.0
40°	2253.1	493.3	18.7	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1390.6	281.5	11.1	0.8	0.0	0.0	0.0	0.0	0.0
45°	749.6	170.9	8.0	0.4	0.0	0.0	0.0	0.0	0.0
47.5°	345.3	79.7	5.7	0.4	0.0	0.0	0.0	0.0	0.0
50°	141.9	35.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	51.1	19.8	2.7	0.0	0.0	0.4	0.0	0.0	0.0
55°	29.0	11.4	1.5	0.4	0.4	0.4	0.4	0.0	0.0
57.5°	13.7	6.5	0.4	0.4	0.4	0.4	0.4	0.0	0.0
60°	8.0	3.4	0.4	0.4	0.4	0.8	0.4	0.0	0.0
62.5°	3.8	1.1	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.5	0.4	0.8	0.8	0.8	1.1	0.8	0.4	0.0
67.5°	0.4	0.4	0.8	0.8	0.8	1.1	0.8	0.4	0.4
70°	0.0	0.4	0.8	0.8	0.8	1.1	0.8	0.4	0.4
72.5°	0.0	0.4	0.8	0.8	0.8	1.1	0.8	0.4	0.4
75°	0.0	0.4	0.8	0.8	0.8	0.8	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: P491600

CATALOG NUMBER: LDA2B058027R20D010 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	0.4	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)