

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: P497424

Luminaire Tested: **LDA2B158030R20D010 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: P497424  
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: LDA2B158030R20D010 2LBDL1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

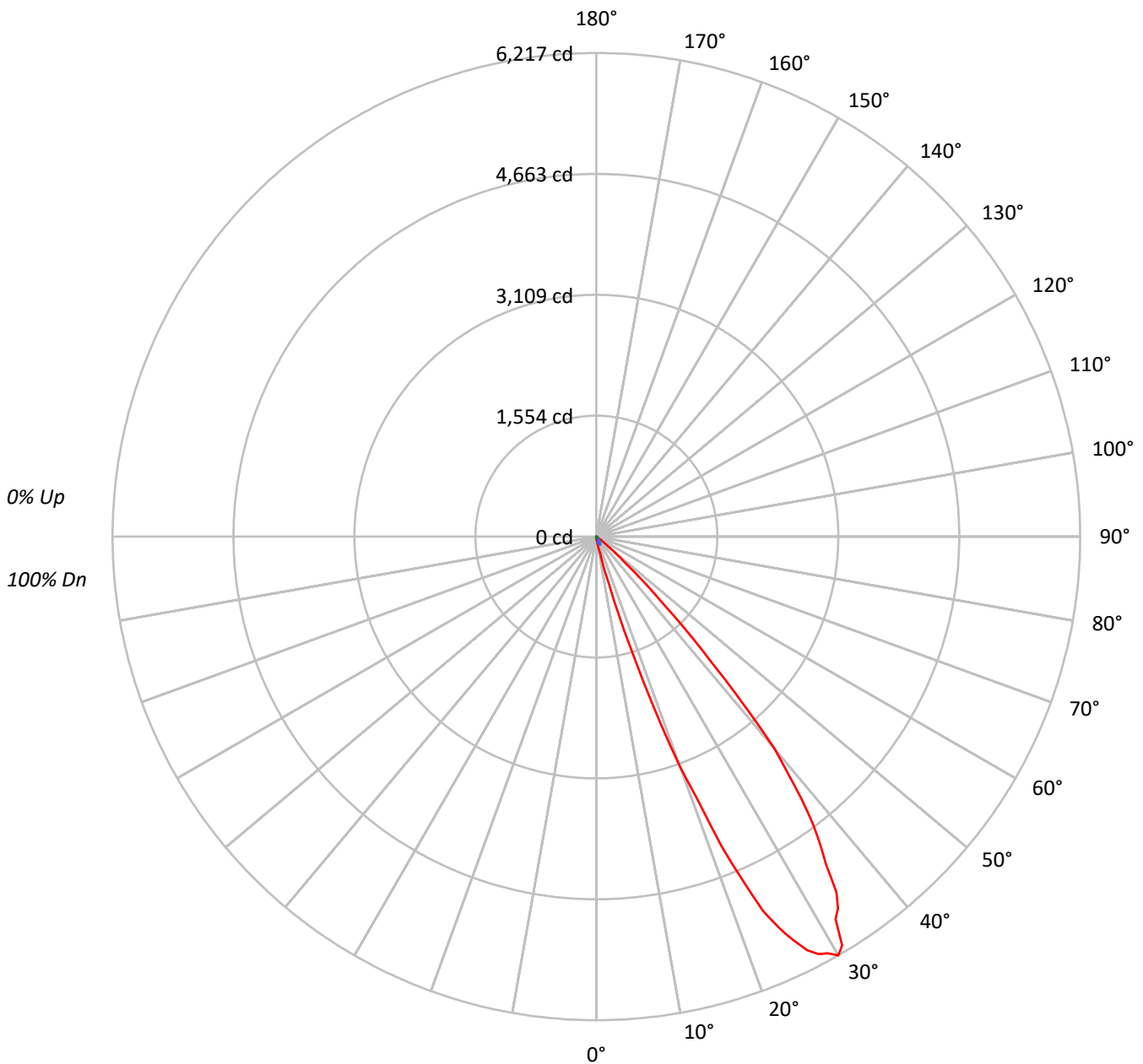
Lumens per Lamp: N/A  
Luminaire Lumens: 784.9 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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% Up  
100% Dn

