

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: P1315150

Luminaire Tested: P3SQAS09R209740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315150
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: P3SQAS09R209740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

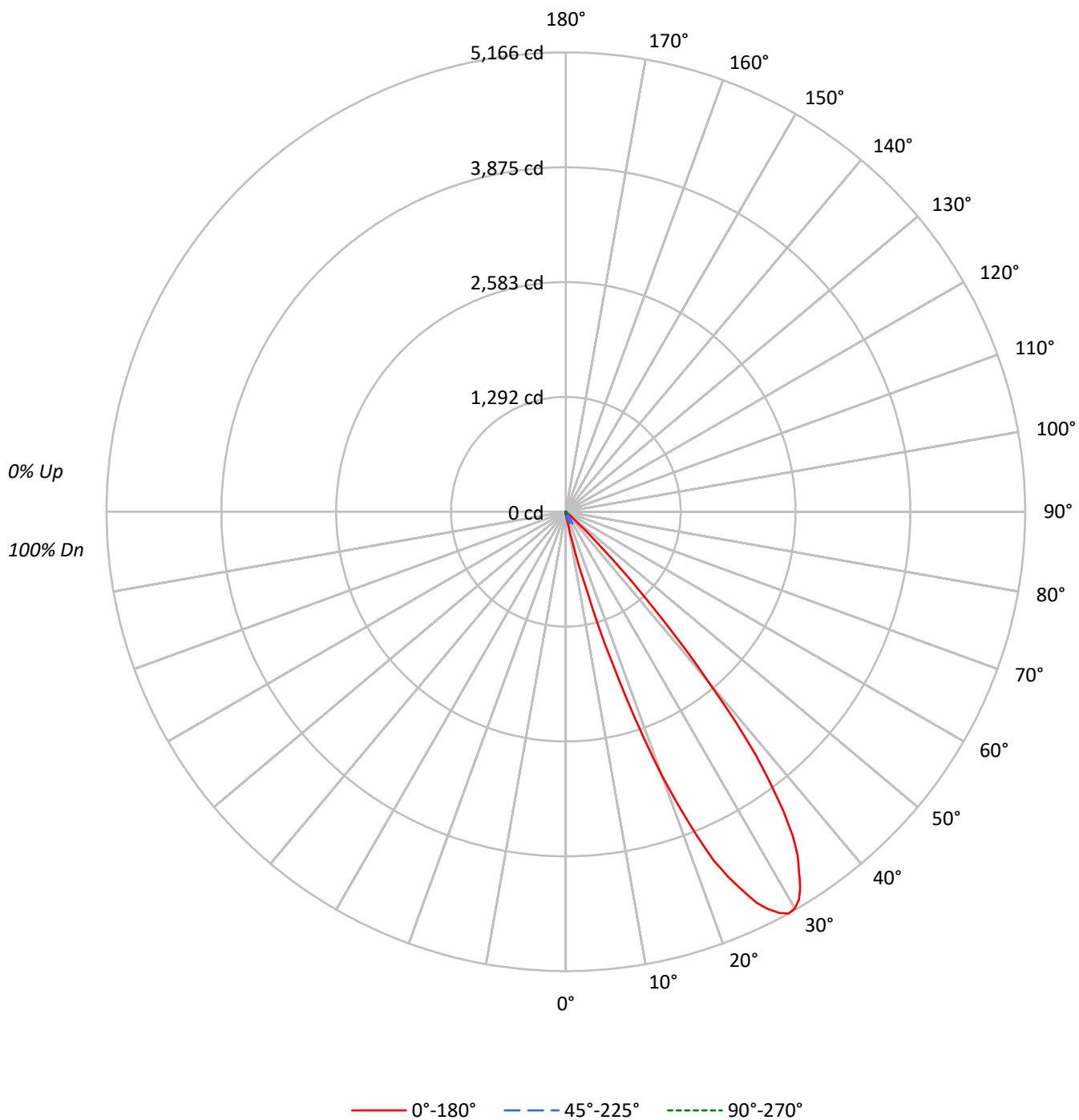
Lumens per Lamp: N/A
Luminaire Lumens: 713.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	4392	4392	4392	4392	4392
5°	9560	6742	4045	1833	1348
10°	23801	11909	2851	367	0
15°	167529	16314	1640	0	0
20°	578986	27418	641	0	0
25°	892441	35041	266	0	0
30°	1024337	27066	0	0	0
35°	935506	10281	0	0	0
40°	560838	4789	0	0	0
45°	137830	2241	0	0	0
50°	15192	563	0	0	0
55°	2132	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1057	0	0
75°	0	466	1397	0	0
80°	0	694	2083	0	0
85°	0	1383	4150	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 146964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.4
10°-20°	55.7	7.8
20°-30°	281.7	39.5
30°-40°	304.7	42.7
40°-50°	64.4	9.0
50°-60°	1.9	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°	340.2	47.7
0°-40°	645.0	90.5
0°-60°	711.3	99.8
0°-90°	713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	55	39	23	11	8	8
15°	940	92	9	0	0	392
25°	4696	184	1	0	0	2123
35°	4450	49	0	0	0	2624
45°	566	9	0	0	0	622
55°	7	0	1	0	0	13
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°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
2.5°	34.7	34.0	34.7	34.0	34.7	34.7	34.7	34.0	34.0	34.0	34.0
5°	55.3	55.3	54.6	55.3	55.3	55.3	55.3	54.6	54.6	53.9	53.9
7.5°	87.2	87.2	86.5	86.5	87.2	87.9	85.1	86.5	86.5	86.5	85.8
10°	136.1	139.0	136.1	139.7	136.9	134.7	138.3	134.7	134.7	134.0	131.9
12.5°	343.2	335.4	330.4	318.4	330.4	321.2	323.4	321.2	314.1	304.9	299.2
15°	939.6	939.6	911.9	948.8	921.8	931.8	880.7	881.4	855.2	826.8	811.2
17.5°	1964.2	1981.9	1963.5	1952.2	1928.1	1893.3	1879.1	1843.0	1795.5	1740.1	1733.8
20°	3159.1	3084.6	3119.3	3087.4	3067.6	3025.0	2977.5	2947.7	2905.9	2835.7	2732.2
