

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: P1306669

Luminaire Tested: P3SQAS09R159027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R159027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

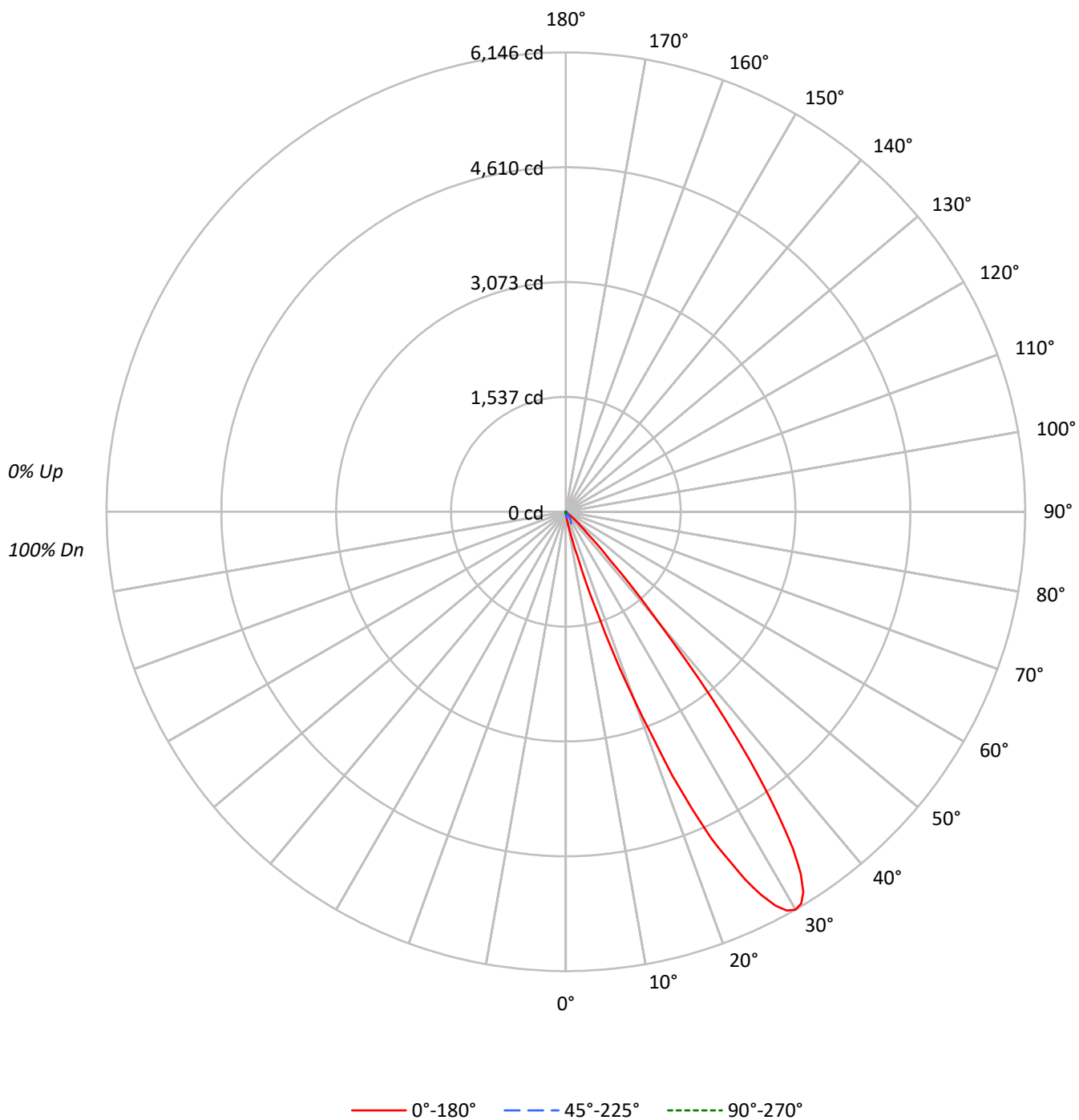
Lumens per Lamp: N/A
Luminaire Lumens: 650.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3996	3996	3996	3996	3996
5°	11583	8748	3423	1418	951
10°	30114	13029	2273	0	0
15°	120405	21324	1212	0	0
20°	491930	31450	385	0	0
25°	972442	31164	0	0	0
30°	1222248	24600	0	0	0
35°	1042857	15096	0	0	0
40°	429340	4766	0	0	0
45°	92894	1997	0	0	0
50°	11896	0	0	0	0
55°	1021	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1057	0	0
75°	0	466	1397	0	0
80°	0	694	2083	0	0
85°	0	1383	4150	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 97229 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	45.6	7.0
20°-30°	265.5	40.8
30°-40°	284.7	43.8
40°-50°	48.0	7.4
50°-60°	1.5	0.2
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	314.2	48.3
0°-40°	598.9	92.1
0°-60°	648.4	99.7
0°-90°	650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	67	51	20	8	6	9
15°	675	120	7	0	0	312
25°	5117	164	0	0	0	2315
35°	4960	72	0	0	0	2851
45°	381	8	0	0	0	451
55°	3	0	1	0	0	9
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	42.4	43.1	43.7	43.7	43.7	43.7	43.1	43.1	43.1	43.1	42.4
5°	67.0	67.0	67.0	67.0	67.0	67.0	66.3	66.3	66.3	66.3	66.3
7.5°	95.7	94.3	95.0	93.0	94.3	93.6	93.0	94.3	94.3	90.9	90.9
10°	172.2	171.6	164.7	166.1	167.5	166.8	166.8	162.7	162.0	159.3	156.5
12.5°	332.2	339.7	345.2	345.2	332.2	337.0	328.1	330.1	331.5	327.4	313.0
15°	675.3	687.6	674.6	686.9	682.1	664.4	644.6	617.9	628.1	609.7	603.5
17.5°	1479.1	1507.1	1495.5	1438.8	1457.2	1413.5	1386.2	1375.9	1347.2	1261.8	1226.2
20°	2684.1	2718.3	2686.2	2619.9	2641.1	2558.4	2537.2	2517.4	2390.2	2343.8	2194.8
