

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: P496806

Luminaire Tested: **LDA2B109727R30D010 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: P496806  
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: LDA2B109727R30D010 2LBDC1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

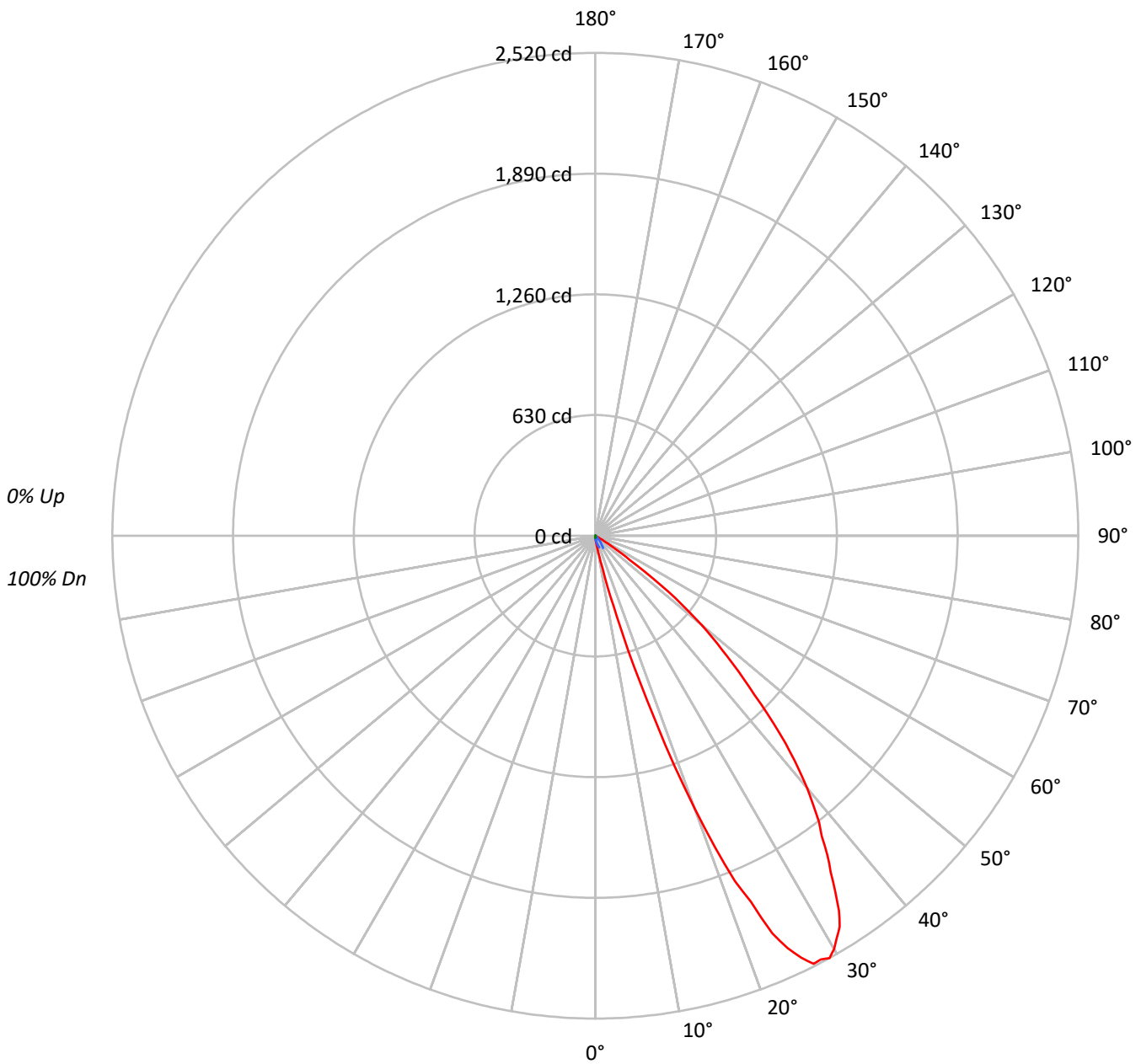
Lumens per Lamp: N/A  
Luminaire Lumens: 506.9 lumens  
Efficiency: N/A  
Efficacy: 50.7 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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	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	44	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°	5624	5624	5624
5°	12183	5101	3615
10°	36621	4409	2405
15°	222234	3167	1890
20°	795727	1733	788
25°	1293138	599	0
30°	1419257	228	0
35°	1289730	0	0
40°	1106973	0	0
45°	820517	0	0
50°	554851	0	0
55°	187427	344	0
60°	26839	691	0
65°	2101	817	0
70°	0	1010	0
75°	0	2097	0
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.5	0.3
10°-20°	26.1	5.2
20°-30°	148.2	29.2
30°-40°	193.1	38.1
40°-50°	113.1	22.3
50°-60°	22.9	4.5
60°-70°	0.9	0.2
70°-80°	0.6	0.1
80°-90°	0.5	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°	175.8	34.7
0°-40°	369.0	72.8
0°-60°	505.0	99.6
0°-90°	506.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	25	18	10	8	7	4
15°	435	50	6	4	4	184
25°	2376	83	1	1	0	1051
35°	2141	61	0	0	0	1334
45°	1176	15	0	0	0	919
55°	218	2	0	0	0	254
65°	2	0	1	1	0	5
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°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	15.4	14.3	13.6	11.8	10.7	9.9	9.6	9.2	8.8
5°	24.6	22.8	17.6	12.9	10.3	8.8	8.1	7.3	7.3
7.5°	42.3	34.2	23.2	13.6	9.6	7.7	7.0	5.9	5.5
10°	73.1	57.0	31.6	14.3	8.8	7.0	5.5	5.1	4.8
12.5°	171.6	104.0	40.1	14.3	7.7	5.9	4.8	4.4	4.0
15°	435.1	212.0	49.6	13.6	6.2	4.4	4.0	3.7	3.7
17.5°	902.6	435.5	60.3	12.5	5.1	3.3	2.9	2.6	2.6
20°	1515.6	780.6	70.6	10.7	3.3	2.2	1.8	1.5	1.5
21°	1741.2	905.9	75.7	9.9	2.9	1.8	1.5	1.5	1.1
