

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: P1310191

Luminaire Tested: P3SQAS13R159040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310191
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: P3SQAS13R159040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

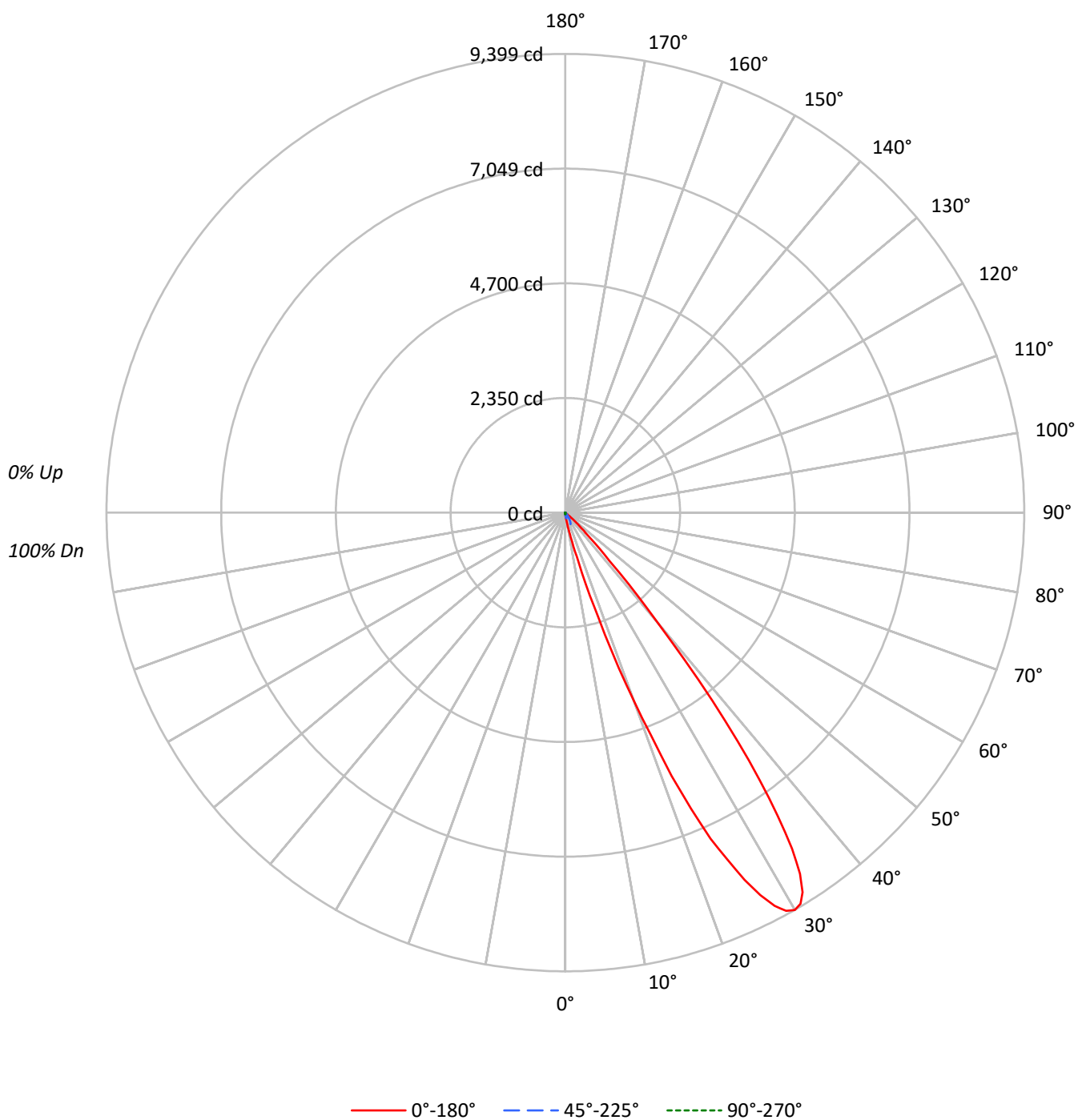
Lumens per Lamp: N/A
Luminaire Lumens: 994.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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				0			
RW	70	50	30	10	70	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						
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°	6114	6114	6114	6114	6114
5°	17703	13364	5238	2161	1452
10°	46063	19919	3480	0	0
15°	184128	32611	1872	0	0
20°	752291	48091	568	0	0
25°	1487092	47678	0	0	0
30°	1869098	37625	0	0	0
35°	1594772	23085	0	0	0
40°	656566	7284	0	0	0
45°	142044	3044	0	0	0
50°	18193	0	0	0	0
55°	1561	0	300	0	0
60°	0	0	723	0	0
65°	0	0	856	0	0
70°	0	504	1561	0	0
75°	0	665	2063	0	0
80°	0	992	3075	0	0
85°	0	1976	6126	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 148669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.5
10°-20°	69.7	7.0
20°-30°	406.0	40.8
30°-40°	435.4	43.8
40°-50°	73.5	7.4
50°-60°	2.2	0.2
60°-70°	0.6	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	480.5	48.3
0°-40°	915.8	92.1
0°-60°	991.5	99.8
0°-90°	994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	102	77	30	12	8	14
15°	1033	183	10	0	0	478
25°	7826	251	0	0	0	3541
35°	7585	110	0	0	0	4359
45°	583	12	0	0	0	689
55°	5	0	1	0	0	13
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	64.8	65.9	66.9	66.9	66.9	66.9	65.9	65.9	65.9	65.9	64.8
5°	102.4	102.4	102.4	102.4	102.4	102.4	101.4	101.4	101.4	101.4	101.4
7.5°	146.3	144.2	145.3	142.2	144.2	143.2	142.2	144.2	144.2	139.0	139.0
10°	263.4	262.4	251.9	254.0	256.1	255.0	255.0	248.8	247.7	243.5	239.4
12.5°	508.0	519.5	527.8	527.8	508.0	515.3	501.7	504.9	506.9	500.7	478.7
15°	1032.7	1051.5	1031.7	1050.5	1043.2	1016.0	985.7	944.9	960.6	932.4	923.0
17.5°	2261.9	2304.8	2287.0	2200.2	2228.5	2161.6	2119.8	2104.1	2060.2	1929.5	1875.2
20°	4104.7	4156.9	4107.8	4006.4	4038.8	3912.4	3879.9	3849.6	3655.2	3584.1	3356.3
