

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: P496848

Luminaire Tested: **LDA2B109727R35D010 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: P496848  
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: LDA2B109727R35D010 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**

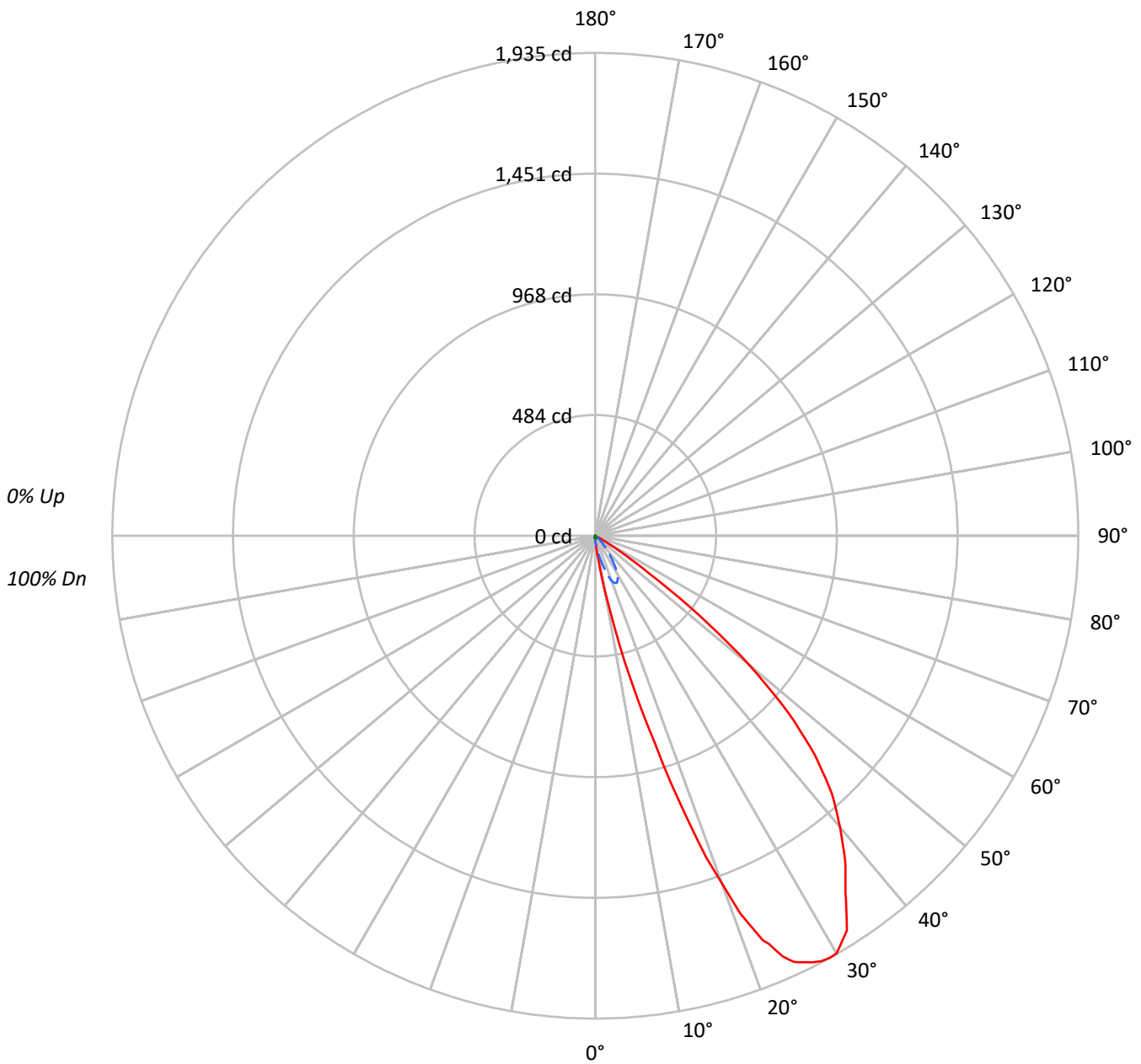
Lumens per Lamp: N/A  
Luminaire Lumens: 522.1 lumens  
Efficiency: N/A  
Efficacy: 52.2 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41	39					39			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

