

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: P1311268

Luminaire Tested: P3SQAS13R159050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311268
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: P3SQAS13R159050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

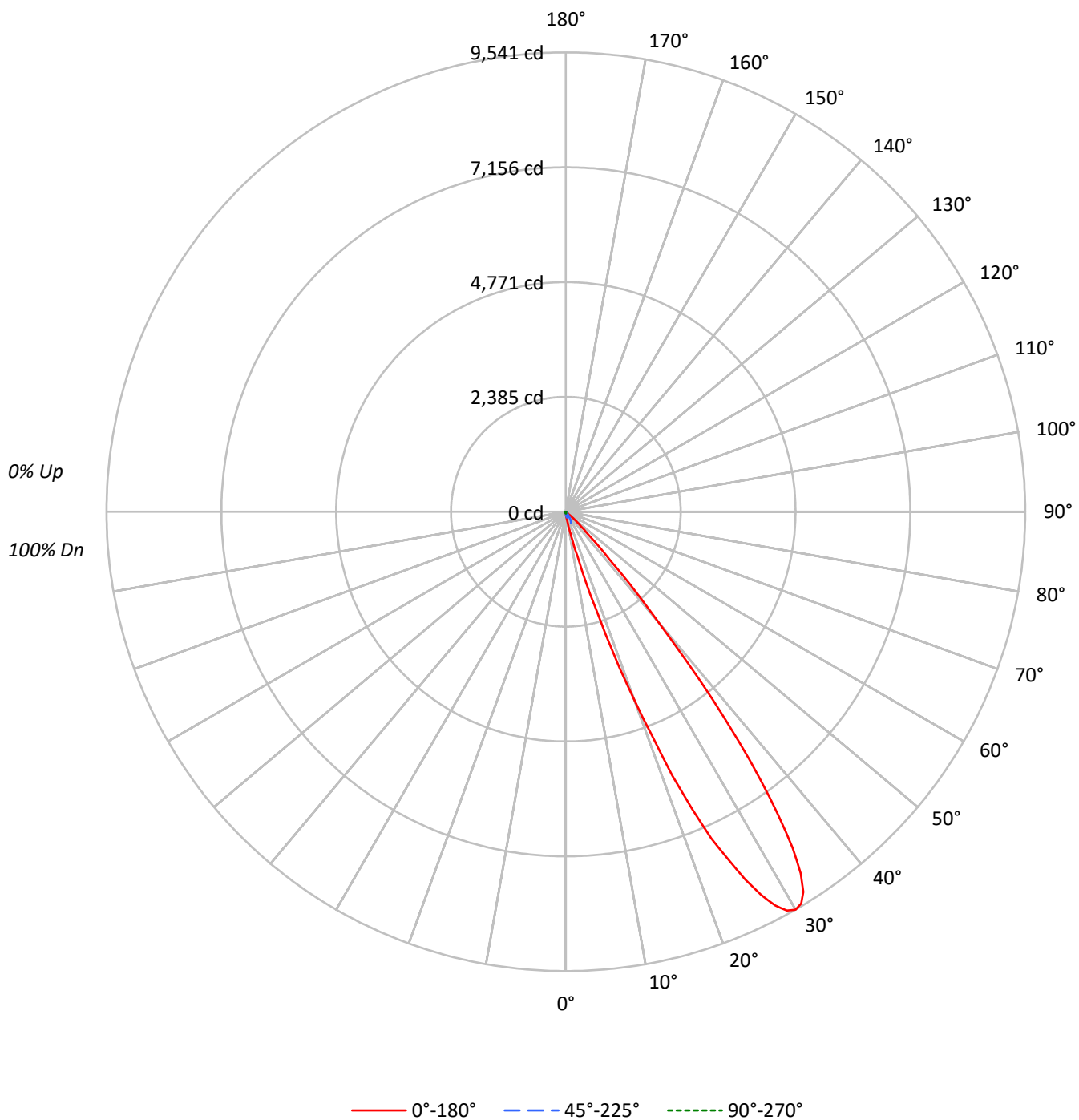
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	6217	6217	6217	6217	6217
5°	17980	13571	5325	2196	1469
10°	46763	20234	3533	0	0
15°	186910	33110	1890	0	0
20°	763636	48806	586	0	0
25°	1509534	48381	0	0	0
30°	1897317	38182	0	0	0
35°	1618845	23421	0	0	0
40°	666481	7397	0	0	0
45°	144187	3093	0	0	0
50°	18487	0	0	0	0
55°	1591	0	330	0	0
60°	0	0	723	0	0
65°	0	0	856	0	0
70°	0	554	1611	0	0
75°	0	732	2129	0	0
80°	0	1091	3174	0	0
85°	0	2174	6323	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 150910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.5
10°-20°	70.7	7.0
20°-30°	412.2	40.8
30°-40°	441.9	43.8
40°-50°	74.6	7.4
50°-60°	2.3	0.2
60°-70°	0.7	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°	487.7	48.3
0°-40°	929.6	92.1
0°-60°	1006.5	99.7
0°-90°	1009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	104	78	31	13	8	14
15°	1048	186	11	0	0	485
25°	7944	255	0	0	0	3594
35°	7700	111	0	0	0	4425
45°	592	13	0	0	0	699
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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	65.8	66.8	67.9	67.9	67.9	67.9	66.8	66.8	66.8	66.8	65.8
5°	104.0	104.0	104.0	104.0	104.0	104.0	102.9	102.9	102.9	102.9	102.9
7.5°	148.5	146.4	147.5	144.3	146.4	145.4	144.3	146.4	146.4	141.1	141.1
10°	267.4	266.3	255.7	257.8	259.9	258.9	258.9	252.5	251.5	247.2	243.0
12.5°	515.7	527.3	535.8	535.8	515.7	523.1	509.3	512.5	514.6	508.2	485.9
15°	1048.3	1067.4	1047.2	1066.3	1058.9	1031.3	1000.5	959.2	975.1	946.4	936.9
17.5°	2296.0	2339.5	2321.5	2233.4	2262.1	2194.2	2151.7	2135.8	2091.3	1958.6	1903.5
20°	4166.6	4219.7	4169.8	4066.9	4099.8	3971.4	3938.5	3907.7	3710.4	3638.2	3406.9
21°	4953.9	4997.4	5016.5	4909.3	4843.5	4741.7	4656.8	4629.2	4509.3	4370.3	4132.7
