

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: P1310207

Luminaire Tested: P3SQAS13R209040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R209040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

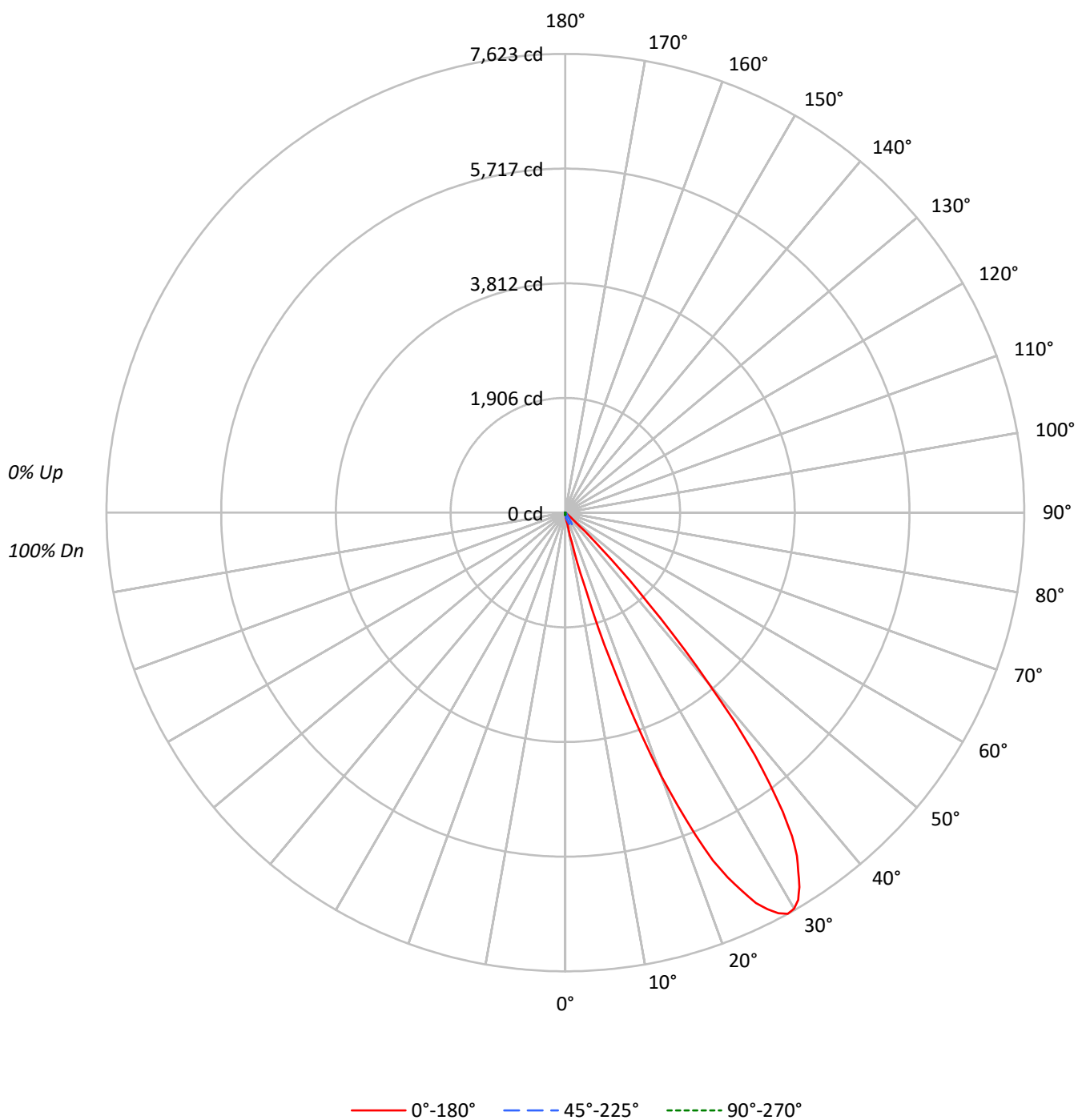
Lumens per Lamp: N/A
Luminaire Lumens: 1052.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	59	52	47	69	59	52	47	57	51	47		56	51	46		55
9	66	54	47	42	65	54	47	42	53	47	42		52	46	42		51
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6493	6493	6493	6493	6493
5°	14107	9941	5964	2714	1988
10°	35133	17558	4215	542	0
15°	247175	24070	2425	0	0
20°	854247	40467	953	0	0
25°	1316752	51687	399	0	0
30°	1511378	39952	0	0	0
35°	1380301	15180	0	0	0
40°	827498	7059	0	0	0
45°	203348	3312	0	0	0
50°	22426	831	0	0	0
55°	3153	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: 1°

