

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: P1316189

Luminaire Tested: P3SQAS13R159827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316189
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: P3SQAS13R159827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

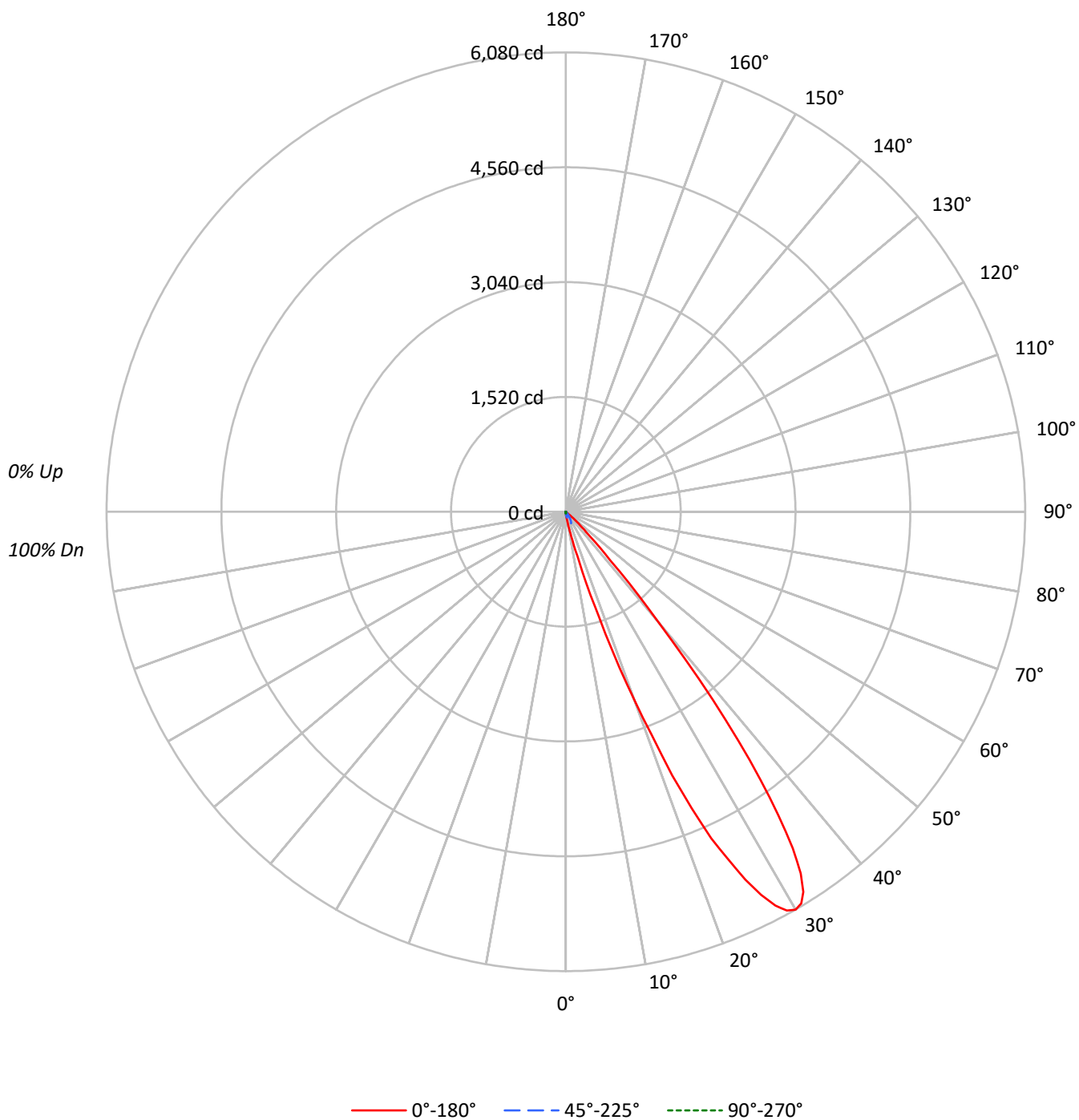
Lumens per Lamp: N/A
Luminaire Lumens: 643.0 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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°	3961	3961	3961	3961	3961
5°	11462	8644	3388	1400	934
10°	29799	12889	2238	0	0
15°	119103	21093	1212	0	0
20°	486633	31102	367	0	0
25°	961972	30841	0	0	0
30°	1209083	24341	0	0	0
35°	1031630	14927	0	0	0
40°	424731	4721	0	0	0
45°	91895	1973	0	0	0
50°	11762	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	1007	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 96182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	45.1	7.0
20°-30°	262.7	40.8
30°-40°	281.6	43.8
40°-50°	47.5	7.4
50°-60°	1.4	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°	310.8	48.3
0°-40°	592.4	92.1
0°-60°	641.4	99.7
0°-90°	643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	66	50	20	8	5	9
15°	668	118	7	0	0	309
25°	5062	162	0	0	0	2290
35°	4907	71	0	0	0	2820
45°	377	8	0	0	0	446
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°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	41.9	42.6	43.3	43.3	43.3	43.3	42.6	42.6	42.6	42.6	41.9
5°	66.3	66.3	66.3	66.3	66.3	66.3	65.6	65.6	65.6	65.6	65.6
7.5°	94.7	93.3	94.0	92.0	93.3	92.6	92.0	93.3	93.3	89.9	89.9
10°	170.4	169.7	163.0	164.3	165.7	165.0	165.0	160.9	160.2	157.5	154.8
12.5°	328.6	336.0	341.5	341.5	328.6	333.3	324.6	326.6	327.9	323.9	309.7
15°	668.0	680.2	667.4	679.5	674.8	657.2	637.6	611.2	621.4	603.1	597.0
17.5°	1463.2	1490.9	1479.4	1423.3	1441.6	1398.3	1371.2	1361.1	1332.7	1248.2	1213.0
20°	2655.2	2689.0	2657.3	2591.7	2612.6	2530.8	2509.9	2490.3	2364.5	2318.5	2171.1
21°	3156.9	3184.7	3196.8	3128.5	3086.6	3021.7	2967.6	2950.0	2873.6	2785.1	2633.6
