

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: P498051

Luminaire Tested: **LDA2B158050R20D010 2LBD1MMS-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: P498051
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: LDA2B158050R20D010 2LBD1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

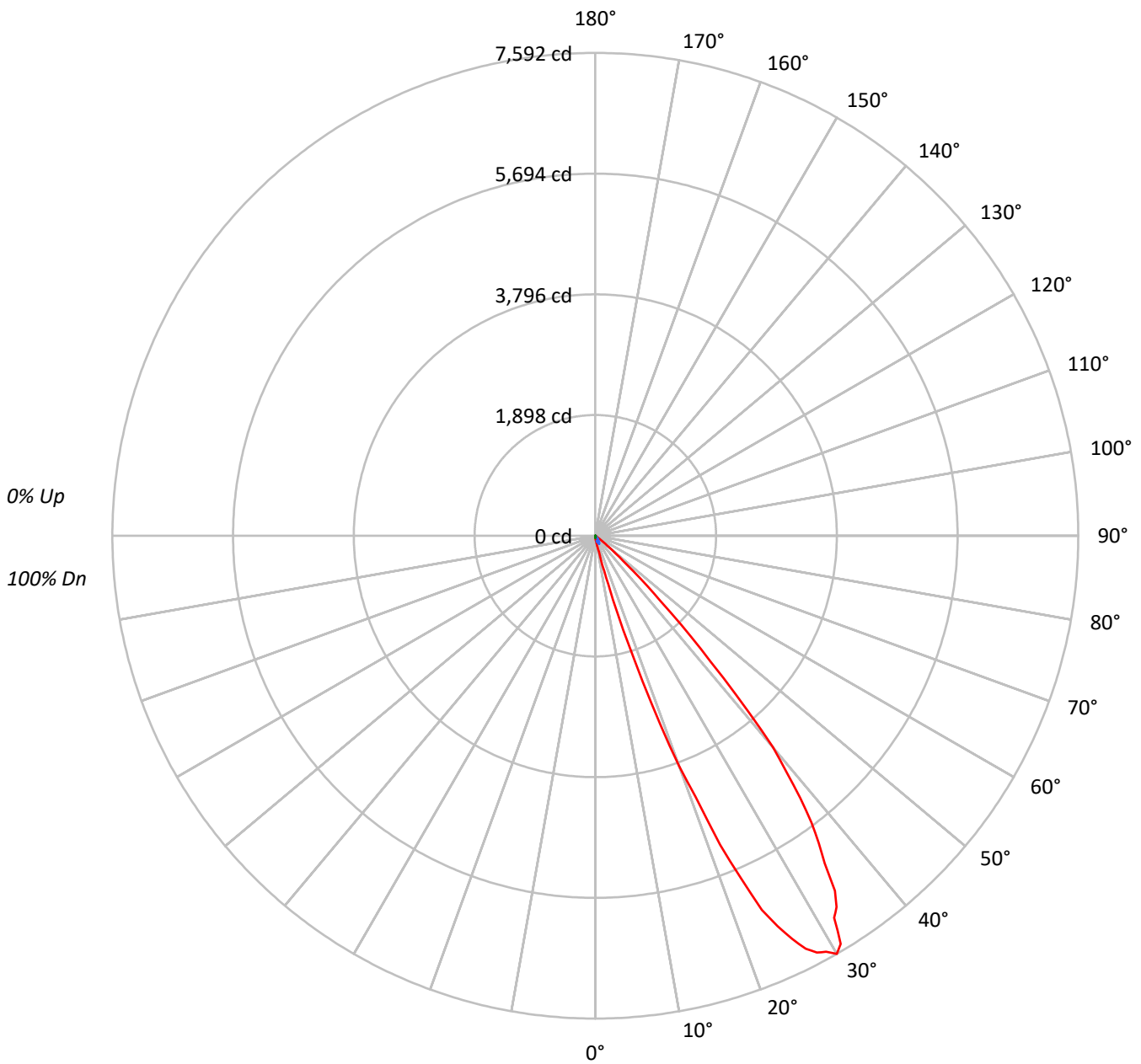
Lumens per Lamp: N/A
Luminaire Lumens: 958.7 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	15245	15245	15245
5°	29120	13471	9806
10°	69585	11773	6613
15°	405446	9398	2605
20°	2022395	5775	788
25°	3687688	2014	0
30°	4325220	0	0
35°	3785653	0	0
40°	2795640	0	0
45°	1007646	0	0
50°	209844	0	0
55°	48082	602	0
60°	15196	691	0
65°	3385	1751	0
70°	0	2164	1010
75°	0	2859	0
80°	0	4262	0
85°	0	8491	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	52.7	5.5
20°-30°	355.0	37.0
30°-40°	414.8	43.3
40°-50°	120.9	12.6
50°-60°	8.1	0.8
60°-70°	1.5	0.2
70°-80°	1.2	0.1
80°-90°	1.0	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°	411.2	42.9
0°-40°	825.9	86.2
0°-60°	954.9	99.6
0°-90°	958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	59	43	27	23	20	8
15°	794	90	18	10	5	414
25°	6774	139	4	0	0	2999
35°	6286	75	0	0	0	3861
45°	1444	15	0	0	0	1331
55°	56	3	1	1	0	71
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°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	39.7	39.7	35.3	31.6	28.7	27.2	26.5	25.0	24.3
5°	58.8	51.4	42.6	33.1	27.2	25.0	22.8	20.6	19.8
7.5°	86.0	75.0	51.4	33.8	25.7	22.0	19.8	17.6	16.2
10°	138.9	108.0	63.2	33.8	23.5	19.1	16.2	14.0	13.2
12.5°	256.5	165.4	75.7	33.1	21.3	16.2	12.5	11.0	8.8
15°	793.8	342.5	89.7	31.6	18.4	12.5	9.6	5.9	5.1
17.5°	2052.8	799.7	100.0	27.9	14.7	8.8	4.4	3.7	3.7
20°	3852.0	1450.1	114.7	24.3	11.0	5.9	2.9	2.2	1.5
21°	4394.4	1774.2	122.0	22.8	9.6	3.7	2.2	0.7	0.7
22°	5237.4	2127.8	127.9	21.3	8.1	2.2	1.5	0.7	0.0
23°	5837.9	2353.4	133.8	19.1	5.9	2.2	0.7	0.0	0.0
