

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1339869

Luminaire Tested: P3A09R159030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R159030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

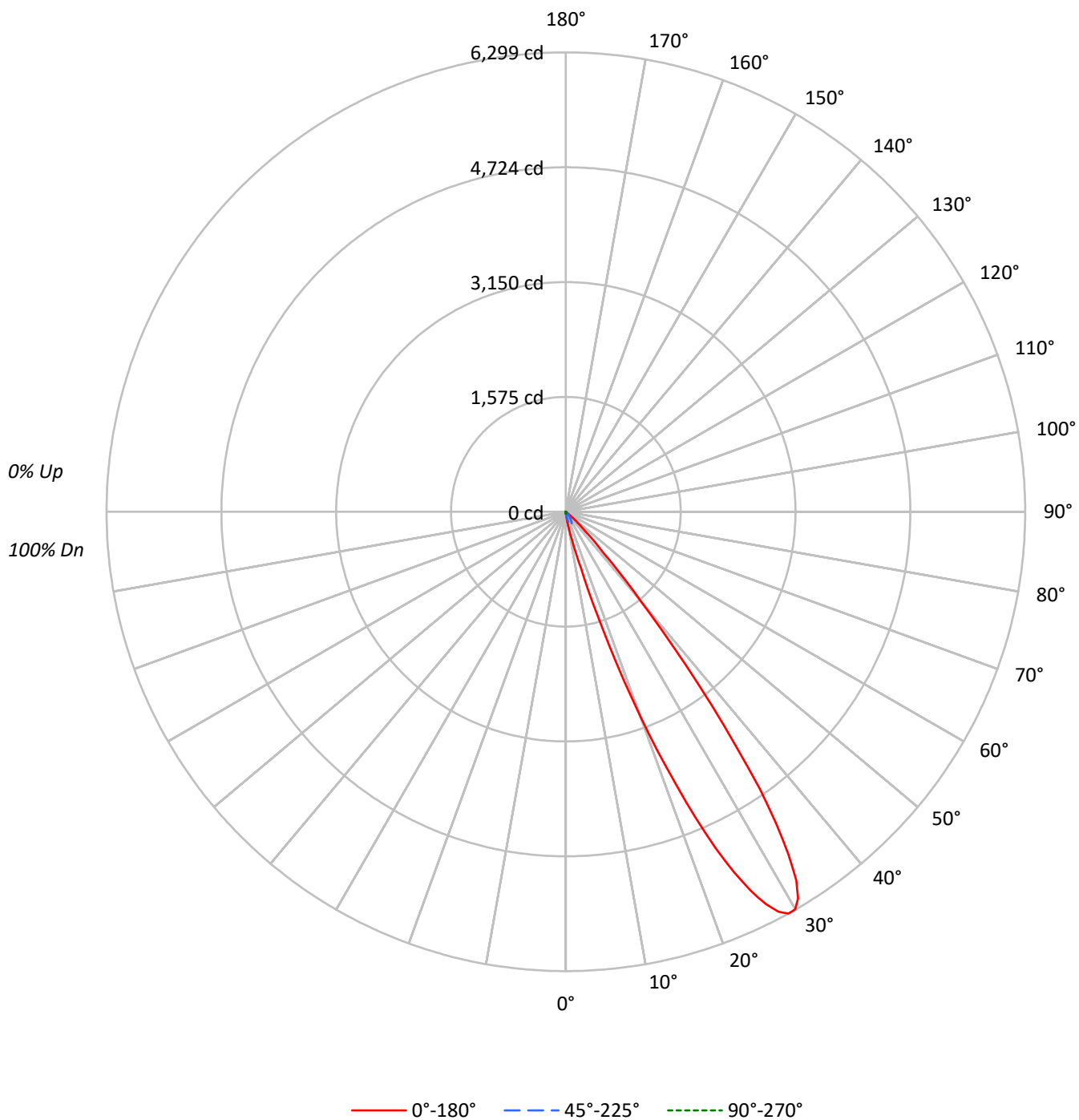
Lumens per Lamp: N/A
Luminaire Lumens: 688.0 lumens
Efficiency: N/A
Efficacy: 46.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5000	5000	5000	5000	5000
5°	10764	7946	4711	2509	2069
10°	47695	15052	3718	1047	735
15°	180342	34802	2588	454	295
20°	693550	49028	1563	163	163
25°	1318866	45995	798	0	0
30°	1593232	37120	329	0	0
35°	1242601	25270	187	0	0
40°	453450	12452	200	0	200
45°	116415	3721	217	0	403
50°	19650	443	239	239	682
55°	2561	0	497	765	1262
60°	307	307	877	1184	1754
65°	363	363	1401	1712	2075
70°	449	449	1731	1731	2116
75°	593	593	2288	1694	2288
80°	0	884	2526	1642	2526
85°	0	1761	5032	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 116415 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	52.7	7.7
20°-30°	292.4	42.5
30°-40°	282.5	41.1
40°-50°	49.1	7.1
50°-60°	3.5	0.5
60°-70°	2.1	0.3
70°-80°	1.7	0.2
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°	348.2	50.6
0°-40°	630.7	91.7
0°-60°	683.4	99.3
0°-90°	688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	688.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	49	36	21	11	9	10
15°	794	153	11	2	1	354
25°	5451	190	3	0	0	2437
35°	4642	94	1	0	0	2670
45°	375	12	1	0	1	403
55°	7	0	1	2	3	13
65°	1	1	3	3	4	1
75°	1	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	33.5	32.1	32.8	32.8	32.8	32.8	32.8	31.5	31.5	32.1	28.8
5°	48.9	48.9	48.2	48.9	48.9	48.2	46.8	46.2	46.2	44.8	36.1
7.5°	97.7	96.4	96.4	95.0	88.3	86.3	85.0	81.6	75.6	74.3	46.8
10°	214.2	214.8	210.1	204.1	203.5	193.4	190.1	184.0	172.7	161.3	67.6
12.5°	388.8	380.1	368.8	369.4	350.0	343.3	327.9	311.2	293.8	275.7	111.1
