

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: P494214

Luminaire Tested: **LDA2B059730R30D010 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: P494214  
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: LDA2B059730R30D010 2LBDC1MMS-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

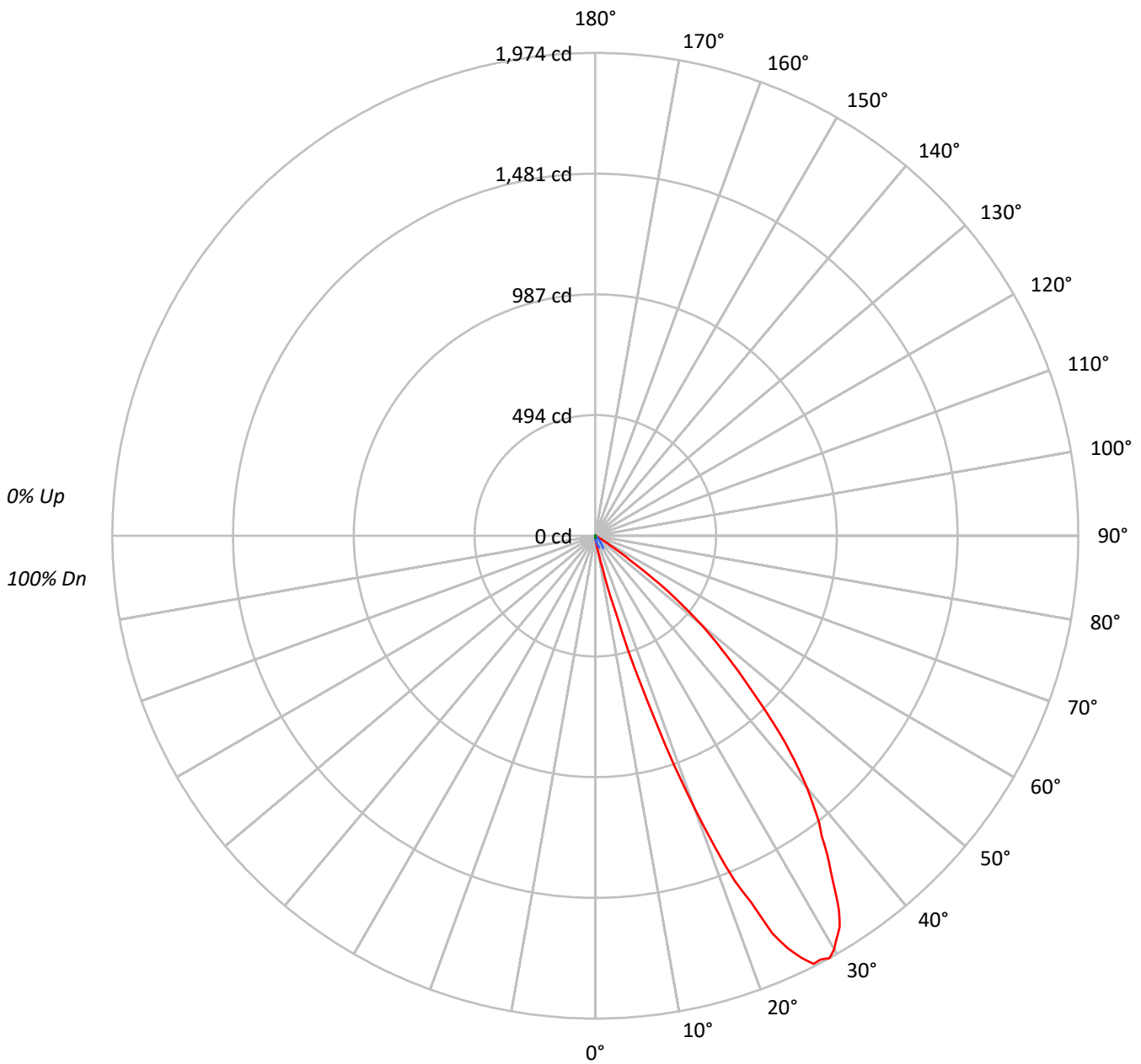
Lumens per Lamp: N/A  
Luminaire Lumens: 397.2 lumens  
Efficiency: N/A  
Efficacy: 56.7 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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				
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	66	75	70	66	73	68	65					63				
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57					56				
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51					49				
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45					44				
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40					39				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36					34				
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32					31				

