

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: P498720

Luminaire Tested: **LDA2B159030R20D010 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: P498720
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: LDA2B159030R20D010 2LBDL1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

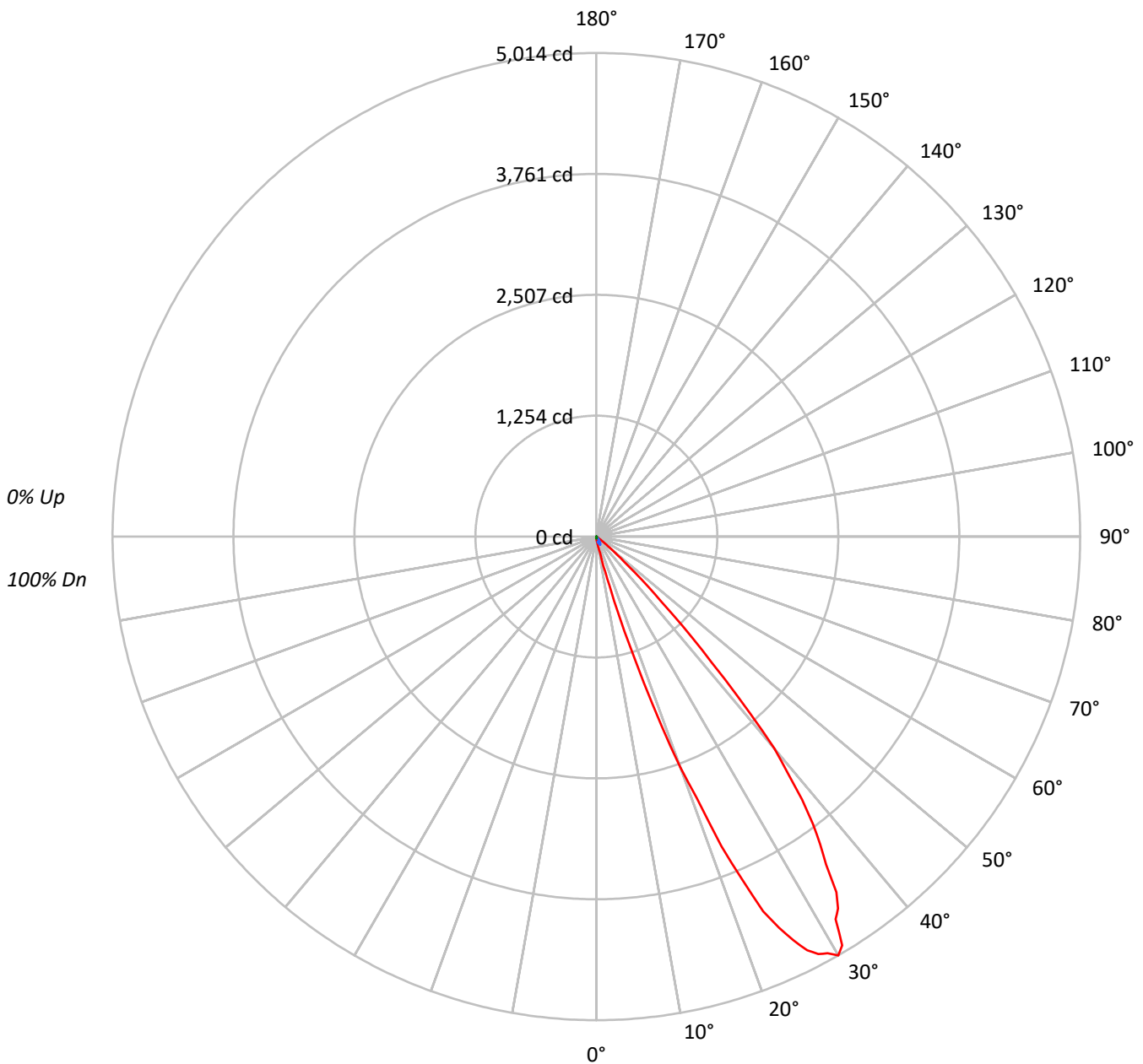
Lumens per Lamp: N/A
Luminaire Lumens: 633.2 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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°	10065	10065	10065
5°	19216	8914	6488
10°	45939	7765	4358
15°	267794	6180	1737
20°	1335715	3833	525
25°	2435596	1306	0
30°	2856629	0	0
35°	2500260	0	0
40°	1846393	0	0
45°	665554	0	0
50°	138617	0	0
55°	31740	430	0
60°	10065	493	0
65°	2218	1167	0
70°	0	1442	721
75°	0	1906	0
80°	0	2841	0
85°	0	5661	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	34.8	5.5
20°-30°	234.5	37.0
30°-40°	273.9	43.3
40°-50°	79.9	12.6
50°-60°	5.3	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°	271.6	42.9
0°-40°	545.5	86.1
0°-60°	630.7	99.6
0°-90°	633.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	39	28	18	15	13	5
15°	524	59	12	6	3	274
25°	4474	92	2	0	0	1981
35°	4151	50	0	0	0	2550
45°	954	10	0	0	0	879
55°	37	2	0	0	0	47
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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	26.2	26.2	23.3	20.9	18.9	18.0	17.5	16.5	16.0
5°	38.8	34.0	28.2	21.8	18.0	16.5	15.0	13.6	13.1
7.5°	56.8	49.5	34.0	22.3	17.0	14.6	13.1	11.7	10.7
10°	91.7	71.4	41.7	22.3	15.5	12.6	10.7	9.2	8.7
12.5°	169.4	109.2	50.0	21.8	14.1	10.7	8.3	7.3	5.8
15°	524.3	226.2	59.2	20.9	12.1	8.3	6.3	3.9	3.4
17.5°	1355.8	528.1	66.0	18.4	9.7	5.8	2.9	2.4	2.4
20°	2544.1	957.7	75.7	16.0	7.3	3.9	1.9	1.5	1.0