22°	1944.1	1020.9	78.6	9.6	2.2	1.5	1.5	1.1	1.1
23°	2074.9	1166.8	81.2	8.5	1.8	1.1	1.1	0.7	0.4
24°	2272.3	1281.1	82.3	7.7	1.5	1.1	0.7	0.4	0.4
25°	2375.5	1384.7	83.4	7.0	1.1	1.1	0.7	0.4	0.0
26°	2449.8	1466.7	87.5	6.6	1.1	0.7	0.7	0.4	0.0
27°	2507.8	1518.9	89.7	5.9	0.7	0.7	0.7	0.0	0.0
28°	2504.5	1556.7	87.8	5.1	0.7	0.7	0.4	0.0	0.0
29°	2520.3	1582.5	86.7	4.4	0.4	0.4	0.4	0.0	0.0
30°	2491.3	1584.7	82.7	4.0	0.4	0.4	0.4	0.0	0.0
31°	2447.2	1557.8	81.2	3.7	0.0	0.4	0.4	0.0	0.0
32°	2405.7	1545.7	76.4	2.9	0.0	0.4	0.4	0.0	0.0
33°	2334.4	1491.3	71.7	2.6	0.0	0.4	0.0	0.0	0.0
34°	2238.8	1438.0	67.3	2.2	0.0	0.4	0.0	0.0	0.0
35°	2141.4	1393.9	61.0	2.2	0.0	0.4	0.0	0.0	0.0
36°	2060.6	1313.8	56.6	1.8	0.0	0.4	0.0	0.0	0.0
37°	1962.4	1245.1	50.7	1.5	0.0	0.0	0.0	0.0	0.0
38°	1895.6	1148.4	46.3	1.5	0.0	0.0	0.0	0.0	0.0
39°	1805.5	1066.9	40.8	1.1	0.0	0.0	0.0	0.0	0.0
40°	1718.8	982.3	35.3	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1470.0	757.8	24.3	0.4	0.0	0.0	0.0	0.0	0.0
45°	1176.0	555.7	15.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	933.8	375.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	722.9	193.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	480.7	82.0	3.3	0.0	0.0	0.4	0.0	0.0	0.0
55°	217.9	42.6	1.5	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	87.8	18.4	0.7	0.4	0.4	0.4	0.4	0.0	0.0
60°	27.2	5.1	0.4	0.4	0.7	0.7	0.4	0.0	0.0
62.5°	5.5	1.1	0.4	0.7	0.7	0.7	0.4	0.0	0.0
65°	1.8	0.4	0.4	0.7	0.7	0.7	0.7	0.0	0.0
67.5°	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.4	0.0
70°	0.0	0.4	0.7	0.7	0.7	1.1	0.7	0.4	0.0
72.5°	0.0	0.4	0.7	0.7	0.7	0.7	0.7	0.4	0.0
75°	0.0	0.4	0.7	0.7	1.1	1.1	0.7	0.4	0.0
77.5°	0.0	0.4	0.7	0.7	0.7	0.7	0.7	0.4	0.0
80°	0.0	0.4	0.7	0.7	0.7	0.7	0.7	0.4	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	0.4	0.7	0.7	0.7	0.7	0.7	0.4	0.0
85°	0.0	0.4	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.0	0.4	0.7	0.7	0.7	0.7	0.4	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)