

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: P497631

Luminaire Tested: **LDA2B158035R20D010 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: P497631  
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: LDA2B158035R20D010 2LBDC1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

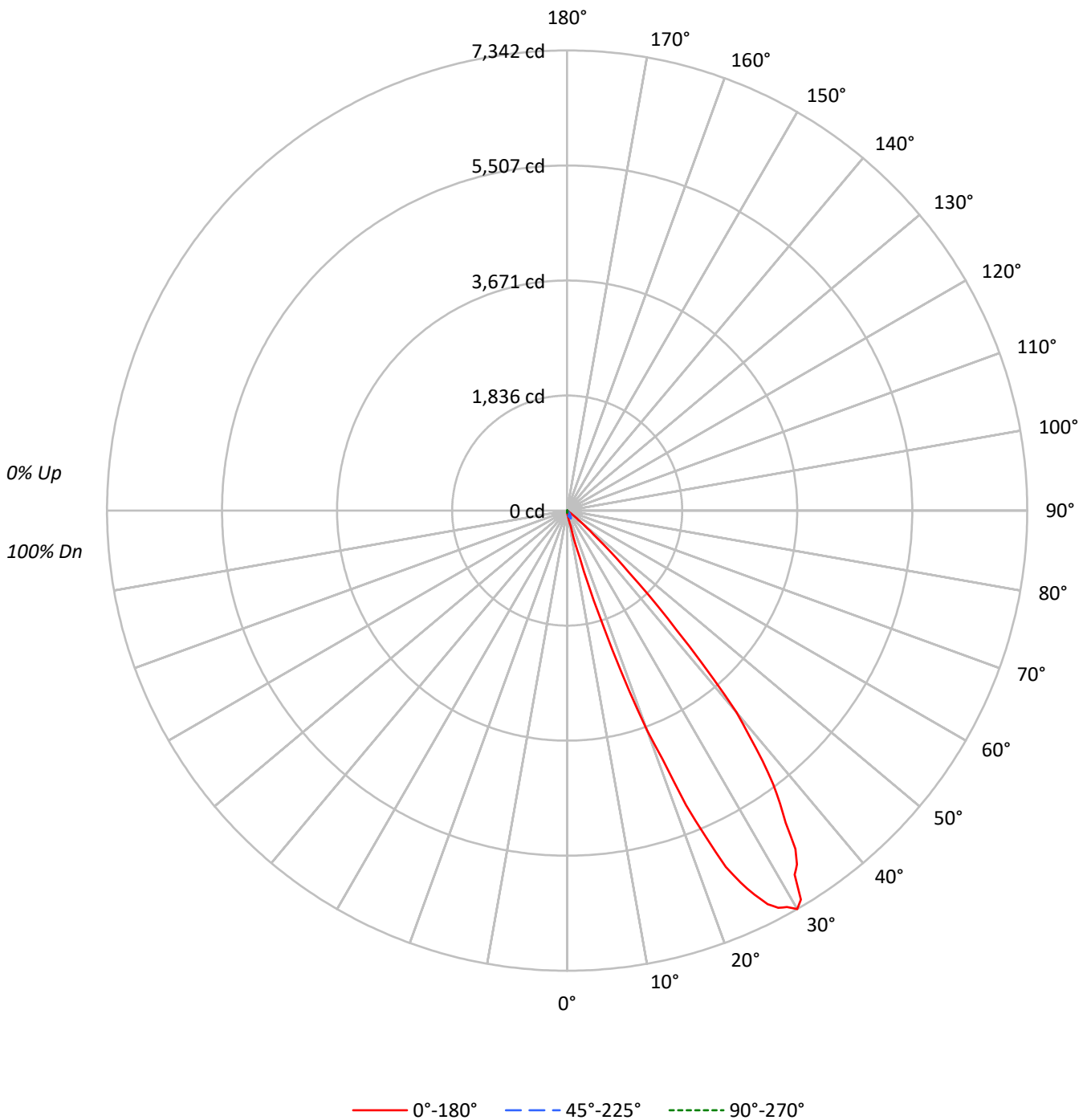
Lumens per Lamp: N/A  
Luminaire Lumens: 927.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): 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