21°	3191.3	3219.3	3231.6	3162.6	3120.2	3054.6	2999.9	2982.2	2904.9	2815.4	2662.3
22°	3803.7	3770.9	3697.1	3706.7	3643.8	3589.8	3513.9	3442.2	3356.0	3231.0	3104.5
23°	4310.9	4272.6	4237.8	4195.4	4127.7	4089.4	3980.8	3902.2	3790.1	3656.1	3534.4
24°	4783.2	4724.4	4702.6	4627.4	4608.2	4522.1	4433.9	4331.4	4196.1	4053.2	3918.6
25°	5117.4	5126.3	5107.2	5098.3	5000.6	4912.4	4824.9	4667.0	4551.5	4425.0	4217.9
26°	5475.6	5479.7	5470.1	5404.5	5316.3	5230.2	5117.4	4980.1	4812.6	4672.5	4485.2
27°	5749.7	5733.3	5719.6	5641.7	5569.2	5460.6	5358.0	5195.4	5032.0	4865.2	4647.9
28°	5968.4	5937.7	5920.6	5853.6	5768.8	5635.5	5509.8	5358.0	5194.7	5015.6	4780.5
29°	6100.3	6067.5	6048.4	5974.6	5876.8	5759.9	5632.8	5466.0	5290.4	5090.8	4854.3
30°	6146.1	6127.0	6096.9	6020.4	5919.2	5797.5	5667.0	5485.9	5302.0	5097.6	4847.5
31°	6116.0	6091.4	6062.7	5980.0	5870.7	5754.5	5602.7	5412.7	5219.3	5024.5	4759.3
32°	5996.4	5981.4	5946.5	5835.8	5747.0	5596.6	5446.9	5269.2	5058.0	4848.8	4608.9
33°	5772.2	5747.6	5717.6	5616.4	5502.9	5358.7	5209.7	5027.9	4818.1	4597.3	4333.5
34°	5430.5	5399.0	5361.5	5293.8	5148.9	5023.8	4851.6	4639.0	4465.4	4253.5	4014.9
35°	4960.2	4914.4	4869.3	4818.1	4655.4	4539.9	4423.7	4238.4	4071.0	3871.4	3601.4
36°	4432.6	4414.8	4377.9	4242.5	4189.9	4032.7	3939.1	3726.5	3591.2	3395.7	3172.9
37°	3835.9	3731.3	3784.6	3708.7	3550.2	3500.9	3389.5	3207.0	3060.8	2854.3	2693.0
38°	3196.1	3127.7	3165.3	3088.8	3006.1	2892.6	2807.9	2674.6	2510.5	2348.5	2195.4
39°	2533.1	2477.7	2518.7	2466.8	2341.0	2293.9	2218.7	2116.8	1984.9	1858.5	1713.6
40°	1909.7	1838.6	1893.3	1819.5	1762.1	1684.9	1646.6	1552.9	1470.9	1395.0	1302.8
42.5°	872.2	864.6	852.3	825.7	819.5	820.2	773.1	742.3	700.6	652.1	622.7
45°	381.4	391.0	399.2	384.1	383.4	375.2	372.5	352.0	343.8	328.1	308.9
47.5°	188.0	191.4	189.3	193.4	190.0	184.5	183.2	180.4	172.2	171.6	162.7