24°	6438.4	2640.8	137.4	17.6	5.1	1.5	0.7	0.0	0.0
25°	6774.3	2880.4	138.9	16.2	3.7	0.7	0.0	0.0	0.0
26°	7050.6	3040.6	139.6	14.7	2.2	0.0	0.0	0.0	0.0
27°	7287.3	3226.6	138.2	13.2	2.2	0.0	0.0	0.0	0.0
28°	7421.8	3257.4	136.0	11.8	0.7	0.0	0.0	0.0	0.0
29°	7479.9	3219.9	129.4	10.3	0.7	0.0	0.0	0.0	0.0
30°	7592.3	3184.7	122.7	9.6	0.0	0.0	0.0	0.0	0.0
31°	7488.7	3067.8	114.7	8.1	0.0	0.0	0.0	0.0	0.0
32°	7083.0	2969.3	105.1	6.6	0.0	0.0	0.0	0.0	0.0
33°	6961.7	2767.2	94.8	5.9	0.0	0.0	0.0	0.0	0.0
34°	6733.1	2466.6	86.0	5.1	0.0	0.0	0.0	0.0	0.0
35°	6285.5	2218.2	75.0	4.4	0.0	0.0	0.0	0.0	0.0
36°	5973.2	1934.5	65.4	3.7	0.0	0.0	0.0	0.0	0.0
37°	5646.1	1686.8	58.1	2.9	0.0	0.0	0.0	0.0	0.0
38°	5239.7	1426.6	49.2	2.2	0.0	0.0	0.0	0.0	0.0
39°	4766.3	1178.9	41.9	2.2	0.0	0.0	0.0	0.0	0.0
40°	4340.8	950.3	36.0	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	2679.0	542.4	21.3	1.5	0.0	0.0	0.0	0.0	0.0
45°	1444.2	329.3	15.4	0.7	0.0	0.0	0.0	0.0	0.0
47.5°	665.2	153.6	11.0	0.7	0.0	0.0	0.0	0.0	0.0
50°	273.4	68.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	98.5	38.2	5.1	0.0	0.0	0.7	0.0	0.0	0.0
55°	55.9	22.0	2.9	0.7	0.7	0.7	0.7	0.0	0.0
57.5°	26.5	12.5	0.7	0.7	0.7	0.7	0.7	0.0	0.0
60°	15.4	6.6	0.7	0.7	0.7	1.5	0.7	0.0	0.0
62.5°	7.3	2.2	0.7	1.5	1.5	1.5	1.5	0.7	0.0
65°	2.9	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.0
67.5°	0.7	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.7
70°	0.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.7
72.5°	0.0	0.7	1.5	1.5	1.5	2.2	1.5	0.7	0.7
75°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
77.5°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
80°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	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	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
85°	0.0	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.0
87.5°	0.0	0.7	1.5	1.5	1.5	1.5	0.7	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)