

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: P1316205

Luminaire Tested: P3SQAS13R209827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316205
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: P3SQAS13R209827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

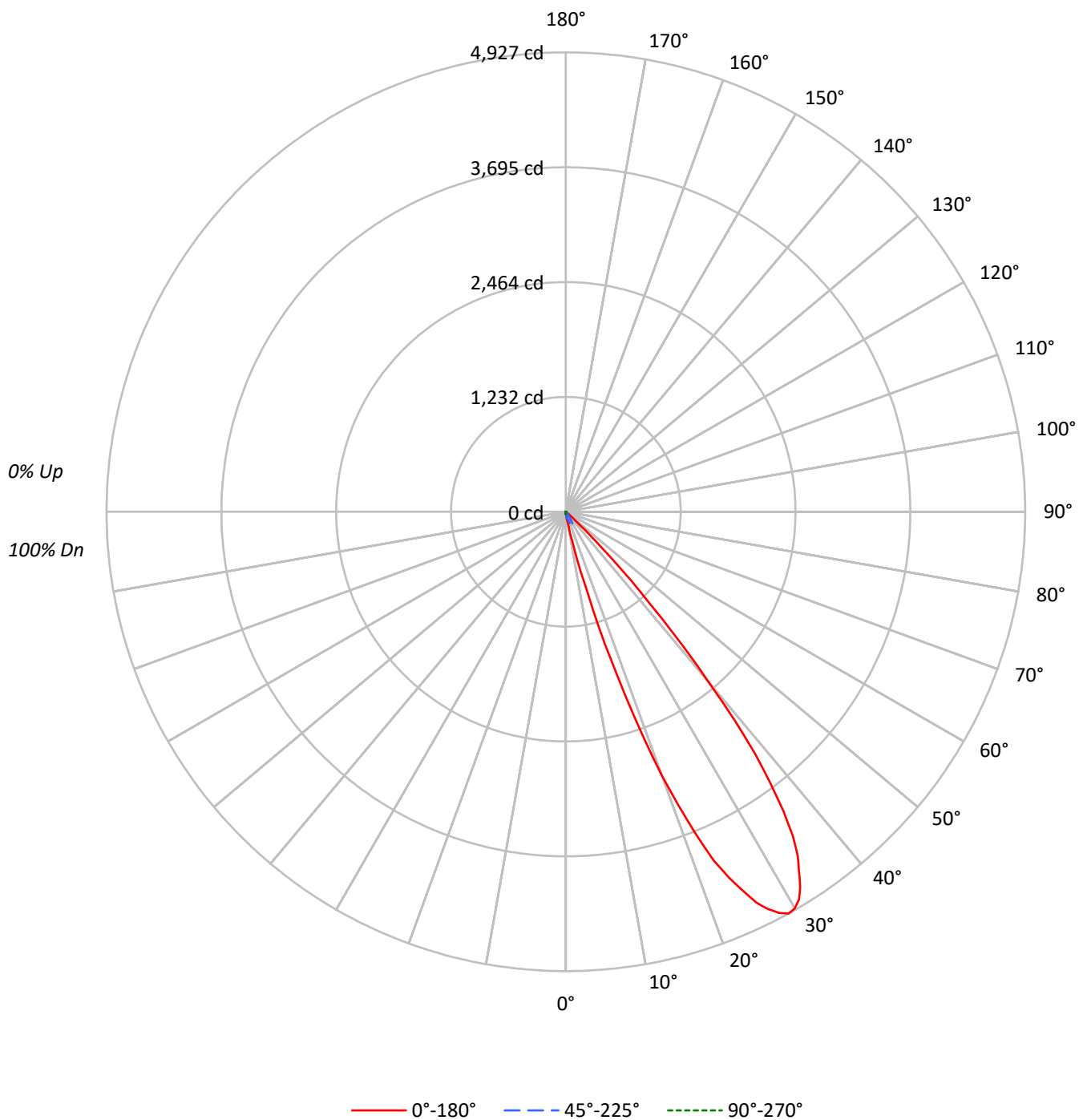
Lumens per Lamp: N/A
Luminaire Lumens: 680.0 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	93	92		
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4185	4185	4185	4185	4185
5°	9128	6431	3855	1746	1279
10°	22699	11350	2728	350	0
15°	159773	15548	1569	0	0
20°	552172	26153	623	0	0
25°	851129	33407	266	0	0
30°	976927	25813	0	0	0
35°	892217	9818	0	0	0
40°	534893	4564	0	0	0
45°	131449	2143	0	0	0
50°	14495	536	0	0	0
55°	2042	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1007	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 140169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	53.1	7.8
20°-30°	268.6	39.5
30°-40°	290.6	42.7
40°-50°	61.4	9.0
50°-60°	1.8	0.3
60°-70°	0.5	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	324.5	47.7
0°-40°	615.1	90.5
0°-60°	678.4	99.8
0°-90°	680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	53	37	22	10	7	7
15°	896	87	9	0	0	374
25°	4479	176	1	0	0	2025
35°	4244	47	0	0	0	2502
45°	540	9	0	0	0	594
55°	7	0	1	0	0	12
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	33.1	32.5	33.1	32.5	33.1	33.1	33.1	32.5	32.5	32.5	32.5
5°	52.8	52.8	52.1	52.8	52.8	52.8	52.8	52.1	52.1	51.4	51.4
7.5°	83.2	83.2	82.5	82.5	83.2	83.9	81.2	82.5	82.5	82.5	81.8
10°	129.8	132.6	129.8	133.2	130.5	128.5	131.9	128.5	128.5	127.8	125.8
12.5°	327.3	319.9	315.1	303.7	315.1	306.4	308.4	306.4	299.6	290.8	285.4
15°	896.1	896.1	869.7	904.9	879.2	888.6	839.9	840.6	815.6	788.5	773.7
17.5°	1873.3	1890.2	1872.6	1861.8	1838.8	1805.7	1792.2	1757.7	1712.4	1659.6	1653.5
20°	3012.8	2941.8	2975.0	2944.5	2925.6	2885.0	2839.7	2811.3	2771.4	2704.5	2605.7
