

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: P496776

Luminaire Tested: **LDA2B109727R20D010 2LBDL1MMS-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: P496776
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: LDA2B109727R20D010 2LBDL1MMS-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

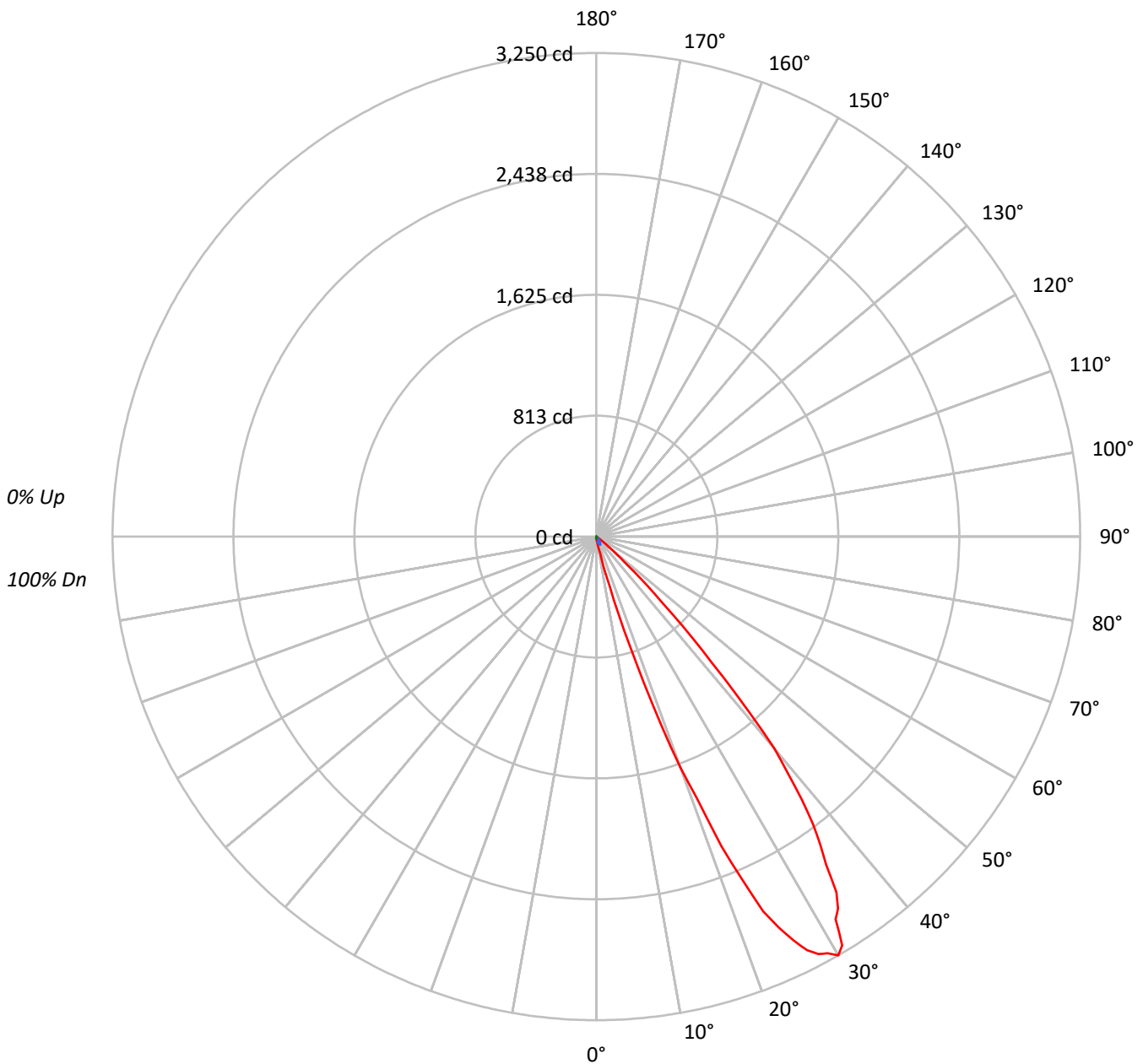
Lumens per Lamp: N/A
Luminaire Lumens: 410.3 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6512	6512	6512
5°	12480	5745	4210
10°	29808	5060	2856
15°	173558	4035	1124
20°	865766	2468	315
25°	1578657	871	0
30°	1851534	0	0
35°	1620564	0	0
40°	1196752	0	0
45°	431400	0	0
50°	89802	0	0
55°	20558	258	0
60°	6512	296	0
65°	1518	700	0
70°	0	865	433
75°	0	1144	0
80°	0	1705	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	22.5	5.5
20°-30°	152.0	37.0
30°-40°	177.5	43.3
40°-50°	51.8	12.6
50°-60°	3.5	0.8
60°-70°	0.6	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°	176.0	42.9
0°-40°	353.6	86.2
0°-60°	408.8	99.6
0°-90°	410.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	25	18	12	10	8	3
15°	340	38	8	4	2	177
25°	2900	60	2	0	0	1284
35°	2691	32	0	0	0	1653
45°	618	7	0	0	0	570
55°	24	1	0	0	0	30
65°	1	1	1	1	0	2
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°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	17.0	17.0	15.1	13.5	12.3	11.6	11.3	10.7	10.4
5°	25.2	22.0	18.2	14.2	11.6	10.7	9.8	8.8	8.5
7.5°	36.8	32.1	22.0	14.5	11.0	9.4	8.5	7.6	6.9
10°	59.5	46.3	27.1	14.5	10.1	8.2	6.9	6.0	5.7
12.5°	109.8	70.8	32.4	14.2	9.1	6.9	5.3	4.7	3.8
15°	339.8	146.6	38.4	13.5	7.9	5.3	4.1	2.5	2.2
17.5°	878.8	342.3	42.8	12.0	6.3	3.8	1.9	1.6	1.6
20°	1649.0	620.8	49.1	10.4	4.7	2.5	1.3	0.9	0.6
21°	1881.2	759.5	52.2	9.8	4.1	1.6	0.9	0.3	0.3
22°	2242.1	910.9	54.7	9.1	3.5	0.9	0.6	0.3	0.0