22°	5904.6	5853.6	5739.0	5753.9	5656.3	5572.5	5454.7	5343.3	5209.6	5015.4	4819.1
23°	6691.8	6632.4	6578.3	6512.5	6407.5	6348.1	6179.4	6057.4	5883.3	5675.4	5486.5
24°	7425.0	7333.8	7299.8	7183.1	7153.4	7019.7	6882.8	6723.7	6513.6	6291.8	6082.8
25°	7943.8	7957.6	7927.9	7914.1	7762.4	7625.5	7489.7	7244.6	7065.3	6869.0	6547.5
26°	8499.8	8506.2	8491.3	8389.5	8252.6	8118.9	7943.8	7730.6	7470.6	7253.1	6962.4
27°	8925.3	8899.8	8878.6	8757.6	8645.2	8476.5	8317.3	8064.8	7811.2	7552.3	7214.9
28°	9264.8	9217.1	9190.5	9086.6	8955.0	8748.1	8552.9	8317.3	8063.7	7785.8	7420.8
29°	9469.6	9418.7	9388.9	9274.4	9122.6	8941.2	8743.9	8485.0	8212.3	7902.5	7535.4
30°	9540.7	9511.0	9464.3	9345.4	9188.4	8999.6	8796.9	8515.7	8230.3	7913.1	7524.7
31°	9494.0	9455.8	9411.2	9282.8	9113.1	8932.7	8697.2	8402.2	8101.9	7799.5	7387.9
32°	9308.3	9285.0	9230.9	9059.0	8921.0	8687.6	8455.3	8179.4	7851.5	7526.9	7154.4
33°	8960.3	8922.1	8875.4	8718.4	8542.3	8318.4	8087.1	7804.8	7479.1	7136.4	6726.9
34°	8429.8	8381.0	8322.6	8217.6	7992.6	7798.5	7531.1	7201.1	6931.6	6602.7	6232.4
35°	7699.8	7628.7	7558.7	7479.1	7226.6	7047.3	6866.9	6579.4	6319.4	6009.6	5590.5
36°	6880.7	6853.1	6795.8	6585.7	6504.0	6260.0	6114.6	5784.7	5574.6	5271.1	4925.2
37°	5954.4	5792.1	5874.9	5757.1	5510.9	5434.5	5261.6	4978.3	4751.2	4430.8	4180.4
38°	4961.3	4855.2	4913.6	4794.7	4666.4	4490.2	4358.7	4151.8	3897.1	3645.7	3408.0
39°	3932.1	3846.2	3909.9	3829.2	3634.0	3560.8	3444.1	3286.0	3081.2	2884.9	2660.0
40°	2964.5	2854.1	2939.0	2824.4	2735.3	2615.4	2556.0	2410.6	2283.3	2165.5	2022.3
42.5°	1353.9	1342.2	1323.1	1281.7	1272.2	1273.2	1200.0	1152.3	1087.5	1012.2	966.6
45°	592.0	606.9	619.6	596.3	595.2	582.5	578.3	546.4	533.7	509.3	479.6
47.5°	291.8	297.1	293.9	300.3	295.0	286.5	284.4	280.1	267.4	266.3	252.5
50°	69.0	67.9	67.9	69.0	67.9	67.9	66.8	64.7	63.7	64.7	61.5
52.5°	22.3	23.3	22.3	21.2	22.3	23.3	22.3	22.3	22.3	22.3	22.3
55°	5.3	5.3	5.3	5.3	5.3	5.3	4.2	4.2	5.3	5.3	5.3
