

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: P495264

Luminaire Tested: **LDA2B108050R20D010 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: P495264  
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: LDA2B108050R20D010 2LBDL1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

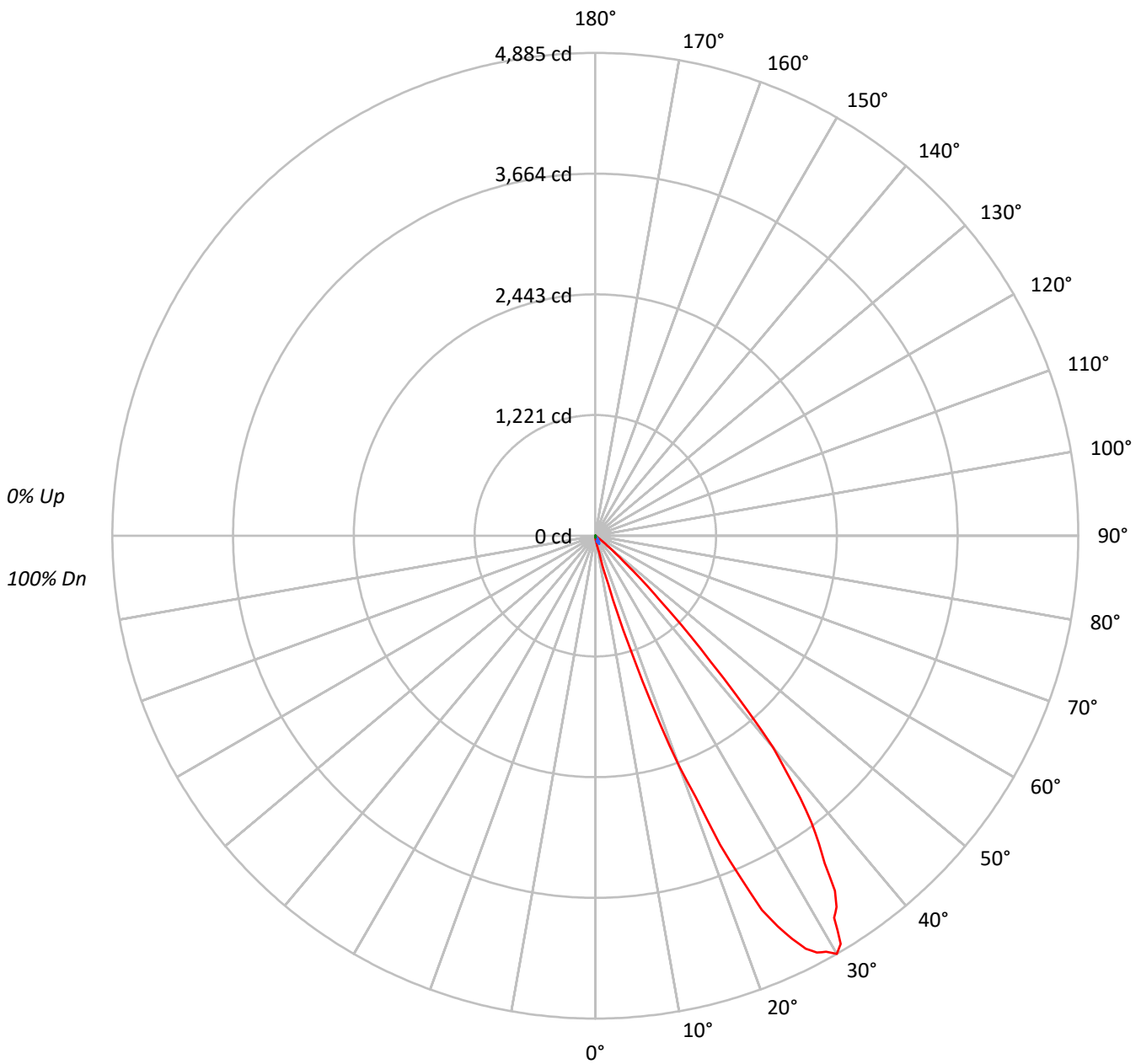
Lumens per Lamp: N/A  
Luminaire Lumens: 616.8 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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°-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°	9818	9818	9818
5°	18720	8667	6339
10°	44787	7565	4258
15°	260848	6027	1686
20°	1301274	3728	473
25°	2372776	1306	0
30°	2782969	0	0
35°	2435815	0	0
40°	1798798	0	0
45°	648390	0	0
50°	135009	0	0
55°	30879	430	0
60°	9769	493	0
65°	2218	1051	0
70°	0	1298	721
75°	0	1716	0
80°	0	2557	0
85°	0	5095	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	33.9	5.5
20°-30°	228.4	37.0
30°-40°	266.9	43.3
40°-50°	77.8	12.6
50°-60°	5.2	0.8
60°-70°	1.0	0.2
70°-80°	0.8	0.1
80°-90°	0.6	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°	264.6	42.9
0°-40°	531.4	86.2
0°-60°	614.4	99.6
0°-90°	616.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	38	27	18	15	13	5
15°	511	58	12	6	3	266
25°	4359	89	2	0	0	1930
35°	4044	48	0	0	0	2485
45°	929	10	0	0	0	856
55°	36	2	0	0	0	46
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°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
2.5°	25.5	25.5	22.7	20.3	18.4	17.5	17.0	16.1	15.6
5°	37.8	33.1	27.4	21.3	17.5	16.1	14.7	13.2	12.8
7.5°	55.3	48.2	33.1	21.8	16.6	14.2	12.8	11.3	10.4
10°	89.4	69.5	40.7	21.8	15.1	12.3	10.4	9.0	8.5
12.5°	165.0	106.4	48.7	21.3	13.7	10.4	8.0	7.1	5.7
15°	510.7	220.4	57.7	20.3	11.8	8.0	6.1	3.8	3.3
17.5°	1320.8	514.5	64.3	18.0	9.5	5.7	2.8	2.4	2.4
20°	2478.5	933.0	73.8	15.6	7.1	3.8	1.9	1.4	0.9
21°	2827.5	1141.6	78.5	14.7	6.1	2.4	1.4	0.5	0.5
22°	3369.9	1369.1	82.3	13.7	5.2	1.4	0.9	0.5	0.0
23°	3756.3	1514.2	86.1	12.3	3.8	1.4	0.5	0.0	0.0