21°	3534.9	3532.0	3531.3	3530.6	3501.6	3432.1	3388.8	3329.2	3270.4	3198.1	3111.5
22°	3913.5	3927.0	3932.7	3891.6	3832.0	3800.8	3771.0	3689.5	3596.6	3559.0	3456.2
23°	4261.0	4248.2	4211.4	4192.2	4146.1	4136.9	4048.3	3996.5	3905.7	3864.6	3742.6
24°	4497.8	4491.5	4474.4	4446.1	4409.2	4352.5	4299.3	4217.7	4143.3	4075.9	3962.5
25°	4696.4	4702.1	4670.9	4651.7	4612.0	4548.2	4483.0	4393.6	4324.1	4245.4	4114.2
26°	4892.8	4853.1	4828.3	4799.9	4756.7	4683.6	4620.5	4540.4	4456.0	4368.1	4239.7
27°	5014.1	4978.6	4941.0	4913.4	4863.7	4794.2	4726.9	4638.2	4543.9	4455.3	4323.4
28°	5109.8	5070.8	5033.9	5000.6	4943.9	4869.4	4788.6	4698.5	4600.7	4509.2	4374.5
29°	5166.5	5120.4	5080.7	5043.1	4991.4	4910.5	4829.0	4732.6	4638.2	4542.5	4405.0
30°	5150.9	5111.2	5072.9	5034.6	4982.2	4906.3	4825.4	4733.3	4638.2	4543.9	4404.2
31°	5089.9	5041.0	5013.4	4975.1	4929.7	4852.4	4782.9	4682.2	4596.4	4494.3	4354.6
32°	4972.9	4941.7	4904.9	4875.1	4831.1	4748.9	4680.8	4598.5	4497.1	4413.5	4266.7
33°	4814.1	4785.0	4766.6	4731.8	4689.3	4632.6	4551.0	4475.9	4361.7	4275.9	4129.1
34°	4662.4	4625.5	4579.4	4569.5	4532.6	4459.6	4385.8	4309.2	4207.1	4097.9	3949.7
35°	4449.6	4411.3	4368.8	4372.3	4328.4	4243.3	4168.1	4082.3	3985.2	3856.8	3716.4
36°	4165.3	4139.7	4133.4	4116.3	4066.0	3964.6	3893.0	3785.2	3703.6	3546.9	3426.4
37°	3818.5	3827.7	3781.6	3759.7	3700.8	3629.9	3589.5	3451.2	3356.2	3238.5	3075.4
38°	3468.2	3454.8	3400.2	3413.6	3332.8	3259.0	3144.9	3062.6	2956.3	2847.1	2716.6
39°	3030.7	2997.4	2932.1	2935.0	2874.0	2791.0	2680.4	2583.3	2519.4	2414.5	2289.7
40°	2494.6	2480.4	2457.8	2420.2	2340.0	2303.9	2205.3	2100.4	2046.5	1901.1	1840.1
42.5°	1384.2	1365.0	1326.7	1313.3	1270.7	1228.2	1170.7	1100.5	1066.5	1023.2	926.8
45°	565.9	603.4	594.2	583.6	551.0	553.1	512.0	516.9	479.4	453.8	436.1
47.5°	124.8	135.4	136.1	131.2	136.1	131.9	129.8	126.2	126.9	129.1	124.1
50°	56.7	56.0	57.4	56.7	56.0	55.3	54.6	52.5	53.9	52.5	51.1
