

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: P492909

Luminaire Tested: **LDA2B059027R30D010 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: P492909
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: LDA2B059027R30D010 2LBD1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

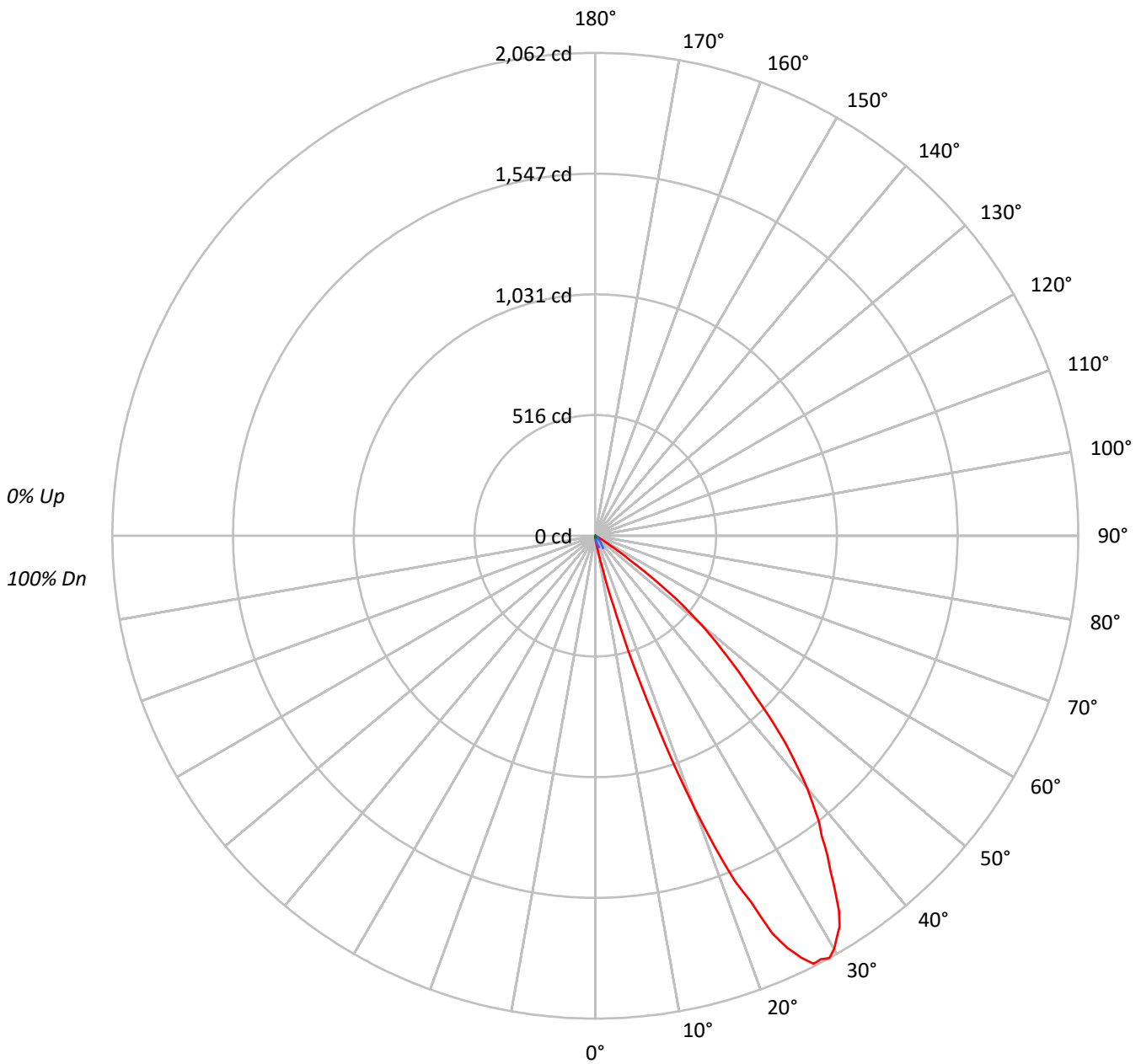
Lumens per Lamp: N/A
Luminaire Lumens: 414.7 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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	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°	4588	4588	4588
5°	9954	4160	2971
10°	29958	3607	1954
15°	181833	2605	1532
20°	650926	1418	630
25°	1057864	490	0
30°	1161018	171	0
35°	1055080	0	0
40°	905582	0	0
45°	671206	0	0
50°	453920	0	0
55°	153365	258	0
60°	21905	592	0
65°	1751	700	0
70°	0	865	0
75°	0	1716	0
80°	0	1705	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.3
10°-20°	21.4	5.2
20°-30°	121.3	29.2
30°-40°	158.0	38.1
40°-50°	92.5	22.3
50°-60°	18.7	4.5
60°-70°	0.7	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°	143.8	34.7
0°-40°	301.8	72.8
0°-60°	413.1	99.6
0°-90°	414.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	414.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	14	8	7	6	3
15°	356	41	5	3	3	151
25°	1943	68	1	1	0	859
35°	1752	50	0	0	0	1091
45°	962	12	0	0	0	751
55°	178	1	0	0	0	208
65°	2	0	1	1	0	4
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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	12.6	11.7	11.1	9.6	8.7	8.1	7.8	7.5	7.2
5°	20.1	18.6	14.4	10.5	8.4	7.2	6.6	6.0	6.0
7.5°	34.6	28.0	18.9	11.1	7.8	6.3	5.7	4.8	4.5
10°	59.8	46.6	25.9	11.7	7.2	5.7	4.5	4.2	3.9
12.5°	140.4	85.1	32.8	11.7	6.3	4.8	3.9	3.6	3.3
15°	356.0	173.5	40.6	11.1	5.1	3.6	3.3	3.0	3.0
17.5°	738.4	356.3	49.3	10.2	4.2	2.7	2.4	2.1	2.1
20°	1239.8	638.6	57.7	8.7	2.7	1.8	1.5	1.2	1.2