Vertical Angle: 45°

Luminance: 216865 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.4
10°-20°	82.2	7.8
20°-30°	415.6	39.5
30°-40°	449.6	42.7
40°-50°	95.0	9.0
50°-60°	2.9	0.3
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°	502.0	47.7
0°-40°	951.6	90.5
0°-60°	1049.5	99.8
0°-90°	1052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	82	58	34	16	12	11
15°	1386	135	14	0	0	578
25°	6929	272	2	0	0	3132
35°	6565	72	0	0	0	3871
45°	835	14	0	0	0	918
55°	10	0	1	0	0	19
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°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
2.5°	51.3	50.2	51.3	50.2	51.3	51.3	51.3	50.2	50.2	50.2	50.2
5°	81.6	81.6	80.6	81.6	81.6	81.6	81.6	80.6	80.6	79.5	79.5
7.5°	128.7	128.7	127.6	127.6	128.7	129.7	125.6	127.6	127.6	127.6	126.6
10°	200.9	205.1	200.9	206.1	201.9	198.8	204.0	198.8	198.8	197.7	194.6
12.5°	506.4	494.9	487.6	469.8	487.6	474.0	477.1	474.0	463.5	449.9	441.5
15°	1386.3	1386.3	1345.5	1399.9	1360.1	1374.8	1299.4	1300.5	1261.8	1219.9	1196.9
17.5°	2898.1	2924.3	2897.1	2880.3	2844.8	2793.5	2772.6	2719.2	2649.1	2567.5	2558.1
20°	4661.0	4551.2	4602.5	4555.4	4526.1	4463.3	4393.2	4349.3	4287.5	4184.0	4031.2
21°	5215.6	5211.4	5210.3	5209.3	5166.4	5063.9	5000.0	4912.1	4825.3	4718.6	4590.9
22°	5774.3	5794.1	5802.5	5741.8	5653.9	5607.9	5564.0	5443.6	5306.6	5251.1	5099.4
23°	6286.9	6268.1	6213.7	6185.4	6117.4	6103.8	5973.0	5896.7	5762.8	5702.1	5522.1
24°	6636.4	6627.0	6601.8	6560.0	6505.6	6421.9	6343.4	6223.1	6113.2	6013.9	5846.5
25°	6929.3	6937.7	6891.7	6863.4	6804.8	6710.7	6614.4	6482.6	6380.0	6263.9	6070.3
26°	7219.1	7160.5	7123.9	7082.1	7018.3	6910.5	6817.4	6699.1	6574.6	6444.9	6255.5
27°	7398.0	7345.7	7290.3	7249.5	7176.2	7073.7	6974.3	6843.5	6704.4	6573.6	6379.0
28°	7539.3	7481.7	7427.3	7378.2	7294.5	7184.6	7065.3	6932.5	6788.1	6653.1	6454.3
29°	7623.0	7555.0	7496.4	7440.9	7364.6	7245.3	7125.0	6982.7	6843.5	6702.3	6499.3
30°	7600.0	7541.4	7484.9	7428.4	7351.0	7239.0	7119.7	6983.7	6843.5	6704.4	6498.3
31°	7510.0	7437.8	7397.0	7340.5	7273.5	7159.5	7057.0	6908.4	6781.8	6631.1	6425.0
32°	7337.4	7291.3	7236.9	7193.0	7128.1	7006.7	6906.3	6784.9	6635.3	6511.9	6295.3
33°	7103.0	7060.1	7032.9	6981.6	6918.9	6835.2	6714.8	6603.9	6435.5	6308.9	6092.3
34°	6879.1	6824.7	6756.7	6742.0	6687.6	6579.9	6471.1	6358.1	6207.4	6046.3	5827.6
35°	6565.2	6508.7	6446.0	6451.2	6386.3	6260.8	6149.9	6023.3	5879.9	5690.6	5483.4
