

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: P495048

Luminaire Tested: **LDA2B108040R20D010 2LBDL1MMS-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: P495048
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: LDA2B108040R20D010 2LBDL1MMS-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

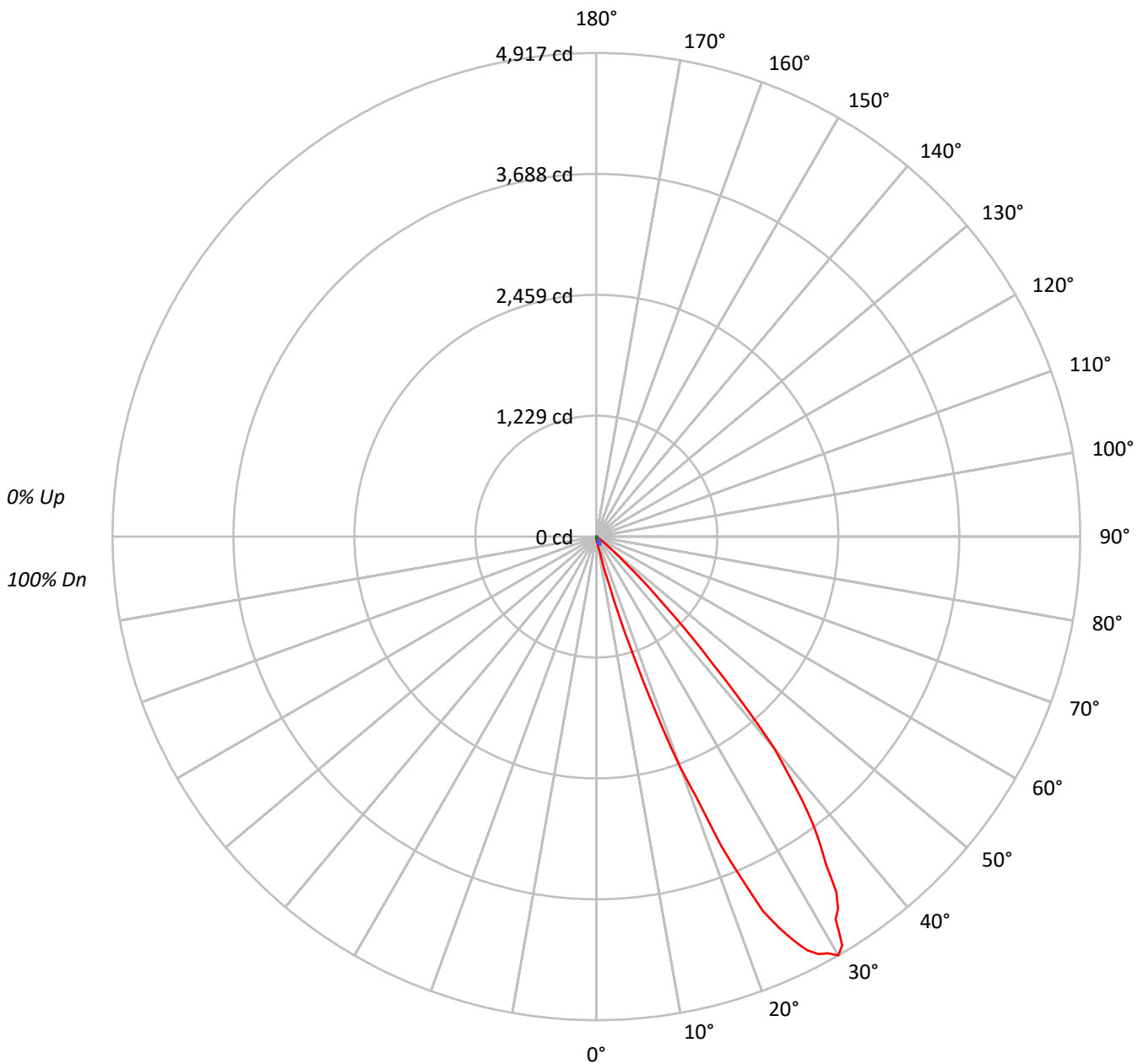
Lumens per Lamp: N/A
Luminaire Lumens: 621.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P495048

CATALOG NUMBER: LDA2B108040R20D010 2LBDL1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P495048

CATALOG NUMBER: LDA2B108040R20D010 2LBDL1MMS-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°	9867	9867	9867
5°	18869	8716	6389
10°	45088	7615	4308
15°	262585	6078	1686
20°	1309831	3728	525
25°	2388345	1306	0
30°	2801256	0	0
35°	2451776	0	0
40°	1810584	0	0
45°	652646	0	0
50°	135930	0	0
55°	31137	430	0
60°	9867	493	0
65°	2218	1167	0
70°	0	1442	721
75°	0	1906	0
80°	0	2841	0
85°	0	5661	0



