

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: P499389

Luminaire Tested: **LDA2B159050R30D010 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: P499389
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: LDA2B159050R30D010 2LBD1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

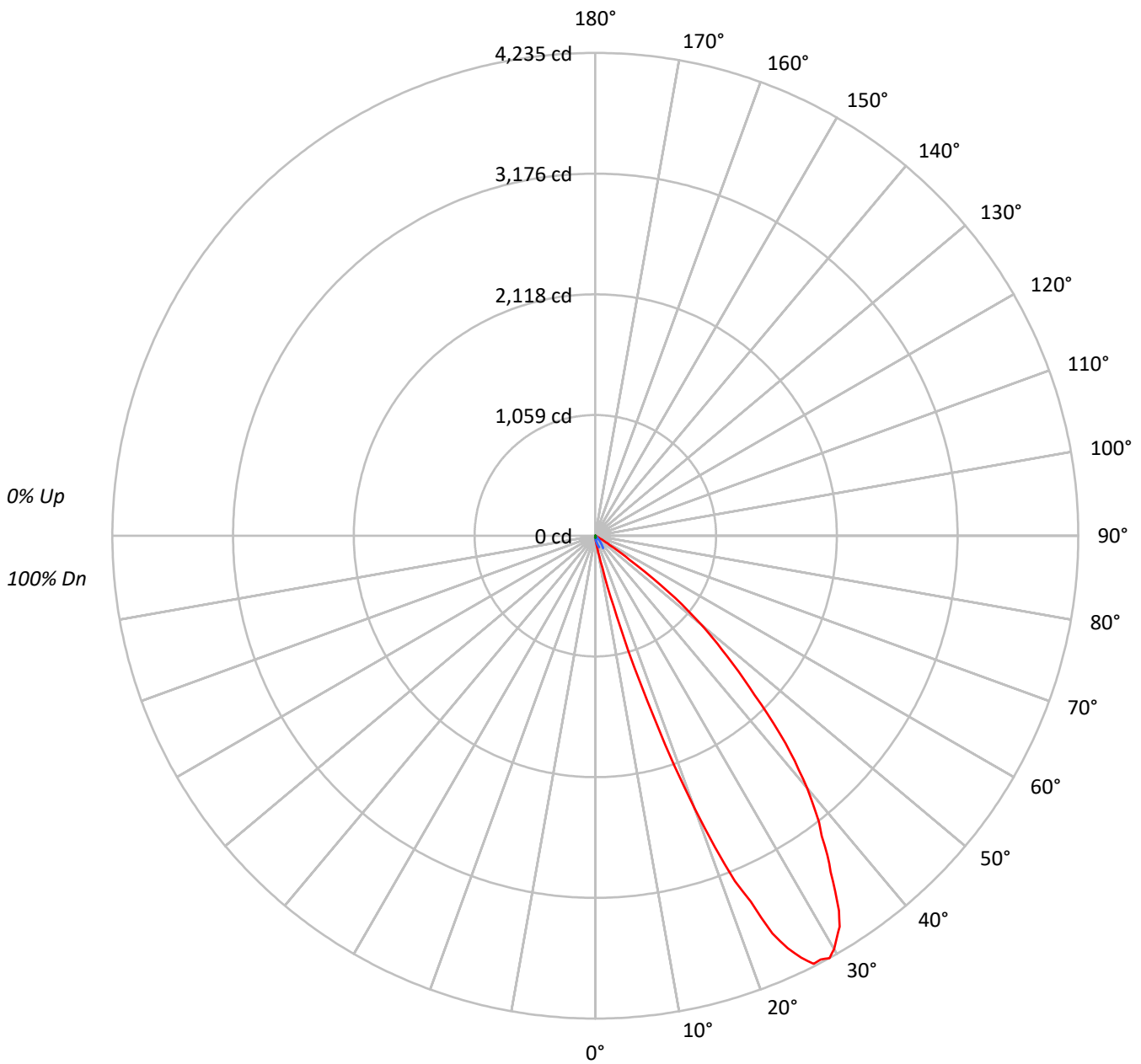
Lumens per Lamp: N/A
Luminaire Lumens: 851.8 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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

TEST NUMBER: P499389

CATALOG NUMBER: LDA2B159050R30D010 2LBD1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P499389

CATALOG NUMBER: LDA2B159050R30D010 2LBD1MMS-30DEG TILT

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°	9423	9423	9423
5°	20503	8568	6141
10°	61570	7414	4008
15°	373472	5363	3167
20°	1337185	2940	1313
25°	2173158	1034	0
30°	2385044	342	0
35°	2167438	0	0
40°	1860304	0	0
45°	1378902	0	0
50°	932401	0	0
55°	314987	516	0
60°	45093	1184	0
65°	3619	1401	0
70°	0	1731	0
75°	0	3622	0
80°	0	3409	0
85°	0	6793	0