36°	6145.7	6108.0	6098.6	6073.5	5999.2	5849.6	5743.9	5584.9	5464.6	5233.3	5055.5
37°	5634.1	5647.7	5579.7	5547.2	5460.4	5355.8	5296.1	5092.1	4951.9	4778.2	4537.6
38°	5117.2	5097.3	5016.8	5036.7	4917.4	4808.6	4640.1	4518.8	4361.8	4200.7	4008.2
39°	4471.7	4422.5	4326.2	4330.4	4240.5	4118.0	3954.8	3811.5	3717.3	3562.5	3378.3
40°	3680.7	3659.8	3626.3	3570.9	3452.6	3399.3	3253.8	3099.0	3019.5	2805.0	2715.0
42.5°	2042.3	2014.0	1957.5	1937.7	1874.9	1812.1	1727.4	1623.8	1573.6	1509.7	1367.5
45°	834.9	890.4	876.8	861.1	812.9	816.1	755.4	762.7	707.3	669.6	643.4
47.5°	184.1	199.8	200.9	193.6	200.9	194.6	191.5	186.2	187.3	190.4	183.1
50°	83.7	82.7	84.7	83.7	82.7	81.6	80.6	77.4	79.5	77.4	75.3
52.5°	32.4	33.5	33.5	31.4	32.4	32.4	32.4	31.4	31.4	31.4	31.4
55°	10.5	10.5	10.5	9.4	9.4	10.5	10.5	10.5	10.5	10.5	9.4
57.5°	1.0	2.1	1.0	2.1	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
2.5°	48.1	43.9	40.8	37.7	31.4	26.2	24.1	24.1
5°	74.3	57.5	42.9	34.5	24.1	15.7	12.6	11.5
7.5°	111.9	77.4	45.0	29.3	15.7	8.4	5.2	4.2
10°	162.2	100.4	47.1	24.1	9.4	3.1	0.0	0.0
12.5°	283.5	120.3	47.1	18.8	4.2	0.0	0.0	0.0
15°	649.7	135.0	45.0	13.6	1.0	0.0	0.0	0.0
17.5°	1349.7	169.5	39.8	9.4	0.0	0.0	0.0	0.0
20°	2155.3	220.8	31.4	5.2	0.0	0.0	0.0	0.0
21°	2486.9	238.5	28.2	4.2	0.0	0.0	0.0	0.0
22°	2725.5	255.3	25.1	3.1	0.0	0.0	0.0	0.0
23°	2988.1	265.7	22.0	2.1	0.0	0.0	0.0	0.0
24°	3181.6	272.0	18.8	2.1	0.0	0.0	0.0	0.0
25°	3302.0	272.0	16.7	2.1	0.0	0.0	0.0	0.0
26°	3373.1	265.7	14.6	1.0	0.0	0.0	0.0	0.0
27°	3389.9	255.3	12.6	1.0	0.0	0.0	0.0	0.0
28°	3368.9	241.7	10.5	0.0	0.0	0.0	0.0	0.0
29°	3303.0	221.8	9.4	0.0	0.0	0.0	0.0	0.0
30°	3231.9	200.9	7.3	0.0	0.0	0.0	0.0	0.0
31°	3110.5	172.6	6.3	0.0	0.0	0.0	0.0	0.0
32°	2970.3	143.3	5.2	0.0	0.0	0.0	0.0	0.0
33°	2783.0	113.0	4.2	0.0	0.0	0.0	0.0	0.0
34°	2506.8	88.9	4.2	0.0	0.0	0.0	0.0	0.0
35°	2258.9	72.2	3.1	0.0	0.0	0.0	0.0	0.0
36°	1934.5	57.5	3.1	0.0	0.0	0.0	0.0	0.0
37°	1657.3	48.1	3.1	0.0	0.0	0.0	0.0	0.0
38°	1387.3	40.8	2.1	0.0	0.0	0.0	0.0	0.0
39°	1125.8	35.6	2.1	0.0	0.0	0.0	0.0	0.0
40°	897.7	31.4	2.1	0.0	0.0	0.0	0.0	0.0
42.5°	484.4	20.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	267.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	118.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	39.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9.4	0.0	0.0	1.0	0.0	0.0	0.0	0.0
57.5°	2.1	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	1.0	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)