15°	794.4	769.6	784.4	748.2	707.4	661.2	614.4	555.5	505.3	451.7	153.3
17.5°	1673.1	1697.2	1656.4	1501.8	1406.8	1295.0	1137.7	985.8	856.0	751.6	187.4
20°	2972.1	3007.6	2869.1	2734.6	2503.7	2252.0	1989.7	1692.5	1408.1	1161.8	210.1
21°	3514.9	3493.5	3436.6	3221.1	2954.7	2662.9	2341.7	2013.8	1669.1	1349.2	212.2
22°	4039.6	4049.6	3917.1	3691.6	3414.5	3091.3	2699.1	2294.2	1922.8	1501.8	208.8
23°	4562.3	4594.4	4419.1	4207.6	3858.9	3494.2	3040.4	2603.4	2144.3	1676.5	202.1
24°	5046.2	5024.1	4905.6	4639.2	4266.5	3839.5	3368.3	2838.3	2326.3	1825.7	196.8
25°	5451.0	5448.4	5262.3	5003.3	4577.0	4103.8	3584.5	3030.4	2482.3	1926.8	190.1
26°	5782.3	5728.1	5581.6	5265.7	4844.7	4345.4	3761.9	3170.2	2569.9	1977.6	183.4
27°	6038.0	5999.2	5802.4	5473.8	5034.1	4482.0	3875.6	3239.8	2610.1	1994.4	174.7
28°	6210.0	6167.8	5958.3	5619.7	5138.5	4567.6	3935.9	3269.3	2610.1	1978.3	166.6
29°	6299.0	6241.4	6032.6	5669.9	5162.6	4577.7	3921.1	3240.5	2569.3	1928.8	157.3
30°	6292.3	6220.7	6001.8	5624.4	5091.0	4495.4	3838.8	3136.8	2476.9	1855.2	146.6
31°	6183.9	6103.6	5859.3	5470.5	4943.1	4340.1	3683.6	2997.6	2350.4	1759.5	135.9
32°	5963.7	5862.0	5623.7	5236.2	4715.5	4107.9	3458.0	2782.7	2161.0	1619.6	124.5
33°	5605.0	5502.6	5246.9	4883.5	4407.7	3813.4	3158.9	2551.9	1945.5	1452.9	115.1
34°	5155.9	5062.2	4842.0	4476.0	4019.5	3440.6	2814.9	2232.6	1722.0	1287.6	105.1
35°	4641.9	4492.7	4293.2	4003.5	3558.4	2976.2	2443.4	1935.5	1491.8	1114.3	94.4
36°	3946.6	3973.3	3761.9	3407.2	3038.4	2582.0	2070.7	1613.6	1247.5	949.7	85.0
37°	3330.2	3288.0	3153.5	2879.1	2557.9	2104.8	1735.4	1367.9	1049.4	803.1	75.0
38°	2686.4	2695.7	2563.9	2353.1	2034.5	1730.7	1396.7	1123.7	878.1	683.3	65.6
39°	2102.8	2095.4	2060.0	1864.5	1576.1	1376.6	1131.7	931.6	731.5	576.2	55.5
40°	1584.1	1596.2	1513.2	1395.4	1227.4	1063.4	901.5	742.9	605.0	485.9	43.5
42.5°	770.3	789.0	734.2	704.1	629.8	565.5	477.2	389.5	331.3	286.4	19.4
