

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: P495094

Luminaire Tested: **LDA2B108040R30D010 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: P495094
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: LDA2B108040R30D010 2LBDLC1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

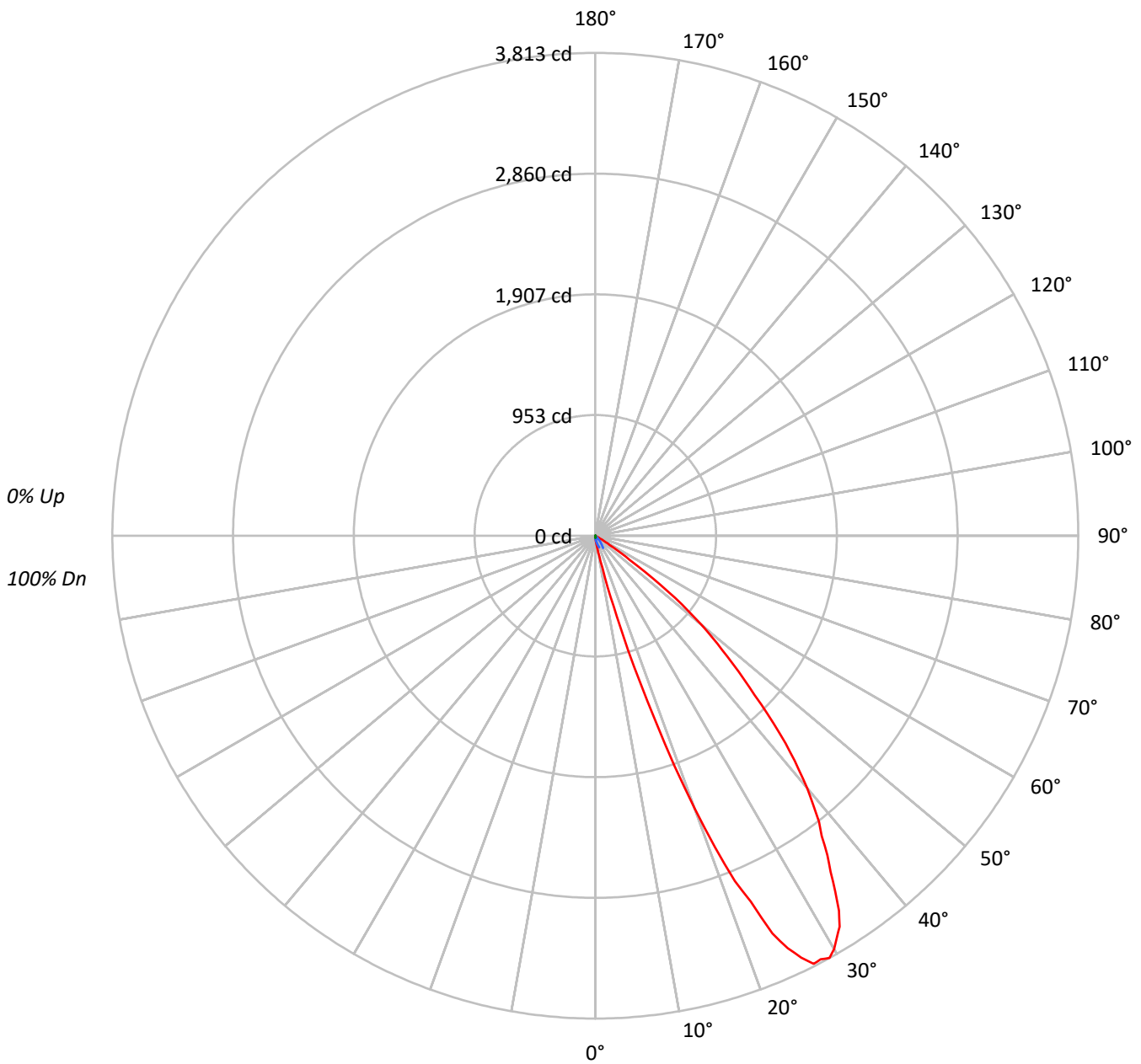
Lumens per Lamp: N/A
Luminaire Lumens: 767.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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: P495094

CATALOG NUMBER: LDA2B108040R30D010 2LBDLC1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P495094

CATALOG NUMBER: LDA2B108040R30D010 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					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	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56					56			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8486	8486	8486
5°	18473	7726	5497
10°	55408	6663	3607
15°	336237	4852	2860
20°	1203829	2625	1155
25°	1956392	925	0
30°	2147200	342	0
35°	1951278	0	0
40°	1674757	0	0
45°	1241382	0	0
50°	839376	0	0
55°	283591	516	0
60°	40554	1085	0
65°	3269	1284	0
70°	0	1587	0
75°	0	3241	0
80°	0	3125	0
85°	0	6227	0