21°	3371.3	3368.6	3367.9	3367.2	3339.5	3273.2	3232.0	3175.2	3119.0	3050.0	2967.5
22°	3732.4	3745.3	3750.7	3711.4	3654.6	3624.9	3596.5	3518.7	3430.1	3394.3	3296.2
23°	4063.8	4051.6	4016.5	3998.2	3954.2	3945.4	3860.9	3811.5	3725.0	3685.7	3569.4
24°	4289.7	4283.6	4267.4	4240.3	4205.1	4151.0	4100.3	4022.5	3951.5	3887.3	3779.1
25°	4479.0	4484.4	4454.7	4436.4	4398.6	4337.7	4275.5	4190.3	4124.0	4048.9	3923.8
26°	4666.4	4628.5	4604.8	4577.8	4536.5	4466.9	4406.7	4330.2	4249.8	4165.9	4043.5
27°	4782.0	4748.2	4712.3	4686.0	4638.6	4572.4	4508.1	4423.6	4333.6	4249.1	4123.3
28°	4873.3	4836.1	4800.9	4769.2	4715.1	4644.0	4566.9	4481.1	4387.7	4300.5	4172.0
29°	4927.4	4883.4	4845.6	4809.7	4760.4	4683.3	4605.5	4513.5	4423.6	4332.3	4201.1
30°	4912.5	4874.7	4838.1	4801.6	4751.6	4679.2	4602.1	4514.2	4423.6	4333.6	4200.4
31°	4854.4	4807.7	4781.3	4744.8	4701.5	4627.8	4561.5	4465.5	4383.7	4286.3	4153.1
32°	4742.8	4713.0	4677.9	4649.5	4607.5	4529.1	4464.2	4385.7	4289.0	4209.2	4069.2
33°	4591.3	4563.6	4546.0	4512.8	4472.3	4418.2	4340.4	4268.7	4159.8	4078.0	3938.0
34°	4446.6	4411.4	4367.4	4358.0	4322.8	4253.1	4182.8	4109.8	4012.4	3908.2	3766.9
35°	4243.7	4207.2	4166.6	4170.0	4128.0	4046.9	3975.2	3893.4	3800.7	3678.3	3544.4
36°	3972.5	3948.1	3942.1	3925.8	3877.8	3781.1	3712.8	3610.0	3532.2	3382.8	3267.8
37°	3641.8	3650.6	3606.6	3585.7	3529.5	3461.9	3423.3	3291.5	3200.9	3088.6	2933.0
38°	3307.7	3294.9	3242.8	3255.6	3178.5	3108.2	2999.3	2920.9	2819.4	2715.3	2590.8
39°	2890.4	2858.7	2796.4	2799.1	2741.0	2661.9	2556.4	2463.7	2402.8	2302.7	2183.7
40°	2379.2	2365.6	2344.0	2308.2	2231.7	2197.2	2103.2	2003.2	1951.8	1813.1	1755.0
42.5°	1320.1	1301.8	1265.3	1252.5	1211.9	1171.3	1116.5	1049.6	1017.1	975.9	883.9
45°	539.7	575.5	566.7	556.6	525.5	527.5	488.3	493.0	457.2	432.8	415.9
47.5°	119.0	129.2	129.8	125.1	129.8	125.8	123.8	120.4	121.1	123.1	118.3
50°	54.1	53.4	54.8	54.1	53.4	52.8	52.1	50.0	51.4	50.0	48.7
52.5°	21.0	21.6	21.6	20.3	21.0	21.0	21.0	20.3	20.3	20.3	20.3
