

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: P1310054

Luminaire Tested: P3SQAS09R259040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310054
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: P3SQAS09R259040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

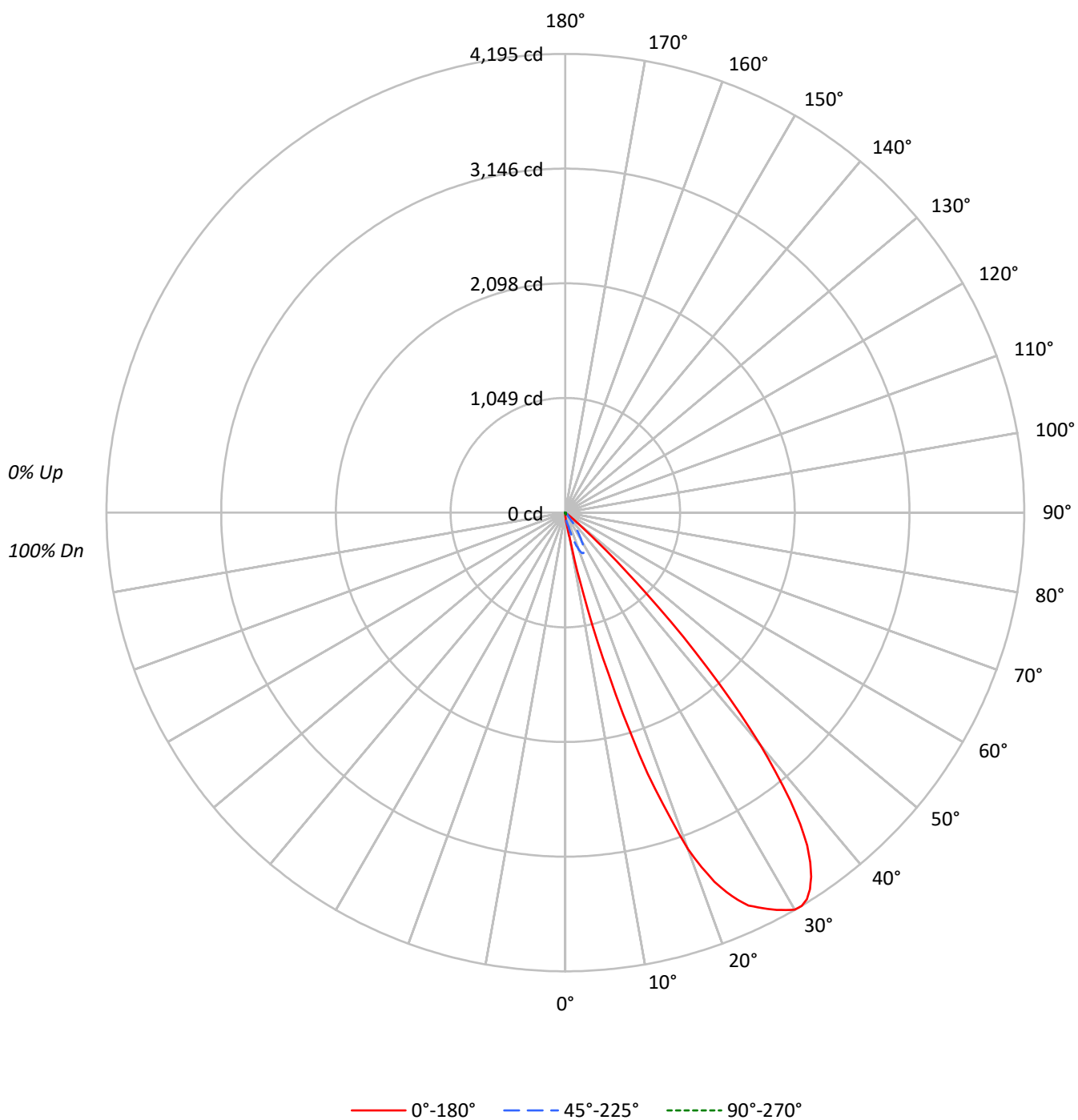
Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	0
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°	4478	4478	4478	4478	4478
5°	14021	9802	4080	2178	1625
10°	44192	17768	3025	280	0
15°	273313	33823	1819	0	0
20°	599256	65943	568	0	0
25°	753285	75859	0	0	0
30°	833883	58705	0	0	0
35°	820860	33261	0	0	0
40°	623945	8678	0	0	0
45°	252742	3824	0	0	0
50°	28052	429	0	0	0
55°	2132	0	240	0	0
60°	0	0	276	0	0
65°	0	0	652	0	0
70°	0	403	806	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 252742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	84.9	10.3
20°-30°	296.8	36.1
30°-40°	331.1	40.3
40°-50°	100.0	12.2
50°-60°	3.3	0.4
60°-70°	0.4	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	385.8	46.9
0°-40°	716.8	87.2
0°-60°	820.2	99.8
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	81	57	24	13	9	13
15°	1533	190	10	0	0	510
25°	3964	399	0	0	0	1808
35°	3904	158	0	0	0	2344
45°	1038	16	0	0	0	896
55°	7	0	1	0	0	22
65°	0	0	2	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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	44.9	46.5	45.7	46.5	45.7	45.7	45.7	46.5	45.7	45.7	45.7
5°	81.1	81.9	81.9	81.1	81.1	82.7	81.1	81.9	79.5	81.1	80.3
7.5°	133.1	131.5	131.5	132.3	132.3	130.7	129.9	128.3	129.9	129.9	127.5
10°	252.7	251.2	247.2	245.6	247.2	247.2	239.3	240.9	241.7	234.6	232.3
12.5°	742.4	736.9	747.9	730.6	720.4	703.9	713.3	681.0	673.9	669.2	658.2
15°	1532.9	1574.6	1556.5	1558.1	1561.2	1521.9	1535.3	1486.4	1445.5	1432.9	1424.2
17.5°	2499.7	2512.3	2495.8	2487.9	2484.8	2465.9	2443.0	2418.6	2387.1	2359.6	2336.7
20°	3269.7	3260.3	3231.9	3235.1	3201.2	3183.9	3164.2	3139.8	3115.4	3075.2	3036.7