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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°	14752	14752	14752
5°	28180	13025	9509
10°	67281	11372	6412
15°	392064	9092	2554
20°	1955664	5618	735
25°	3566023	1960	0
30°	4182514	0	0
35°	3660800	0	0
40°	2703414	0	0
45°	974434	0	0
50°	202936	0	0
55°	46448	602	0
60°	14702	691	0
65°	3269	1634	0
70°	0	2019	1010
75°	0	2669	0
80°	0	3978	0
85°	0	7925	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.4	0.4
10°-20°	50.9	5.5
20°-30°	343.3	37.0
30°-40°	401.1	43.3
40°-50°	117.0	12.6
50°-60°	7.8	0.8
60°-70°	1.4	0.2
70°-80°	1.2	0.1
80°-90°	1.0	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°	397.6	42.9
0°-40°	798.7	86.2
0°-60°	923.4	99.6
0°-90°	927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	57	41	26	22	19	8
15°	768	87	18	9	5	400
25°	6551	134	4	0	0	2901
35°	6078	72	0	0	0	3734
45°	1397	15	0	0	0	1287
55°	54	3	1	1	0	69
65°	3	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°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	38.4	38.4	34.1	30.6	27.7	26.3	25.6	24.2	23.5
5°	56.9	49.8	41.2	32.0	26.3	24.2	22.0	19.9	19.2
7.5°	83.2	72.5	49.8	32.7	24.9	21.3	19.2	17.1	15.6
10°	134.3	104.5	61.1	32.7	22.7	18.5	15.6	13.5	12.8
12.5°	248.0	159.9	73.2	32.0	20.6	15.6	12.1	10.7	8.5
15°	767.6	331.2	86.7	30.6	17.8	12.1	9.2	5.7	5.0
17.5°	1985.1	773.3	96.7	27.0	14.2	8.5	4.3	3.6	3.6
20°	3724.9	1402.3	110.9	23.5	10.7	5.7	2.8	2.1	1.4
21°	4249.5	1715.7	118.0	22.0	9.2	3.6	2.1	0.7	0.7
22°	5064.7	2057.6	123.7	20.6	7.8	2.1	1.4	0.7	0.0
23°	5645.3	2275.8	129.4	18.5	5.7	2.1	0.7	0.0	0.0
24°	6226.0	2553.7	132.9	17.1	5.0	1.4	0.7	0.0	0.0
25°	6550.8	2785.4	134.3	15.6	3.6	0.7	0.0	0.0	0.0
26°	6818.0	2940.3	135.0	14.2	2.1	0.0	0.0	0.0	0.0
27°	7046.9	3120.1	133.6	12.8	2.1	0.0	0.0	0.0	0.0
28°	7177.0	3150.0	131.5	11.4	0.7	0.0	0.0	0.0	0.0
29°	7233.1	3113.7	125.1	10.0	0.7	0.0	0.0	0.0	0.0
30°	7341.8	3079.6	118.7	9.2	0.0	0.0	0.0	0.0	0.0
31°	7241.6	2966.6	110.9	7.8	0.0	0.0	0.0	0.0	0.0
32°	6849.3	2871.4	101.6	6.4	0.0	0.0	0.0	0.0	0.0
33°	6732.0	2675.9	91.7	5.7	0.0	0.0	0.0	0.0	0.0
34°	6511.0	2385.2	83.2	5.0	0.0	0.0	0.0	0.0	0.0
35°	6078.2	2145.0	72.5	4.3	0.0	0.0	0.0	0.0	0.0
36°	5776.1	1870.6	63.3	3.6	0.0	0.0	0.0	0.0	0.0
37°	5459.8	1631.1	56.1	2.8	0.0	0.0	0.0	0.0	0.0
38°	5066.8	1379.5	47.6	2.1	0.0	0.0	0.0	0.0	0.0
39°	4609.1	1140.0	40.5	2.1	0.0	0.0	0.0	0.0	0.0
40°	4197.6	919.0	34.8	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	2590.6	524.5	20.6	1.4	0.0	0.0	0.0	0.0	0.0
45°	1396.6	318.4	14.9	0.7	0.0	0.0	0.0	0.0	0.0
47.5°	643.2	148.5	10.7	0.7	0.0	0.0	0.0	0.0	0.0
50°	264.4	66.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	95.2	37.0	5.0	0.0	0.0	0.7	0.0	0.0	0.0
55°	54.0	21.3	2.8	0.7	0.7	0.7	0.7	0.0	0.0
57.5°	25.6	12.1	0.7	0.7	0.7	0.7	0.7	0.0	0.0
60°	14.9	6.4	0.7	0.7	0.7	1.4	0.7	0.0	0.0
62.5°	7.1	2.1	0.7	1.4	1.4	1.4	1.4	0.7	0.0
65°	2.8	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.0
67.5°	0.7	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.7
70°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.7
72.5°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.7
75°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
77.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	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	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	0.7	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)