

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: P493989

Luminaire Tested: **LDA2B059727R30D010 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: P493989
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: LDA2B059727R30D010 2LBD1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

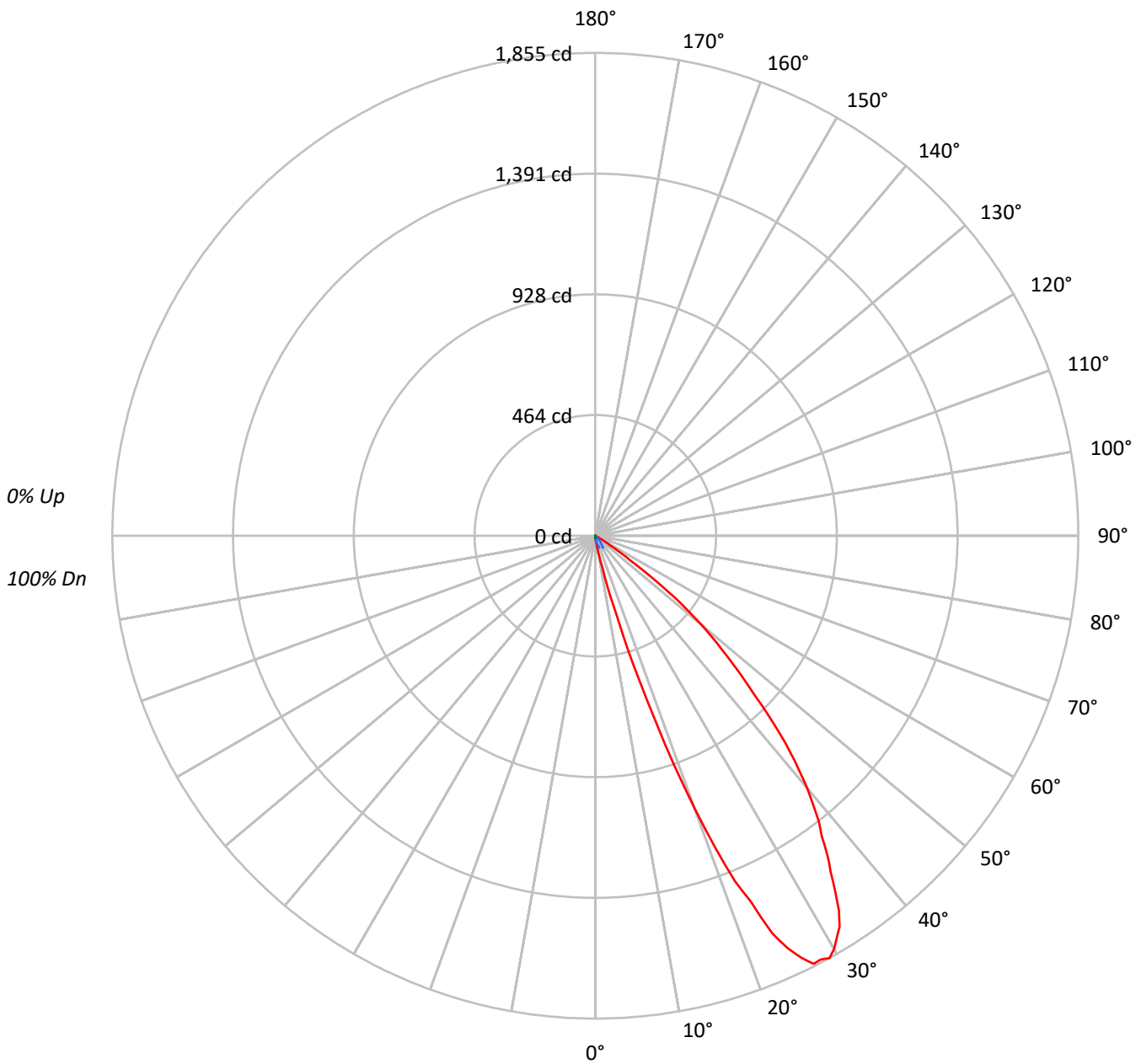
Lumens per Lamp: N/A
Luminaire Lumens: 373.1 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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					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	58	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	45	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°	4144	4144	4144
5°	8964	3764	2674
10°	26952	3256	1753
15°	163598	2350	1379
20°	585717	1260	578
25°	951876	435	0
30°	1044689	171	0
35°	949319	0	0
40°	814837	0	0
45°	603946	0	0
50°	408405	0	0
55°	137968	258	0
60°	19734	493	0
65°	1634	584	0
70°	0	721	0
75°	0	1525	0
80°	0	1421	0
85°	0	2830	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.3
10°-20°	19.2	5.2
20°-30°	109.1	29.2
30°-40°	142.2	38.1
40°-50°	83.3	22.3
50°-60°	16.8	4.5
60°-70°	0.6	0.2
70°-80°	0.4	0.1
80°-90°	0.3	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°	129.4	34.7
0°-40°	271.6	72.8
0°-60°	371.7	99.6
0°-90°	373.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	373.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	8	6	5	3
15°	320	36	5	3	3	136
25°	1749	61	1	0	0	773
35°	1576	45	0	0	0	982
45°	866	11	0	0	0	676
55°	160	1	0	0	0	187
65°	1	0	0	0	0	4
75°	0	0	1	0	0	0
85°	0	0	0	0	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°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	11.4	10.5	10.0	8.7	7.8	7.3	7.0	6.8	6.5
5°	18.1	16.8	13.0	9.5	7.6	6.5	6.0	5.4	5.4
7.5°	31.1	25.2	17.0	10.0	7.0	5.7	5.1	4.3	4.1
10°	53.8	41.9	23.3	10.5	6.5	5.1	4.1	3.8	3.5
12.5°	126.3	76.6	29.5	10.5	5.7	4.3	3.5	3.2	3.0
15°	320.3	156.1	36.5	10.0	4.6	3.2	3.0	2.7	2.7
17.5°	664.4	320.6	44.4	9.2	3.8	2.4	2.2	1.9	1.9
20°	1115.6	574.6	51.9	7.8	2.4	1.6	1.4	1.1	1.1
21°	1281.7	666.8	55.7	7.3	2.2	1.4	1.1	1.1	0.8
