

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: P495069

Luminaire Tested: **LDA2B108040R30D010 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: P495069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B108040R30D010 2LBD1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

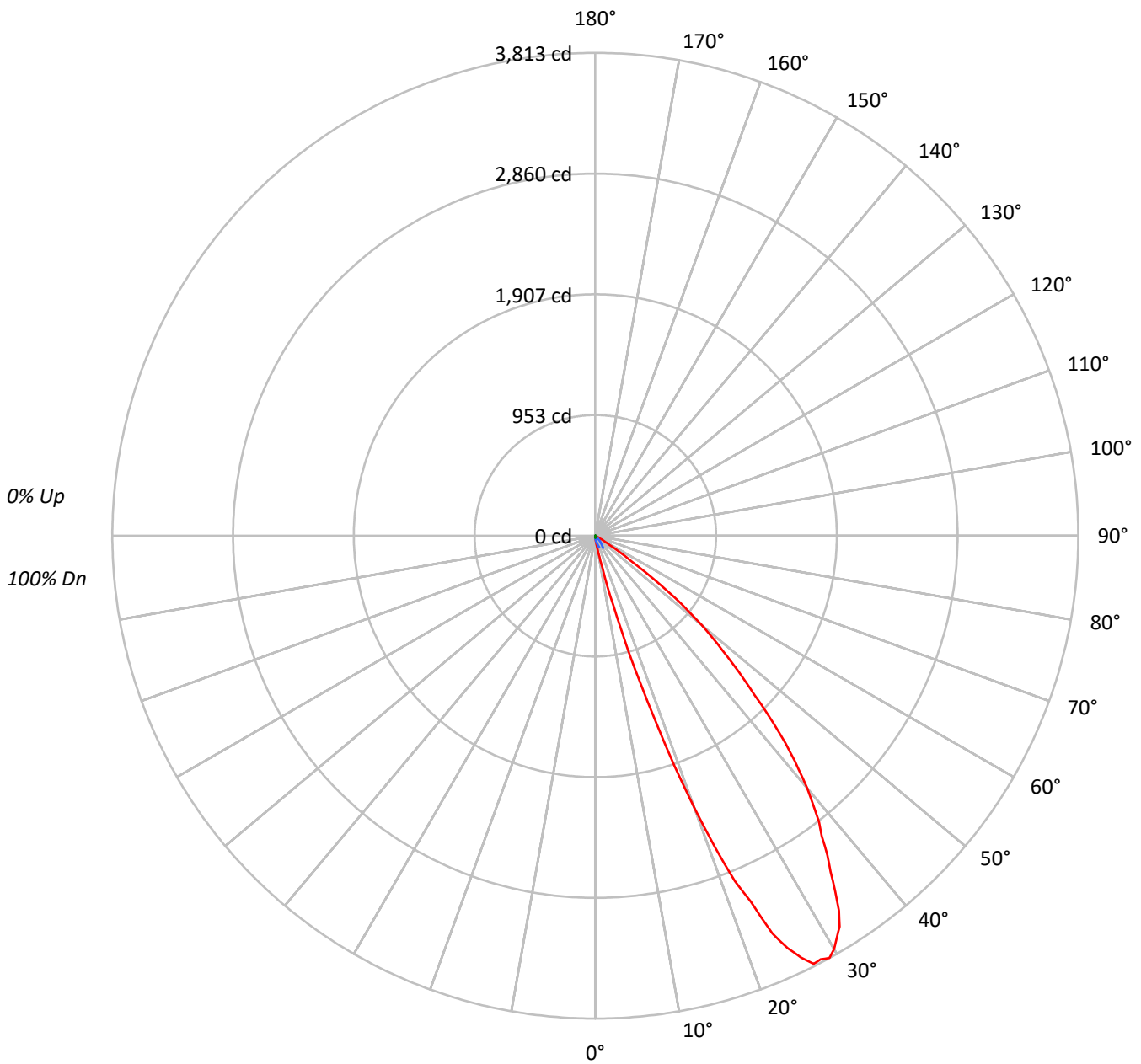
Lumens per Lamp: N/A  
Luminaire Lumens: 767.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56					56			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31					31			