21°	1424.4	741.1	61.9	8.1	2.4	1.5	1.2	1.2	0.9
22°	1590.4	835.2	64.3	7.8	1.8	1.2	1.2	0.9	0.9
23°	1697.4	954.5	66.4	6.9	1.5	0.9	0.9	0.6	0.3
24°	1858.8	1048.0	67.3	6.3	1.2	0.9	0.6	0.3	0.3
25°	1943.3	1132.8	68.2	5.7	0.9	0.9	0.6	0.3	0.0
26°	2004.1	1199.8	71.6	5.4	0.9	0.6	0.6	0.3	0.0
27°	2051.6	1242.5	73.4	4.8	0.6	0.6	0.6	0.0	0.0
28°	2048.8	1273.5	71.9	4.2	0.6	0.6	0.3	0.0	0.0
29°	2061.8	1294.5	71.0	3.6	0.3	0.3	0.3	0.0	0.0
30°	2038.0	1296.3	67.6	3.3	0.3	0.3	0.3	0.0	0.0
31°	2001.9	1274.4	66.4	3.0	0.0	0.3	0.3	0.0	0.0
32°	1968.0	1264.5	62.5	2.4	0.0	0.3	0.3	0.0	0.0
33°	1909.7	1220.0	58.6	2.1	0.0	0.3	0.0	0.0	0.0
34°	1831.5	1176.4	55.0	1.8	0.0	0.3	0.0	0.0	0.0
35°	1751.8	1140.3	49.9	1.8	0.0	0.3	0.0	0.0	0.0
36°	1685.7	1074.8	46.3	1.5	0.0	0.3	0.0	0.0	0.0
37°	1605.4	1018.6	41.5	1.2	0.0	0.0	0.0	0.0	0.0
38°	1550.7	939.5	37.9	1.2	0.0	0.0	0.0	0.0	0.0
39°	1477.0	872.8	33.4	0.9	0.0	0.0	0.0	0.0	0.0
40°	1406.1	803.6	28.9	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1202.6	619.9	19.8	0.3	0.0	0.0	0.0	0.0	0.0
45°	962.0	454.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	763.9	307.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	591.4	158.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	393.2	67.0	2.7	0.0	0.0	0.3	0.0	0.0	0.0
55°	178.3	34.9	1.2	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	71.9	15.0	0.6	0.3	0.3	0.3	0.3	0.0	0.0
60°	22.2	4.2	0.3	0.3	0.6	0.6	0.3	0.0	0.0
62.5°	4.5	0.9	0.3	0.6	0.6	0.6	0.3	0.0	0.0
65°	1.5	0.3	0.3	0.6	0.6	0.6	0.6	0.0	0.0
67.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
70°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.0
72.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
75°	0.0	0.3	0.6	0.6	0.9	0.9	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	0.0	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)