52.5°	22.0	22.7	22.7	21.3	22.0	22.0	22.0	21.3	21.3	21.3	21.3
55°	7.1	7.1	7.1	6.4	6.4	7.1	7.1	7.1	7.1	7.1	6.4
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°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
2.5°	32.6	29.8	27.7	25.5	21.3	17.7	16.3	16.3
5°	50.3	39.0	29.1	23.4	16.3	10.6	8.5	7.8
7.5°	75.9	52.5	30.5	19.9	10.6	5.7	3.5	2.8
10°	109.9	68.1	31.9	16.3	6.4	2.1	0.0	0.0
12.5°	192.2	81.5	31.9	12.8	2.8	0.0	0.0	0.0
15°	440.4	91.5	30.5	9.2	0.7	0.0	0.0	0.0
17.5°	914.7	114.9	26.9	6.4	0.0	0.0	0.0	0.0
20°	1460.8	149.6	21.3	3.5	0.0	0.0	0.0	0.0
21°	1685.5	161.7	19.1	2.8	0.0	0.0	0.0	0.0
22°	1847.2	173.0	17.0	2.1	0.0	0.0	0.0	0.0
23°	2025.2	180.1	14.9	1.4	0.0	0.0	0.0	0.0
24°	2156.4	184.4	12.8	1.4	0.0	0.0	0.0	0.0
25°	2237.9	184.4	11.3	1.4	0.0	0.0	0.0	0.0
26°	2286.1	180.1	9.9	0.7	0.0	0.0	0.0	0.0
27°	2297.5	173.0	8.5	0.7	0.0	0.0	0.0	0.0
28°	2283.3	163.8	7.1	0.0	0.0	0.0	0.0	0.0
29°	2238.6	150.3	6.4	0.0	0.0	0.0	0.0	0.0
30°	2190.4	136.1	5.0	0.0	0.0	0.0	0.0	0.0
31°	2108.2	117.0	4.3	0.0	0.0	0.0	0.0	0.0
32°	2013.1	97.1	3.5	0.0	0.0	0.0	0.0	0.0
33°	1886.2	76.6	2.8	0.0	0.0	0.0	0.0	0.0
34°	1699.0	60.3	2.8	0.0	0.0	0.0	0.0	0.0
35°	1531.0	48.9	2.1	0.0	0.0	0.0	0.0	0.0
36°	1311.1	39.0	2.1	0.0	0.0	0.0	0.0	0.0
37°	1123.2	32.6	2.1	0.0	0.0	0.0	0.0	0.0
38°	940.3	27.7	1.4	0.0	0.0	0.0	0.0	0.0
39°	763.0	24.1	1.4	0.0	0.0	0.0	0.0	0.0
40°	608.4	21.3	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	328.3	14.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	181.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	80.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	26.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.4	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	2.1	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.1	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	2.1	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.1	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)