

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: P1306994

Luminaire Tested: P3SQAS17R159027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306994
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: P3SQAS17R159027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

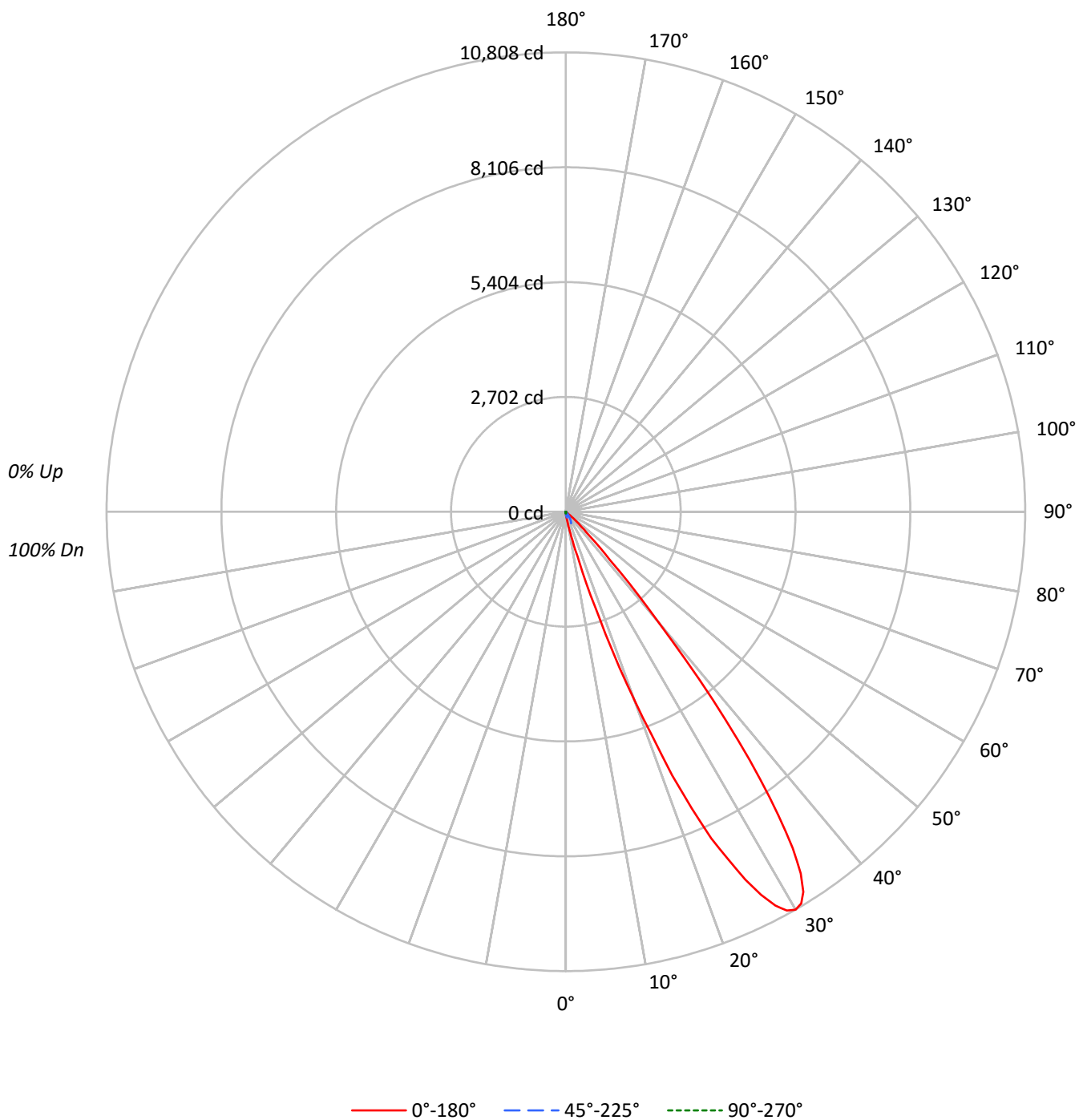
Lumens per Lamp: N/A
Luminaire Lumens: 1143.0 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	7044	7044	7044	7044	7044
5°	20365	15369	6034	2489	1660
10°	52971	22909	3987	0	0
15°	211729	37496	2140	0	0
20°	865060	55294	660	0	0
25°	1710012	54823	0	0	0
30°	2149279	43253	0	0	0
35°	1833841	26533	0	0	0
40°	754993	8386	0	0	0
45°	163355	3507	0	0	0
50°	20925	0	0	0	0
55°	1802	0	360	0	0
60°	0	0	827	0	0
65°	0	0	978	0	0
70°	0	604	1813	0	0
75°	0	799	2396	0	0
80°	0	1190	3570	0	0
85°	0	2371	7114	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 170954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.5
10°-20°	80.1	7.0
20°-30°	466.9	40.8
30°-40°	500.6	43.8
40°-50°	84.5	7.4
50°-60°	2.6	0.2
60°-70°	0.7	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	552.5	48.3
0°-40°	1053.1	92.1
0°-60°	1140.1	99.7
0°-90°	1143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	118	89	35	14	10	16
15°	1188	210	12	0	0	549
25°	8999	288	0	0	0	4071
35°	8722	126	0	0	0	5013
45°	671	14	0	0	0	792
55°	6	0	1	0	0	15
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	74.5	75.7	76.9	76.9	76.9	76.9	75.7	75.7	75.7	75.7	74.5
5°	117.8	117.8	117.8	117.8	117.8	117.8	116.6	116.6	116.6	116.6	116.6
7.5°	168.3	165.9	167.1	163.5	165.9	164.7	163.5	165.9	165.9	159.9	159.9
10°	302.9	301.7	289.7	292.1	294.5	293.3	293.3	286.1	284.9	280.0	275.2
12.5°	584.1	597.4	607.0	607.0	584.1	592.5	576.9	580.5	582.9	575.7	550.5
15°	1187.5	1209.1	1186.3	1207.9	1199.5	1168.3	1133.4	1086.5	1104.6	1072.1	1061.3
17.5°	2601.0	2650.2	2629.8	2530.1	2562.5	2485.6	2437.5	2419.5	2369.0	2218.8	2156.3
20°	4720.0	4780.1	4723.6	4607.0	4644.2	4498.8	4461.6	4426.7	4203.1	4121.4	3859.4
