

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: P499412

Luminaire Tested: **LDA2B159050R30D010 2LBDLC1MB-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: P499412  
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: LDA2B159050R30D010 2LBDLC1MB-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

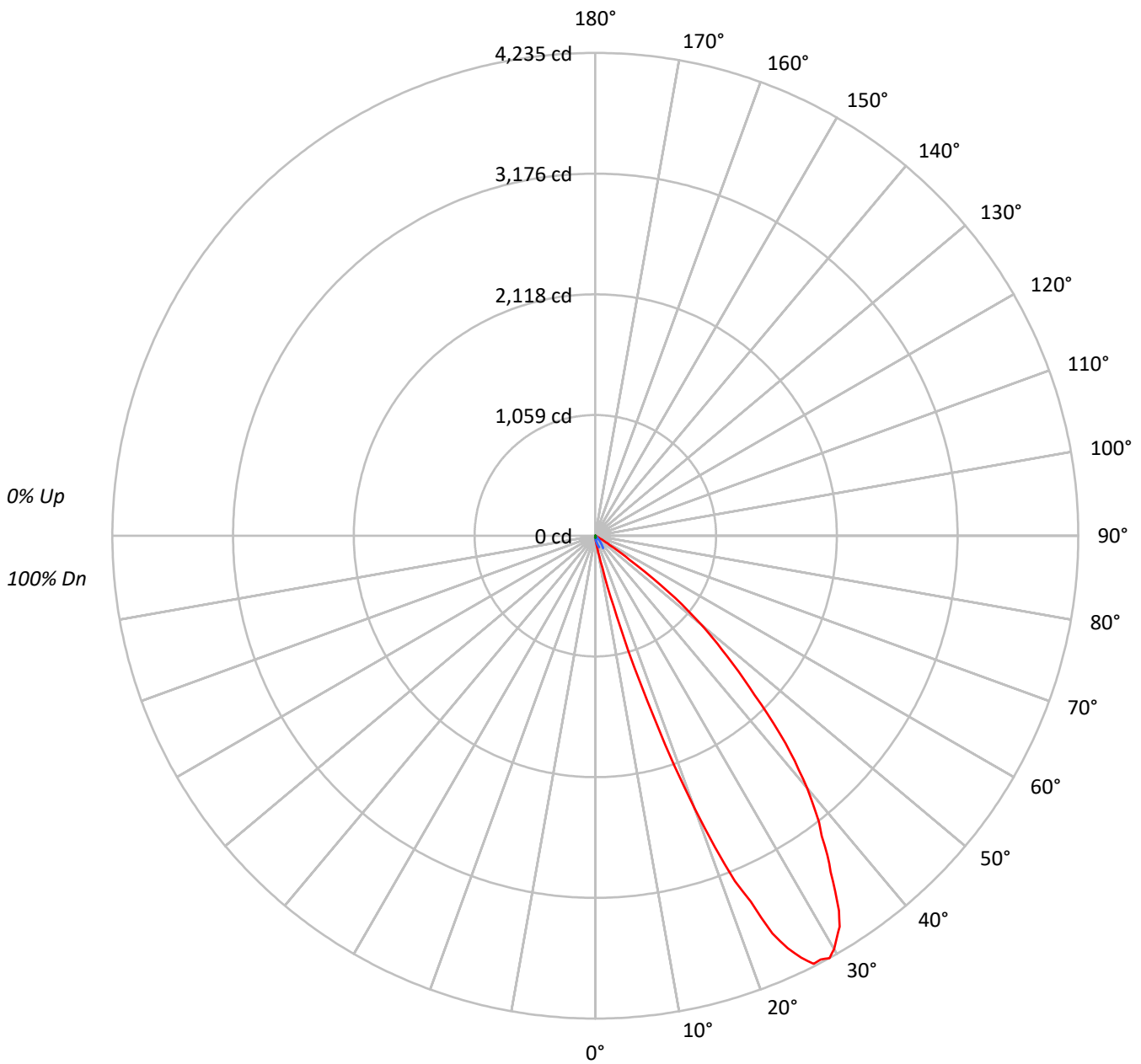
Lumens per Lamp: N/A  
Luminaire Lumens: 851.8 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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



