

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: P494637

Luminaire Tested: **LDA2B108030R30D010 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: P494637  
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: LDA2B108030R30D010 2LBD1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

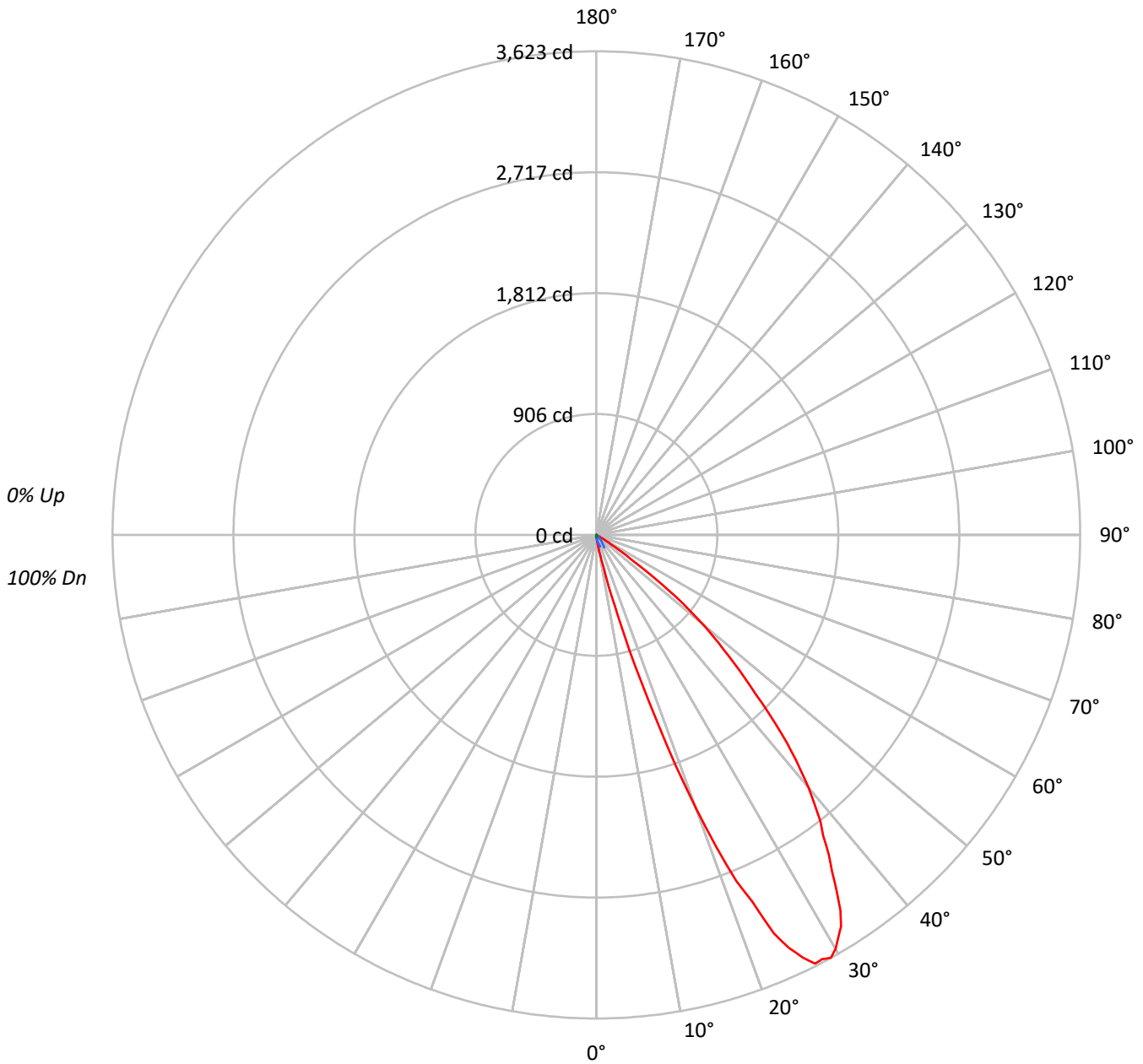
Lumens per Lamp: N/A  
Luminaire Lumens: 728.8 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	8091	8091	8091
5°	17532	7330	5250
10°	52652	6362	3457
15°	319484	4597	2707
20°	1143819	2520	1103
25°	1858896	871	0
30°	2040156	285	0
35°	1854009	0	0
40°	1591289	0	0
45°	1179494	0	0
50°	797545	0	0
55°	269485	430	0
60°	38581	1085	0
65°	3035	1284	0
70°	0	1587	0
75°	0	3050	0
80°	0	3125	0
85°	0	6227	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.1	0.3
10°-20°	37.5	5.2
20°-30°	213.1	29.2
30°-40°	277.6	38.1
40°-50°	162.6	22.3
50°-60°	32.8	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°	252.8	34.7
0°-40°	530.4	72.8
0°-60°	725.9	99.6
0°-90°	728.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	35	25	15	12	11	6
15°	626	71	9	6	5	265
25°	3415	120	2	1	0	1510
35°	3078	88	0	0	0	1917
45°	1690	22	0	0	0	1321
55°	313	2	0	0	0	365
65°	3	0	1	1	0	7
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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	22.2	20.6	19.5	16.9	15.3	14.3	13.7	13.2	12.7
5°	35.4	32.8	25.4	18.5	14.8	12.7	11.6	10.6	10.6
7.5°	60.8	49.1	33.3	19.5	13.7	11.1	10.0	8.5	7.9
10°	105.1	81.9	45.4	20.6	12.7	10.0	7.9	7.4	6.9
12.5°	246.7	149.5	57.6	20.6	11.1	8.5	6.9	6.3	5.8
15°	625.5	304.8	71.3	19.5	9.0	6.3	5.8	5.3	5.3
17.5°	1297.5	626.0	86.6	18.0	7.4	4.8	4.2	3.7	3.7
20°	2178.6	1122.1	101.4	15.3	4.8	3.2	2.6	2.1	2.1
21°	2503.0	1302.2	108.8	14.3	4.2	2.6	2.1	2.1	1.6
22°	2794.6	1467.6	113.1	13.7	3.2	2.1	2.1	1.6	1.6
23°	2982.7	1677.3	116.8	12.2	2.6	1.6	1.6	1.1	0.5