23°	2499.1	1007.5	57.3	8.2	2.5	0.9	0.3	0.0	0.0
24°	2756.2	1130.5	58.8	7.6	2.2	0.6	0.3	0.0	0.0
25°	2900.0	1233.0	59.5	6.9	1.6	0.3	0.0	0.0	0.0
26°	3018.3	1301.6	59.8	6.3	0.9	0.0	0.0	0.0	0.0
27°	3119.6	1381.2	59.2	5.7	0.9	0.0	0.0	0.0	0.0
28°	3177.2	1394.4	58.2	5.0	0.3	0.0	0.0	0.0	0.0
29°	3202.0	1378.4	55.4	4.4	0.3	0.0	0.0	0.0	0.0
30°	3250.1	1363.3	52.5	4.1	0.0	0.0	0.0	0.0	0.0
31°	3205.8	1313.3	49.1	3.5	0.0	0.0	0.0	0.0	0.0
32°	3032.1	1271.1	45.0	2.8	0.0	0.0	0.0	0.0	0.0
33°	2980.2	1184.6	40.6	2.5	0.0	0.0	0.0	0.0	0.0
34°	2882.3	1055.9	36.8	2.2	0.0	0.0	0.0	0.0	0.0
35°	2690.7	949.6	32.1	1.9	0.0	0.0	0.0	0.0	0.0
36°	2557.0	828.1	28.0	1.6	0.0	0.0	0.0	0.0	0.0
37°	2417.0	722.1	24.9	1.3	0.0	0.0	0.0	0.0	0.0
38°	2243.0	610.7	21.1	0.9	0.0	0.0	0.0	0.0	0.0
39°	2040.4	504.7	17.9	0.9	0.0	0.0	0.0	0.0	0.0
40°	1858.2	406.8	15.4	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1146.8	232.2	9.1	0.6	0.0	0.0	0.0	0.0	0.0
45°	618.3	141.0	6.6	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	284.7	65.8	4.7	0.3	0.0	0.0	0.0	0.0	0.0
50°	117.0	29.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	42.2	16.4	2.2	0.0	0.0	0.3	0.0	0.0	0.0
55°	23.9	9.4	1.3	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	11.3	5.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	6.6	2.8	0.3	0.3	0.3	0.6	0.3	0.0	0.0
62.5°	3.1	0.9	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.3	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.0
67.5°	0.3	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.3
70°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.3
72.5°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.3
75°	0.0	0.3	0.6	0.6	0.6	0.6	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	0.3	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)