

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: P498966

Luminaire Tested: **LDA2B159035R30D010 2LBDC1MMS-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: P498966  
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: LDA2B159035R30D010 2LBDC1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

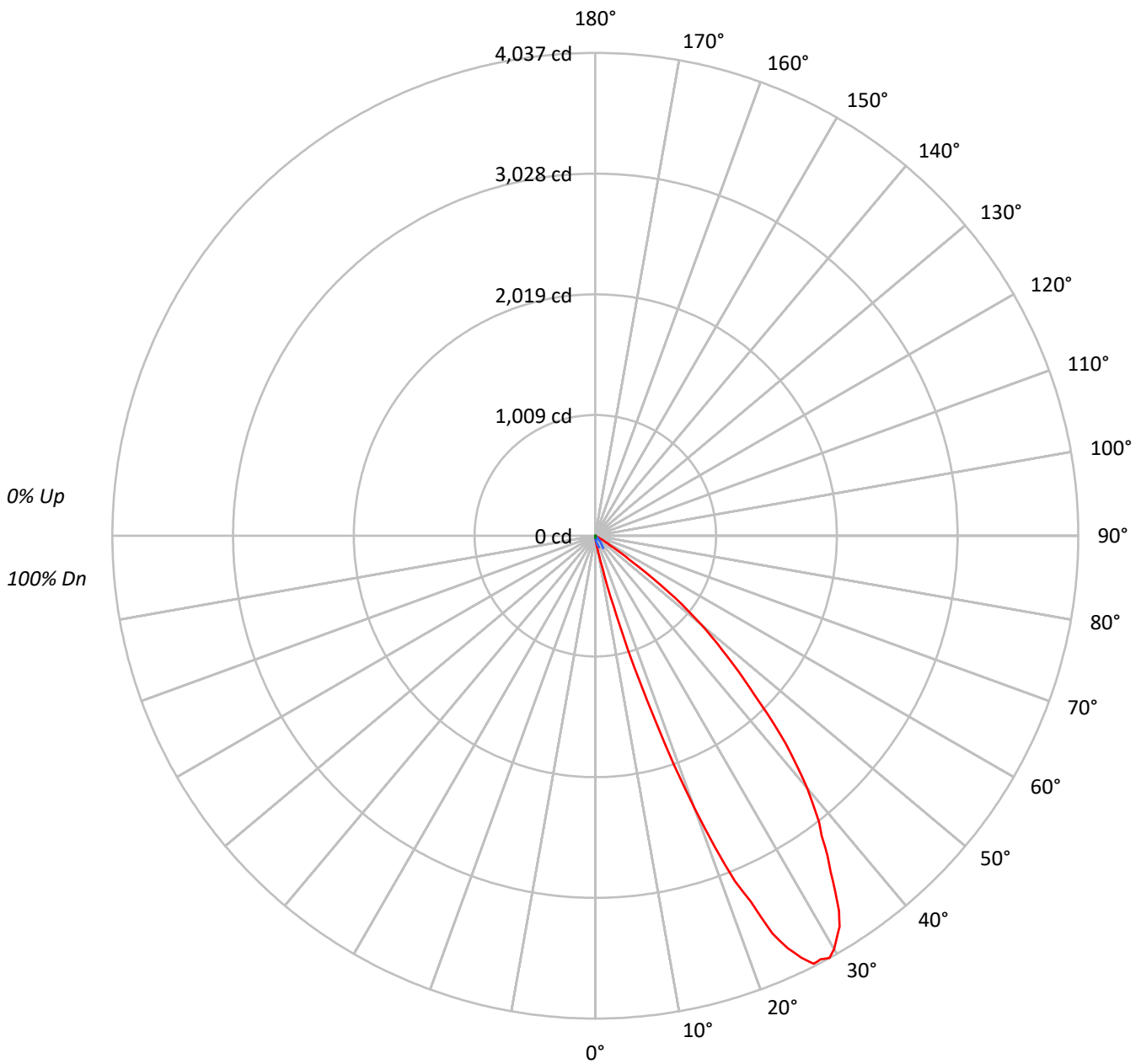
Lumens per Lamp: N/A  
Luminaire Lumens: 812.0 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P498966