45°	375.4	364.7	360.1	345.3	327.9	293.1	259.7	222.9	194.8	168.0	12.0
47.5°	192.1	186.7	186.7	180.7	174.7	163.3	146.6	134.5	121.1	104.4	4.7
50°	57.6	56.9	56.2	56.9	54.9	56.9	58.2	58.9	53.5	52.9	1.3
52.5°	22.8	23.4	22.8	24.8	24.8	24.1	24.8	24.1	23.4	20.7	0.0
55°	6.7	6.7	6.7	6.7	6.7	6.7	7.4	8.0	7.4	8.0	0.0
57.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	26.8	23.4	19.4	16.1	14.7	14.1
5°	28.8	21.4	14.7	11.4	10.0	9.4
7.5°	30.8	19.4	11.4	8.0	6.0	5.4
10°	32.1	16.7	8.7	4.7	3.3	3.3
12.5°	32.1	13.4	6.0	2.7	2.0	2.0
15°	31.5	11.4	4.0	2.0	1.3	1.3
17.5°	30.8	8.7	2.7	1.3	0.7	1.3
20°	28.8	6.7	1.3	0.7	0.7	0.7
21°	28.1	6.0	1.3	0.7	0.7	0.7
22°	26.8	5.4	0.7	0.0	0.7	0.7
23°	25.4	4.0	0.7	0.0	0.0	0.0
24°	23.4	3.3	0.7	0.0	0.0	0.0
25°	22.1	3.3	0.7	0.0	0.0	0.0
26°	20.7	2.0	0.0	0.0	0.0	0.0
27°	18.7	1.3	0.0	0.0	0.0	0.0
28°	17.4	1.3	0.0	0.0	0.0	0.0
29°	15.4	1.3	0.0	0.0	0.0	0.0
30°	13.4	1.3	0.0	0.0	0.0	0.0
31°	10.7	0.7	0.0	0.0	0.0	0.0
32°	8.7	0.7	0.0	0.0	0.0	0.0
33°	6.0	0.7	0.0	0.0	0.0	0.0
34°	4.0	0.7	0.0	0.0	0.0	0.0
35°	3.3	0.7	0.0	0.0	0.0	0.0
36°	2.0	0.7	0.0	0.0	0.0	0.7
37°	2.0	0.7	0.0	0.0	0.0	0.7
38°	1.3	0.7	0.0	0.0	0.0	0.7
39°	0.7	0.7	0.0	0.0	0.0	0.7
40°	0.7	0.7	0.0	0.0	0.0	0.7
42.5°	0.0	0.7	0.0	0.0	0.7	1.3
45°	0.0	0.7	0.0	0.0	0.7	1.3
47.5°	0.0	0.7	0.0	0.0	1.3	1.3
50°	0.0	0.7	0.7	0.7	1.3	2.0
52.5°	0.0	1.3	0.7	1.3	2.0	2.7
55°	0.7	1.3	1.3	2.0	2.7	3.3
57.5°	0.7	2.0	2.0	2.7	3.3	3.3
60°	1.3	2.0	2.7	2.7	4.0	4.0
62.5°	1.3	2.7	2.7	2.7	4.0	4.0
65°	1.3	2.7	2.7	3.3	4.0	4.0
67.5°	1.3	2.7	2.7	2.7	3.3	4.0
70°	1.3	2.7	2.0	2.7	3.3	3.3
72.5°	1.3	2.7	2.0	2.0	2.7	3.3
75°	1.3	2.7	2.0	2.0	2.7	2.7
77.5°	1.3	2.0	2.0	1.3	2.0	2.0
80°	1.3	2.0	1.3	1.3	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.3	2.0	1.3	0.7	1.3	1.3
85°	1.3	2.0	1.3	0.7	0.7	0.7
87.5°	1.3	2.0	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)