— 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	58	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	45	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°	9423	9423	9423
5°	20503	8568	6141
10°	61570	7414	4008
15°	373472	5363	3167
20°	1337185	2940	1313
25°	2173158	1034	0
30°	2385044	342	0
35°	2167438	0	0
40°	1860304	0	0
45°	1378902	0	0
50°	932401	0	0
55°	314987	516	0
60°	45093	1184	0
65°	3619	1401	0
70°	0	1731	0
75°	0	3622	0
80°	0	3409	0
85°	0	6793	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.5	0.3
10°-20°	43.9	5.2
20°-30°	249.1	29.2
30°-40°	324.6	38.1
40°-50°	190.1	22.3
50°-60°	38.4	4.5
60°-70°	1.5	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°	295.5	34.7
0°-40°	620.1	72.8
0°-60°	848.6	99.6
0°-90°	851.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	41	30	17	14	12	6
15°	731	83	10	7	6	309
25°	3992	140	2	1	0	1765
35°	3599	102	0	0	0	2241
45°	1976	25	0	0	0	1544
55°	366	2	1	1	0	427
65°	3	1	1	1	0	9
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°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	25.9	24.1	22.9	19.8	17.9	16.7	16.1	15.4	14.8
5°	41.4	38.3	29.6	21.6	17.3	14.8	13.6	12.4	12.4
7.5°	71.0	57.4	38.9	22.9	16.1	13.0	11.7	9.9	9.3
10°	122.9	95.7	53.1	24.1	14.8	11.7	9.3	8.6	8.0
12.5°	288.4	174.8	67.3	24.1	13.0	9.9	8.0	7.4	6.8
15°	731.2	356.3	83.4	22.9	10.5	7.4	6.8	6.2	6.2
17.5°	1516.8	731.8	101.3	21.0	8.6	5.6	4.9	4.3	4.3
20°	2546.9	1311.8	118.6	17.9	5.6	3.7	3.1	2.5	2.5
21°	2926.1	1522.4	127.2	16.7	4.9	3.1	2.5	2.5	1.9
22°	3267.1	1715.7	132.2	16.1	3.7	2.5	2.5	1.9	1.9
23°	3486.9	1960.8	136.5	14.2	3.1	1.9	1.9	1.2	0.6
24°	3818.6	2152.9	138.3	13.0	2.5	1.9	1.2	0.6	0.6
25°	3992.1	2327.1	140.2	11.7	1.9	1.9	1.2	0.6	0.0
26°	4116.9	2464.8	147.0	11.1	1.9	1.2	1.2	0.6	0.0
27°	4214.4	2552.5	150.7	9.9	1.2	1.2	1.2	0.0	0.0
28°	4208.9	2616.1	147.6	8.6	1.2	1.2	0.6	0.0	0.0
29°	4235.4	2659.3	145.8	7.4	0.6	0.6	0.6	0.0	0.0
30°	4186.6	2663.0	139.0	6.8	0.6	0.6	0.6	0.0	0.0
31°	4112.5	2618.0	136.5	6.2	0.0	0.6	0.6	0.0	0.0
32°	4042.7	2597.6	128.5	4.9	0.0	0.6	0.6	0.0	0.0
33°	3922.9	2506.2	120.4	4.3	0.0	0.6	0.0	0.0	0.0
34°	3762.4	2416.6	113.0	3.7	0.0	0.6	0.0	0.0	0.0
35°	3598.7	2342.5	102.5	3.7	0.0	0.6	0.0	0.0	0.0
36°	3462.8	2207.9	95.1	3.1	0.0	0.6	0.0	0.0	0.0
37°	3297.9	2092.4	85.2	2.5	0.0	0.0	0.0	0.0	0.0
38°	3185.5	1930.0	77.8	2.5	0.0	0.0	0.0	0.0	0.0
39°	3034.2	1792.9	68.6	1.9	0.0	0.0	0.0	0.0	0.0
40°	2888.5	1650.8	59.3	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	2470.4	1273.5	40.8	0.6	0.0	0.0	0.0	0.0	0.0
45°	1976.3	933.8	25.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1569.3	630.6	16.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	1214.8	324.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	807.8	137.7	5.6	0.0	0.0	0.6	0.0	0.0	0.0
55°	366.2	71.6	2.5	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	147.6	30.9	1.2	0.6	0.6	0.6	0.6	0.0	0.0
60°	45.7	8.6	0.6	0.6	1.2	1.2	0.6	0.0	0.0
62.5°	9.3	1.9	0.6	1.2	1.2	1.2	0.6	0.0	0.0
65°	3.1	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	1.9	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	1.9	1.9	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)