

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: P1316935

Luminaire Tested: P3SQAS09R209830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316935
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: P3SQAS09R209830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

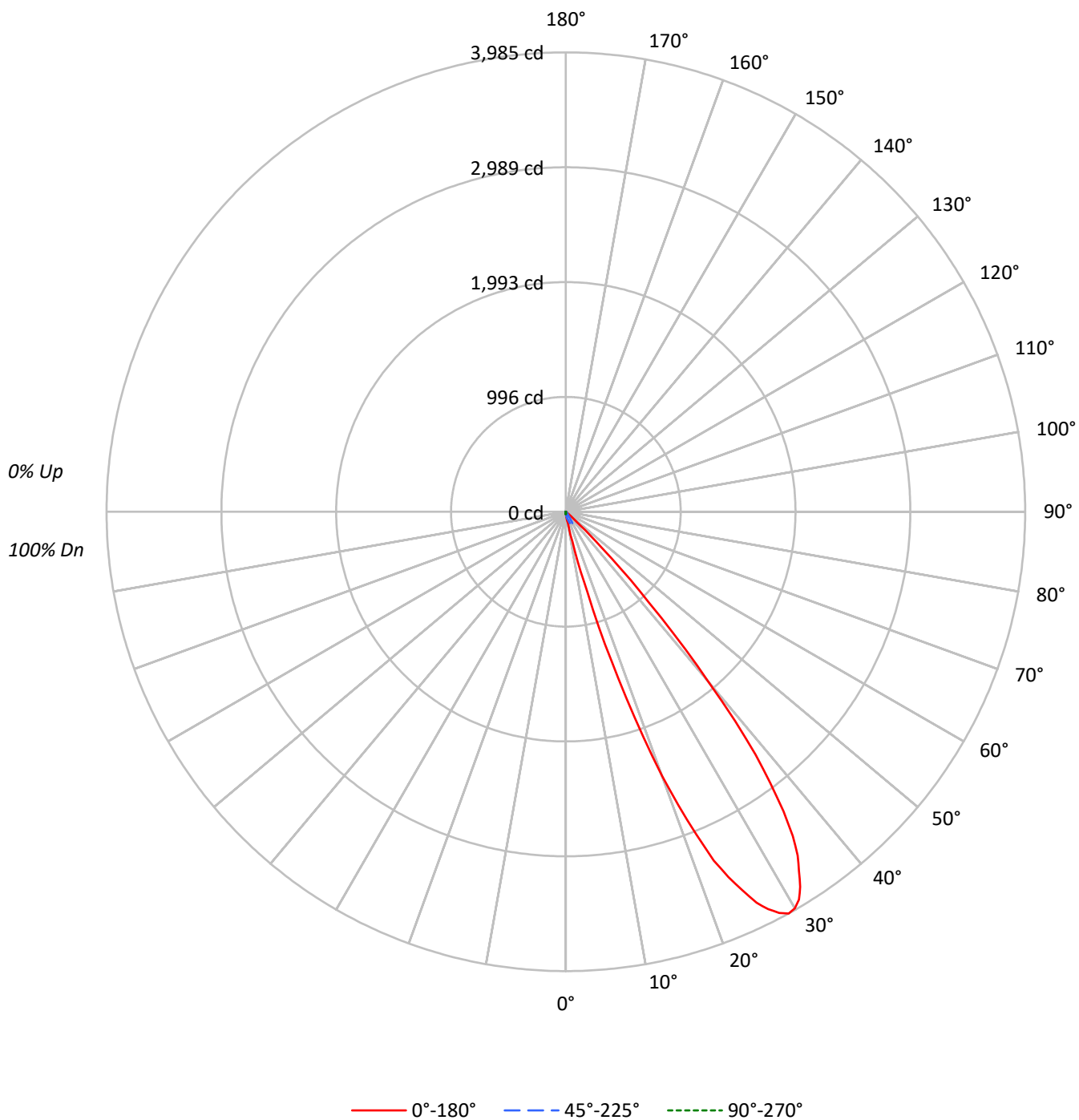
Lumens per Lamp: N/A
Luminaire Lumens: 549.9 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	50		
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°	3393	3393	3393	3393	3393
5°	7382	5204	3129	1418	1037
10°	18362	9181	2203	280	0
15°	129230	12588	1266	0	0
20°	446624	21150	495	0	0
25°	688410	27022	209	0	0
30°	790172	20881	0	0	0
35°	721645	7926	0	0	0
40°	432622	3687	0	0	0
45°	106314	1729	0	0	0
50°	11735	429	0	0	0
55°	1651	0	150	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	252	806	0	0
75°	0	333	1065	0	0
80°	0	496	1587	0	0
85°	0	988	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 113377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	43.0	7.8
20°-30°	217.3	39.5
30°-40°	235.1	42.7
40°-50°	49.6	9.0
50°-60°	1.5	0.3
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	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°	262.5	47.7
0°-40°	497.5	90.5
0°-60°	548.7	99.8
0°-90°	549.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	549.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	43	30	18	8	6	6
15°	725	71	7	0	0	302
25°	3623	142	1	0	0	1637
35°	3432	38	0	0	0	2024
45°	436	7	0	0	0	480
55°	6	0	0	0	0	10
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	26.8	26.3	26.8	26.3	26.8	26.8	26.8	26.3	26.3	26.3	26.3
5°	42.7	42.7	42.1	42.7	42.7	42.7	42.7	42.1	42.1	41.6	41.6
7.5°	67.3	67.3	66.7	66.7	67.3	67.8	65.6	66.7	66.7	66.7	66.2
10°	105.0	107.2	105.0	107.8	105.6	103.9	106.7	103.9	103.9	103.4	101.7
12.5°	264.7	258.7	254.9	245.6	254.9	247.8	249.4	247.8	242.3	235.2	230.8
15°	724.8	724.8	703.4	731.9	711.1	718.8	679.4	679.9	659.7	637.8	625.8
