

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: P495510

Luminaire Tested: **LDA2B109024R30D010 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: P495510
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: LDA2B109024R30D010 2LBDC1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

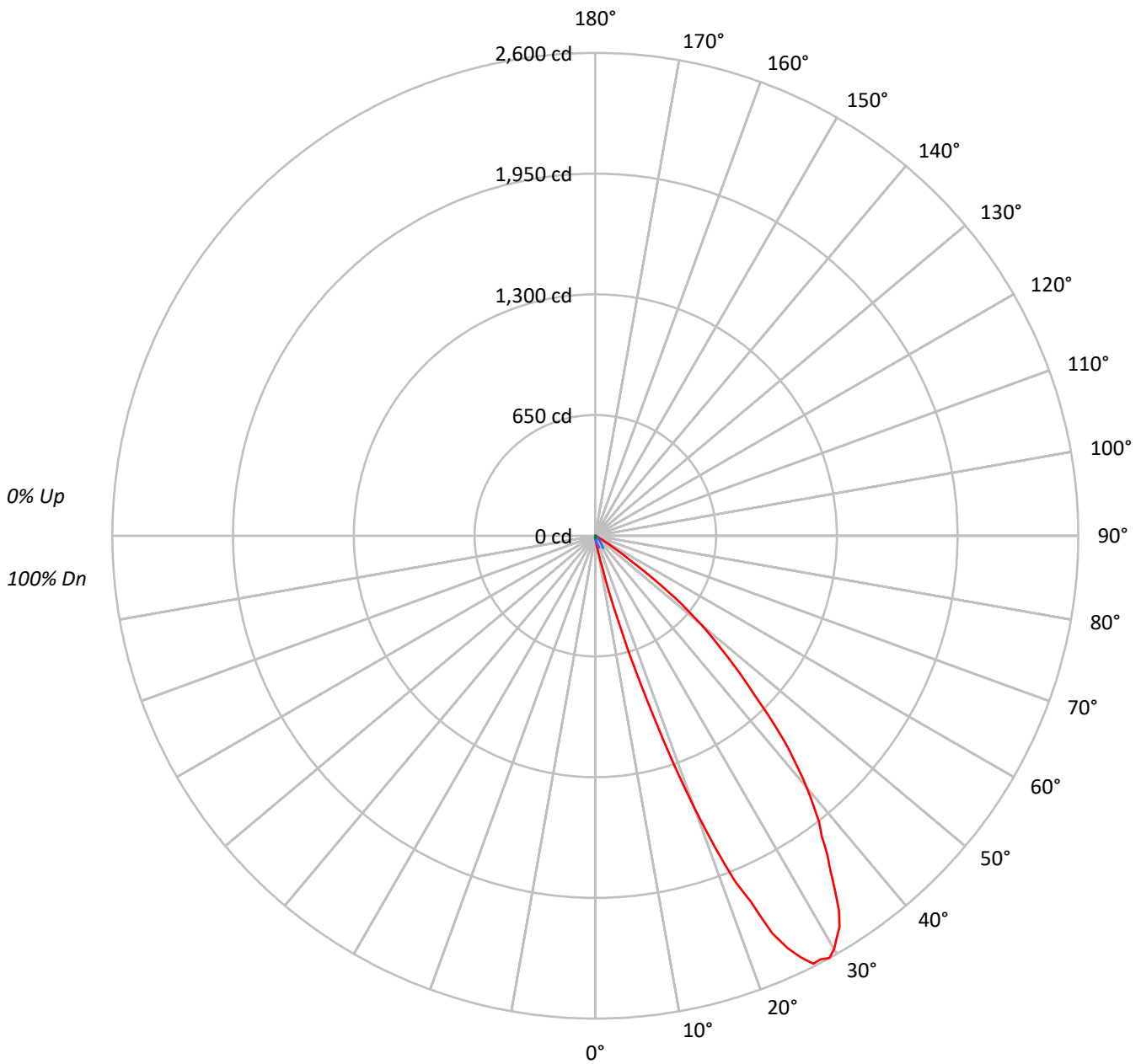
Lumens per Lamp: N/A
Luminaire Lumens: 523.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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°	5822	5822	5822
5°	12579	5250	3764
10°	37773	4559	2455
15°	229232	3269	1941
20°	820719	1785	788
25°	1333802	599	0
30°	1463863	228	0
35°	1330324	0	0
40°	1141815	0	0
45°	846333	0	0
50°	572274	0	0
55°	193362	344	0
60°	27727	789	0
65°	2218	934	0
70°	0	1154	0
75°	0	2097	0
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.3
10°-20°	26.9	5.2
20°-30°	152.9	29.2
30°-40°	199.2	38.1
40°-50°	116.7	22.3
50°-60°	23.6	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°	181.4	34.7
0°-40°	380.6	72.8
0°-60°	520.8	99.6
0°-90°	523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	523.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	25	18	11	8	8	4
15°	449	51	6	4	4	190
25°	2450	86	1	1	0	1084
35°	2209	63	0	0	0	1376
45°	1213	16	0	0	0	948
55°	225	2	0	0	0	262
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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	15.9	14.8	14.0	12.1	11.0	10.2	9.9	9.5	9.1
5°	25.4	23.5	18.2	13.3	10.6	9.1	8.3	7.6	7.6
7.5°	43.6	35.3	23.9	14.0	9.9	8.0	7.2	6.1	5.7
10°	75.4	58.8	32.6	14.8	9.1	7.2	5.7	5.3	4.9
12.5°	177.0	107.3	41.3	14.8	8.0	6.1	4.9	4.5	4.2
15°	448.8	218.7	51.2	14.0	6.4	4.5	4.2	3.8	3.8
17.5°	931.0	449.2	62.2	12.9	5.3	3.4	3.0	2.7	2.7
20°	1563.2	805.1	72.8	11.0	3.4	2.3	1.9	1.5	1.5