TEST NUMBER: P495048

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	34.1	5.5
20°-30°	229.9	37.0
30°-40°	268.6	43.3
40°-50°	78.3	12.6
50°-60°	5.2	0.8
60°-70°	1.0	0.2
70°-80°	0.8	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°	266.3	42.9
0°-40°	534.9	86.1
0°-60°	618.5	99.6
0°-90°	621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	38	28	18	15	13	5
15°	514	58	12	6	3	268
25°	4387	90	2	0	0	1943
35°	4071	49	0	0	0	2501
45°	935	10	0	0	0	862
55°	36	2	0	0	0	46
65°	2	1	1	1	0	3
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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	25.7	25.7	22.8	20.5	18.6	17.6	17.1	16.2	15.7
5°	38.1	33.3	27.6	21.4	17.6	16.2	14.8	13.3	12.9
7.5°	55.7	48.6	33.3	21.9	16.7	14.3	12.9	11.4	10.5
10°	90.0	70.0	40.9	21.9	15.2	12.4	10.5	9.0	8.6
12.5°	166.1	107.1	49.0	21.4	13.8	10.5	8.1	7.1	5.7
15°	514.1	221.8	58.1	20.5	11.9	8.1	6.2	3.8	3.3
17.5°	1329.5	517.9	64.7	18.1	9.5	5.7	2.9	2.4	2.4
20°	2494.8	939.2	74.3	15.7	7.1	3.8	1.9	1.4	1.0
21°	2846.1	1149.1	79.0	14.8	6.2	2.4	1.4	0.5	0.5
22°	3392.0	1378.0	82.8	13.8	5.2	1.4	1.0	0.5	0.0
23°	3780.9	1524.2	86.6	12.4	3.8	1.4	0.5	0.0	0.0
24°	4169.8	1710.3	89.0	11.4	3.3	1.0	0.5	0.0	0.0
25°	4387.4	1865.5	90.0	10.5	2.4	0.5	0.0	0.0	0.0
26°	4566.4	1969.2	90.4	9.5	1.4	0.0	0.0	0.0	0.0
27°	4719.6	2089.7	89.5	8.6	1.4	0.0	0.0	0.0	0.0
28°	4806.7	2109.7	88.1	7.6	0.5	0.0	0.0	0.0	0.0
29°	4844.3	2085.4	83.8	6.7	0.5	0.0	0.0	0.0	0.0
30°	4917.2	2062.5	79.5	6.2	0.0	0.0	0.0	0.0	0.0
31°	4850.1	1986.9	74.3	5.2	0.0	0.0	0.0	0.0	0.0
32°	4587.3	1923.1	68.1	4.3	0.0	0.0	0.0	0.0	0.0
33°	4508.8	1792.2	61.4	3.8	0.0	0.0	0.0	0.0	0.0
34°	4360.7	1597.5	55.7	3.3	0.0	0.0	0.0	0.0	0.0
35°	4070.8	1436.6	48.6	2.9	0.0	0.0	0.0	0.0	0.0
36°	3868.5	1252.9	42.4	2.4	0.0	0.0	0.0	0.0	0.0
37°	3656.7	1092.4	37.6	1.9	0.0	0.0	0.0	0.0	0.0
38°	3393.5	923.9	31.9	1.4	0.0	0.0	0.0	0.0	0.0
39°	3086.9	763.5	27.1	1.4	0.0	0.0	0.0	0.0	0.0
40°	2811.3	615.5	23.3	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	1735.1	351.3	13.8	1.0	0.0	0.0	0.0	0.0	0.0
45°	935.4	213.3	10.0	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	430.8	99.5	7.1	0.5	0.0	0.0	0.0	0.0	0.0
50°	177.1	44.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	63.8	24.8	3.3	0.0	0.0	0.5	0.0	0.0	0.0
55°	36.2	14.3	1.9	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	17.1	8.1	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	10.0	4.3	0.5	0.5	0.5	1.0	0.5	0.0	0.0
62.5°	4.8	1.4	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	1.9	0.5	1.0	1.0	1.0	1.4	1.0	0.5	0.0
67.5°	0.5	0.5	1.0	1.0	1.0	1.4	1.0	0.5	0.5
70°	0.0	0.5	1.0	1.0	1.0	1.4	1.0	0.5	0.5
72.5°	0.0	0.5	1.0	1.0	1.0	1.4	1.0	0.5	0.5
75°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
77.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
80°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	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	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
85°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
87.5°	0.0	0.5	1.0	1.0	1.0	1.0	0.5	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)