17.5°	1515.2	1528.8	1514.6	1505.9	1487.3	1460.5	1449.5	1421.6	1385.0	1342.3	1337.4
20°	2436.9	2379.4	2406.2	2381.6	2366.3	2333.5	2296.8	2273.9	2241.6	2187.4	2107.6
21°	2726.8	2724.6	2724.0	2723.5	2701.1	2647.5	2614.1	2568.1	2522.7	2466.9	2400.2
22°	3018.9	3029.3	3033.6	3001.9	2956.0	2931.9	2908.9	2846.0	2774.4	2745.4	2666.1
23°	3286.9	3277.0	3248.6	3233.8	3198.3	3191.2	3122.8	3082.9	3012.8	2981.1	2887.0
24°	3469.6	3464.7	3451.5	3429.7	3401.2	3357.5	3316.4	3253.5	3196.1	3144.1	3056.6
25°	3622.7	3627.1	3603.1	3588.3	3557.7	3508.4	3458.1	3389.2	3335.6	3274.9	3173.7
26°	3774.3	3743.6	3724.5	3702.6	3669.2	3612.9	3564.2	3502.4	3437.3	3369.5	3270.5
27°	3867.8	3840.4	3811.5	3790.1	3751.8	3698.2	3646.3	3577.9	3505.1	3436.8	3335.0
28°	3941.6	3911.6	3883.1	3857.4	3813.6	3756.2	3693.9	3624.4	3548.9	3478.3	3374.4
29°	3985.4	3949.8	3919.2	3890.2	3850.3	3787.9	3725.0	3650.6	3577.9	3504.0	3397.9
30°	3973.4	3942.7	3913.2	3883.7	3843.2	3784.7	3722.3	3651.2	3577.9	3505.1	3397.4
31°	3926.3	3888.6	3867.2	3837.7	3802.7	3743.1	3689.5	3611.8	3545.6	3466.9	3359.1
32°	3836.1	3812.0	3783.6	3760.6	3726.7	3663.2	3610.7	3547.3	3469.0	3404.5	3291.3
33°	3713.5	3691.1	3676.9	3650.1	3617.3	3573.5	3510.6	3452.6	3364.6	3298.4	3185.1
34°	3596.5	3568.0	3532.5	3524.8	3496.4	3440.0	3383.2	3324.1	3245.3	3161.1	3046.8
35°	3432.4	3402.9	3370.0	3372.8	3338.9	3273.2	3215.2	3149.0	3074.1	2975.1	2866.8
36°	3213.0	3193.4	3188.4	3175.3	3136.5	3058.2	3003.0	2919.9	2857.0	2736.1	2643.1
37°	2945.6	2952.7	2917.1	2900.2	2854.8	2800.1	2768.9	2662.2	2588.9	2498.1	2372.3
38°	2675.3	2665.0	2622.8	2633.2	2570.9	2514.0	2425.9	2362.5	2280.4	2196.2	2095.5
39°	2337.9	2312.1	2261.8	2264.0	2217.0	2153.0	2067.6	1992.7	1943.5	1862.5	1766.2
40°	1924.3	1913.4	1895.9	1866.9	1805.1	1777.2	1701.2	1620.2	1578.6	1466.5	1419.5
42.5°	1067.7	1053.0	1023.4	1013.0	980.2	947.4	903.1	848.9	822.7	789.3	714.9
45°	436.5	465.5	458.4	450.2	425.0	426.7	394.9	398.8	369.8	350.1	336.4
47.5°	96.3	104.5	105.0	101.2	105.0	101.7	100.1	97.4	97.9	99.6	95.7
