

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: P499872

Luminaire Tested: **LDA2B159730R35D010 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: P499872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159730R35D010 2LBDC1MMS-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**

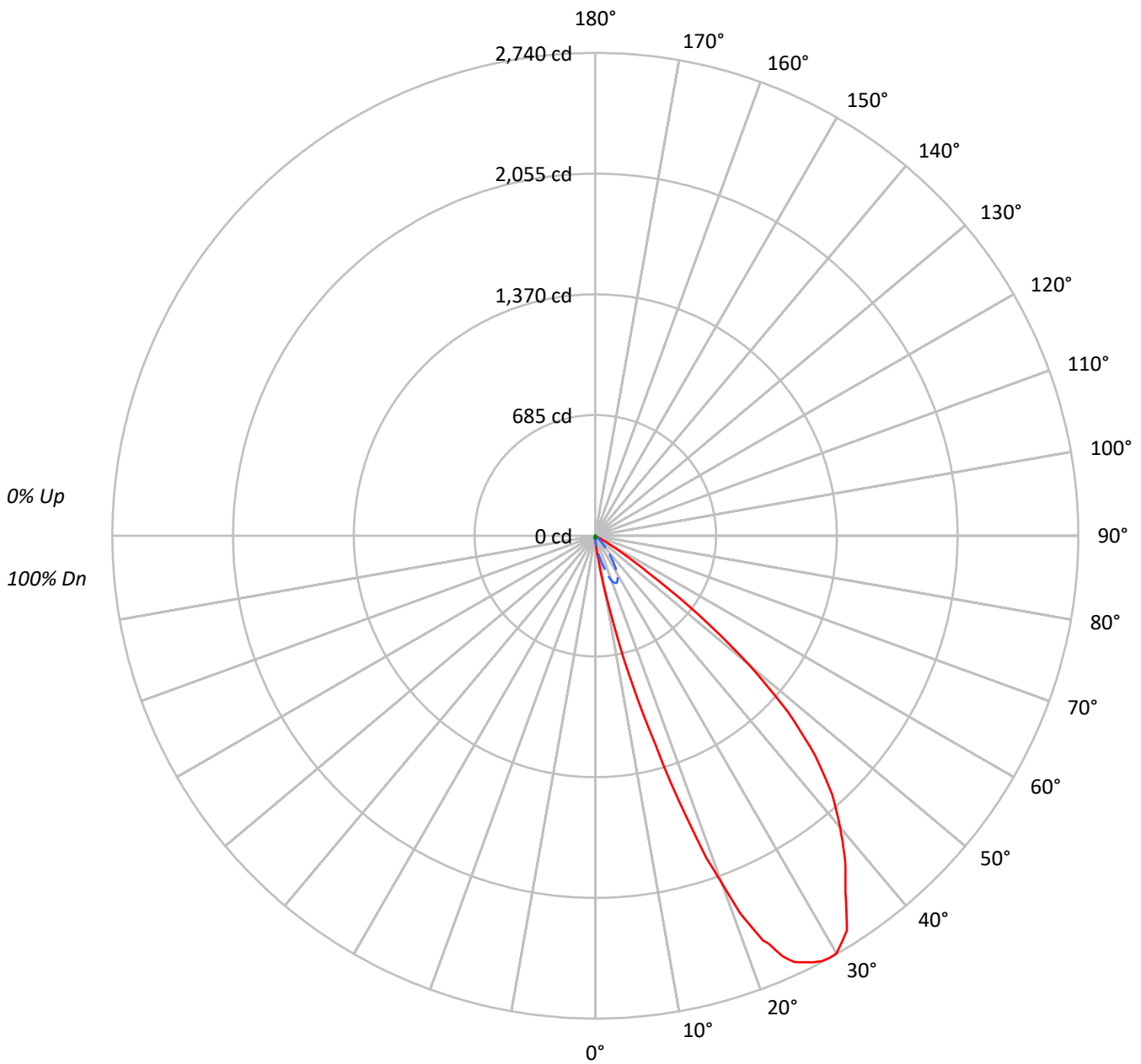
Lumens per Lamp: N/A  
Luminaire Lumens: 739.3 lumens  
Efficiency: N/A  
Efficacy: 52.4 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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% Up  
100% Dn