21°	4880.2	4923.1	4941.9	4836.3	4771.5	4671.2	4587.6	4560.4	4442.3	4305.4	4071.2
22°	5816.8	5766.6	5653.7	5668.4	5572.2	5489.6	5373.6	5263.9	5132.2	4940.9	4747.5
23°	6592.4	6533.8	6480.5	6415.7	6312.2	6253.7	6087.5	5967.3	5795.9	5591.0	5405.0
24°	7314.6	7224.7	7191.3	7076.3	7047.0	6915.3	6780.5	6623.7	6416.8	6198.3	5992.4
25°	7825.7	7839.3	7810.1	7796.5	7647.0	7512.2	7378.4	7136.9	6960.3	6766.9	6450.2
26°	8373.5	8379.7	8365.1	8264.8	8129.9	7998.2	7825.7	7615.7	7359.6	7145.3	6858.9
27°	8792.6	8767.5	8746.6	8627.5	8516.7	8350.5	8193.7	7944.9	7695.1	7440.1	7107.7
28°	9127.1	9080.0	9053.9	8951.5	8821.9	8618.0	8425.7	8193.7	7943.9	7670.0	7310.4
29°	9328.8	9278.6	9249.4	9136.5	8987.0	8808.3	8613.9	8358.8	8090.2	7785.0	7423.3
30°	9398.8	9369.6	9323.6	9206.5	9051.8	8865.8	8666.1	8389.1	8108.0	7795.4	7412.9
31°	9352.9	9315.2	9271.3	9144.8	8977.6	8799.9	8567.9	8277.3	7981.5	7683.6	7278.0
32°	9169.9	9146.9	9093.6	8924.3	8788.4	8558.5	8329.6	8057.8	7734.8	7415.0	7048.1
33°	8827.1	8789.5	8743.5	8588.8	8415.3	8194.7	7966.9	7688.8	7367.9	7030.3	6626.9
34°	8304.5	8256.4	8198.9	8095.4	7873.8	7682.5	7419.1	7094.1	6828.6	6504.6	6139.8
35°	7585.3	7515.3	7446.3	7367.9	7119.2	6942.5	6764.8	6481.6	6225.5	5920.3	5507.4
36°	6778.4	6751.2	6694.8	6487.8	6407.4	6166.9	6023.7	5698.7	5491.7	5192.8	4852.0
37°	5865.9	5706.0	5787.5	5671.5	5429.0	5353.7	5183.4	4904.3	4680.6	4364.9	4118.3
38°	4887.6	4783.0	4840.5	4723.5	4597.0	4423.5	4293.9	4090.0	3839.2	3591.5	3357.3
39°	3873.7	3789.0	3851.7	3772.3	3580.0	3507.8	3392.9	3237.1	3035.4	2842.0	2620.4
40°	2920.4	2811.7	2895.3	2782.4	2694.6	2576.5	2518.0	2374.8	2249.4	2133.3	1992.2
42.5°	1333.7	1322.2	1303.4	1262.7	1253.2	1254.3	1182.2	1135.1	1071.4	997.2	952.2
45°	583.2	597.9	610.4	587.4	586.4	573.8	569.7	538.3	525.8	501.7	472.5
47.5°	287.4	292.7	289.5	295.8	290.6	282.2	280.1	275.9	263.4	262.4	248.8
50°	67.9	66.9	66.9	67.9	66.9	66.9	65.9	63.8	62.7	63.8	60.6
52.5°	22.0	23.0	22.0	20.9	22.0	23.0	22.0	22.0	22.0	22.0	22.0
55°	5.2	5.2	5.2	5.2	5.2	5.2	4.2	4.2	5.2	5.2	5.2
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°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	63.8	54.4	44.9	35.5	26.1	20.9	19.9	18.8