TEST NUMBER: P499389

CATALOG NUMBER: LDA2B159050R30D010 2LBD1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.3
10°-20°	43.9	5.2
20°-30°	249.1	29.2
30°-40°	324.6	38.1
40°-50°	190.1	22.3
50°-60°	38.4	4.5
60°-70°	1.5	0.2
70°-80°	1.0	0.1
80°-90°	0.8	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°	295.5	34.7
0°-40°	620.1	72.8
0°-60°	848.6	99.6
0°-90°	851.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	41	30	17	14	12	6
15°	731	83	10	7	6	309
25°	3992	140	2	1	0	1765
35°	3599	102	0	0	0	2241
45°	1976	25	0	0	0	1544
55°	366	2	1	1	0	427
65°	3	1	1	1	0	9
75°	0	1	2	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P499389

CATALOG NUMBER: LDA2B159050R30D010 2LBD1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	25.9	24.1	22.9	19.8	17.9	16.7	16.1	15.4	14.8
5°	41.4	38.3	29.6	21.6	17.3	14.8	13.6	12.4	12.4
7.5°	71.0	57.4	38.9	22.9	16.1	13.0	11.7	9.9	9.3
10°	122.9	95.7	53.1	24.1	14.8	11.7	9.3	8.6	8.0
12.5°	288.4	174.8	67.3	24.1	13.0	9.9	8.0	7.4	6.8
15°	731.2	356.3	83.4	22.9	10.5	7.4	6.8	6.2	6.2
17.5°	1516.8	731.8	101.3	21.0	8.6	5.6	4.9	4.3	4.3
20°	2546.9	1311.8	118.6	17.9	5.6	3.7	3.1	2.5	2.5
21°	2926.1	1522.4	127.2	16.7	4.9	3.1	2.5	2.5	1.9
22°	3267.1	1715.7	132.2	16.1	3.7	2.5	2.5	1.9	1.9
23°	3486.9	1960.8	136.5	14.2	3.1	1.9	1.9	1.2	0.6
24°	3818.6	2152.9	138.3	13.0	2.5	1.9	1.2	0.6	0.6
25°	3992.1	2327.1	140.2	11.7	1.9	1.9	1.2	0.6	0.0
26°	4116.9	2464.8	147.0	11.1	1.9	1.2	1.2	0.6	0.0
27°	4214.4	2552.5	150.7	9.9	1.2	1.2	1.2	0.0	0.0
28°	4208.9	2616.1	147.6	8.6	1.2	1.2	0.6	0.0	0.0
29°	4235.4	2659.3	145.8	7.4	0.6	0.6	0.6	0.0	0.0
30°	4186.6	2663.0	139.0	6.8	0.6	0.6	0.6	0.0	0.0
31°	4112.5	2618.0	136.5	6.2	0.0	0.6	0.6	0.0	0.0
32°	4042.7	2597.6	128.5	4.9	0.0	0.6	0.6	0.0	0.0
33°	3922.9	2506.2	120.4	4.3	0.0	0.6	0.0	0.0	0.0
34°	3762.4	2416.6	113.0	3.7	0.0	0.6	0.0	0.0	0.0
35°	3598.7	2342.5	102.5	3.7	0.0	0.6	0.0	0.0	0.0
36°	3462.8	2207.9	95.1	3.1	0.0	0.6	0.0	0.0	0.0
37°	3297.9	2092.4	85.2	2.5	0.0	0.0	0.0	0.0	0.0
38°	3185.5	1930.0	77.8	2.5	0.0	0.0	0.0	0.0	0.0
39°	3034.2	1792.9	68.6	1.9	0.0	0.0	0.0	0.0	0.0
40°	2888.5	1650.8	59.3	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	2470.4	1273.5	40.8	0.6	0.0	0.0	0.0	0.0	0.0
45°	1976.3	933.8	25.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1569.3	630.6	16.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	1214.8	324.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	807.8	137.7	5.6	0.0	0.0	0.6	0.0	0.0	0.0
55°	366.2	71.6	2.5	0.0	0.6	0.6	0.6	0.0	0.0
57.5°	147.6	30.9	1.2	0.6	0.6	0.6	0.6	0.0	0.0
60°	45.7	8.6	0.6	0.6	1.2	1.2	0.6	0.0	0.0
62.5°	9.3	1.9	0.6	1.2	1.2	1.2	0.6	0.0	0.0
65°	3.1	0.6	0.6	1.2	1.2	1.2	1.2	0.0	0.0
67.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.0
70°	0.0	0.6	1.2	1.2	1.2	1.9	1.2	0.6	0.0
72.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
75°	0.0	0.6	1.2	1.2	1.9	1.9	1.2	0.6	0.0
77.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
80°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	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	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
85°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.0	0.0
87.5°	0.0	0.6	1.2	1.2	1.2	1.2	0.6	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)