

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: P1309247

Luminaire Tested: P3SQAS17R209035DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R209035DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

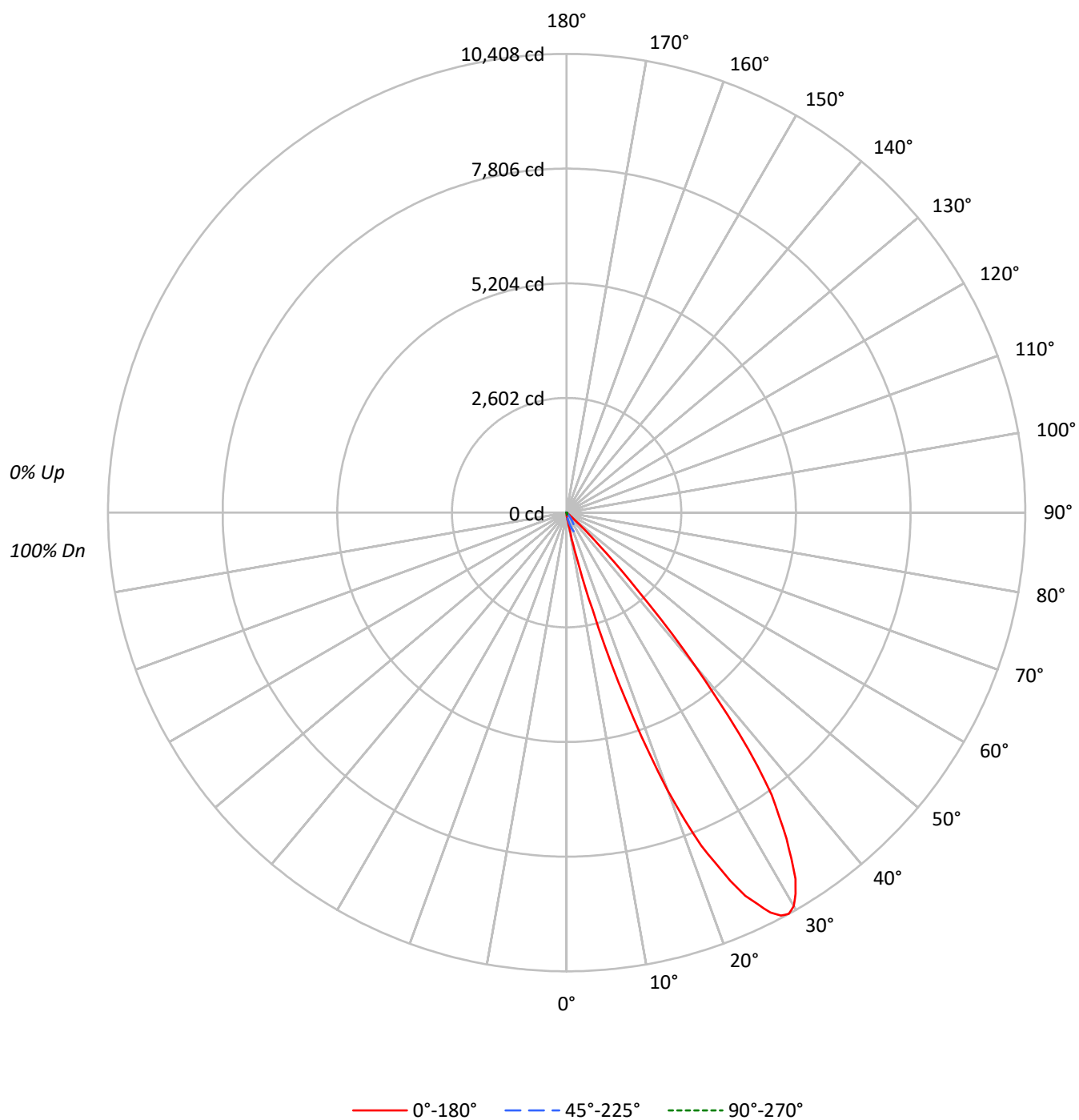
Lumens per Lamp: N/A
Luminaire Lumens: 1459.9 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8663	8663	8663	8663	8663
5°	19916	14885	8246	5031	4357
10°	62782	25952	6715	2781	2081
15°	406680	47944	4957	945	232
20°	1227396	82052	3391	0	0
25°	1822831	82814	2014	0	0
30°	2049867	62961	795	0	0
35°	1768644	37592	547	0	0
40°	1018438	12815	0	0	0
45°	248406	5163	317	0	317
50°	29821	1420	348	348	1072
55°	3963	0	781	781	1591
60°	448	0	1378	1378	2273
65°	530	530	2160	2160	3219
70°	655	655	2669	2669	3323
75°	0	865	3527	2662	3527
80°	0	1289	3967	2579	3967
85°	0	2569	7904	2569	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 250014 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.5
10°-20°	135.3	9.3
20°-30°	589.8	40.4
30°-40°	593.9	40.7
40°-50°	119.1	8.2
50°-60°	6.0	0.4
60°-70°	3.9	0.3
70°-80°	3.5	0.2
80°-90°	1.8	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°	731.8	50.1
0°-40°	1325.7	90.8
0°-60°	1450.8	99.4
0°-90°	1459.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	115	86	48	29	25	18
15°	2281	269	28	5	1	893
25°	9592	436	11	0	0	4325
35°	8412	179	3	0	0	5005
45°	1020	21	1	0	1	1110
55°	13	0	3	3	5	25
65°	1	1	5	5	8	1
75°	0	1	5	4	5	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	75.5	75.5	74.2	74.2	72.9	74.2	71.5	72.9	72.9	71.5	64.9
5°	115.2	117.9	116.6	116.6	115.2	116.6	113.9	111.3	108.6	108.6	86.1
7.5°	189.4	188.1	185.4	186.8	182.8	180.1	177.5	176.2	168.2	164.2	112.6
10°	359.0	366.9	360.3	359.0	335.1	333.8	317.9	295.4	275.5	264.9	148.4
12.5°	988.1	1030.5	964.3	932.5	914.0	842.4	812.0	733.8	658.3	601.4	188.1
15°	2280.9	2385.5	2251.8	2261.0	2149.8	1945.8	1767.0	1613.3	1431.9	1249.1	268.9
