

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: P1306022

Luminaire Tested: P3SQAS17R159024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306022
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: P3SQAS17R159024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

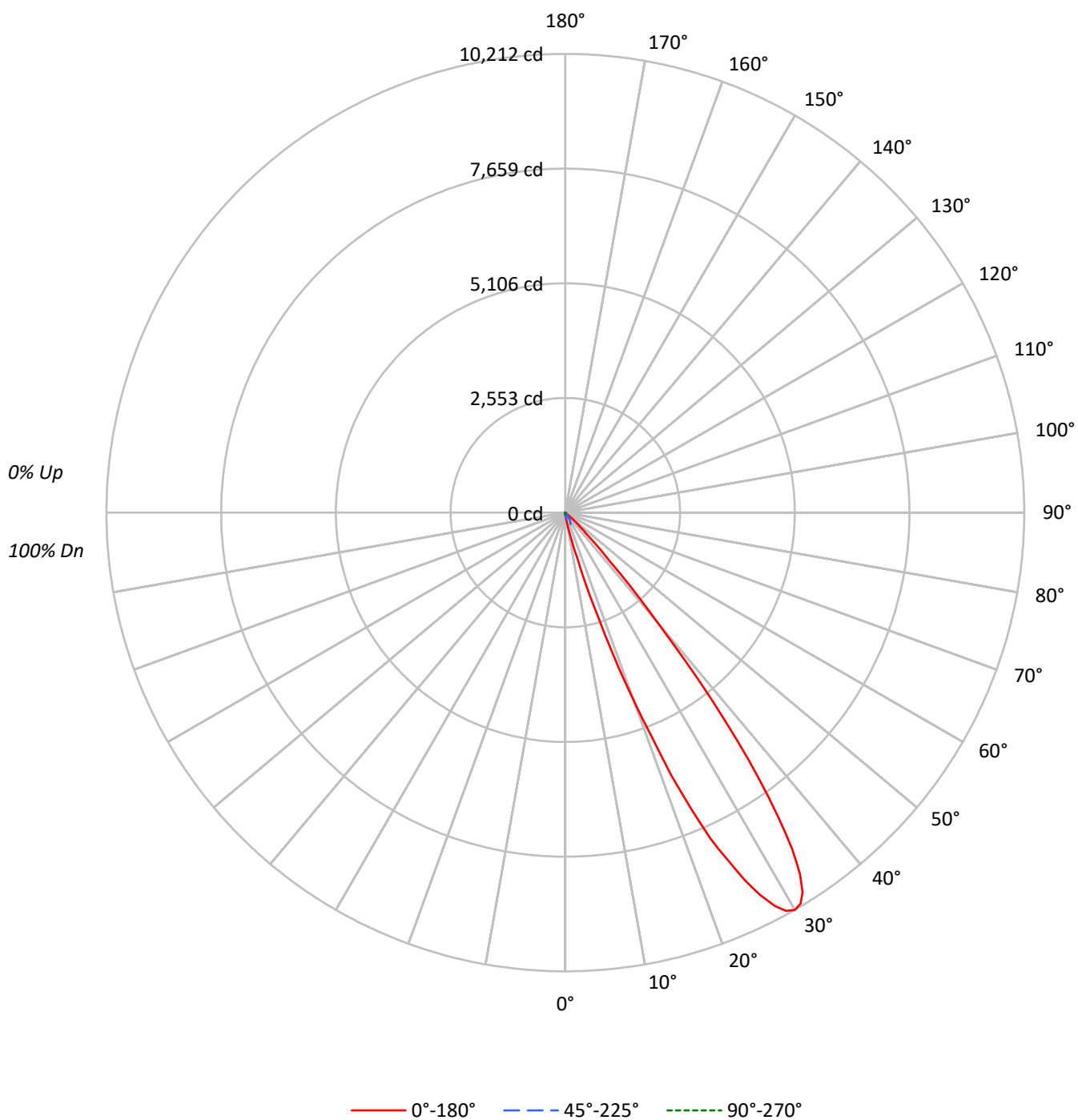
Lumens per Lamp: N/A
Luminaire Lumens: 1080.0 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	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°	6648	6648	6648	6648	6648
5°	19242	14522	5688	2351	1573
10°	50050	21650	3777	0	0
15°	200068	35428	2033	0	0
20°	817372	52252	623	0	0
25°	1615759	51801	0	0	0
30°	2030815	40887	0	0	0
35°	1732755	25061	0	0	0
40°	713379	7914	0	0	0
45°	154344	3312	0	0	0
50°	19773	0	0	0	0
55°	1711	0	330	0	0
60°	0	0	792	0	0
65°	0	0	937	0	0
70°	0	554	1712	0	0
75°	0	732	2262	0	0
80°	0	1091	3372	0	0
85°	0	2174	6719	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 161529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.5
10°-20°	75.7	7.0
20°-30°	441.2	40.8
30°-40°	473.0	43.8
40°-50°	79.8	7.4
50°-60°	2.4	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°	522.0	48.3
0°-40°	995.0	92.1
0°-60°	1077.3	99.8
0°-90°	1080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	111	84	33	14	9	15
15°	1122	199	11	0	0	519
25°	8503	273	0	0	0	3847
35°	8242	119	0	0	0	4736
45°	634	14	0	0	0	749
55°	6	0	1	0	0	14
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°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
2.5°	70.4	71.5	72.7	72.7	72.7	72.7	71.5	71.5	71.5	71.5	70.4
5°	111.3	111.3	111.3	111.3	111.3	111.3	110.2	110.2	110.2	110.2	110.2
7.5°	159.0	156.7	157.9	154.5	156.7	155.6	154.5	156.7	156.7	151.0	151.0
10°	286.2	285.1	273.7	276.0	278.2	277.1	277.1	270.3	269.2	264.6	260.1
12.5°	551.9	564.4	573.5	573.5	551.9	559.9	545.1	548.5	550.8	544.0	520.1
15°	1122.1	1142.5	1120.9	1141.4	1133.4	1103.9	1070.9	1026.7	1043.7	1013.0	1002.8
17.5°	2457.6	2504.2	2484.9	2390.6	2421.3	2348.6	2303.2	2286.1	2238.4	2096.5	2037.4
20°	4459.8	4516.6	4463.2	4353.1	4388.3	4250.8	4215.6	4182.7	3971.5	3894.2	3646.7
