

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: P497013

Luminaire Tested: **LDA2B109730R30D010 2LBD1MMS-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: P497013
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: LDA2B109730R30D010 2LBD1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

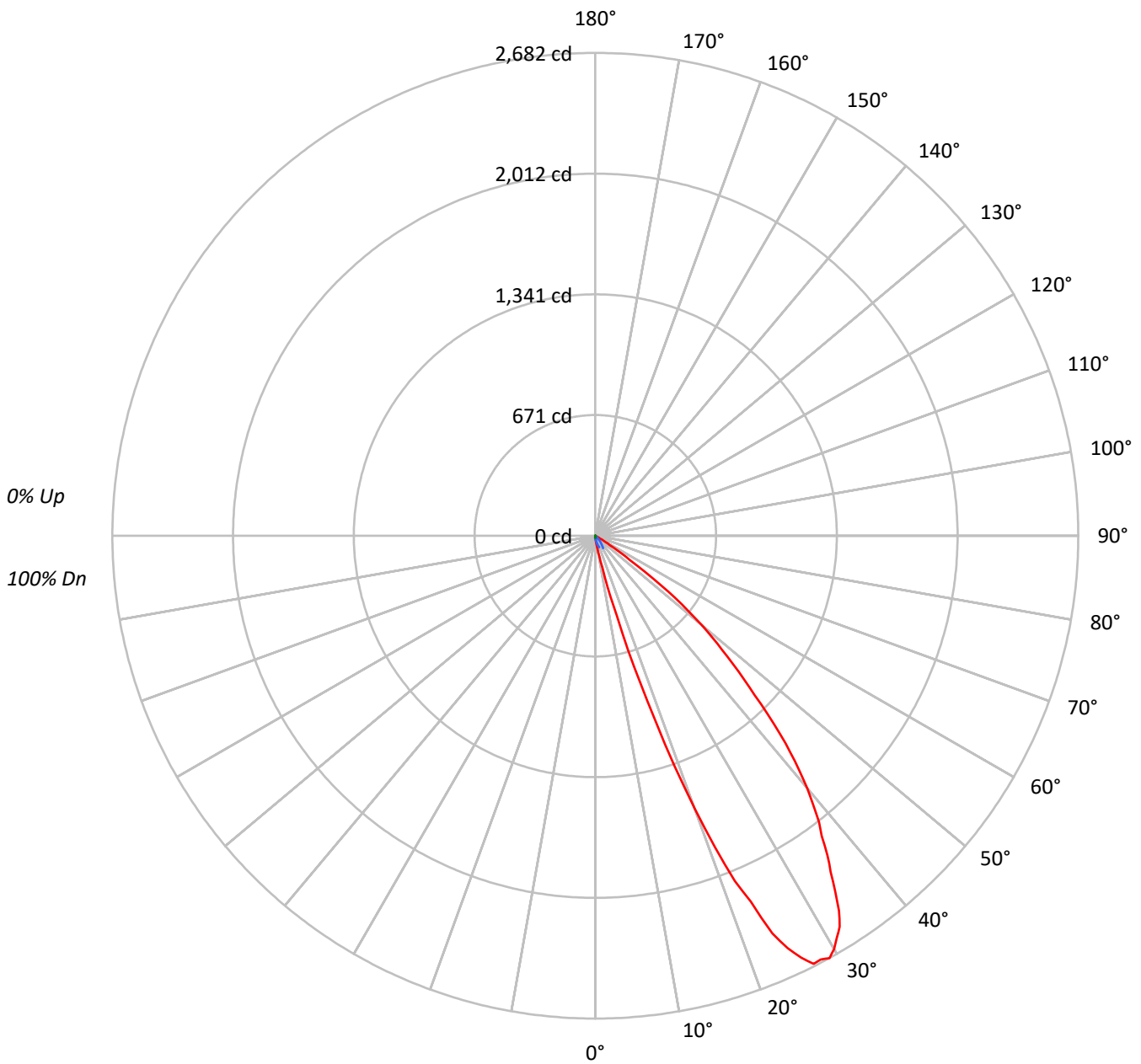
Lumens per Lamp: N/A
Luminaire Lumens: 539.6 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{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	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	57	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°	5970	5970	5970
5°	12975	5448	3863
10°	38976	4709	2555
15°	236536	3371	1992
20°	846865	1838	840
25°	1376262	653	0
30°	1510463	228	0
35°	1372664	0	0
40°	1178139	0	0
45°	873265	0	0
50°	590464	0	0
55°	199469	344	0
60°	28516	789	0
65°	2335	934	0
70°	0	1154	0
75°	0	2287	0
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.3
10°-20°	27.8	5.2
20°-30°	157.8	29.2
30°-40°	205.6	38.1
40°-50°	120.4	22.3
50°-60°	24.3	4.5
60°-70°	0.9	0.2
70°-80°	0.7	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°	187.1	34.7
0°-40°	392.7	72.8
0°-60°	537.4	99.6
0°-90°	539.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	539.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	26	19	11	9	8	4
15°	463	53	7	4	4	196
25°	2528	89	1	1	0	1118
35°	2279	65	0	0	0	1419
45°	1252	16	0	0	0	978
55°	232	2	0	0	0	271
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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	16.4	15.3	14.5	12.5	11.3	10.6	10.2	9.8	9.4
5°	26.2	24.2	18.8	13.7	11.0	9.4	8.6	7.8	7.8
7.5°	45.0	36.4	24.6	14.5	10.2	8.2	7.4	6.3	5.9
10°	77.8	60.6	33.6	15.3	9.4	7.4	5.9	5.5	5.1
12.5°	182.7	110.7	42.6	15.3	8.2	6.3	5.1	4.7	4.3
15°	463.1	225.7	52.8	14.5	6.6	4.7	4.3	3.9	3.9
17.5°	960.6	463.5	64.1	13.3	5.5	3.5	3.1	2.7	2.7
20°	1613.0	830.8	75.1	11.3	3.5	2.3	2.0	1.6	1.6