17.5°	4469.1	4384.3	4311.5	4188.3	3961.8	3662.4	3277.0	2886.2	2548.5	2194.8	374.9
20°	6697.0	6621.5	6455.9	6187.0	5898.3	5454.6	4996.3	4409.5	3841.2	3308.8	447.7
21°	7463.9	7438.8	7167.2	7001.7	6556.6	6132.7	5604.2	4976.4	4336.6	3706.1	459.6
22°	8148.7	7997.7	7852.0	7607.0	7164.6	6703.6	6115.5	5454.6	4760.5	4059.8	460.9
23°	8622.9	8554.0	8416.3	8139.5	7699.7	7158.0	6538.1	5846.6	5115.5	4310.1	457.0
24°	9147.5	9060.0	8858.7	8535.5	8091.8	7556.6	6849.3	6163.2	5368.5	4520.7	446.4
25°	9592.5	9456.1	9217.7	8869.3	8384.5	7832.2	7120.9	6367.2	5544.6	4662.5	435.8
26°	9881.3	9807.1	9501.1	9122.3	8603.1	8033.5	7307.6	6523.5	5658.5	4727.4	418.6
27°	10181.9	10045.5	9744.8	9309.1	8746.1	8164.6	7413.6	6599.0	5698.3	4730.0	397.4
28°	10354.1	10205.8	9865.4	9407.1	8838.8	8237.5	7474.5	6622.8	5690.3	4689.0	372.2
29°	10408.4	10221.7	9889.2	9423.0	8861.3	8242.8	7465.3	6588.4	5620.1	4588.3	343.1
30°	10307.8	10117.0	9801.8	9347.5	8789.8	8176.5	7379.2	6474.5	5495.6	4443.9	316.6
31°	10087.9	9926.3	9621.6	9166.0	8630.9	8021.6	7184.4	6287.7	5283.7	4250.5	286.1
32°	9797.8	9638.9	9339.5	8927.6	8383.2	7768.6	6918.2	5996.3	5034.7	3961.8	255.6
33°	9362.0	9270.6	9001.8	8608.4	8064.0	7407.0	6560.6	5647.9	4679.7	3641.2	229.1
34°	8921.0	8805.7	8617.6	8187.1	7601.7	6946.0	6094.3	5167.1	4246.6	3282.3	204.0
35°	8412.3	8343.4	8048.1	7703.7	7115.6	6445.3	5598.9	4699.6	3741.9	2882.3	178.8
36°	7919.6	7813.6	7477.2	7112.9	6542.0	5817.5	4981.7	4136.6	3306.1	2507.4	152.3
37°	7204.3	7042.7	6803.0	6418.8	5751.3	5134.0	4371.1	3586.9	2769.7	2102.1	123.2
38°	6363.2	6287.7	5955.2	5568.5	5016.1	4430.7	3675.7	3010.7	2284.9	1755.0	94.0
39°	5371.1	5369.8	5051.9	4772.4	4232.0	3704.8	3024.0	2443.8	1886.2	1413.3	72.9
40°	4530.0	4373.7	4177.7	3826.7	3412.1	2964.4	2368.3	1912.7	1463.6	1139.1	57.0
42.5°	2374.9	2361.7	2246.5	1982.9	1751.1	1487.5	1182.8	985.5	770.9	627.8	35.8
45°	1019.9	1026.5	947.1	907.3	817.3	707.3	597.4	498.0	426.5	345.7	21.2