22°	3762.8	3730.3	3657.3	3666.8	3604.6	3551.1	3476.1	3405.1	3319.9	3196.2	3071.1
23°	4264.5	4226.6	4192.1	4150.2	4083.3	4045.4	3937.9	3860.1	3749.2	3616.7	3496.4
24°	4731.7	4673.5	4651.9	4577.5	4558.6	4473.4	4386.2	4284.8	4150.9	4009.6	3876.4
25°	5062.3	5071.1	5052.2	5043.4	4946.7	4859.5	4772.9	4616.7	4502.5	4377.4	4172.5
26°	5416.6	5420.7	5411.2	5346.3	5259.1	5173.9	5062.3	4926.4	4760.8	4622.2	4436.9
27°	5687.8	5671.5	5658.0	5580.9	5509.3	5401.8	5300.3	5139.4	4977.8	4812.8	4597.8
28°	5904.1	5873.7	5856.8	5790.5	5706.7	5574.9	5450.4	5300.3	5138.7	4961.6	4729.0
29°	6034.6	6002.2	5983.2	5910.2	5813.5	5697.9	5572.1	5407.2	5233.4	5036.0	4802.0
30°	6079.9	6061.0	6031.3	5955.5	5855.5	5735.1	5606.0	5426.8	5244.9	5042.7	4795.3
31°	6050.2	6025.8	5997.4	5915.6	5807.4	5692.5	5542.4	5354.4	5163.1	4970.4	4708.0
32°	5931.9	5917.0	5882.5	5773.0	5685.1	5536.3	5388.2	5212.4	5003.5	4796.6	4559.3
33°	5710.1	5685.7	5656.0	5555.9	5443.7	5301.0	5153.6	4973.8	4766.2	4547.8	4286.8
34°	5372.0	5340.9	5303.7	5236.8	5093.4	4969.7	4799.3	4589.0	4417.3	4207.7	3971.7
35°	4906.8	4861.5	4816.9	4766.2	4605.3	4491.0	4376.0	4192.8	4027.1	3829.7	3562.6
36°	4384.8	4367.2	4330.7	4196.9	4144.8	3989.3	3896.6	3686.4	3552.5	3359.1	3138.7
37°	3794.5	3691.1	3743.8	3668.8	3511.9	3463.2	3353.0	3172.5	3027.8	2823.6	2664.0
38°	3161.7	3094.1	3131.2	3055.5	2973.7	2861.5	2777.6	2645.8	2483.5	2323.2	2171.8
39°	2505.8	2451.0	2491.6	2440.2	2315.8	2269.2	2194.8	2094.0	1963.5	1838.4	1695.1
40°	1889.2	1818.8	1872.9	1799.9	1743.1	1666.7	1628.8	1536.2	1455.1	1380.0	1288.7
42.5°	862.8	855.3	843.2	816.8	810.7	811.4	764.7	734.3	693.1	645.0	616.0
45°	377.3	386.8	394.9	380.0	379.3	371.2	368.5	348.2	340.1	324.6	305.6
47.5°	185.9	189.3	187.3	191.4	188.0	182.6	181.2	178.5	170.4	169.7	160.9
50°	43.9	43.3	43.3	43.9	43.3	43.3	42.6	41.2	40.6	41.2	39.2
52.5°	14.2	14.9	14.2	13.5	14.2	14.9	14.2	14.2	14.2	14.2	14.2
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