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

	0°	90°	180°
0°	8683	8683	8683
5°	27288	7627	4754
10°	116526	6463	3507
15°	376536	4699	2809
20°	776039	2888	1943
25°	1026073	1415	1198
30°	1100575	627	627
35°	1051828	422	241
40°	982029	258	0
45°	867962	0	0
50°	616330	307	0
55°	220973	344	0
60°	34042	691	0
65°	1751	817	0
70°	0	1010	0
75°	0	1334	762
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.1	0.6
10°-20°	42.3	8.1
20°-30°	141.5	27.1
30°-40°	178.2	34.1
40°-50°	126.0	24.1
50°-60°	29.1	5.6
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°	186.8	35.8
0°-40°	365.0	69.9
0°-60°	520.1	99.6
0°-90°	522.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	55	36	15	11	10	10
15°	737	130	9	6	6	243
25°	1885	206	3	3	2	850
35°	1746	120	1	1	0	1093
45°	1244	30	0	0	0	933
55°	257	2	0	0	0	291
65°	2	0	1	1	0	6
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°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
1°	22.0	21.3	20.2	18.4	16.5	15.8	15.8	14.7	14.7
2°	26.5	25.4	23.2	19.5	16.5	14.7	14.0	13.2	12.9
3°	34.2	31.2	26.5	20.9	16.2	14.0	13.6	11.8	11.8
4°	42.6	39.7	30.5	22.0	15.8	13.2	11.8	11.0	10.7
5°	55.1	48.5	36.0	23.2	15.4	12.5	11.0	9.9	9.6
6°	71.3	62.1	41.2	24.3	15.1	11.8	10.3	9.2	8.8
7°	89.7	77.2	47.4	25.4	14.3	11.0	9.6	8.8	8.5
8°	128.6	99.2	54.8	26.1	14.0	10.3	9.2	8.1	7.7
9°	172.0	128.3	62.8	27.2	13.2	9.9	8.5	7.7	7.3
10°	232.6	167.9	72.0	27.9	12.9	9.2	7.7	7.3	7.0
11°	292.9	217.2	83.4	28.3	12.1	8.1	7.7	7.3	7.0
12°	392.1	264.2	93.3	28.3	11.4	7.7	7.0	6.6	6.2
13°	509.7	345.1	107.7	28.7	10.3	7.3	6.6	6.2	6.2
14°	613.4	417.5	117.2	28.7	9.9	6.6	6.2	6.2	5.9
15°	737.2	488.0	130.1	28.3	9.2	6.2	6.2	5.9	5.5
16°	866.9	593.9	147.4	27.6	8.5	5.5	5.9	5.1	4.8
17°	1038.9	681.3	160.6	26.8	7.7	5.1	5.1	5.1	4.8
18°	1196.2	787.6	171.3	26.1	7.0	5.1	4.8	4.8	4.4
19°	1364.9	872.8	181.9	25.0	6.2	4.4	4.4	4.4	4.0
20°	1478.1	977.5	193.7	23.9	5.5	4.0	4.4	4.0	3.7
21°	1621.4	1071.3	198.1	22.8	4.8	3.7	3.7	3.7	3.3
22.5°	1755.5	1195.8	205.1	20.6	4.0	2.9	3.3	2.9	2.9
23°	1776.1	1222.3	205.1	19.8	3.7	2.9	3.3	2.9	2.9
24°	1844.5	1294.7	207.6	18.4	2.9	2.6	2.9	2.6	2.6
25°	1884.9	1352.0	205.8	16.9	2.6	2.6	2.6	2.6	2.2
26°	1901.4	1367.8	201.4	15.8	2.2	2.2	2.6	2.2	1.8
27°	1918.7	1403.8	195.9	14.3	1.8	2.2	2.2	2.2	1.8
28°	1930.8	1408.3	190.4	13.2	1.5	1.8	2.2	1.8	1.8
29°	1934.9	1414.1	183.7	11.8	1.1	1.5	1.8	1.5	1.5
30°	1931.9	1413.0	174.2	10.7	1.1	1.5	1.5	1.5	1.1
32.5°	1875.7	1381.4	147.7	7.7	0.7	1.1	1.1	1.1	0.7
35°	1746.4	1308.7	120.5	5.1	0.7	0.7	0.7	0.7	0.4
37.5°	1644.2	1199.9	92.2	2.9	0.4	0.7	0.7	0.4	0.0
40°	1524.8	1042.2	66.5	1.8	0.4	0.4	0.4	0.0	0.0
42.5°	1403.5	881.6	45.2	0.7	0.0	0.4	0.4	0.0	0.0
45°	1244.0	675.1	29.8	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1046.3	490.2	20.2	0.0	0.0	0.4	0.0	0.0	0.0
50°	803.0	274.5	11.4	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	529.2	137.1	4.4	0.0	0.4	0.4	0.4	0.0	0.0
55°	256.9	73.5	1.5	0.4	0.4	0.7	0.4	0.0	0.0
57.5°	121.3	28.7	0.4	0.4	0.7	0.7	0.4	0.0	0.0
60°	34.5	5.9	0.4	0.4	0.7	0.7	0.4	0.4	0.0
62.5°	4.8	0.7	0.4	0.7	0.7	0.7	0.7	0.4	0.0
65°	1.5	0.4	0.4	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°
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	0.4	0.7	0.7	0.7	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	0.7	0.7	0.7	0.4	0.4
77.5°	0.0	0.4	0.7	0.7	1.1	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
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	0.4	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)