21°	1853.2	964.1	80.6	10.6	3.1	2.0	1.6	1.6	1.2
22°	2069.1	1086.5	83.7	10.2	2.3	1.6	1.6	1.2	1.2
23°	2208.3	1241.8	86.4	9.0	2.0	1.2	1.2	0.8	0.4
24°	2418.3	1363.5	87.6	8.2	1.6	1.2	0.8	0.4	0.4
25°	2528.2	1473.8	88.8	7.4	1.2	1.2	0.8	0.4	0.0
26°	2607.3	1561.0	93.1	7.0	1.2	0.8	0.8	0.4	0.0
27°	2669.0	1616.5	95.4	6.3	0.8	0.8	0.8	0.0	0.0
28°	2665.5	1656.8	93.5	5.5	0.8	0.8	0.4	0.0	0.0
29°	2682.3	1684.2	92.3	4.7	0.4	0.4	0.4	0.0	0.0
30°	2651.4	1686.5	88.0	4.3	0.4	0.4	0.4	0.0	0.0
31°	2604.5	1658.0	86.4	3.9	0.0	0.4	0.4	0.0	0.0
32°	2560.3	1645.1	81.4	3.1	0.0	0.4	0.4	0.0	0.0
33°	2484.4	1587.2	76.3	2.7	0.0	0.4	0.0	0.0	0.0
34°	2382.7	1530.5	71.6	2.3	0.0	0.4	0.0	0.0	0.0
35°	2279.1	1483.5	64.9	2.3	0.0	0.4	0.0	0.0	0.0
36°	2193.0	1398.3	60.2	2.0	0.0	0.4	0.0	0.0	0.0
37°	2088.6	1325.1	54.0	1.6	0.0	0.0	0.0	0.0	0.0
38°	2017.4	1222.3	49.3	1.6	0.0	0.0	0.0	0.0	0.0
39°	1921.6	1135.4	43.4	1.2	0.0	0.0	0.0	0.0	0.0
40°	1829.3	1045.5	37.5	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1564.5	806.5	25.8	0.4	0.0	0.0	0.0	0.0	0.0
45°	1251.6	591.4	16.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	993.9	399.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	769.3	205.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	511.6	87.2	3.5	0.0	0.0	0.4	0.0	0.0	0.0
55°	231.9	45.4	1.6	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	93.5	19.6	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	28.9	5.5	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	5.9	1.2	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	2.0	0.4	0.4	0.8	0.8	0.8	0.8	0.0	0.0
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	1.2	1.2	0.8	0.4	0.0
77.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	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	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	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)