

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: P499793

Luminaire Tested: **LDA2B159730R20D010 2LBDC1MW-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: P499793  
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: LDA2B159730R20D010 2LBDC1MW-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

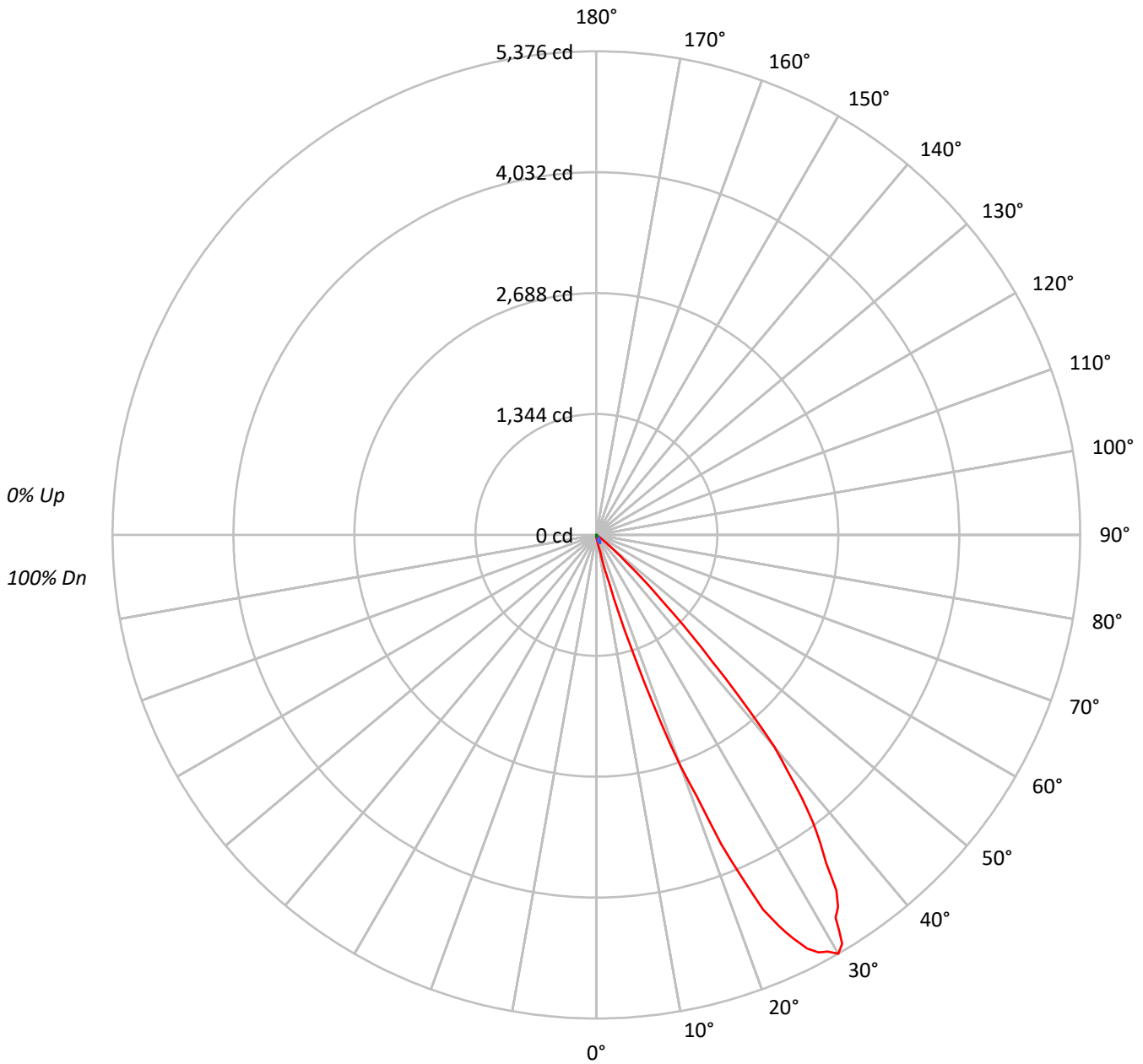
Lumens per Lamp: N/A  
Luminaire Lumens: 678.7 lumens  
Efficiency: N/A  
Efficacy: 48.1 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	10805	10805	10805
5°	20602	9558	6983
10°	49296	8366	4709
15°	287101	6640	1839
20°	1432057	4095	525
25°	2611208	1415	0
30°	3062627	0	0
35°	2680583	0	0
40°	1979580	0	0
45°	713487	0	0
50°	148595	0	0
55°	34062	430	0
60°	10755	493	0
65°	2452	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°	2.5	0.4
10°-20°	37.3	5.5
20°-30°	251.4	37.0
30°-40°	293.7	43.3
40°-50°	85.6	12.6
50°-60°	5.7	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°	291.1	42.9
0°-40°	584.8	86.2
0°-60°	676.2	99.6
0°-90°	678.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	42	30	19	16	14	6
15°	562	64	13	7	4	293
25°	4797	98	3	0	0	2124
35°	4451	53	0	0	0	2734
45°	1023	11	0	0	0	942
55°	40	2	0	0	0	50
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°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
2.5°	28.1	28.1	25.0	22.4	20.3	19.3	18.7	17.7	17.2
5°	41.6	36.4	30.2	23.4	19.3	17.7	16.1	14.6	14.1
7.5°	60.9	53.1	36.4	23.9	18.2	15.6	14.1	12.5	11.4
10°	98.4	76.5	44.8	23.9	16.7	13.5	11.4	9.9	9.4
12.5°	181.6	117.1	53.6	23.4	15.1	11.4	8.8	7.8	6.2
15°	562.1	242.5	63.5	22.4	13.0	8.8	6.8	4.2	3.6
17.5°	1453.6	566.2	70.8	19.8	10.4	6.2	3.1	2.6	2.6
20°	2727.6	1026.8	81.2	17.2	7.8	4.2	2.1	1.6	1.0