21°	5611.8	5661.1	5682.7	5561.3	5486.8	5371.4	5275.3	5244.0	5108.2	4950.7	4681.5
22°	6688.7	6631.0	6501.2	6518.0	6407.5	6312.5	6179.1	6052.9	5901.5	5681.5	5459.1
23°	7580.5	7513.2	7451.9	7377.4	7258.4	7191.1	7000.0	6861.8	6664.7	6429.1	6215.2
24°	8411.1	8307.7	8269.3	8137.0	8103.4	7951.9	7796.9	7616.6	7378.6	7127.4	6890.6
25°	8998.8	9014.4	8980.8	8965.2	8793.3	8638.2	8484.4	8206.8	8003.6	7781.3	7417.1
26°	9628.6	9635.8	9619.0	9503.6	9348.6	9197.1	8998.8	8757.2	8462.8	8216.4	7887.0
27°	10110.6	10081.8	10057.7	9920.7	9793.3	9602.2	9421.9	9135.8	8848.6	8555.3	8173.1
28°	10495.2	10441.1	10411.1	10293.3	10144.3	9909.9	9688.7	9421.9	9134.6	8819.7	8406.3
29°	10727.2	10669.5	10635.8	10506.0	10334.2	10128.6	9905.1	9611.8	9302.9	8951.9	8536.1
30°	10807.7	10774.1	10721.2	10586.6	10408.7	10194.7	9965.2	9646.7	9323.3	8964.0	8524.1
31°	10754.8	10711.6	10661.1	10515.7	10323.3	10119.0	9852.2	9518.1	9177.9	8835.4	8369.0
32°	10544.5	10518.1	10456.8	10262.0	10105.8	9841.4	9578.2	9265.7	8894.3	8526.5	8104.6
33°	10150.3	10107.0	10054.1	9876.2	9676.7	9423.1	9161.1	8841.4	8472.4	8084.2	7620.2
34°	9549.3	9494.0	9427.9	9308.9	9054.1	8834.2	8531.3	8157.5	7852.2	7479.6	7060.1
35°	8722.4	8641.9	8562.5	8472.4	8186.3	7983.2	7778.9	7453.1	7158.7	6807.7	6333.0
36°	7794.5	7763.2	7698.3	7460.4	7367.8	7091.4	6926.7	6552.9	6314.9	5971.2	5579.3
37°	6745.2	6561.3	6655.1	6521.7	6242.8	6156.3	5960.4	5639.4	5382.2	5019.2	4735.6
38°	5620.2	5500.0	5566.1	5431.5	5286.1	5086.6	4937.5	4703.1	4414.7	4129.8	3860.6
39°	4454.3	4357.0	4429.1	4337.8	4116.6	4033.7	3901.5	3722.4	3490.4	3268.0	3013.2
40°	3358.2	3233.2	3329.3	3199.5	3098.6	2962.7	2895.4	2730.8	2586.5	2453.1	2290.9
42.5°	1533.7	1520.4	1498.8	1451.9	1441.1	1442.3	1359.4	1305.3	1232.0	1146.6	1095.0
45°	670.7	687.5	701.9	675.5	674.3	659.9	655.0	619.0	604.6	576.9	543.3
47.5°	330.5	336.5	332.9	340.1	334.1	324.5	322.1	317.3	302.9	301.7	286.1
50°	78.1	76.9	76.9	78.1	76.9	76.9	75.7	73.3	72.1	73.3	69.7
52.5°	25.2	26.4	25.2	24.0	25.2	26.4	25.2	25.2	25.2	25.2	25.2