21°	5302.5	5349.0	5369.5	5254.8	5184.4	5075.3	4984.5	4955.0	4826.6	4677.9	4423.5
22°	6320.1	6265.5	6142.9	6158.8	6054.3	5964.6	5838.5	5719.3	5576.2	5368.4	5158.3
23°	7162.7	7099.1	7041.2	6970.8	6858.4	6794.8	6614.2	6483.6	6297.3	6074.7	5872.6
24°	7947.5	7849.8	7813.5	7688.5	7656.7	7513.6	7367.1	7196.8	6971.9	6734.6	6510.8
25°	8502.8	8517.6	8485.8	8471.0	8308.6	8162.1	8016.8	7754.4	7562.5	7352.4	7008.3
26°	9097.9	9104.7	9088.8	8979.8	8833.3	8690.2	8502.8	8274.6	7996.3	7763.5	7452.3
27°	9553.3	9526.1	9503.4	9373.9	9253.5	9072.9	8902.6	8632.3	8360.9	8083.8	7722.6
28°	9916.7	9865.6	9837.2	9726.0	9585.1	9363.7	9154.7	8902.6	8631.2	8333.6	7942.9
29°	10135.9	10081.4	10049.6	9927.0	9764.6	9570.4	9359.1	9082.0	8790.2	8458.5	8065.6
30°	10212.0	10180.2	10130.3	10003.1	9835.0	9632.8	9415.9	9115.0	8809.5	8469.9	8054.2
31°	10162.1	10121.2	10073.5	9936.1	9754.3	9561.3	9309.2	8993.4	8672.0	8348.4	7907.7
32°	9963.3	9938.3	9880.4	9696.4	9548.8	9298.9	9050.2	8754.9	8404.0	8056.5	7657.9
33°	9590.8	9549.9	9500.0	9331.9	9143.3	8903.7	8656.1	8354.1	8005.4	7638.6	7200.2
34°	9023.0	8970.7	8908.3	8795.8	8555.1	8347.2	8061.0	7707.8	7419.4	7067.3	6671.0
35°	8241.6	8165.5	8090.6	8005.4	7735.1	7543.2	7350.1	7042.3	6764.1	6432.5	5983.9
36°	7364.9	7335.3	7274.0	7049.2	6961.7	6700.5	6544.9	6191.7	5966.9	5642.1	5271.8
37°	6373.4	6199.7	6288.3	6162.2	5898.7	5816.9	5631.8	5328.6	5085.6	4742.6	4474.6
38°	5310.4	5196.9	5259.3	5132.1	4994.7	4806.2	4665.4	4443.9	4171.3	3902.2	3647.8
39°	4208.8	4116.8	4185.0	4098.7	3889.7	3811.3	3686.4	3517.2	3298.0	3087.9	2847.1
40°	3173.1	3055.0	3145.8	3023.2	2927.8	2799.4	2735.8	2580.3	2444.0	2317.9	2164.6
42.5°	1449.1	1436.6	1416.2	1371.9	1361.7	1362.8	1284.5	1233.3	1164.1	1083.4	1034.6
45°	633.7	649.6	663.2	638.3	637.1	623.5	618.9	584.9	571.2	545.1	513.3
47.5°	312.3	318.0	314.6	321.4	315.7	306.6	304.4	299.8	286.2	285.1	270.3
50°	73.8	72.7	72.7	73.8	72.7	72.7	71.5	69.3	68.1	69.3	65.9
52.5°	23.8	25.0	23.8	22.7	23.8	25.0	23.8	23.8	23.8	23.8	23.8
55°	5.7	5.7	5.7	5.7	5.7	5.7	4.5	4.5	5.7	5.7	5.7
