

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: P496560

Luminaire Tested: **LDA2B109050R20D010 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: P496560
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: LDA2B109050R20D010 2LBDL1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

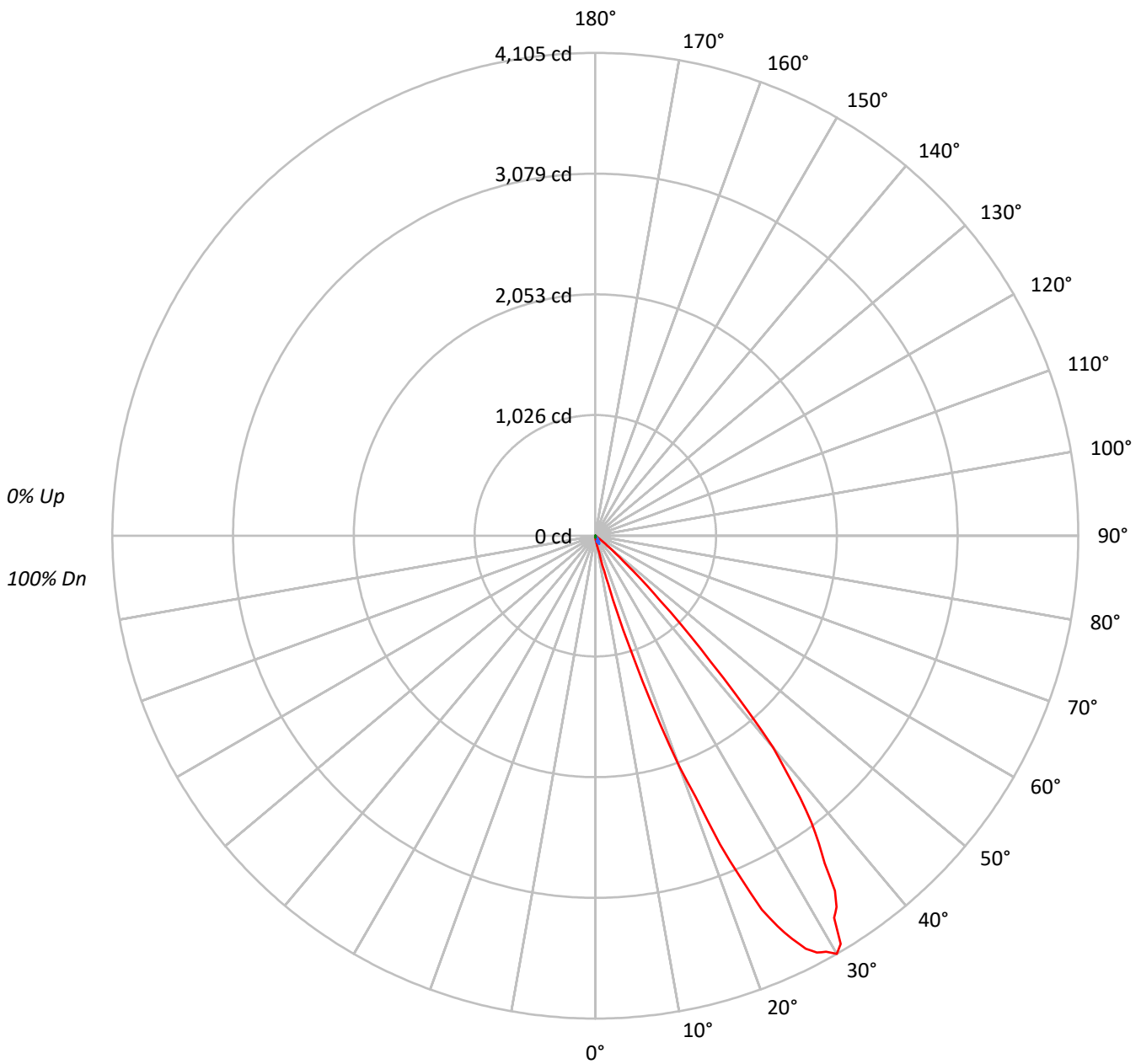
Lumens per Lamp: N/A
Luminaire Lumens: 518.3 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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	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°	8239	8239	8239
5°	15749	7280	5299
10°	37623	6362	3607
15°	219221	5057	1430
20°	1093416	3150	420
25°	1993789	1089	0
30°	2338500	0	0
35°	2046800	0	0
40°	1511493	0	0
45°	544779	0	0
50°	113442	0	0
55°	25977	344	0
60°	8190	395	0
65°	1868	934	0
70°	0	1154	577
75°	0	1525	0
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.4
10°-20°	28.5	5.5
20°-30°	191.9	37.0
30°-40°	224.2	43.3
40°-50°	65.4	12.6
50°-60°	4.4	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°	222.3	42.9
0°-40°	446.5	86.1
0°-60°	516.3	99.6
0°-90°	518.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	32	23	15	12	11	4
15°	429	48	10	5	3	224
25°	3663	75	2	0	0	1622
35°	3398	40	0	0	0	2088
45°	781	8	0	0	0	719
55°	30	2	0	0	0	38
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	21.5	21.5	19.1	17.1	15.5	14.7	14.3	13.5	13.1
5°	31.8	27.8	23.0	17.9	14.7	13.5	12.3	11.1	10.7
7.5°	46.5	40.5	27.8	18.3	13.9	11.9	10.7	9.5	8.7
10°	75.1	58.4	34.2	18.3	12.7	10.3	8.7	7.6	7.2
12.5°	138.7	89.4	40.9	17.9	11.5	8.7	6.8	6.0	4.8
15°	429.2	185.2	48.5	17.1	9.9	6.8	5.2	3.2	2.8
17.5°	1109.9	432.3	54.0	15.1	7.9	4.8	2.4	2.0	2.0
20°	2082.6	784.0	62.0	13.1	6.0	3.2	1.6	1.2	0.8
21°	2375.9	959.3	66.0	12.3	5.2	2.0	1.2	0.4	0.4
22°	2831.7	1150.4	69.1	11.5	4.4	1.2	0.8	0.4	0.0