50°	44.4	43.7	43.7	44.4	43.7	43.7	43.1	41.7	41.0	41.7	39.6
52.5°	14.4	15.0	14.4	13.7	14.4	15.0	14.4	14.4	14.4	14.4	14.4
55°	3.4	3.4	3.4	3.4	3.4	3.4	2.7	2.7	3.4	3.4	3.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	41.7	35.5	29.4	23.2	17.1	13.7	13.0	12.3
5°	62.9	50.6	33.5	19.8	11.6	8.2	6.2	5.5
7.5°	84.8	62.9	36.9	16.4	8.2	3.4	1.4	0.7
10°	121.7	74.5	38.3	13.0	4.1	0.0	0.0	0.0
12.5°	238.5	85.4	37.6	10.3	0.7	0.0	0.0	0.0
15°	396.4	119.6	34.9	6.8	0.0	0.0	0.0	0.0
17.5°	649.3	154.5	30.1	4.8	0.0	0.0	0.0	0.0
20°	1006.8	171.6	23.2	2.1	0.0	0.0	0.0	0.0
21°	1180.4	172.9	20.5	1.4	0.0	0.0	0.0	0.0
22°	1330.8	172.9	17.8	0.7	0.0	0.0	0.0	0.0
23°	1470.2	170.9	15.7	0.0	0.0	0.0	0.0	0.0
24°	1585.1	168.1	14.4	0.0	0.0	0.0	0.0	0.0
25°	1671.2	164.0	13.0	0.0	0.0	0.0	0.0	0.0
26°	1710.8	158.6	10.9	0.0	0.0	0.0	0.0	0.0
27°	1730.6	151.1	9.6	0.0	0.0	0.0	0.0	0.0
28°	1717.0	142.9	8.2	0.0	0.0	0.0	0.0	0.0
29°	1682.8	134.0	6.2	0.0	0.0	0.0	0.0	0.0
30°	1638.4	123.7	4.8	0.0	0.0	0.0	0.0	0.0
31°	1573.4	113.5	3.4	0.0	0.0	0.0	0.0	0.0
32°	1484.6	103.2	2.7	0.0	0.0	0.0	0.0	0.0
33°	1365.7	92.3	1.4	0.0	0.0	0.0	0.0	0.0
34°	1218.7	81.3	0.7	0.0	0.0	0.0	0.0	0.0
35°	1054.0	71.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	912.5	61.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	770.3	49.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	645.2	39.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	533.8	31.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	442.2	21.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	244.7	14.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	148.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	86.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	32.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.4	1.4	0.7	0.0	0.0	0.0
67.5°	0.0	0.0	1.4	2.1	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)