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

	0°	90°	180°
0°	4391	4391	4391
5°	9558	4011	2872
10°	28706	3457	1854
15°	174120	2503	1481
20°	623362	1365	630
25°	1013062	490	0
30°	1111854	171	0
35°	1010391	0	0
40°	867197	0	0
45°	642808	0	0
50°	434655	0	0
55°	146828	258	0
60°	21017	592	0
65°	1634	700	0
70°	0	865	0
75°	0	1716	0
80°	0	1705	0
85°	0	3396	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.2	0.3
10°-20°	20.5	5.2
20°-30°	116.1	29.2
30°-40°	151.3	38.1
40°-50°	88.6	22.3
50°-60°	17.9	4.5
60°-70°	0.7	0.2
70°-80°	0.5	0.1
80°-90°	0.4	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°	137.8	34.7
0°-40°	289.1	72.8
0°-60°	395.6	99.6
0°-90°	397.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	19	14	8	6	6	3
15°	341	39	5	3	3	144
25°	1861	65	1	1	0	823
35°	1678	48	0	0	0	1045
45°	921	12	0	0	0	720
55°	171	1	0	0	0	199
65°	1	0	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°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
2.5°	12.1	11.2	10.7	9.2	8.3	7.8	7.5	7.2	6.9
5°	19.3	17.8	13.8	10.1	8.1	6.9	6.3	5.8	5.8
7.5°	33.1	26.8	18.1	10.7	7.5	6.0	5.5	4.6	4.3
10°	57.3	44.6	24.8	11.2	6.9	5.5	4.3	4.0	3.7
12.5°	134.4	81.5	31.4	11.2	6.0	4.6	3.7	3.5	3.2
15°	340.9	166.1	38.9	10.7	4.9	3.5	3.2	2.9	2.9
17.5°	707.1	341.2	47.2	9.8	4.0	2.6	2.3	2.0	2.0
20°	1187.3	611.5	55.3	8.3	2.6	1.7	1.4	1.2	1.2
21°	1364.1	709.7	59.3	7.8	2.3	1.4	1.2	1.2	0.9
22°	1523.0	799.8	61.6	7.5	1.7	1.2	1.2	0.9	0.9
23°	1625.5	914.1	63.6	6.6	1.4	0.9	0.9	0.6	0.3
24°	1780.1	1003.6	64.5	6.0	1.2	0.9	0.6	0.3	0.3
25°	1861.0	1084.8	65.4	5.5	0.9	0.9	0.6	0.3	0.0
26°	1919.1	1149.0	68.5	5.2	0.9	0.6	0.6	0.3	0.0
27°	1964.6	1189.9	70.2	4.6	0.6	0.6	0.6	0.0	0.0
28°	1962.0	1219.5	68.8	4.0	0.6	0.6	0.3	0.0	0.0
29°	1974.4	1239.7	67.9	3.5	0.3	0.3	0.3	0.0	0.0
30°	1951.7	1241.4	64.8	3.2	0.3	0.3	0.3	0.0	0.0
31°	1917.1	1220.4	63.6	2.9	0.0	0.3	0.3	0.0	0.0
32°	1884.6	1210.9	59.9	2.3	0.0	0.3	0.3	0.0	0.0
33°	1828.7	1168.3	56.1	2.0	0.0	0.3	0.0	0.0	0.0
34°	1753.9	1126.5	52.7	1.7	0.0	0.3	0.0	0.0	0.0
35°	1677.6	1092.0	47.8	1.7	0.0	0.3	0.0	0.0	0.0
36°	1614.2	1029.2	44.3	1.4	0.0	0.3	0.0	0.0	0.0
37°	1537.4	975.4	39.7	1.2	0.0	0.0	0.0	0.0	0.0
38°	1485.0	899.7	36.3	1.2	0.0	0.0	0.0	0.0	0.0
39°	1414.4	835.8	32.0	0.9	0.0	0.0	0.0	0.0	0.0
40°	1346.5	769.6	27.6	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1151.6	593.6	19.0	0.3	0.0	0.0	0.0	0.0	0.0
45°	921.3	435.3	11.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	731.5	293.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	566.3	151.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	376.6	64.2	2.6	0.0	0.0	0.3	0.0	0.0	0.0
55°	170.7	33.4	1.2	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	68.8	14.4	0.6	0.3	0.3	0.3	0.3	0.0	0.0
60°	21.3	4.0	0.3	0.3	0.6	0.6	0.3	0.0	0.0
62.5°	4.3	0.9	0.3	0.6	0.6	0.6	0.3	0.0	0.0
65°	1.4	0.3	0.3	0.6	0.6	0.6	0.6	0.0	0.0
67.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
70°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.0
72.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
75°	0.0	0.3	0.6	0.6	0.9	0.9	0.6	0.3	0.0
77.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
80°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	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	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
85°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.3	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)