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

	0°	90°	180°
0°	8486	8486	8486
5°	18473	7726	5497
10°	55408	6663	3607
15°	336237	4852	2860
20°	1203829	2625	1155
25°	1956392	925	0
30°	2147200	342	0
35°	1951278	0	0
40°	1674757	0	0
45°	1241382	0	0
50°	839376	0	0
55°	283591	516	0
60°	40554	1085	0
65°	3269	1284	0
70°	0	1587	0
75°	0	3241	0
80°	0	3125	0
85°	0	6227	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.2	0.3
10°-20°	39.5	5.2
20°-30°	224.3	29.2
30°-40°	292.2	38.1
40°-50°	171.2	22.3
50°-60°	34.6	4.5
60°-70°	1.3	0.2
70°-80°	0.9	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°	266.0	34.7
0°-40°	558.2	72.8
0°-60°	764.0	99.6
0°-90°	767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	37	27	16	12	11	6
15°	658	75	10	6	6	279
25°	3594	126	2	1	0	1589
35°	3240	92	0	0	0	2018
45°	1779	23	0	0	0	1390
55°	330	2	1	1	0	385
65°	3	1	1	1	0	8
75°	0	1	2	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°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	23.4	21.7	20.6	17.8	16.1	15.0	14.5	13.9	13.3
5°	37.3	34.5	26.7	19.5	15.6	13.3	12.2	11.1	11.1
7.5°	63.9	51.7	35.0	20.6	14.5	11.7	10.6	8.9	8.3
10°	110.6	86.2	47.8	21.7	13.3	10.6	8.3	7.8	7.2
12.5°	259.6	157.3	60.6	21.7	11.7	8.9	7.2	6.7	6.1
15°	658.3	320.8	75.1	20.6	9.5	6.7	6.1	5.6	5.6
17.5°	1365.5	658.9	91.2	18.9	7.8	5.0	4.4	3.9	3.9
20°	2292.9	1180.9	106.8	16.1	5.0	3.3	2.8	2.2	2.2
21°	2634.3	1370.5	114.5	15.0	4.4	2.8	2.2	2.2	1.7
22°	2941.2	1544.5	119.0	14.5	3.3	2.2	2.2	1.7	1.7
23°	3139.1	1765.3	122.9	12.8	2.8	1.7	1.7	1.1	0.6
24°	3437.7	1938.2	124.5	11.7	2.2	1.7	1.1	0.6	0.6
25°	3593.9	2095.0	126.2	10.6	1.7	1.7	1.1	0.6	0.0
26°	3706.2	2219.0	132.3	10.0	1.7	1.1	1.1	0.6	0.0
27°	3794.1	2297.9	135.7	8.9	1.1	1.1	1.1	0.0	0.0
28°	3789.1	2355.2	132.9	7.8	1.1	1.1	0.6	0.0	0.0
29°	3813.0	2394.1	131.2	6.7	0.6	0.6	0.6	0.0	0.0
30°	3769.1	2397.4	125.1	6.1	0.6	0.6	0.6	0.0	0.0
31°	3702.4	2356.9	122.9	5.6	0.0	0.6	0.6	0.0	0.0
32°	3639.5	2338.5	115.6	4.4	0.0	0.6	0.6	0.0	0.0
33°	3531.7	2256.2	108.4	3.9	0.0	0.6	0.0	0.0	0.0
34°	3387.1	2175.6	101.7	3.3	0.0	0.6	0.0	0.0	0.0
35°	3239.8	2108.9	92.3	3.3	0.0	0.6	0.0	0.0	0.0
36°	3117.5	1987.7	85.6	2.8	0.0	0.6	0.0	0.0	0.0
37°	2969.0	1883.7	76.7	2.2	0.0	0.0	0.0	0.0	0.0
38°	2867.8	1737.5	70.1	2.2	0.0	0.0	0.0	0.0	0.0
39°	2731.6	1614.0	61.7	1.7	0.0	0.0	0.0	0.0	0.0
40°	2600.4	1486.2	53.4	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2224.0	1146.5	36.7	0.6	0.0	0.0	0.0	0.0	0.0
45°	1779.2	840.7	22.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1412.8	567.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	1093.6	292.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	727.2	124.0	5.0	0.0	0.0	0.6	0.0	0.0	0.0
55°	329.7	64.5	2.2	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	132.9	27.8	1.1	0.6	0.6	0.6	0.6	0.0	0.0
60°	41.1	7.8	0.6	0.6	1.1	1.1	0.6	0.0	0.0
62.5°	8.3	1.7	0.6	1.1	1.1	1.1	0.6	0.0	0.0
65°	2.8	0.6	0.6	1.1	1.1	1.1	1.1	0.0	0.0
67.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
70°	0.0	0.6	1.1	1.1	1.1	1.7	1.1	0.6	0.0
72.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
75°	0.0	0.6	1.1	1.1	1.7	1.7	1.1	0.6	0.0
77.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
80°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	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	1.1	1.1	1.1	1.1	1.1	0.6	0.0
85°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	0.0	0.6	1.1	1.1	1.1	1.1	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)