TEST NUMBER: P495094

CATALOG NUMBER: LDA2B108040R30D010 2LBDLC1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.3
10°-20°	39.5	5.2
20°-30°	224.3	29.2
30°-40°	292.2	38.1
40°-50°	171.2	22.3
50°-60°	34.6	4.5
60°-70°	1.3	0.2
70°-80°	0.9	0.1
80°-90°	0.7	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°	266.0	34.7
0°-40°	558.2	72.8
0°-60°	764.0	99.6
0°-90°	767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	37	27	16	12	11	6
15°	658	75	10	6	6	279
25°	3594	126	2	1	0	1589
35°	3240	92	0	0	0	2018
45°	1779	23	0	0	0	1390
55°	330	2	1	1	0	385
65°	3	1	1	1	0	8
75°	0	1	2	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P495094

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	23.4	21.7	20.6	17.8	16.1	15.0	14.5	13.9	13.3
5°	37.3	34.5	26.7	19.5	15.6	13.3	12.2	11.1	11.1
7.5°	63.9	51.7	35.0	20.6	14.5	11.7	10.6	8.9	8.3
10°	110.6	86.2	47.8	21.7	13.3	10.6	8.3	7.8	7.2
12.5°	259.6	157.3	60.6	21.7	11.7	8.9	7.2	6.7	6.1
15°	658.3	320.8	75.1	20.6	9.5	6.7	6.1	5.6	5.6
17.5°	1365.5	658.9	91.2	18.9	7.8	5.0	4.4	3.9	3.9
20°	2292.9	1180.9	106.8	16.1	5.0	3.3	2.8	2.2	2.2
21°	2634.3	1370.5	114.5	15.0	4.4	2.8	2.2	2.2	1.7
22°	2941.2	1544.5	119.0	14.5	3.3	2.2	2.2	1.7	1.7
23°	3139.1	1765.3	122.9	12.8	2.8	1.7	1.7	1.1	0.6
24°	3437.7	1938.2	124.5	11.7	2.2	1.7	1.1	0.6	0.6
25°	3593.9	2095.0	126.2	10.6	1.7	1.7	1.1	0.6	0.0
26°	3706.2	2219.0	132.3	10.0	1.7	1.1	1.1	0.6	0.0
27°	3794.1	2297.9	135.7	8.9	1.1	1.1	1.1	0.0	0.0
28°	3789.1	2355.2	132.9	7.8	1.1	1.1	0.6	0.0	0.0
29°	3813.0	2394.1	131.2	6.7	0.6	0.6	0.6	0.0	0.0
30°	3769.1	2397.4	125.1	6.1	0.6	0.6	0.6	0.0	0.0
31°	3702.4	2356.9	122.9	5.6	0.0	0.6	0.6	0.0	0.0
32°	3639.5	2338.5	115.6	4.4	0.0	0.6	0.6	0.0	0.0
33°	3531.7	2256.2	108.4	3.9	0.0	0.6	0.0	0.0	0.0
34°	3387.1	2175.6	101.7	3.3	0.0	0.6	0.0	0.0	0.0
35°	3239.8	2108.9	92.3	3.3	0.0	0.6	0.0	0.0	0.0
36°	3117.5	1987.7	85.6	2.8	0.0	0.6	0.0	0.0	0.0
37°	2969.0	1883.7	76.7	2.2	0.0	0.0	0.0	0.0	0.0
38°	2867.8	1737.5	70.1	2.2	0.0	0.0	0.0	0.0	0.0
39°	2731.6	1614.0	61.7	1.7	0.0	0.0	0.0	0.0	0.0
40°	2600.4	1486.2	53.4	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2224.0	1146.5	36.7	0.6	0.0	0.0	0.0	0.0	0.0
45°	1779.2	840.7	22.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1412.8	567.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	1093.6	292.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	727.2	124.0	5.0	0.0	0.0	0.6	0.0	0.0	0.0
55°	329.7	64.5	2.2	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	132.9	27.8	1.1	0.6	0.6	0.6	0.6	0.0	0.0
60°	41.1	7.8	0.6	0.6	1.1	1.1	0.6	0.0	0.0
62.5°	8.3	1.7	0.6	1.1	1.1	1.1	0.6	0.0	0.0
65°	2.8	0.6	0.6	1.1	1.1	1.1	1.1	0.0	0.0
67.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
70°	0.0	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.0
72.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
75°	0.0	0.6	1.1	1.1	1.7	1.7	1.1	0.6	0.0
77.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
80°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	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	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
85°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	0.0	0.6	1.1	1.1	1.1	1.1	0.6	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)