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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°	8979	8979	8979
5°	19513	8172	5844
10°	58664	7064	3857
15°	355953	5108	3014
20°	1274497	2783	1260
25°	2071252	980	0
30°	2273215	342	0
35°	2065772	0	0
40°	1773037	0	0
45°	1314223	0	0
50°	888652	0	0
55°	300278	516	0
60°	43021	1184	0
65°	3385	1401	0
70°	0	1731	0
75°	0	3431	0
80°	0	3409	0
85°	0	6793	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.4	0.3
10°-20°	41.8	5.2
20°-30°	237.4	29.2
30°-40°	309.4	38.1
40°-50°	181.2	22.3
50°-60°	36.6	4.5
60°-70°	1.4	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°	281.6	34.7
0°-40°	591.0	72.8
0°-60°	808.8	99.6
0°-90°	812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	39	28	16	13	12	6
15°	697	80	10	6	6	295
25°	3805	134	2	1	0	1683
35°	3430	98	0	0	0	2136
45°	1884	24	0	0	0	1471
55°	349	2	1	1	0	407
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°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	24.7	23.0	21.8	18.8	17.1	15.9	15.3	14.7	14.1
5°	39.4	36.5	28.3	20.6	16.5	14.1	12.9	11.8	11.8
7.5°	67.7	54.7	37.1	21.8	15.3	12.4	11.2	9.4	8.8
10°	117.1	91.2	50.6	23.0	14.1	11.2	8.8	8.2	7.7
12.5°	274.9	166.6	64.2	23.0	12.4	9.4	7.7	7.1	6.5
15°	696.9	339.6	79.5	21.8	10.0	7.1	6.5	5.9	5.9
17.5°	1445.7	697.5	96.5	20.0	8.2	5.3	4.7	4.1	4.1
20°	2427.5	1250.2	113.0	17.1	5.3	3.5	2.9	2.4	2.4
21°	2788.9	1451.0	121.3	15.9	4.7	2.9	2.4	2.4	1.8
22°	3113.8	1635.2	126.0	15.3	3.5	2.4	2.4	1.8	1.8
23°	3323.4	1868.9	130.1	13.5	2.9	1.8	1.8	1.2	0.6
24°	3639.5	2052.0	131.9	12.4	2.4	1.8	1.2	0.6	0.6
25°	3804.9	2218.0	133.6	11.2	1.8	1.8	1.2	0.6	0.0
26°	3923.8	2349.2	140.1	10.6	1.8	1.2	1.2	0.6	0.0
27°	4016.8	2432.8	143.6	9.4	1.2	1.2	1.2	0.0	0.0
28°	4011.5	2493.4	140.7	8.2	1.2	1.2	0.6	0.0	0.0
29°	4036.8	2534.6	138.9	7.1	0.6	0.6	0.6	0.0	0.0
30°	3990.3	2538.2	132.4	6.5	0.6	0.6	0.6	0.0	0.0
31°	3919.7	2495.2	130.1	5.9	0.0	0.6	0.6	0.0	0.0
32°	3853.2	2475.8	122.4	4.7	0.0	0.6	0.6	0.0	0.0
33°	3739.0	2388.7	114.8	4.1	0.0	0.6	0.0	0.0	0.0
34°	3585.9	2303.3	107.7	3.5	0.0	0.6	0.0	0.0	0.0
35°	3429.9	2232.7	97.7	3.5	0.0	0.6	0.0	0.0	0.0
36°	3300.4	2104.3	90.6	2.9	0.0	0.6	0.0	0.0	0.0
37°	3143.3	1994.3	81.2	2.4	0.0	0.0	0.0	0.0	0.0
38°	3036.2	1839.5	74.2	2.4	0.0	0.0	0.0	0.0	0.0
39°	2891.9	1708.8	65.3	1.8	0.0	0.0	0.0	0.0	0.0
40°	2753.0	1573.4	56.5	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	2354.5	1213.8	38.8	0.6	0.0	0.0	0.0	0.0	0.0
45°	1883.6	890.0	24.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1495.7	601.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	1157.8	309.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	769.9	131.3	5.3	0.0	0.0	0.6	0.0	0.0	0.0
55°	349.1	68.3	2.4	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	140.7	29.4	1.2	0.6	0.6	0.6	0.6	0.0	0.0
60°	43.6	8.2	0.6	0.6	1.2	1.2	0.6	0.0	0.0
62.5°	8.8	1.8	0.6	1.2	1.2	1.2	0.6	0.0	0.0
65°	2.9	0.6	0.6	1.2	1.2	1.2	1.2	0.0	0.0
67.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.0
70°	0.0	0.6	1.2	1.2	1.2	1.8	1.2	0.6	0.0
72.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
75°	0.0	0.6	1.2	1.2	1.8	1.8	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	0.0	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)