21°	1796.0	934.4	78.1	10.2	3.0	1.9	1.5	1.5	1.1
22°	2005.2	1053.0	81.1	9.9	2.3	1.5	1.5	1.1	1.1
23°	2140.2	1203.5	83.8	8.7	1.9	1.1	1.1	0.8	0.4
24°	2343.7	1321.4	84.9	8.0	1.5	1.1	0.8	0.4	0.4
25°	2450.2	1428.3	86.0	7.2	1.1	1.1	0.8	0.4	0.0
26°	2526.8	1512.8	90.2	6.8	1.1	0.8	0.8	0.4	0.0
27°	2586.7	1566.7	92.5	6.1	0.8	0.8	0.8	0.0	0.0
28°	2583.3	1605.7	90.6	5.3	0.8	0.8	0.4	0.0	0.0
29°	2599.6	1632.2	89.5	4.5	0.4	0.4	0.4	0.0	0.0
30°	2569.6	1634.5	85.3	4.2	0.4	0.4	0.4	0.0	0.0
31°	2524.2	1606.8	83.8	3.8	0.0	0.4	0.4	0.0	0.0
32°	2481.3	1594.3	78.8	3.0	0.0	0.4	0.4	0.0	0.0
33°	2407.8	1538.2	73.9	2.7	0.0	0.4	0.0	0.0	0.0
34°	2309.2	1483.3	69.4	2.3	0.0	0.4	0.0	0.0	0.0
35°	2208.8	1437.8	62.9	2.3	0.0	0.4	0.0	0.0	0.0
36°	2125.4	1355.1	58.4	1.9	0.0	0.4	0.0	0.0	0.0
37°	2024.2	1284.3	52.3	1.5	0.0	0.0	0.0	0.0	0.0
38°	1955.2	1184.6	47.8	1.5	0.0	0.0	0.0	0.0	0.0
39°	1862.3	1100.4	42.1	1.1	0.0	0.0	0.0	0.0	0.0
40°	1772.9	1013.2	36.4	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1516.2	781.6	25.0	0.4	0.0	0.0	0.0	0.0	0.0
45°	1213.0	573.1	15.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	963.2	387.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	745.6	199.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	495.8	84.5	3.4	0.0	0.0	0.4	0.0	0.0	0.0
55°	224.8	44.0	1.5	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	90.6	19.0	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	28.1	5.3	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	5.7	1.1	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	1.9	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	1.1	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	1.1	1.1	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)