— 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°	12482	12482	12482
5°	23821	11044	8023
10°	56961	9669	5411
15°	331998	7661	2145
20°	1655980	4725	630
25°	3019535	1633	0
30°	3541562	0	0
35°	3099773	0	0
40°	2289105	0	0
45°	825122	0	0
50°	171851	0	0
55°	39309	516	0
60°	12433	592	0
65°	2802	1401	0
70°	0	1731	865
75°	0	2287	0
80°	0	3409	0
85°	0	6793	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.9	0.4
10°-20°	43.1	5.5
20°-30°	290.7	37.0
30°-40°	339.6	43.3
40°-50°	99.0	12.6
50°-60°	6.6	0.8
60°-70°	1.2	0.2
70°-80°	1.0	0.1
80°-90°	0.8	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°	336.7	42.9
0°-40°	676.3	86.2
0°-60°	781.9	99.6
0°-90°	784.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	48	35	22	19	16	7
15°	650	73	15	8	4	339
25°	5547	114	3	0	0	2456
35°	5147	61	0	0	0	3162
45°	1183	13	0	0	0	1090
55°	46	2	1	1	0	58
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°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2.5°	32.5	32.5	28.9	25.9	23.5	22.3	21.7	20.5	19.9
5°	48.1	42.1	34.9	27.1	22.3	20.5	18.7	16.9	16.2
7.5°	70.4	61.4	42.1	27.7	21.1	18.1	16.2	14.4	13.2
10°	113.7	88.5	51.8	27.7	19.3	15.6	13.2	11.4	10.8
12.5°	210.0	135.4	62.0	27.1	17.5	13.2	10.2	9.0	7.2
15°	650.0	280.4	73.4	25.9	15.0	10.2	7.8	4.8	4.2
17.5°	1680.9	654.8	81.8	22.9	12.0	7.2	3.6	3.0	3.0
20°	3154.1	1187.4	93.9	19.9	9.0	4.8	2.4	1.8	1.2
21°	3598.2	1452.8	99.9	18.7	7.8	3.0	1.8	0.6	0.6
22°	4288.5	1742.2	104.7	17.5	6.6	1.8	1.2	0.6	0.0
23°	4780.2	1927.0	109.5	15.6	4.8	1.8	0.6	0.0	0.0
24°	5271.8	2162.3	112.5	14.4	4.2	1.2	0.6	0.0	0.0
25°	5546.9	2358.5	113.7	13.2	3.0	0.6	0.0	0.0	0.0
26°	5773.2	2489.7	114.3	12.0	1.8	0.0	0.0	0.0	0.0
27°	5966.9	2641.9	113.1	10.8	1.8	0.0	0.0	0.0	0.0
28°	6077.1	2667.2	111.3	9.6	0.6	0.0	0.0	0.0	0.0
29°	6124.6	2636.5	105.9	8.4	0.6	0.0	0.0	0.0	0.0
30°	6216.7	2607.6	100.5	7.8	0.0	0.0	0.0	0.0	0.0
31°	6131.8	2511.9	93.9	6.6	0.0	0.0	0.0	0.0	0.0
32°	5799.6	2431.3	86.1	5.4	0.0	0.0	0.0	0.0	0.0
33°	5700.3	2265.8	77.6	4.8	0.0	0.0	0.0	0.0	0.0
34°	5513.2	2019.7	70.4	4.2	0.0	0.0	0.0	0.0	0.0
35°	5146.7	1816.3	61.4	3.6	0.0	0.0	0.0	0.0	0.0
36°	4890.9	1584.0	53.6	3.0	0.0	0.0	0.0	0.0	0.0
37°	4623.1	1381.2	47.5	2.4	0.0	0.0	0.0	0.0	0.0
38°	4290.3	1168.1	40.3	1.8	0.0	0.0	0.0	0.0	0.0
39°	3902.7	965.3	34.3	1.8	0.0	0.0	0.0	0.0	0.0
40°	3554.3	778.1	29.5	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	2193.6	444.1	17.5	1.2	0.0	0.0	0.0	0.0	0.0
45°	1182.6	269.6	12.6	0.6	0.0	0.0	0.0	0.0	0.0
47.5°	544.6	125.8	9.0	0.6	0.0	0.0	0.0	0.0	0.0
50°	223.9	56.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	80.6	31.3	4.2	0.0	0.0	0.6	0.0	0.0	0.0
55°	45.7	18.1	2.4	0.6	0.6	0.6	0.6	0.0	0.0
57.5°	21.7	10.2	0.6	0.6	0.6	0.6	0.6	0.0	0.0
60°	12.6	5.4	0.6	0.6	0.6	1.2	0.6	0.0	0.0
62.5°	6.0	1.8	0.6	1.2	1.2	1.2	1.2	0.6	0.0
65°	2.4	0.6	1.2	1.2	1.2	1.8	1.2	0.6	0.0
67.5°	0.6	0.6	1.2	1.2	1.2	1.8	1.2	0.6	0.6
70°	0.0	0.6	1.2	1.2	1.2	1.8	1.2	0.6	0.6
72.5°	0.0	0.6	1.2	1.2	1.2	1.8	1.2	0.6	0.6
75°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
77.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
80°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	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	1.2	1.2	1.2	1.2	1.2	0.6	0.0
85°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
87.5°	0.0	0.6	1.2	1.2	1.2	1.2	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)