

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: P499590

Luminaire Tested: **LDA2B159727R20D010 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: P499590  
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: LDA2B159727R20D010 2LBDLC1MB-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

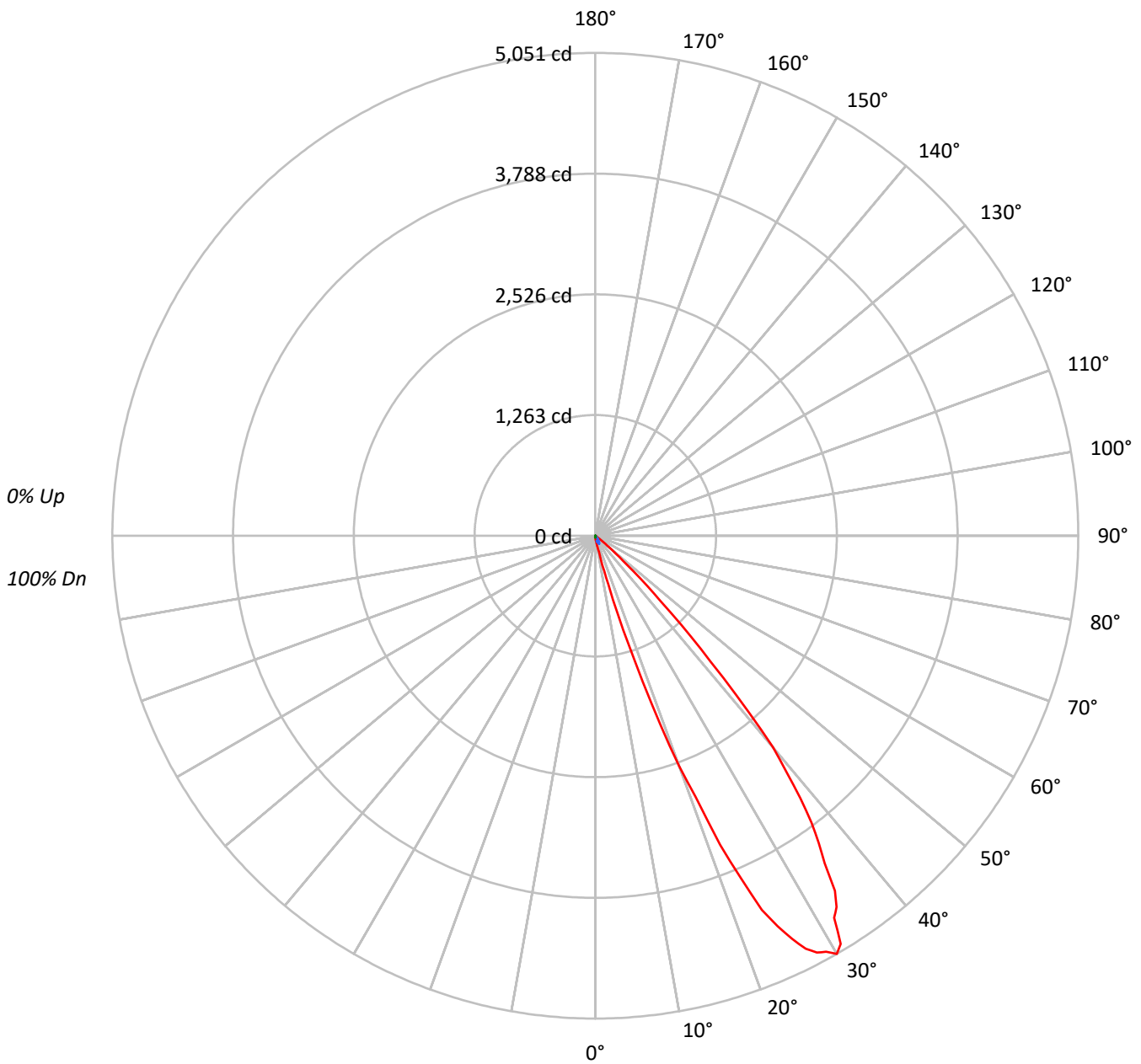
Lumens per Lamp: N/A  
Luminaire Lumens: 637.9 lumens  
Efficiency: N/A  
Efficacy: 45.2 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (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	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°	10114	10114	10114
5°	19364	8964	6537
10°	46290	7815	4409
15°	269735	6231	1737
20°	1345533	3833	525
25°	2453451	1306	0
30°	2877650	0	0
35°	2518690	0	0
40°	1859982	0	0
45°	670438	0	0
50°	139615	0	0
55°	31998	430	0
60°	10163	493	0
65°	2335	1167	0
70°	0	1442	721
75°	0	1906	0
80°	0	2841	0
85°	0	5661	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	35.0	5.5
20°-30°	236.2	37.0
30°-40°	275.9	43.3
40°-50°	80.5	12.6
50°-60°	5.4	0.8
60°-70°	1.0	0.2
70°-80°	0.8	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°	273.6	42.9
0°-40°	549.5	86.1
0°-60°	635.3	99.6
0°-90°	637.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	637.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	39	28	18	15	13	5
15°	528	60	12	6	3	276
25°	4507	92	2	0	0	1996
35°	4182	50	0	0	0	2569
45°	961	10	0	0	0	885
55°	37	2	0	0	0	47
65°	2	1	1	1	0	3
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°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
2.5°	26.4	26.4	23.5	21.0	19.1	18.1	17.6	16.6	16.1
5°	39.1	34.2	28.4	22.0	18.1	16.6	15.2	13.7	13.2
7.5°	57.2	49.9	34.2	22.5	17.1	14.7	13.2	11.7	10.8
10°	92.4	71.9	42.1	22.5	15.6	12.7	10.8	9.3	8.8
12.5°	170.7	110.0	50.4	22.0	14.2	10.8	8.3	7.3	5.9
15°	528.1	227.9	59.7	21.0	12.2	8.3	6.4	3.9	3.4
17.5°	1365.8	532.0	66.5	18.6	9.8	5.9	2.9	2.4	2.4
20°	2562.8	964.8	76.3	16.1	7.3	3.9	2.0	1.5	1.0
21°	2923.7	1180.4	81.2	15.2	6.4	2.4	1.5	0.5	0.5
22°	3484.6	1415.6	85.1	14.2	5.4	1.5	1.0	0.5	0.0