21°	3472.8	3445.3	3446.1	3427.2	3426.4	3404.3	3369.7	3344.5	3322.5	3276.8	3252.4
22°	3639.7	3633.4	3619.3	3605.1	3590.1	3579.1	3540.5	3527.9	3483.1	3445.3	3410.6
23°	3769.7	3772.0	3759.4	3750.0	3729.5	3724.8	3675.2	3657.9	3627.2	3569.7	3534.2
24°	3877.5	3873.6	3859.4	3842.9	3831.1	3820.0	3782.3	3753.9	3720.1	3672.8	3638.2
25°	3964.1	3954.7	3945.2	3932.6	3913.7	3901.1	3862.6	3831.1	3801.9	3749.2	3701.9
26°	4015.3	4017.7	4002.7	3993.3	3976.7	3964.1	3924.0	3887.0	3850.7	3794.1	3751.5
27°	4067.3	4064.9	4051.5	4037.3	4020.0	4015.3	3968.8	3930.3	3893.3	3833.4	3783.0
28°	4115.3	4109.0	4098.0	4081.4	4062.5	4048.4	4003.5	3963.3	3923.2	3859.4	3804.3
29°	4155.4	4149.1	4142.1	4120.8	4096.4	4086.9	4038.9	3990.1	3949.9	3884.6	3826.3
30°	4193.2	4181.4	4164.9	4146.8	4123.2	4105.1	4054.7	4012.1	3964.9	3892.5	3836.6
31°	4194.8	4179.1	4167.2	4148.4	4121.6	4099.5	4046.8	4003.5	3948.4	3880.7	3820.0
32°	4167.2	4159.4	4140.5	4120.0	4094.0	4072.0	4013.7	3968.1	3916.1	3843.7	3783.0
33°	4105.1	4097.2	4086.2	4064.9	4031.0	4010.6	3958.6	3908.2	3857.0	3791.7	3722.4
34°	4019.2	4009.8	3995.6	3974.4	3939.7	3918.5	3876.7	3824.8	3770.4	3702.7	3638.2
35°	3904.3	3886.2	3882.2	3850.7	3818.5	3813.0	3763.4	3709.0	3653.9	3579.1	3523.2
36°	3761.8	3740.5	3726.4	3715.3	3694.1	3668.1	3619.3	3576.0	3505.1	3457.1	3378.4
37°	3567.3	3541.3	3554.7	3524.8	3491.7	3480.7	3418.5	3379.1	3319.3	3254.0	3187.0
38°	3340.6	3338.2	3335.1	3321.7	3265.0	3235.9	3209.9	3168.1	3116.2	3037.5	2946.9
39°	3054.0	3058.7	3042.2	3043.8	3015.4	2986.3	2950.1	2902.8	2839.8	2768.2	2695.0
40°	2775.3	2708.4	2720.2	2680.0	2682.4	2639.1	2591.8	2550.1	2510.0	2447.0	2347.0
42.5°	1920.3	1910.0	1874.6	1849.4	1860.4	1804.5	1742.3	1684.1	1628.2	1557.3	1469.9
45°	1037.7	1014.1	1021.1	980.2	980.2	955.0	937.7	888.9	836.9	804.6	754.2
47.5°	385.8	390.5	399.2	382.6	363.7	374.8	358.2	358.2	349.6	339.3	325.2
50°	104.7	106.3	104.7	104.7	102.4	100.8	97.6	96.8	96.1	93.7	89.8
52.5°	42.5	40.2	40.2	40.9	40.9	39.4	40.2	40.2	39.4	38.6	38.6