24°	3266.4	1841.6	118.3	11.1	2.1	1.6	1.1	0.5	0.5
25°	3414.8	1990.6	119.9	10.0	1.6	1.6	1.1	0.5	0.0
26°	3521.5	2108.4	125.7	9.5	1.6	1.1	1.1	0.5	0.0
27°	3605.0	2183.4	128.9	8.5	1.1	1.1	1.1	0.0	0.0
28°	3600.3	2237.8	126.3	7.4	1.1	1.1	0.5	0.0	0.0
29°	3623.0	2274.8	124.7	6.3	0.5	0.5	0.5	0.0	0.0
30°	3581.2	2278.0	118.9	5.8	0.5	0.5	0.5	0.0	0.0
31°	3517.8	2239.4	116.8	5.3	0.0	0.5	0.5	0.0	0.0
32°	3458.1	2222.0	109.9	4.2	0.0	0.5	0.5	0.0	0.0
33°	3355.7	2143.8	103.0	3.7	0.0	0.5	0.0	0.0	0.0
34°	3218.3	2067.2	96.7	3.2	0.0	0.5	0.0	0.0	0.0
35°	3078.3	2003.8	87.7	3.2	0.0	0.5	0.0	0.0	0.0
36°	2962.1	1888.6	81.4	2.6	0.0	0.5	0.0	0.0	0.0
37°	2821.0	1789.8	72.9	2.1	0.0	0.0	0.0	0.0	0.0
38°	2724.9	1650.9	66.6	2.1	0.0	0.0	0.0	0.0	0.0
39°	2595.5	1533.6	58.6	1.6	0.0	0.0	0.0	0.0	0.0
40°	2470.8	1412.1	50.7	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2113.1	1089.3	34.9	0.5	0.0	0.0	0.0	0.0	0.0
45°	1690.5	798.8	21.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1342.4	539.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	1039.1	277.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	691.0	117.8	4.8	0.0	0.0	0.5	0.0	0.0	0.0
55°	313.3	61.3	2.1	0.0	0.5	0.5	0.5	0.0	0.0
57.5°	126.3	26.4	1.1	0.5	0.5	0.5	0.5	0.0	0.0
60°	39.1	7.4	0.5	0.5	1.1	1.1	0.5	0.0	0.0
62.5°	7.9	1.6	0.5	1.1	1.1	1.1	0.5	0.0	0.0
65°	2.6	0.5	0.5	1.1	1.1	1.1	1.1	0.0	0.0
67.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	0.5	0.0
70°	0.0	0.5	1.1	1.1	1.1	1.6	1.1	0.5	0.0
72.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
75°	0.0	0.5	1.1	1.1	1.6	1.6	1.1	0.5	0.0
77.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
80°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	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	1.1	1.1	1.1	1.1	1.1	0.5	0.0
85°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	0.0	0.5	1.1	1.1	1.1	1.1	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)