— 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				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82					80				
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73					71				
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65					63				
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58					56				
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46					44				
8	67	54	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41					39				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36					35				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33					31				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	12334	12334	12334
5°	38679	10846	6686
10°	165020	9118	4960
15°	533239	6640	3984
20°	1098982	4095	2730
25°	1453072	1960	1688
30°	1558602	911	911
35°	1489507	602	301
40°	1390671	322	0
45°	1229171	0	0
50°	872764	384	0
55°	312923	430	0
60°	48251	987	0
65°	2452	1167	0
70°	0	1442	0
75°	0	1906	953
80°	0	2841	0
85°	0	5661	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.4	0.6
10°-20°	59.8	8.1
20°-30°	200.3	27.1
30°-40°	252.3	34.1
40°-50°	178.5	24.1
50°-60°	41.1	5.6
60°-70°	1.3	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°	264.6	35.8
0°-40°	516.9	69.9
0°-60°	736.5	99.6
0°-90°	739.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	78	51	22	16	14	14
15°	1044	184	13	9	8	344
25°	2669	291	4	4	3	1203
35°	2473	171	1	1	0	1548
45°	1762	42	0	0	0	1321
55°	364	2	0	0	0	412
65°	2	0	1	1	0	8
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°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
1°	31.2	30.2	28.6	26.0	23.4	22.4	22.4	20.8	20.8
2°	37.5	35.9	32.8	27.6	23.4	20.8	19.8	18.7	18.2
3°	48.4	44.2	37.5	29.7	22.9	19.8	19.3	16.7	16.7
4°	60.4	56.2	43.2	31.2	22.4	18.7	16.7	15.6	15.1
5°	78.1	68.7	51.0	32.8	21.9	17.7	15.6	14.1	13.5
6°	101.0	88.0	58.3	34.3	21.3	16.7	14.6	13.0	12.5
7°	127.0	109.3	67.1	35.9	20.3	15.6	13.5	12.5	12.0
8°	182.2	140.5	77.5	37.0	19.8	14.6	13.0	11.4	10.9
9°	243.6	181.6	89.0	38.5	18.7	14.1	12.0	10.9	10.4
10°	329.4	237.8	102.0	39.6	18.2	13.0	10.9	10.4	9.9
11°	414.8	307.6	118.1	40.1	17.2	11.4	10.9	10.4	9.9
12°	555.3	374.2	132.2	40.1	16.1	10.9	9.9	9.4	8.8
13°	721.8	488.7	152.5	40.6	14.6	10.4	9.4	8.8	8.8
14°	868.6	591.2	166.0	40.6	14.1	9.4	8.8	8.8	8.3
15°	1044.0	691.1	184.2	40.1	13.0	8.8	8.8	8.3	7.8
16°	1227.7	841.0	208.7	39.0	12.0	7.8	8.3	7.3	6.8
17°	1471.3	964.9	227.4	38.0	10.9	7.3	7.3	7.3	6.8
18°	1694.0	1115.3	242.5	37.0	9.9	7.3	6.8	6.8	6.2
19°	1932.9	1236.0	257.6	35.4	8.8	6.2	6.2	6.2	5.7
20°	2093.2	1384.3	274.3	33.8	7.8	5.7	6.2	5.7	5.2
21°	2296.1	1517.1	280.5	32.3	6.8	5.2	5.2	5.2	4.7
22.5°	2486.1	1693.5	290.4	29.1	5.7	4.2	4.7	4.2	4.2
23°	2515.2	1730.9	290.4	28.1	5.2	4.2	4.7	4.2	4.2
24°	2612.0	1833.5	294.0	26.0	4.2	3.6	4.2	3.6	3.6
25°	2669.3	1914.7	291.4	23.9	3.6	3.6	3.6	3.6	3.1
26°	2692.7	1937.0	285.2	22.4	3.1	3.1	3.6	3.1	2.6
27°	2717.2	1988.0	277.4	20.3	2.6	3.1	3.1	3.1	2.6
28°	2734.3	1994.3	269.6	18.7	2.1	2.6	3.1	2.6	2.6
29°	2740.1	2002.6	260.2	16.7	1.6	2.1	2.6	2.1	2.1
30°	2735.9	2001.1	246.7	15.1	1.6	2.1	2.1	2.1	1.6
32.5°	2656.3	1956.3	209.2	10.9	1.0	1.6	1.6	1.6	1.0
35°	2473.1	1853.2	170.7	7.3	1.0	1.0	1.0	1.0	0.5
37.5°	2328.4	1699.2	130.6	4.2	0.5	1.0	1.0	0.5	0.0
40°	2159.3	1475.9	94.2	2.6	0.5	0.5	0.5	0.0	0.0
42.5°	1987.5	1248.5	64.0	1.0	0.0	0.5	0.5	0.0	0.0
45°	1761.7	956.0	42.2	0.5	0.0	0.5	0.0	0.0	0.0
47.5°	1481.7	694.3	28.6	0.0	0.0	0.5	0.0	0.0	0.0
50°	1137.1	388.8	16.1	0.0	0.5	0.5	0.5	0.0	0.0
52.5°	749.4	194.1	6.2	0.0	0.5	0.5	0.5	0.0	0.0
55°	363.8	104.1	2.1	0.5	0.5	1.0	0.5	0.0	0.0
57.5°	171.7	40.6	0.5	0.5	1.0	1.0	0.5	0.0	0.0
60°	48.9	8.3	0.5	0.5	1.0	1.0	0.5	0.5	0.0
62.5°	6.8	1.0	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	2.1	0.5	0.5	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°
67.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
70°	0.0	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
72.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
75°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5
77.5°	0.0	0.5	1.0	1.0	1.6	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
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)