50°	43.8	43.2	44.3	43.8	43.2	42.7	42.1	40.5	41.6	40.5	39.4
52.5°	17.0	17.5	17.5	16.4	17.0	17.0	17.0	16.4	16.4	16.4	16.4
55°	5.5	5.5	5.5	4.9	4.9	5.5	5.5	5.5	5.5	5.5	4.9
57.5°	0.5	1.1	0.5	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.1
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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	25.2	23.0	21.3	19.7	16.4	13.7	12.6	12.6
5°	38.8	30.1	22.4	18.1	12.6	8.2	6.6	6.0
7.5°	58.5	40.5	23.5	15.3	8.2	4.4	2.7	2.2
10°	84.8	52.5	24.6	12.6	4.9	1.6	0.0	0.0
12.5°	148.2	62.9	24.6	9.8	2.2	0.0	0.0	0.0
15°	339.7	70.6	23.5	7.1	0.5	0.0	0.0	0.0
17.5°	705.6	88.6	20.8	4.9	0.0	0.0	0.0	0.0
20°	1126.8	115.4	16.4	2.7	0.0	0.0	0.0	0.0
21°	1300.2	124.7	14.8	2.2	0.0	0.0	0.0	0.0
22°	1424.9	133.5	13.1	1.6	0.0	0.0	0.0	0.0
23°	1562.2	138.9	11.5	1.1	0.0	0.0	0.0	0.0
24°	1663.4	142.2	9.8	1.1	0.0	0.0	0.0	0.0
25°	1726.3	142.2	8.8	1.1	0.0	0.0	0.0	0.0
26°	1763.5	138.9	7.7	0.5	0.0	0.0	0.0	0.0
27°	1772.3	133.5	6.6	0.5	0.0	0.0	0.0	0.0
28°	1761.3	126.4	5.5	0.0	0.0	0.0	0.0	0.0
29°	1726.9	116.0	4.9	0.0	0.0	0.0	0.0	0.0
30°	1689.7	105.0	3.8	0.0	0.0	0.0	0.0	0.0
31°	1626.2	90.3	3.3	0.0	0.0	0.0	0.0	0.0
32°	1552.9	74.9	2.7	0.0	0.0	0.0	0.0	0.0
33°	1455.0	59.1	2.2	0.0	0.0	0.0	0.0	0.0
34°	1310.6	46.5	2.2	0.0	0.0	0.0	0.0	0.0
35°	1181.0	37.7	1.6	0.0	0.0	0.0	0.0	0.0
36°	1011.4	30.1	1.6	0.0	0.0	0.0	0.0	0.0
37°	866.4	25.2	1.6	0.0	0.0	0.0	0.0	0.0
38°	725.3	21.3	1.1	0.0	0.0	0.0	0.0	0.0
39°	588.6	18.6	1.1	0.0	0.0	0.0	0.0	0.0
40°	469.3	16.4	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	253.3	10.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	140.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	61.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	20.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.1	1.6	0.5	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	0.5	1.1	1.6	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.1	1.6	0.5	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)