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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	64.7	55.2	45.6	36.1	26.5	21.2	20.2	19.1
5°	97.6	78.5	52.0	30.8	18.0	12.7	9.5	8.5
7.5°	131.6	97.6	57.3	25.5	12.7	5.3	2.1	1.1
10°	188.9	115.7	59.4	20.2	6.4	0.0	0.0	0.0
12.5°	370.3	132.6	58.4	15.9	1.1	0.0	0.0	0.0
15°	615.4	185.7	54.1	10.6	0.0	0.0	0.0	0.0
17.5°	1008.0	239.8	46.7	7.4	0.0	0.0	0.0	0.0
20°	1562.9	266.3	36.1	3.2	0.0	0.0	0.0	0.0
21°	1832.4	268.4	31.8	2.1	0.0	0.0	0.0	0.0
22°	2065.8	268.4	27.6	1.1	0.0	0.0	0.0	0.0
23°	2282.2	265.3	24.4	0.0	0.0	0.0	0.0	0.0
24°	2460.5	261.0	22.3	0.0	0.0	0.0	0.0	0.0
25°	2594.2	254.6	20.2	0.0	0.0	0.0	0.0	0.0
26°	2655.7	246.2	17.0	0.0	0.0	0.0	0.0	0.0
27°	2686.5	234.5	14.9	0.0	0.0	0.0	0.0	0.0
28°	2665.3	221.8	12.7	0.0	0.0	0.0	0.0	0.0
29°	2612.2	208.0	9.5	0.0	0.0	0.0	0.0	0.0
30°	2543.3	192.0	7.4	0.0	0.0	0.0	0.0	0.0
31°	2442.5	176.1	5.3	0.0	0.0	0.0	0.0	0.0
32°	2304.5	160.2	4.2	0.0	0.0	0.0	0.0	0.0
33°	2119.9	143.2	2.1	0.0	0.0	0.0	0.0	0.0
34°	1891.8	126.3	1.1	0.0	0.0	0.0	0.0	0.0
35°	1636.1	111.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	1416.5	95.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	1195.8	76.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	1001.6	60.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	828.7	48.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	686.5	32.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	379.8	22.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	230.2	12.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	133.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	50.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.1	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.1	2.1	1.1	0.0	0.0	0.0
67.5°	0.0	0.0	2.1	3.2	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.1	3.2	1.1	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	1.1	2.1	3.2	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.1	3.2	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.1	3.2	1.1	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)