TEST NUMBER: P1316189

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	41.2	35.2	29.1	23.0	16.9	13.5	12.8	12.2
5°	62.2	50.0	33.1	19.6	11.5	8.1	6.1	5.4
7.5°	83.8	62.2	36.5	16.2	8.1	3.4	1.4	0.7
10°	120.4	73.7	37.9	12.8	4.1	0.0	0.0	0.0
12.5°	236.0	84.5	37.2	10.1	0.7	0.0	0.0	0.0
15°	392.2	118.3	34.5	6.8	0.0	0.0	0.0	0.0
17.5°	642.3	152.8	29.8	4.7	0.0	0.0	0.0	0.0
20°	996.0	169.7	23.0	2.0	0.0	0.0	0.0	0.0
21°	1167.7	171.1	20.3	1.4	0.0	0.0	0.0	0.0
22°	1316.5	171.1	17.6	0.7	0.0	0.0	0.0	0.0
23°	1454.4	169.0	15.6	0.0	0.0	0.0	0.0	0.0
24°	1568.0	166.3	14.2	0.0	0.0	0.0	0.0	0.0
25°	1653.2	162.3	12.8	0.0	0.0	0.0	0.0	0.0
26°	1692.4	156.9	10.8	0.0	0.0	0.0	0.0	0.0
27°	1712.0	149.4	9.5	0.0	0.0	0.0	0.0	0.0
28°	1698.5	141.3	8.1	0.0	0.0	0.0	0.0	0.0
29°	1664.7	132.5	6.1	0.0	0.0	0.0	0.0	0.0
30°	1620.7	122.4	4.7	0.0	0.0	0.0	0.0	0.0
31°	1556.5	112.2	3.4	0.0	0.0	0.0	0.0	0.0
32°	1468.6	102.1	2.7	0.0	0.0	0.0	0.0	0.0
33°	1350.9	91.3	1.4	0.0	0.0	0.0	0.0	0.0
34°	1205.6	80.5	0.7	0.0	0.0	0.0	0.0	0.0
35°	1042.6	71.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	902.7	60.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	762.0	48.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	638.3	38.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	528.1	31.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	437.5	21.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	242.1	14.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	146.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	85.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.8	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	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.0	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	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.0	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)