21°	2902.3	1171.8	80.6	15.0	6.3	2.4	1.5	0.5	0.5
22°	3459.1	1405.3	84.5	14.1	5.3	1.5	1.0	0.5	0.0
23°	3855.7	1554.3	88.3	12.6	3.9	1.5	0.5	0.0	0.0
24°	4252.3	1744.1	90.8	11.7	3.4	1.0	0.5	0.0	0.0
25°	4474.2	1902.4	91.7	10.7	2.4	0.5	0.0	0.0	0.0
26°	4656.7	2008.2	92.2	9.7	1.5	0.0	0.0	0.0	0.0
27°	4813.0	2131.0	91.3	8.7	1.5	0.0	0.0	0.0	0.0
28°	4901.8	2151.4	89.8	7.8	0.5	0.0	0.0	0.0	0.0
29°	4940.2	2126.6	85.4	6.8	0.5	0.0	0.0	0.0	0.0
30°	5014.4	2103.3	81.1	6.3	0.0	0.0	0.0	0.0	0.0
31°	4946.0	2026.2	75.7	5.3	0.0	0.0	0.0	0.0	0.0
32°	4678.0	1961.1	69.4	4.4	0.0	0.0	0.0	0.0	0.0
33°	4597.9	1827.6	62.6	3.9	0.0	0.0	0.0	0.0	0.0
34°	4447.0	1629.1	56.8	3.4	0.0	0.0	0.0	0.0	0.0
35°	4151.3	1465.0	49.5	2.9	0.0	0.0	0.0	0.0	0.0
36°	3945.0	1277.6	43.2	2.4	0.0	0.0	0.0	0.0	0.0
37°	3729.0	1114.0	38.3	1.9	0.0	0.0	0.0	0.0	0.0
38°	3460.6	942.2	32.5	1.5	0.0	0.0	0.0	0.0	0.0
39°	3148.0	778.6	27.7	1.5	0.0	0.0	0.0	0.0	0.0
40°	2866.9	627.7	23.8	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	1769.4	358.2	14.1	1.0	0.0	0.0	0.0	0.0	0.0
45°	953.9	217.5	10.2	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	439.3	101.5	7.3	0.5	0.0	0.0	0.0	0.0	0.0
50°	180.6	45.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	65.0	25.2	3.4	0.0	0.0	0.5	0.0	0.0	0.0
55°	36.9	14.6	1.9	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	17.5	8.3	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	10.2	4.4	0.5	0.5	0.5	1.0	0.5	0.0	0.0
62.5°	4.9	1.5	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	1.5	1.0	0.5	0.0
67.5°	0.5	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
70°	0.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
72.5°	0.0	0.5	1.0	1.0	1.0	1.5	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)