

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: P498072

Luminaire Tested: **LDA2B158050R20D010 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: P498072  
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 2LBDL1MMS-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**

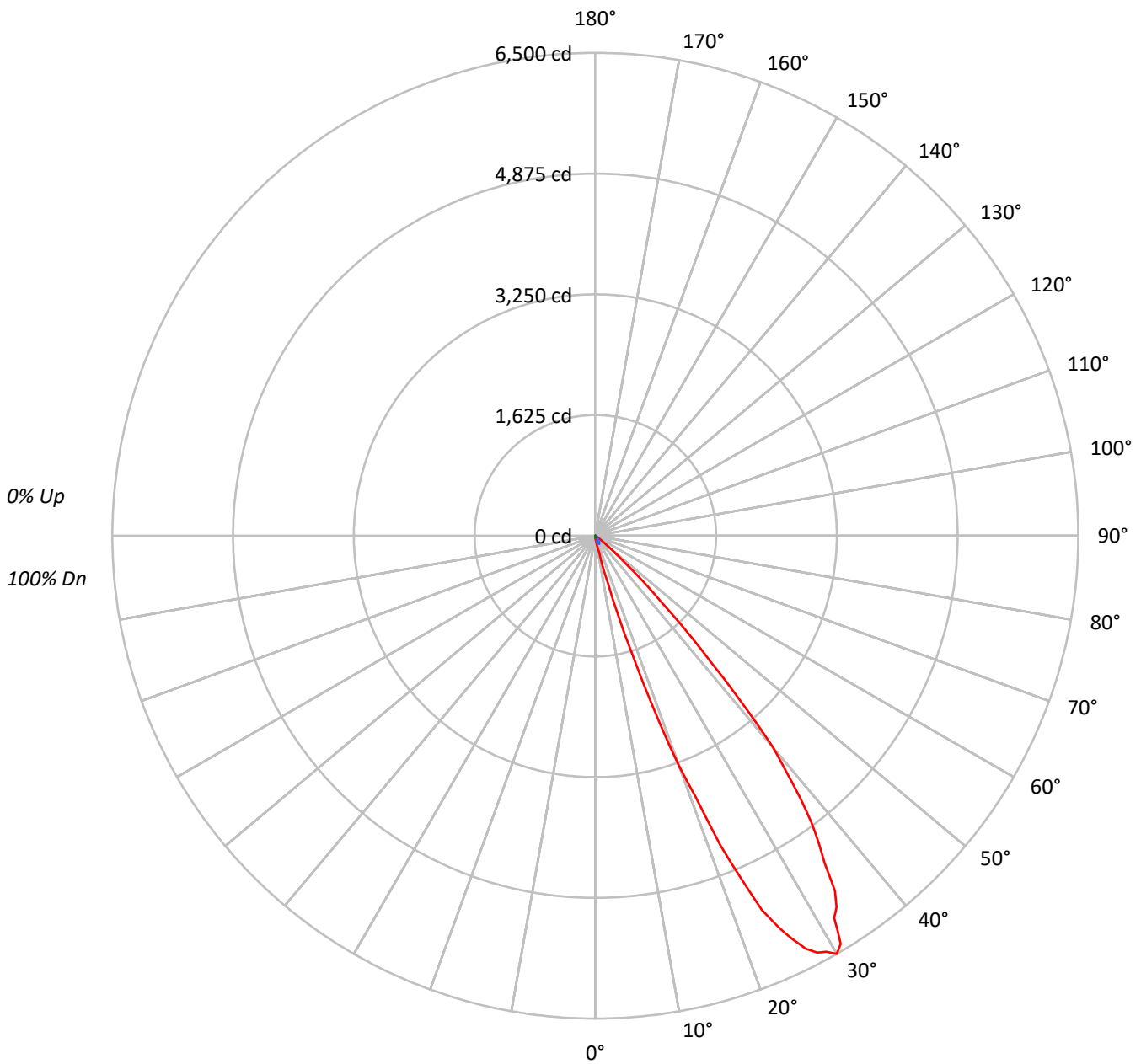
Lumens per Lamp: N/A  
Luminaire Lumens: 820.8 lumens  
Efficiency: N/A  
Efficacy: 58.2 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	13025	13025	13025
5°	24911	11539	8419
10°	59566	10070	5661
15°	347116	8019	2247
20°	1731479	4935	683
25°	3157151	1688	0
30°	3703010	0	0
35°	3241068	0	0
40°	2393439	0	0
45°	862729	0	0
50°	179680	0	0
55°	41115	516	0
60°	13025	592	0
65°	2918	1518	0
70°	0	1875	865
75°	0	2478	0
80°	0	3694	0
85°	0	7359	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.0	0.4
10°-20°	45.1	5.5
20°-30°	303.9	37.0
30°-40°	355.1	43.3
40°-50°	103.5	12.6
50°-60°	6.9	0.8
60°-70°	1.3	0.2
70°-80°	1.1	0.1
80°-90°	0.9	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°	352.0	42.9
0°-40°	707.1	86.1
0°-60°	817.5	99.6
0°-90°	820.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	50	36	23	20	17	7
15°	680	77	16	8	4	355
25°	5800	119	3	0	0	2568
35°	5381	64	0	0	0	3306
45°	1236	13	0	0	0	1139
55°	48	2	1	1	0	61
65°	2	1	1	1	0	4
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°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	34.0	34.0	30.2	27.1	24.5	23.3	22.7	21.4	20.8
5°	50.3	44.0	36.5	28.3	23.3	21.4	19.5	17.6	17.0
7.5°	73.6	64.2	44.0	28.9	22.0	18.9	17.0	15.1	13.8
10°	118.9	92.5	54.1	28.9	20.1	16.4	13.8	12.0	11.3
12.5°	219.6	141.6	64.8	28.3	18.2	13.8	10.7	9.4	7.6
15°	679.6	293.2	76.8	27.1	15.7	10.7	8.2	5.0	4.4
17.5°	1757.5	684.6	85.6	23.9	12.6	7.6	3.8	3.1	3.1
20°	3297.9	1241.5	98.2	20.8	9.4	5.0	2.5	1.9	1.3
21°	3762.3	1519.0	104.5	19.5	8.2	3.1	1.9	0.6	0.6
22°	4484.0	1821.7	109.5	18.2	6.9	1.9	1.3	0.6	0.0