55°	6.8	6.8	6.8	6.1	6.1	6.8	6.8	6.8	6.8	6.8	6.1
57.5°	0.7	1.4	0.7	1.4	0.7	0.7	0.7	0.7	0.7	1.4	1.4
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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	31.1	28.4	26.4	24.3	20.3	16.9	15.6	15.6
5°	48.0	37.2	27.7	22.3	15.6	10.1	8.1	7.4
7.5°	72.4	50.0	29.1	18.9	10.1	5.4	3.4	2.7
10°	104.8	64.9	30.4	15.6	6.1	2.0	0.0	0.0
12.5°	183.3	77.8	30.4	12.2	2.7	0.0	0.0	0.0
15°	420.0	87.2	29.1	8.8	0.7	0.0	0.0	0.0
17.5°	872.4	109.6	25.7	6.1	0.0	0.0	0.0	0.0
20°	1393.1	142.7	20.3	3.4	0.0	0.0	0.0	0.0
21°	1607.5	154.2	18.3	2.7	0.0	0.0	0.0	0.0
22°	1761.7	165.0	16.2	2.0	0.0	0.0	0.0	0.0
23°	1931.5	171.8	14.2	1.4	0.0	0.0	0.0	0.0
24°	2056.6	175.8	12.2	1.4	0.0	0.0	0.0	0.0
25°	2134.4	175.8	10.8	1.4	0.0	0.0	0.0	0.0
26°	2180.3	171.8	9.5	0.7	0.0	0.0	0.0	0.0
27°	2191.2	165.0	8.1	0.7	0.0	0.0	0.0	0.0
28°	2177.6	156.2	6.8	0.0	0.0	0.0	0.0	0.0
29°	2135.0	143.4	6.1	0.0	0.0	0.0	0.0	0.0
30°	2089.0	129.8	4.7	0.0	0.0	0.0	0.0	0.0
31°	2010.6	111.6	4.1	0.0	0.0	0.0	0.0	0.0
32°	1920.0	92.7	3.4	0.0	0.0	0.0	0.0	0.0
33°	1798.9	73.0	2.7	0.0	0.0	0.0	0.0	0.0
34°	1620.4	57.5	2.7	0.0	0.0	0.0	0.0	0.0
35°	1460.1	46.7	2.0	0.0	0.0	0.0	0.0	0.0
36°	1250.4	37.2	2.0	0.0	0.0	0.0	0.0	0.0
37°	1071.2	31.1	2.0	0.0	0.0	0.0	0.0	0.0
38°	896.8	26.4	1.4	0.0	0.0	0.0	0.0	0.0
39°	727.7	23.0	1.4	0.0	0.0	0.0	0.0	0.0
40°	580.3	20.3	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	313.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	173.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	76.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	25.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	1.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.4	1.4	0.7	0.0	0.0	0.0
67.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.0	0.7	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	0.7	1.4	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.0	0.7	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)