5°	96.2	77.3	51.2	30.3	17.8	12.5	9.4	8.4
7.5°	129.6	96.2	56.4	25.1	12.5	5.2	2.1	1.0
10°	186.1	113.9	58.5	19.9	6.3	0.0	0.0	0.0
12.5°	364.8	130.7	57.5	15.7	1.0	0.0	0.0	0.0
15°	606.2	182.9	53.3	10.5	0.0	0.0	0.0	0.0
17.5°	993.0	236.2	46.0	7.3	0.0	0.0	0.0	0.0
20°	1539.6	262.4	35.5	3.1	0.0	0.0	0.0	0.0
21°	1805.1	264.4	31.4	2.1	0.0	0.0	0.0	0.0
22°	2035.1	264.4	27.2	1.0	0.0	0.0	0.0	0.0
23°	2248.3	261.3	24.0	0.0	0.0	0.0	0.0	0.0
24°	2423.9	257.1	22.0	0.0	0.0	0.0	0.0	0.0
25°	2555.6	250.9	19.9	0.0	0.0	0.0	0.0	0.0
26°	2616.2	242.5	16.7	0.0	0.0	0.0	0.0	0.0
27°	2646.6	231.0	14.6	0.0	0.0	0.0	0.0	0.0
28°	2625.7	218.5	12.5	0.0	0.0	0.0	0.0	0.0
29°	2573.4	204.9	9.4	0.0	0.0	0.0	0.0	0.0
30°	2505.5	189.2	7.3	0.0	0.0	0.0	0.0	0.0
31°	2406.2	173.5	5.2	0.0	0.0	0.0	0.0	0.0
32°	2270.3	157.8	4.2	0.0	0.0	0.0	0.0	0.0
33°	2088.4	141.1	2.1	0.0	0.0	0.0	0.0	0.0
34°	1863.7	124.4	1.0	0.0	0.0	0.0	0.0	0.0
35°	1611.8	109.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	1395.4	94.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	1178.0	75.3	0.0	0.0	0.0	0.0	0.0	0.0
38°	986.7	59.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	816.3	48.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	676.3	32.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	374.2	22.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	226.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	131.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	50.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.2	0.0	0.0	1.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.0	2.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.0	2.1	1.0	0.0	0.0	0.0
65°	0.0	0.0	2.1	2.1	1.0	0.0	0.0	0.0
67.5°	0.0	0.0	2.1	3.1	1.0	0.0	0.0	0.0
70°	0.0	1.0	2.1	3.1	1.0	0.0	0.0	0.0
72.5°	0.0	1.0	2.1	3.1	1.0	0.0	0.0	0.0
75°	0.0	1.0	2.1	3.1	1.0	0.0	0.0	0.0
77.5°	0.0	1.0	2.1	3.1	1.0	0.0	0.0	0.0
80°	0.0	1.0	2.1	3.1	1.0	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°
82.5°	0.0	1.0	2.1	3.1	1.0	0.0	0.0	0.0
85°	0.0	1.0	2.1	3.1	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	2.1	3.1	1.0	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)