23°	3156.4	1272.4	72.3	10.3	3.2	1.2	0.4	0.0	0.0
24°	3481.0	1427.8	74.3	9.5	2.8	0.8	0.4	0.0	0.0
25°	3662.6	1557.3	75.1	8.7	2.0	0.4	0.0	0.0	0.0
26°	3812.0	1643.9	75.5	7.9	1.2	0.0	0.0	0.0	0.0
27°	3940.0	1744.5	74.7	7.2	1.2	0.0	0.0	0.0	0.0
28°	4012.7	1761.2	73.5	6.4	0.4	0.0	0.0	0.0	0.0
29°	4044.1	1740.9	69.9	5.6	0.4	0.0	0.0	0.0	0.0
30°	4104.9	1721.8	66.4	5.2	0.0	0.0	0.0	0.0	0.0
31°	4048.9	1658.6	62.0	4.4	0.0	0.0	0.0	0.0	0.0
32°	3829.5	1605.4	56.8	3.6	0.0	0.0	0.0	0.0	0.0
33°	3763.9	1496.1	51.3	3.2	0.0	0.0	0.0	0.0	0.0
34°	3640.4	1333.6	46.5	2.8	0.0	0.0	0.0	0.0	0.0
35°	3398.4	1199.3	40.5	2.4	0.0	0.0	0.0	0.0	0.0
36°	3229.5	1045.9	35.4	2.0	0.0	0.0	0.0	0.0	0.0
37°	3052.6	912.0	31.4	1.6	0.0	0.0	0.0	0.0	0.0
38°	2832.9	771.3	26.6	1.2	0.0	0.0	0.0	0.0	0.0
39°	2577.0	637.4	22.7	1.2	0.0	0.0	0.0	0.0	0.0
40°	2346.9	513.8	19.5	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1448.4	293.3	11.5	0.8	0.0	0.0	0.0	0.0	0.0
45°	780.8	178.0	8.3	0.4	0.0	0.0	0.0	0.0	0.0
47.5°	359.6	83.1	6.0	0.4	0.0	0.0	0.0	0.0	0.0
50°	147.8	37.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	53.2	20.7	2.8	0.0	0.0	0.4	0.0	0.0	0.0
55°	30.2	11.9	1.6	0.4	0.4	0.4	0.4	0.0	0.0
57.5°	14.3	6.8	0.4	0.4	0.4	0.4	0.4	0.0	0.0
60°	8.3	3.6	0.4	0.4	0.4	0.8	0.4	0.0	0.0
62.5°	4.0	1.2	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.6	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.0
67.5°	0.4	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.4
70°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.4
72.5°	0.0	0.4	0.8	0.8	0.8	1.2	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



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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	0.4	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)