

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: P1317957

Luminaire Tested: P3SQAS13R209835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317957
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: P3SQAS13R209835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

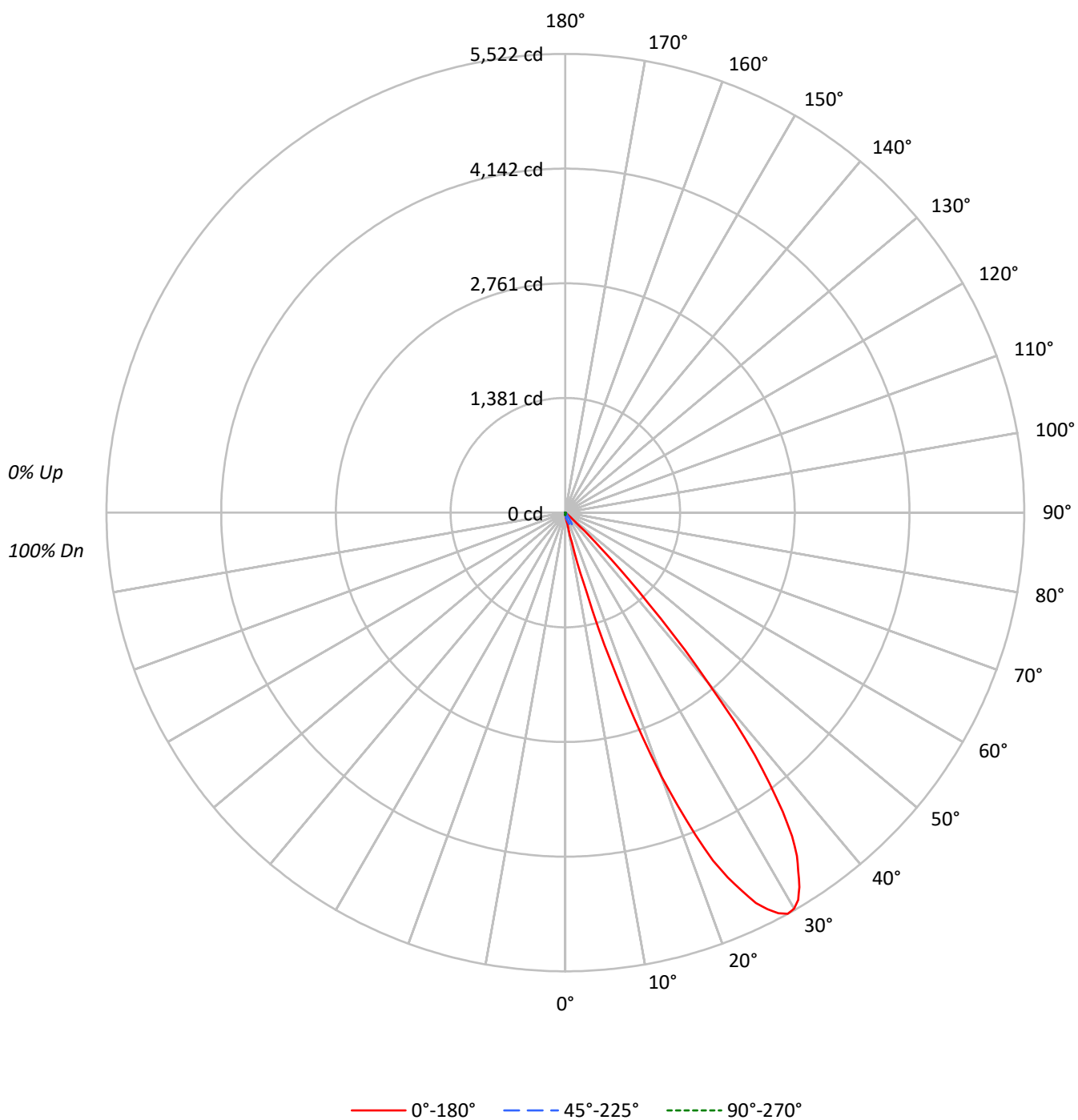
Lumens per Lamp: N/A
Luminaire Lumens: 762.0 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4702	4702	4702	4702	4702
5°	10217	7209	4322	1971	1435
10°	25445	12731	3043	402	0
15°	179029	17438	1765	0	0
20°	618775	29306	696	0	0
25°	953763	37435	285	0	0
30°	1094735	28935	0	0	0
35°	999799	10996	0	0	0
40°	599394	5103	0	0	0
45°	147305	2411	0	0	0
50°	16237	616	0	0	0
55°	2282	0	240	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 157072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	59.5	7.8
20°-30°	301.0	39.5
30°-40°	325.7	42.7
40°-50°	68.8	9.0
50°-60°	2.1	0.3
60°-70°	0.5	0.1
70°-80°	0.7	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°	363.6	47.7
0°-40°	689.3	90.5
0°-60°	760.2	99.8
0°-90°	762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	59	42	25	11	8	8
15°	1004	98	10	0	0	419
25°	5019	197	2	0	0	2269
35°	4755	52	0	0	0	2804
45°	605	10	0	0	0	665
55°	8	0	1	0	0	13
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°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	37.1	36.4	37.1	36.4	37.1	37.1	37.1	36.4	36.4	36.4	36.4
5°	59.1	59.1	58.4	59.1	59.1	59.1	59.1	58.4	58.4	57.6	57.6
7.5°	93.2	93.2	92.5	92.5	93.2	94.0	90.9	92.5	92.5	92.5	91.7
10°	145.5	148.5	145.5	149.3	146.3	144.0	147.8	144.0	144.0	143.2	141.0
12.5°	366.8	358.5	353.2	340.3	353.2	343.3	345.6	343.3	335.7	325.9	319.8
15°	1004.1	1004.1	974.6	1014.0	985.2	995.8	941.2	942.0	913.9	883.6	867.0
17.5°	2099.2	2118.2	2098.4	2086.3	2060.6	2023.4	2008.3	1969.6	1918.8	1859.7	1852.9
20°	3376.2	3296.6	3333.7	3299.6	3278.4	3232.9	3182.2	3150.3	3105.6	3030.6	2919.9
