

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: P1316220

Luminaire Tested: P3SQAS13R259827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R259827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

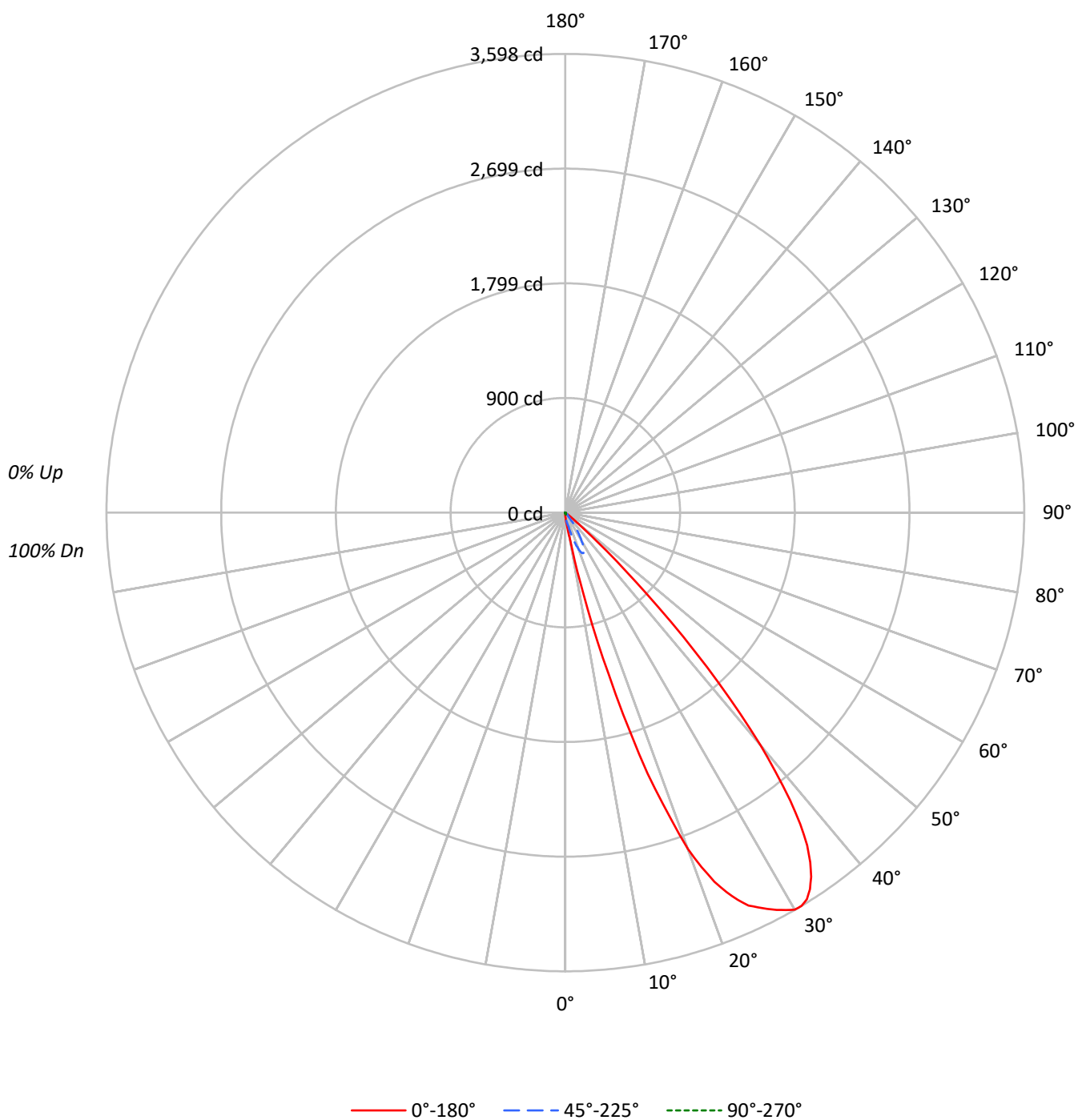
Lumens per Lamp: N/A
Luminaire Lumens: 705.0 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	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°	3841	3841	3841	3841	3841
5°	12032	8402	3509	1867	1400
10°	37914	15232	2606	245	0
15°	234408	29009	1569	0	0
20°	513960	56559	495	0	0
25°	646072	65065	0	0	0
30°	715200	50353	0	0	0
35°	704026	28530	0	0	0
40°	535141	7442	0	0	0
45°	216768	3288	0	0	0
50°	24060	375	0	0	0
55°	1832	0	210	0	0
60°	0	0	241	0	0
65°	0	0	571	0	0
70°	0	352	705	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: 0°