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°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
2.5°	69.3	59.1	48.8	38.6	28.4	22.7	21.6	20.4
5°	104.5	84.0	55.6	32.9	19.3	13.6	10.2	9.1
7.5°	140.8	104.5	61.3	27.3	13.6	5.7	2.3	1.1
10°	202.2	123.8	63.6	21.6	6.8	0.0	0.0	0.0
12.5°	396.4	142.0	62.5	17.0	1.1	0.0	0.0	0.0
15°	658.7	198.7	57.9	11.4	0.0	0.0	0.0	0.0
17.5°	1078.9	256.7	50.0	7.9	0.0	0.0	0.0	0.0
20°	1672.9	285.1	38.6	3.4	0.0	0.0	0.0	0.0
21°	1961.3	287.3	34.1	2.3	0.0	0.0	0.0	0.0
22°	2211.2	287.3	29.5	1.1	0.0	0.0	0.0	0.0
23°	2442.8	283.9	26.1	0.0	0.0	0.0	0.0	0.0
24°	2633.6	279.4	23.8	0.0	0.0	0.0	0.0	0.0
25°	2776.7	272.6	21.6	0.0	0.0	0.0	0.0	0.0
26°	2842.6	263.5	18.2	0.0	0.0	0.0	0.0	0.0
27°	2875.5	251.0	15.9	0.0	0.0	0.0	0.0	0.0
28°	2852.8	237.4	13.6	0.0	0.0	0.0	0.0	0.0
29°	2796.0	222.6	10.2	0.0	0.0	0.0	0.0	0.0
30°	2722.2	205.6	7.9	0.0	0.0	0.0	0.0	0.0
31°	2614.3	188.5	5.7	0.0	0.0	0.0	0.0	0.0
32°	2466.7	171.5	4.5	0.0	0.0	0.0	0.0	0.0
33°	2269.1	153.3	2.3	0.0	0.0	0.0	0.0	0.0
34°	2024.9	135.1	1.1	0.0	0.0	0.0	0.0	0.0
35°	1751.2	119.2	0.0	0.0	0.0	0.0	0.0	0.0
36°	1516.1	102.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	1279.9	81.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	1072.1	64.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	887.0	52.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	734.8	35.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	406.6	23.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	246.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	143.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	54.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.5	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	2.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.3	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.3	2.3	1.1	0.0	0.0	0.0
67.5°	0.0	0.0	2.3	3.4	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.3	3.4	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	2.3	3.4	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.3	3.4	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)