21°	3777.8	3774.8	3774.0	3773.3	3742.2	3667.9	3621.7	3558.0	3495.1	3417.8	3325.4
22°	4182.5	4196.9	4203.0	4159.0	4095.3	4062.0	4030.2	3943.0	3843.7	3803.6	3693.7
23°	4553.8	4540.2	4500.8	4480.3	4431.1	4421.2	4326.5	4271.2	4174.2	4130.2	3999.9
24°	4807.0	4800.1	4781.9	4751.6	4712.2	4651.6	4594.8	4507.6	4428.0	4356.0	4234.8
25°	5019.1	5025.2	4991.9	4971.4	4929.0	4860.8	4791.0	4695.6	4621.3	4537.2	4397.0
26°	5229.1	5186.6	5160.1	5129.8	5083.6	5005.5	4938.1	4852.4	4762.2	4668.3	4531.1
27°	5358.7	5320.8	5280.6	5251.0	5198.0	5123.7	5051.7	4957.0	4856.2	4761.5	4620.5
28°	5461.0	5419.3	5379.9	5344.3	5283.6	5204.1	5117.7	5021.4	4916.8	4819.1	4675.1
29°	5521.6	5472.3	5429.9	5389.7	5334.4	5248.0	5160.9	5057.8	4957.0	4854.7	4707.7
30°	5504.9	5462.5	5421.6	5380.6	5324.6	5243.5	5157.1	5058.6	4957.0	4856.2	4706.9
31°	5439.7	5387.5	5357.9	5317.0	5268.5	5185.9	5111.6	5004.0	4912.3	4803.2	4653.9
32°	5314.7	5281.4	5242.0	5210.1	5163.1	5075.2	5002.5	4914.6	4806.2	4716.8	4559.9
33°	5144.9	5113.9	5094.2	5057.0	5011.6	4950.9	4863.8	4783.5	4661.4	4569.7	4412.9
34°	4982.8	4943.4	4894.1	4883.5	4844.1	4766.0	4687.2	4605.4	4496.2	4379.5	4221.1
35°	4755.4	4714.5	4669.0	4672.8	4625.8	4534.9	4454.6	4362.9	4259.0	4121.9	3971.8
36°	4451.5	4424.2	4417.4	4399.2	4345.4	4237.1	4160.5	4045.3	3958.2	3790.7	3661.9
37°	4080.9	4090.8	4041.5	4018.0	3955.1	3879.4	3836.2	3688.4	3586.8	3461.0	3286.7
38°	3706.6	3692.2	3633.8	3648.2	3561.8	3483.0	3361.0	3273.1	3159.4	3042.7	2903.3
39°	3239.0	3203.4	3133.7	3136.7	3071.5	2982.8	2864.6	2760.8	2692.6	2580.4	2447.1
40°	2666.1	2650.9	2626.7	2586.5	2500.9	2462.2	2356.9	2244.7	2187.1	2031.8	1966.6
42.5°	1479.3	1458.8	1417.9	1403.5	1358.0	1312.6	1251.2	1176.2	1139.8	1093.6	990.5
45°	604.8	644.9	635.1	623.7	588.8	591.1	547.2	552.5	512.3	485.0	466.1
47.5°	133.4	144.7	145.5	140.2	145.5	141.0	138.7	134.9	135.7	137.9	132.6
50°	60.6	59.9	61.4	60.6	59.9	59.1	58.4	56.1	57.6	56.1	54.6
52.5°	23.5	24.3	24.3	22.7	23.5	23.5	23.5	22.7	22.7	22.7	22.7