22°	1431.0	751.5	57.9	7.0	1.6	1.1	1.1	0.8	0.8
23°	1527.3	858.9	59.8	6.2	1.4	0.8	0.8	0.5	0.3
24°	1672.5	943.0	60.6	5.7	1.1	0.8	0.5	0.3	0.3
25°	1748.6	1019.3	61.4	5.1	0.8	0.8	0.5	0.3	0.0
26°	1803.2	1079.6	64.4	4.9	0.8	0.5	0.5	0.3	0.0
27°	1845.9	1118.0	66.0	4.3	0.5	0.5	0.5	0.0	0.0
28°	1843.5	1145.9	64.7	3.8	0.5	0.5	0.3	0.0	0.0
29°	1855.1	1164.8	63.8	3.2	0.3	0.3	0.3	0.0	0.0
30°	1833.8	1166.4	60.9	3.0	0.3	0.3	0.3	0.0	0.0
31°	1801.3	1146.7	59.8	2.7	0.0	0.3	0.3	0.0	0.0
32°	1770.7	1137.8	56.3	2.2	0.0	0.3	0.3	0.0	0.0
33°	1718.3	1097.7	52.7	1.9	0.0	0.3	0.0	0.0	0.0
34°	1647.9	1058.5	49.5	1.6	0.0	0.3	0.0	0.0	0.0
35°	1576.2	1026.0	44.9	1.6	0.0	0.3	0.0	0.0	0.0
36°	1516.7	967.1	41.7	1.4	0.0	0.3	0.0	0.0	0.0
37°	1444.5	916.5	37.3	1.1	0.0	0.0	0.0	0.0	0.0
38°	1395.3	845.3	34.1	1.1	0.0	0.0	0.0	0.0	0.0
39°	1329.0	785.3	30.0	0.8	0.0	0.0	0.0	0.0	0.0
40°	1265.2	723.1	26.0	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	1082.0	557.8	17.9	0.3	0.0	0.0	0.0	0.0	0.0
45°	865.6	409.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	687.4	276.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	532.1	142.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	353.8	60.3	2.4	0.0	0.0	0.3	0.0	0.0	0.0
55°	160.4	31.4	1.1	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	64.7	13.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0
60°	20.0	3.8	0.3	0.3	0.5	0.5	0.3	0.0	0.0
62.5°	4.1	0.8	0.3	0.5	0.5	0.5	0.3	0.0	0.0
65°	1.4	0.3	0.3	0.5	0.5	0.5	0.5	0.0	0.0
67.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.0
70°	0.0	0.3	0.5	0.5	0.5	0.8	0.5	0.3	0.0
72.5°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0
75°	0.0	0.3	0.5	0.5	0.8	0.8	0.5	0.3	0.0
77.5°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0
80°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	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	0.5	0.5	0.5	0.5	0.5	0.3	0.0
85°	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.0	0.0
87.5°	0.0	0.3	0.5	0.5	0.5	0.5	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)