23°	4998.1	2014.8	114.5	16.4	5.0	1.9	0.6	0.0	0.0
24°	5512.2	2260.9	117.7	15.1	4.4	1.3	0.6	0.0	0.0
25°	5799.7	2466.0	118.9	13.8	3.1	0.6	0.0	0.0	0.0
26°	6036.3	2603.2	119.6	12.6	1.9	0.0	0.0	0.0	0.0
27°	6239.0	2762.4	118.3	11.3	1.9	0.0	0.0	0.0	0.0
28°	6354.1	2788.8	116.4	10.1	0.6	0.0	0.0	0.0	0.0
29°	6403.8	2756.7	110.7	8.8	0.6	0.0	0.0	0.0	0.0
30°	6500.1	2726.5	105.1	8.2	0.0	0.0	0.0	0.0	0.0
31°	6411.4	2626.5	98.2	6.9	0.0	0.0	0.0	0.0	0.0
32°	6064.0	2542.1	90.0	5.7	0.0	0.0	0.0	0.0	0.0
33°	5960.2	2369.1	81.2	5.0	0.0	0.0	0.0	0.0	0.0
34°	5764.5	2111.7	73.6	4.4	0.0	0.0	0.0	0.0	0.0
35°	5381.3	1899.1	64.2	3.8	0.0	0.0	0.0	0.0	0.0
36°	5113.9	1656.2	56.0	3.1	0.0	0.0	0.0	0.0	0.0
37°	4833.9	1444.1	49.7	2.5	0.0	0.0	0.0	0.0	0.0
38°	4485.9	1221.4	42.2	1.9	0.0	0.0	0.0	0.0	0.0
39°	4080.7	1009.3	35.9	1.9	0.0	0.0	0.0	0.0	0.0
40°	3716.3	813.6	30.8	1.3	0.0	0.0	0.0	0.0	0.0
42.5°	2293.6	464.4	18.2	1.3	0.0	0.0	0.0	0.0	0.0
45°	1236.5	281.9	13.2	0.6	0.0	0.0	0.0	0.0	0.0
47.5°	569.5	131.5	9.4	0.6	0.0	0.0	0.0	0.0	0.0
50°	234.1	58.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	84.3	32.7	4.4	0.0	0.0	0.6	0.0	0.0	0.0
55°	47.8	18.9	2.5	0.6	0.6	0.6	0.6	0.0	0.0
57.5°	22.7	10.7	0.6	0.6	0.6	0.6	0.6	0.0	0.0
60°	13.2	5.7	0.6	0.6	0.6	1.3	0.6	0.0	0.0
62.5°	6.3	1.9	0.6	1.3	1.3	1.3	1.3	0.6	0.0
65°	2.5	0.6	1.3	1.3	1.3	1.9	1.3	0.6	0.0
67.5°	0.6	0.6	1.3	1.3	1.3	1.9	1.3	0.6	0.6
70°	0.0	0.6	1.3	1.3	1.3	1.9	1.3	0.6	0.6
72.5°	0.0	0.6	1.3	1.3	1.3	1.9	1.3	0.6	0.6
75°	0.0	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.0
77.5°	0.0	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.0
80°	0.0	0.6	1.3	1.3	1.3	1.3	1.3	0.6	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	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.0
85°	0.0	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.0
87.5°	0.0	0.6	1.3	1.3	1.3	1.3	0.6	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)