55°	7.6	7.6	7.6	6.8	6.8	7.6	7.6	7.6	7.6	7.6	6.8
57.5°	0.8	1.5	0.8	1.5	0.8	0.8	0.8	0.8	0.8	1.5	1.5
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°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	34.9	31.8	29.6	27.3	22.7	18.9	17.4	17.4
5°	53.8	41.7	31.1	25.0	17.4	11.4	9.1	8.3
7.5°	81.1	56.1	32.6	21.2	11.4	6.1	3.8	3.0
10°	117.5	72.8	34.1	17.4	6.8	2.3	0.0	0.0
12.5°	205.4	87.2	34.1	13.6	3.0	0.0	0.0	0.0
15°	470.6	97.8	32.6	9.9	0.8	0.0	0.0	0.0
17.5°	977.6	122.8	28.8	6.8	0.0	0.0	0.0	0.0
20°	1561.1	159.9	22.7	3.8	0.0	0.0	0.0	0.0
21°	1801.4	172.8	20.5	3.0	0.0	0.0	0.0	0.0
22°	1974.2	184.9	18.2	2.3	0.0	0.0	0.0	0.0
23°	2164.4	192.5	15.9	1.5	0.0	0.0	0.0	0.0
24°	2304.6	197.0	13.6	1.5	0.0	0.0	0.0	0.0
25°	2391.7	197.0	12.1	1.5	0.0	0.0	0.0	0.0
26°	2443.3	192.5	10.6	0.8	0.0	0.0	0.0	0.0
27°	2455.4	184.9	9.1	0.8	0.0	0.0	0.0	0.0
28°	2440.2	175.1	7.6	0.0	0.0	0.0	0.0	0.0
29°	2392.5	160.7	6.8	0.0	0.0	0.0	0.0	0.0
30°	2341.0	145.5	5.3	0.0	0.0	0.0	0.0	0.0
31°	2253.0	125.0	4.5	0.0	0.0	0.0	0.0	0.0
32°	2151.5	103.8	3.8	0.0	0.0	0.0	0.0	0.0
33°	2015.8	81.8	3.0	0.0	0.0	0.0	0.0	0.0
34°	1815.8	64.4	3.0	0.0	0.0	0.0	0.0	0.0
35°	1636.2	52.3	2.3	0.0	0.0	0.0	0.0	0.0
36°	1401.2	41.7	2.3	0.0	0.0	0.0	0.0	0.0
37°	1200.4	34.9	2.3	0.0	0.0	0.0	0.0	0.0
38°	1004.9	29.6	1.5	0.0	0.0	0.0	0.0	0.0
39°	815.4	25.8	1.5	0.0	0.0	0.0	0.0	0.0
40°	650.2	22.7	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	350.9	15.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	194.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	85.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	28.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.5	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.5	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.5	2.3	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	1.5	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.5	2.3	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)