23°	3884.1	1565.8	89.0	12.7	3.9	1.5	0.5	0.0	0.0
24°	4283.6	1757.0	91.4	11.7	3.4	1.0	0.5	0.0	0.0
25°	4507.0	1916.4	92.4	10.8	2.4	0.5	0.0	0.0	0.0
26°	4690.9	2023.0	92.9	9.8	1.5	0.0	0.0	0.0	0.0
27°	4848.4	2146.7	91.9	8.8	1.5	0.0	0.0	0.0	0.0
28°	4937.8	2167.2	90.5	7.8	0.5	0.0	0.0	0.0	0.0
29°	4976.5	2142.3	86.1	6.8	0.5	0.0	0.0	0.0	0.0
30°	5051.3	2118.8	81.7	6.4	0.0	0.0	0.0	0.0	0.0
31°	4982.3	2041.1	76.3	5.4	0.0	0.0	0.0	0.0	0.0
32°	4712.4	1975.5	69.9	4.4	0.0	0.0	0.0	0.0	0.0
33°	4631.7	1841.1	63.1	3.9	0.0	0.0	0.0	0.0	0.0
34°	4479.7	1641.1	57.2	3.4	0.0	0.0	0.0	0.0	0.0
35°	4181.9	1475.8	49.9	2.9	0.0	0.0	0.0	0.0	0.0
36°	3974.0	1287.0	43.5	2.4	0.0	0.0	0.0	0.0	0.0
37°	3756.4	1122.2	38.6	2.0	0.0	0.0	0.0	0.0	0.0
38°	3486.0	949.1	32.8	1.5	0.0	0.0	0.0	0.0	0.0
39°	3171.1	784.3	27.9	1.5	0.0	0.0	0.0	0.0	0.0
40°	2888.0	632.3	24.0	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	1782.4	360.9	14.2	1.0	0.0	0.0	0.0	0.0	0.0
45°	960.9	219.1	10.3	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	442.5	102.2	7.3	0.5	0.0	0.0	0.0	0.0	0.0
50°	181.9	45.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	65.5	25.4	3.4	0.0	0.0	0.5	0.0	0.0	0.0
55°	37.2	14.7	2.0	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	17.6	8.3	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	10.3	4.4	0.5	0.5	0.5	1.0	0.5	0.0	0.0
62.5°	4.9	1.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	2.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.0
67.5°	0.5	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
70°	0.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
72.5°	0.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
75°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
77.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
80°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	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	1.0	1.0	1.0	1.0	1.0	0.5	0.0
85°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
87.5°	0.0	0.5	1.0	1.0	1.0	1.0	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)