24°	4142.7	1699.1	88.4	11.3	3.3	0.9	0.5	0.0	0.0
25°	4358.8	1853.3	89.4	10.4	2.4	0.5	0.0	0.0	0.0
26°	4536.6	1956.4	89.9	9.5	1.4	0.0	0.0	0.0	0.0
27°	4688.9	2076.1	88.9	8.5	1.4	0.0	0.0	0.0	0.0
28°	4775.4	2095.9	87.5	7.6	0.5	0.0	0.0	0.0	0.0
29°	4812.8	2071.8	83.2	6.6	0.5	0.0	0.0	0.0	0.0
30°	4885.1	2049.1	79.0	6.1	0.0	0.0	0.0	0.0	0.0
31°	4818.4	1973.9	73.8	5.2	0.0	0.0	0.0	0.0	0.0
32°	4557.4	1910.5	67.6	4.3	0.0	0.0	0.0	0.0	0.0
33°	4479.4	1780.5	61.0	3.8	0.0	0.0	0.0	0.0	0.0
34°	4332.3	1587.1	55.3	3.3	0.0	0.0	0.0	0.0	0.0
35°	4044.3	1427.2	48.2	2.8	0.0	0.0	0.0	0.0	0.0
36°	3843.3	1244.7	42.1	2.4	0.0	0.0	0.0	0.0	0.0
37°	3632.9	1085.3	37.4	1.9	0.0	0.0	0.0	0.0	0.0
38°	3371.3	917.9	31.7	1.4	0.0	0.0	0.0	0.0	0.0
39°	3066.8	758.5	27.0	1.4	0.0	0.0	0.0	0.0	0.0
40°	2793.0	611.5	23.2	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	1723.7	349.0	13.7	0.9	0.0	0.0	0.0	0.0	0.0
45°	929.3	211.9	9.9	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	428.0	98.8	7.1	0.5	0.0	0.0	0.0	0.0	0.0
50°	175.9	44.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	63.4	24.6	3.3	0.0	0.0	0.5	0.0	0.0	0.0
55°	35.9	14.2	1.9	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	17.0	8.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	9.9	4.3	0.5	0.5	0.5	0.9	0.5	0.0	0.0
62.5°	4.7	1.4	0.5	0.9	0.9	0.9	0.9	0.5	0.0
65°	1.9	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.0
67.5°	0.5	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
70°	0.0	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
72.5°	0.0	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
75°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
77.5°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
80°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	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	0.9	0.9	0.9	0.9	0.9	0.5	0.0
85°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
87.5°	0.0	0.5	0.9	0.9	0.9	0.9	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)