55°	7.1	7.9	7.9	7.9	7.9	7.1	7.1	7.9	8.7	7.9	7.9
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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	44.1	38.6	32.3	26.8	21.3	18.1	16.5	17.3
5°	74.8	56.7	37.0	23.6	16.5	12.6	10.2	9.4
7.5°	114.9	77.9	41.7	20.5	12.6	6.3	3.9	3.1
10°	176.4	101.6	44.9	17.3	7.9	1.6	0.0	0.0
12.5°	452.7	124.4	45.7	14.2	3.1	0.0	0.0	0.0
15°	930.6	189.7	44.1	10.2	0.8	0.0	0.0	0.0
17.5°	1547.1	290.5	38.6	7.1	0.0	0.0	0.0	0.0
20°	2146.2	359.8	30.7	3.1	0.0	0.0	0.0	0.0
21°	2326.5	380.3	27.6	2.4	0.0	0.0	0.0	0.0
22°	2473.7	395.2	24.4	1.6	0.0	0.0	0.0	0.0
23°	2596.6	403.1	21.3	0.8	0.0	0.0	0.0	0.0
24°	2682.4	404.7	19.7	0.8	0.0	0.0	0.0	0.0
25°	2723.3	399.2	17.3	0.0	0.0	0.0	0.0	0.0
26°	2739.1	388.1	15.7	0.0	0.0	0.0	0.0	0.0
27°	2727.3	374.0	14.2	0.0	0.0	0.0	0.0	0.0
28°	2706.0	352.7	11.8	0.0	0.0	0.0	0.0	0.0
29°	2664.3	324.4	10.2	0.0	0.0	0.0	0.0	0.0
30°	2624.1	295.2	8.7	0.0	0.0	0.0	0.0	0.0
31°	2578.5	269.3	7.1	0.0	0.0	0.0	0.0	0.0
32°	2522.6	239.3	5.5	0.0	0.0	0.0	0.0	0.0
33°	2429.6	211.8	3.9	0.0	0.0	0.0	0.0	0.0
34°	2299.7	185.8	3.1	0.0	0.0	0.0	0.0	0.0
35°	2125.7	158.2	2.4	0.0	0.0	0.0	0.0	0.0
36°	1935.2	129.1	1.6	0.0	0.0	0.0	0.0	0.0
37°	1702.2	93.7	1.6	0.0	0.0	0.0	0.0	0.0
38°	1458.9	59.0	0.8	0.0	0.0	0.0	0.0	0.0
39°	1210.1	44.9	0.8	0.0	0.0	0.0	0.0	0.0
40°	982.6	38.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	525.9	26.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	310.2	15.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	173.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	62.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.7	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.8	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.6	1.6	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	1.6	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	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	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)