

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: P500016

Luminaire Tested: **LDA2B208027R20D010 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: P500016
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: LDA2B208027R20D010 2LBDL1MMS-30DEG TILT
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

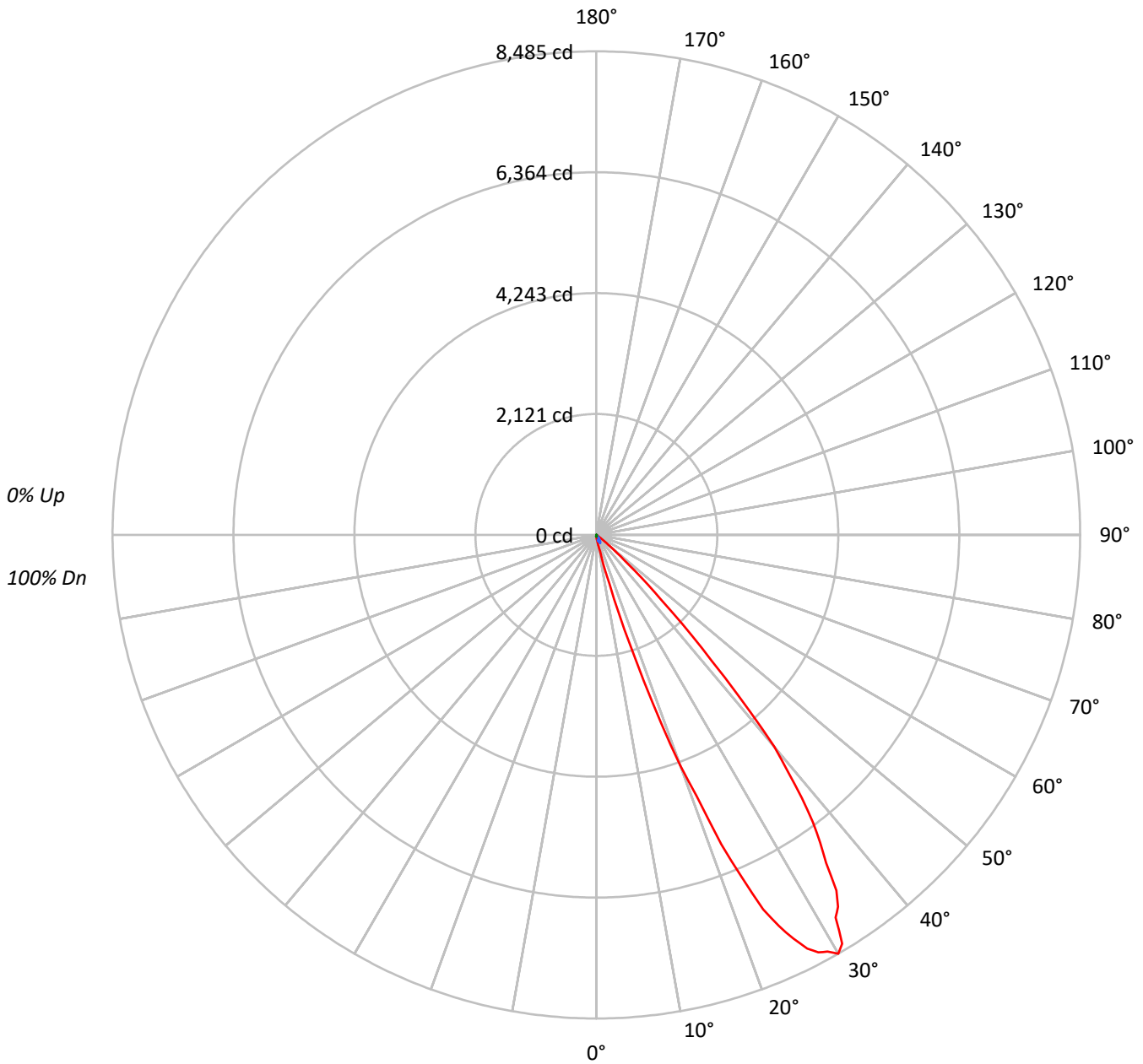
Lumens per Lamp: N/A
Luminaire Lumens: 1071.3 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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°	17021	17021	17021
5°	32538	15055	10994
10°	77751	13176	7414
15°	453100	10471	2911
20°	2260231	6458	840
25°	4121329	2232	0
30°	4833835	0	0
35°	4230861	0	0
40°	3124358	0	0
45°	1126188	0	0
50°	234559	0	0
55°	53673	688	0
60°	16972	789	0
65°	3852	1868	0
70°	0	2308	1154
75°	0	3050	0
80°	0	4546	0
85°	0	9057	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.4
10°-20°	58.9	5.5
20°-30°	396.7	37.0
30°-40°	463.5	43.3
40°-50°	135.2	12.6
50°-60°	9.0	0.8
60°-70°	1.7	0.2
70°-80°	1.3	0.1
80°-90°	1.1	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°	459.5	42.9
0°-40°	923.0	86.2
0°-60°	1067.2	99.6
0°-90°	1071.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	66	48	30	26	22	9
15°	887	100	20	11	6	463
25°	7571	155	4	0	0	3352
35°	7025	84	0	0	0	4316
45°	1614	17	0	0	0	1487
55°	62	3	1	1	0	79
65°	3	2	2	2	0	5
75°	0	2	2	2	0	0
85°	0	2	2	2	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°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2.5°	44.4	44.4	39.4	35.3	32.0	30.4	29.6	27.9	27.1
5°	65.7	57.5	47.6	37.0	30.4	27.9	25.5	23.0	22.2
7.5°	96.1	83.8	57.5	37.8	28.7	24.6	22.2	19.7	18.1
10°	155.2	120.7	70.6	37.8	26.3	21.4	18.1	15.6	14.8
12.5°	286.7	184.8	84.6	37.0	23.8	18.1	14.0	12.3	9.9
15°	887.1	382.8	100.2	35.3	20.5	14.0	10.7	6.6	5.7
17.5°	2294.2	893.7	111.7	31.2	16.4	9.9	4.9	4.1	4.1
20°	4305.0	1620.6	128.1	27.1	12.3	6.6	3.3	2.5	1.6