47.5°	258.3	247.7	245.0	254.3	254.3	246.4	221.2	208.0	192.1	176.2	11.9
50°	111.3	108.6	106.0	106.0	99.3	95.4	88.7	80.8	74.2	66.2	5.3
52.5°	41.1	42.4	43.7	42.4	42.4	41.1	41.1	39.7	35.8	31.8	2.6
55°	13.2	13.2	13.2	14.6	14.6	15.9	15.9	15.9	15.9	14.6	0.0
57.5°	2.6	2.6	4.0	4.0	4.0	4.0	4.0	4.0	5.3	5.3	0.0
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.0	0.0	0.0	1.3	0.0	1.3	1.3	0.0	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	58.3	51.7	43.7	37.1	35.8	34.4
5°	64.9	47.7	35.8	29.1	26.5	25.2
7.5°	70.2	43.7	29.1	21.2	18.5	17.2
10°	72.9	38.4	23.8	15.9	11.9	11.9
12.5°	74.2	33.1	17.2	10.6	6.6	6.6
15°	72.9	27.8	13.2	5.3	1.3	1.3
17.5°	66.2	22.5	7.9	1.3	0.0	0.0
20°	57.0	18.5	5.3	0.0	0.0	0.0
21°	54.3	15.9	4.0	0.0	0.0	0.0
22°	50.3	14.6	2.6	0.0	0.0	0.0
23°	46.4	13.2	2.6	0.0	0.0	0.0
24°	42.4	11.9	1.3	0.0	0.0	0.0
25°	39.7	10.6	1.3	0.0	0.0	0.0
26°	37.1	9.3	1.3	0.0	0.0	0.0
27°	33.1	7.9	0.0	0.0	0.0	0.0
28°	30.5	6.6	0.0	0.0	0.0	0.0
29°	26.5	5.3	0.0	0.0	0.0	0.0
30°	22.5	4.0	0.0	0.0	0.0	0.0
31°	18.5	4.0	0.0	0.0	0.0	0.0
32°	15.9	2.6	0.0	0.0	0.0	0.0
33°	13.2	2.6	0.0	0.0	0.0	0.0
34°	11.9	2.6	0.0	0.0	0.0	0.0
35°	10.6	2.6	0.0	0.0	0.0	0.0
36°	7.9	1.3	0.0	0.0	0.0	0.0
37°	6.6	1.3	0.0	0.0	0.0	0.0
38°	5.3	1.3	0.0	0.0	0.0	0.0
39°	4.0	0.0	0.0	0.0	0.0	0.0
40°	4.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.3	0.0	0.0	1.3	1.3
47.5°	0.0	1.3	0.0	0.0	1.3	2.6
50°	0.0	1.3	1.3	1.3	2.6	4.0
52.5°	0.0	2.6	1.3	1.3	4.0	4.0
55°	1.3	2.6	1.3	2.6	5.3	5.3
57.5°	1.3	2.6	2.6	4.0	5.3	6.6
60°	2.6	4.0	4.0	4.0	6.6	6.6
62.5°	2.6	4.0	5.3	5.3	6.6	7.9
65°	2.6	5.3	5.3	5.3	6.6	7.9
67.5°	4.0	5.3	5.3	5.3	6.6	7.9
70°	4.0	5.3	5.3	5.3	6.6	6.6
72.5°	4.0	5.3	4.0	5.3	5.3	6.6
75°	4.0	5.3	4.0	4.0	5.3	5.3
77.5°	2.6	4.0	4.0	2.6	4.0	4.0
80°	2.6	4.0	2.6	2.6	4.0	4.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.6	4.0	2.6	1.3	2.6	2.6
85°	2.6	4.0	2.6	1.3	1.3	1.3
87.5°	2.6	4.0	2.6	1.3	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)