Vertical Angle: 45°

Luminance: 216768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	72.8	10.3
20°-30°	254.5	36.1
30°-40°	284.0	40.3
40°-50°	85.8	12.2
50°-60°	2.9	0.4
60°-70°	0.4	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°	330.9	46.9
0°-40°	614.8	87.2
0°-60°	703.5	99.8
0°-90°	705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	70	49	20	11	8	11
15°	1315	163	9	0	0	437
25°	3400	342	0	0	0	1551
35°	3349	136	0	0	0	2010
45°	890	14	0	0	0	769
55°	6	0	1	0	0	19
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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	38.5	39.8	39.2	39.8	39.2	39.2	39.2	39.8	39.2	39.2	39.2
5°	69.6	70.2	70.2	69.6	69.6	70.9	69.6	70.2	68.2	69.6	68.9
7.5°	114.1	112.8	112.8	113.4	113.4	112.1	111.4	110.1	111.4	111.4	109.4
10°	216.8	215.4	212.0	210.7	212.0	212.0	205.3	206.6	207.3	201.2	199.2
12.5°	636.8	632.0	641.5	626.6	617.9	603.7	611.8	584.1	578.0	574.0	564.5
15°	1314.7	1350.5	1335.0	1336.3	1339.0	1305.3	1316.7	1274.9	1239.8	1229.0	1221.5
17.5°	2143.9	2154.7	2140.5	2133.8	2131.1	2114.9	2095.3	2074.4	2047.4	2023.7	2004.1
20°	2804.3	2796.2	2771.9	2774.6	2745.6	2730.7	2713.8	2692.9	2672.0	2637.5	2604.4
21°	2978.5	2954.9	2955.6	2939.4	2938.7	2919.8	2890.1	2868.5	2849.6	2810.4	2789.5
22°	3121.7	3116.3	3104.1	3092.0	3079.1	3069.7	3036.6	3025.8	2987.3	2954.9	2925.2
23°	3233.1	3235.1	3224.3	3216.2	3198.7	3194.6	3152.1	3137.2	3110.9	3061.6	3031.2
24°	3325.6	3322.2	3310.1	3295.9	3285.8	3276.3	3243.9	3219.6	3190.6	3150.0	3120.3
25°	3399.9	3391.8	3383.7	3372.9	3356.7	3345.9	3312.8	3285.8	3260.8	3215.5	3175.0
26°	3443.8	3445.8	3433.0	3424.9	3410.7	3399.9	3365.4	3333.7	3302.6	3254.0	3217.6
27°	3488.3	3486.3	3474.8	3462.7	3447.8	3443.8	3403.9	3370.8	3339.1	3287.8	3244.6
28°	3529.5	3524.1	3514.7	3500.5	3484.3	3472.1	3433.6	3399.2	3364.8	3310.1	3262.8
29°	3564.0	3558.6	3552.5	3534.3	3513.3	3505.2	3464.0	3422.2	3387.7	3331.7	3281.7
30°	3596.4	3586.3	3572.1	3556.5	3536.3	3520.8	3477.5	3441.1	3400.6	3338.4	3290.5
31°	3597.7	3584.2	3574.1	3557.9	3534.9	3516.0	3470.8	3433.6	3386.4	3328.3	3276.3
32°	3574.1	3567.3	3551.1	3533.6	3511.3	3492.4	3442.4	3403.3	3358.7	3296.6	3244.6
33°	3520.8	3514.0	3504.5	3486.3	3457.3	3439.7	3395.2	3351.9	3308.1	3252.0	3192.6
34°	3447.2	3439.0	3426.9	3408.7	3379.0	3360.7	3324.9	3280.4	3233.8	3175.7	3120.3
35°	3348.6	3333.0	3329.7	3302.6	3275.0	3270.2	3227.7	3181.1	3133.8	3069.7	3021.7
36°	3226.3	3208.1	3196.0	3186.5	3168.3	3146.0	3104.1	3067.0	3006.2	2965.0	2897.5