21°	4911.2	1982.9	136.4	25.5	10.7	4.1	2.5	0.8	0.8
22°	5853.4	2378.0	142.9	23.8	9.0	2.5	1.6	0.8	0.0
23°	6524.4	2630.1	149.5	21.4	6.6	2.5	0.8	0.0	0.0
24°	7195.5	2951.3	153.6	19.7	5.7	1.6	0.8	0.0	0.0
25°	7570.9	3219.1	155.2	18.1	4.1	0.8	0.0	0.0	0.0
26°	7879.8	3398.2	156.1	16.4	2.5	0.0	0.0	0.0	0.0
27°	8144.3	3606.0	154.4	14.8	2.5	0.0	0.0	0.0	0.0
28°	8294.6	3640.5	152.0	13.1	0.8	0.0	0.0	0.0	0.0
29°	8359.5	3598.6	144.6	11.5	0.8	0.0	0.0	0.0	0.0
30°	8485.1	3559.2	137.2	10.7	0.0	0.0	0.0	0.0	0.0
31°	8369.3	3428.6	128.1	9.0	0.0	0.0	0.0	0.0	0.0
32°	7915.9	3318.5	117.5	7.4	0.0	0.0	0.0	0.0	0.0
33°	7780.4	3092.6	106.0	6.6	0.0	0.0	0.0	0.0	0.0
34°	7524.9	2756.6	96.1	5.7	0.0	0.0	0.0	0.0	0.0
35°	7024.7	2479.0	83.8	4.9	0.0	0.0	0.0	0.0	0.0
36°	6675.6	2161.9	73.1	4.1	0.0	0.0	0.0	0.0	0.0
37°	6310.1	1885.1	64.9	3.3	0.0	0.0	0.0	0.0	0.0
38°	5855.8	1594.4	55.0	2.5	0.0	0.0	0.0	0.0	0.0
39°	5326.8	1317.5	46.8	2.5	0.0	0.0	0.0	0.0	0.0
40°	4851.2	1062.1	40.2	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	2994.0	606.2	23.8	1.6	0.0	0.0	0.0	0.0	0.0
45°	1614.1	368.0	17.2	0.8	0.0	0.0	0.0	0.0	0.0
47.5°	743.4	171.7	12.3	0.8	0.0	0.0	0.0	0.0	0.0
50°	305.6	76.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	110.1	42.7	5.7	0.0	0.0	0.8	0.0	0.0	0.0
55°	62.4	24.6	3.3	0.8	0.8	0.8	0.8	0.0	0.0
57.5°	29.6	14.0	0.8	0.8	0.8	0.8	0.8	0.0	0.0
60°	17.2	7.4	0.8	0.8	0.8	1.6	0.8	0.0	0.0
62.5°	8.2	2.5	0.8	1.6	1.6	1.6	1.6	0.8	0.0
65°	3.3	0.8	1.6	1.6	1.6	2.5	1.6	0.8	0.0
67.5°	0.8	0.8	1.6	1.6	1.6	2.5	1.6	0.8	0.8
70°	0.0	0.8	1.6	1.6	1.6	2.5	1.6	0.8	0.8
72.5°	0.0	0.8	1.6	1.6	1.6	2.5	1.6	0.8	0.8
75°	0.0	0.8	1.6	1.6	1.6	1.6	1.6	0.8	0.0
77.5°	0.0	0.8	1.6	1.6	1.6	1.6	1.6	0.8	0.0
80°	0.0	0.8	1.6	1.6	1.6	1.6	1.6	0.8	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	0.8	1.6	1.6	1.6	1.6	1.6	0.8	0.0
85°	0.0	0.8	1.6	1.6	1.6	1.6	1.6	0.8	0.0
87.5°	0.0	0.8	1.6	1.6	1.6	1.6	0.8	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)