21°	3111.7	1256.3	86.4	16.1	6.8	2.6	1.6	0.5	0.5
22°	3708.6	1506.6	90.6	15.1	5.7	1.6	1.0	0.5	0.0
23°	4133.8	1666.4	94.7	13.5	4.2	1.6	0.5	0.0	0.0
24°	4559.0	1869.9	97.3	12.5	3.6	1.0	0.5	0.0	0.0
25°	4796.8	2039.6	98.4	11.4	2.6	0.5	0.0	0.0	0.0
26°	4992.5	2153.0	98.9	10.4	1.6	0.0	0.0	0.0	0.0
27°	5160.1	2284.7	97.8	9.4	1.6	0.0	0.0	0.0	0.0
28°	5255.3	2306.5	96.3	8.3	0.5	0.0	0.0	0.0	0.0
29°	5296.4	2280.0	91.6	7.3	0.5	0.0	0.0	0.0	0.0
30°	5376.0	2255.0	86.9	6.8	0.0	0.0	0.0	0.0	0.0
31°	5302.7	2172.3	81.2	5.7	0.0	0.0	0.0	0.0	0.0
32°	5015.4	2102.5	74.4	4.7	0.0	0.0	0.0	0.0	0.0
33°	4929.5	1959.4	67.1	4.2	0.0	0.0	0.0	0.0	0.0
34°	4767.7	1746.6	60.9	3.6	0.0	0.0	0.0	0.0	0.0
35°	4450.7	1570.7	53.1	3.1	0.0	0.0	0.0	0.0	0.0
36°	4229.5	1369.8	46.3	2.6	0.0	0.0	0.0	0.0	0.0
37°	3997.9	1194.4	41.1	2.1	0.0	0.0	0.0	0.0	0.0
38°	3710.1	1010.2	34.9	1.6	0.0	0.0	0.0	0.0	0.0
39°	3375.0	834.8	29.7	1.6	0.0	0.0	0.0	0.0	0.0
40°	3073.7	672.9	25.5	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	1897.0	384.1	15.1	1.0	0.0	0.0	0.0	0.0	0.0
45°	1022.6	233.2	10.9	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	471.0	108.8	7.8	0.5	0.0	0.0	0.0	0.0	0.0
50°	193.6	48.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	69.7	27.1	3.6	0.0	0.0	0.5	0.0	0.0	0.0
55°	39.6	15.6	2.1	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	18.7	8.8	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	10.9	4.7	0.5	0.5	0.5	1.0	0.5	0.0	0.0
62.5°	5.2	1.6	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	2.1	0.5	1.0	1.0	1.0	1.6	1.0	0.5	0.0
67.5°	0.5	0.5	1.0	1.0	1.0	1.6	1.0	0.5	0.5
70°	0.0	0.5	1.0	1.0	1.0	1.6	1.0	0.5	0.5
72.5°	0.0	0.5	1.0	1.0	1.0	1.6	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)