55°	6.0	6.0	6.0	6.0	6.0	6.0	4.8	4.8	6.0	6.0	6.0
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°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	73.3	62.5	51.7	40.9	30.0	24.0	22.8	21.6
5°	110.6	88.9	58.9	34.9	20.4	14.4	10.8	9.6
7.5°	149.0	110.6	64.9	28.8	14.4	6.0	2.4	1.2
10°	213.9	131.0	67.3	22.8	7.2	0.0	0.0	0.0
12.5°	419.5	150.2	66.1	18.0	1.2	0.0	0.0	0.0
15°	697.1	210.3	61.3	12.0	0.0	0.0	0.0	0.0
17.5°	1141.8	271.6	52.9	8.4	0.0	0.0	0.0	0.0
20°	1770.4	301.7	40.9	3.6	0.0	0.0	0.0	0.0
21°	2075.7	304.1	36.1	2.4	0.0	0.0	0.0	0.0
22°	2340.2	304.1	31.3	1.2	0.0	0.0	0.0	0.0
23°	2585.3	300.5	27.6	0.0	0.0	0.0	0.0	0.0
24°	2787.3	295.7	25.2	0.0	0.0	0.0	0.0	0.0
25°	2938.7	288.5	22.8	0.0	0.0	0.0	0.0	0.0
26°	3008.4	278.8	19.2	0.0	0.0	0.0	0.0	0.0
27°	3043.3	265.6	16.8	0.0	0.0	0.0	0.0	0.0
28°	3019.2	251.2	14.4	0.0	0.0	0.0	0.0	0.0
29°	2959.1	235.6	10.8	0.0	0.0	0.0	0.0	0.0
30°	2881.0	217.5	8.4	0.0	0.0	0.0	0.0	0.0
31°	2766.8	199.5	6.0	0.0	0.0	0.0	0.0	0.0
32°	2610.6	181.5	4.8	0.0	0.0	0.0	0.0	0.0
33°	2401.4	162.3	2.4	0.0	0.0	0.0	0.0	0.0
34°	2143.0	143.0	1.2	0.0	0.0	0.0	0.0	0.0
35°	1853.4	126.2	0.0	0.0	0.0	0.0	0.0	0.0
36°	1604.6	108.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	1354.6	86.5	0.0	0.0	0.0	0.0	0.0	0.0
38°	1134.6	68.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	938.7	55.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	777.6	37.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	430.3	25.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	260.8	14.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	151.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	57.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.4	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.4	2.4	1.2	0.0	0.0	0.0
67.5°	0.0	0.0	2.4	3.6	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.4	3.6	1.2	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	1.2	2.4	3.6	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.4	3.6	1.2	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)