37°	3059.6	3037.3	3048.8	3023.1	2994.7	2985.3	2931.9	2898.2	2846.9	2790.8	2733.4
38°	2865.1	2863.1	2860.4	2848.9	2800.3	2775.3	2753.0	2717.2	2672.6	2605.1	2527.5
39°	2619.3	2623.3	2609.2	2610.5	2586.2	2561.2	2530.2	2489.6	2435.6	2374.2	2311.4
40°	2380.3	2322.9	2333.0	2298.6	2300.6	2263.4	2222.9	2187.1	2152.7	2098.7	2012.9
42.5°	1646.9	1638.2	1607.8	1586.2	1595.6	1547.7	1494.3	1444.4	1396.4	1335.6	1260.7
45°	890.0	869.7	875.8	840.7	840.7	819.1	804.2	762.4	717.8	690.1	646.9
47.5°	330.9	334.9	342.4	328.2	312.0	321.4	307.2	307.2	299.8	291.0	278.9
50°	89.8	91.2	89.8	89.8	87.8	86.4	83.7	83.1	82.4	80.4	77.0
52.5°	36.5	34.4	34.4	35.1	35.1	33.8	34.4	34.4	33.8	33.1	33.1
55°	6.1	6.8	6.8	6.8	6.8	6.1	6.1	6.8	7.4	6.8	6.8
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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	37.8	33.1	27.7	23.0	18.2	15.5	14.2	14.9
5°	64.1	48.6	31.7	20.3	14.2	10.8	8.8	8.1
7.5°	98.6	66.8	35.8	17.6	10.8	5.4	3.4	2.7
10°	151.3	87.1	38.5	14.9	6.8	1.4	0.0	0.0
12.5°	388.3	106.7	39.2	12.2	2.7	0.0	0.0	0.0
15°	798.1	162.7	37.8	8.8	0.7	0.0	0.0	0.0
17.5°	1326.9	249.2	33.1	6.1	0.0	0.0	0.0	0.0
20°	1840.7	308.6	26.3	2.7	0.0	0.0	0.0	0.0
21°	1995.4	326.1	23.6	2.0	0.0	0.0	0.0	0.0
22°	2121.6	339.0	20.9	1.4	0.0	0.0	0.0	0.0
23°	2227.0	345.7	18.2	0.7	0.0	0.0	0.0	0.0
24°	2300.6	347.1	16.9	0.7	0.0	0.0	0.0	0.0
25°	2335.7	342.4	14.9	0.0	0.0	0.0	0.0	0.0
26°	2349.2	332.9	13.5	0.0	0.0	0.0	0.0	0.0
27°	2339.1	320.7	12.2	0.0	0.0	0.0	0.0	0.0
28°	2320.8	302.5	10.1	0.0	0.0	0.0	0.0	0.0
29°	2285.0	278.2	8.8	0.0	0.0	0.0	0.0	0.0
30°	2250.6	253.2	7.4	0.0	0.0	0.0	0.0	0.0
31°	2211.4	230.9	6.1	0.0	0.0	0.0	0.0	0.0
32°	2163.5	205.3	4.7	0.0	0.0	0.0	0.0	0.0
33°	2083.8	181.6	3.4	0.0	0.0	0.0	0.0	0.0
34°	1972.4	159.4	2.7	0.0	0.0	0.0	0.0	0.0
35°	1823.2	135.7	2.0	0.0	0.0	0.0	0.0	0.0
36°	1659.8	110.7	1.4	0.0	0.0	0.0	0.0	0.0
37°	1459.9	80.4	1.4	0.0	0.0	0.0	0.0	0.0
38°	1251.2	50.6	0.7	0.0	0.0	0.0	0.0	0.0
39°	1037.9	38.5	0.7	0.0	0.0	0.0	0.0	0.0
40°	842.7	33.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	451.1	22.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	266.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	148.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	53.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.7	0.0	0.7	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.0	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	1.4	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	1.4	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)