

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: P1314346

Luminaire Tested: P3SQAS13R209735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314346
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: P3SQAS13R209735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

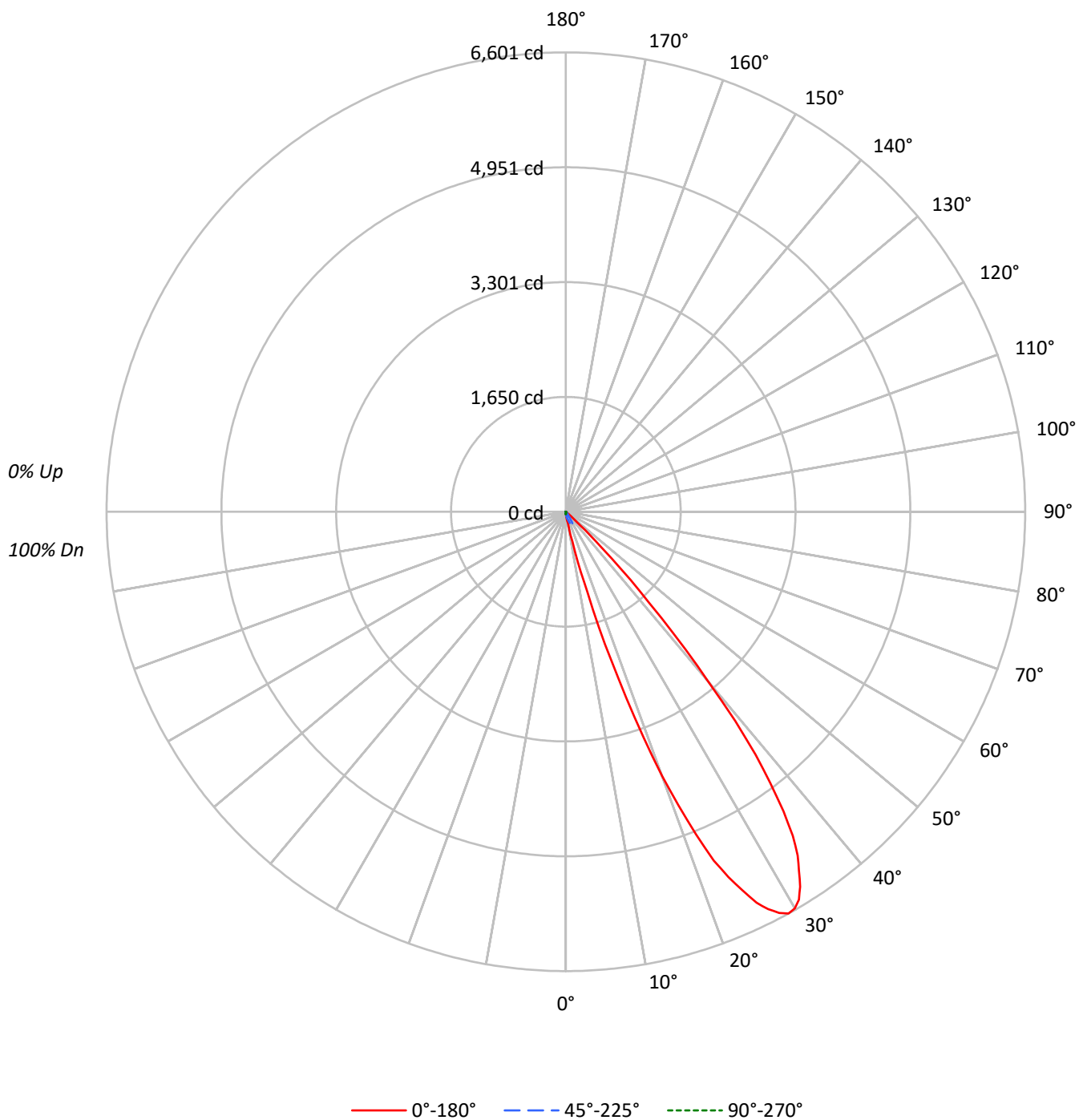
Lumens per Lamp: N/A
Luminaire Lumens: 911.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	5614	5614	5614	5614	5614
5°	12223	8609	5169	2351	1729
10°	30429	15215	3637	472	0
15°	214047	20843	2104	0	0
20°	739755	35042	825	0	0
25°	1140274	44770	342	0	0
30°	1308794	34603	0	0	0
35°	1195306	13140	0	0	0
40°	716593	6115	0	0	0
45°	176094	2874	0	0	0
50°	19425	723	0	0	0
55°	2732	0	270	0	0
60°	0	0	620	0	0
65°	0	0	734	0	0
70°	0	453	1360	0	0
75°	0	599	1797	0	0
80°	0	893	2678	0	0
85°	0	1778	5335	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 187784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.4
10°-20°	71.2	7.8
20°-30°	359.9	39.5
30°-40°	389.4	42.7
40°-50°	82.2	9.0
50°-60°	2.5	0.3
60°-70°	0.6	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	434.7	47.7
0°-40°	824.1	90.5
0°-60°	908.8	99.8
0°-90°	911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	71	50	30	14	10	10
15°	1200	117	12	0	0	500
25°	6001	236	2	0	0	2712
35°	5685	62	0	0	0	3352
45°	723	12	0	0	0	795
55°	9	0	1	0	0	16
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
2.5°	44.4	43.5	44.4	43.5	44.4	44.4	44.4	43.5	43.5	43.5	43.5
5°	70.7	70.7	69.8	70.7	70.7	70.7	70.7	69.8	69.8	68.9	68.9
7.5°	111.4	111.4	110.5	110.5	111.4	112.3	108.7	110.5	110.5	110.5	109.6
10°	174.0	177.6	174.0	178.5	174.9	172.1	176.7	172.1	172.1	171.2	168.5
12.5°	438.5	428.5	422.2	406.8	422.2	410.4	413.1	410.4	401.4	389.6	382.3
15°	1200.5	1200.5	1165.1	1212.3	1177.8	1190.5	1125.3	1126.2	1092.7	1056.4	1036.5
17.5°	2509.7	2532.3	2508.8	2494.3	2463.5	2419.1	2401.0	2354.7	2294.0	2223.4	2215.2
20°	4036.3	3941.2	3985.6	3944.8	3919.4	3865.1	3804.4	3766.3	3712.9	3623.2	3490.9
21°	4516.5	4512.9	4512.0	4511.1	4473.9	4385.1	4329.9	4253.8	4178.6	4086.2	3975.6
22°	5000.3	5017.5	5024.8	4972.2	4896.1	4856.3	4818.2	4714.0	4595.3	4547.3	4415.9
23°	5444.3	5428.0	5380.9	5356.4	5297.5	5285.7	5172.5	5106.3	4990.4	4937.8	4782.0
24°	5746.9	5738.7	5717.0	5680.8	5633.6	5561.2	5493.2	5389.0	5293.9	5207.8	5062.8
25°	6000.6	6007.8	5968.0	5943.5	5892.8	5811.2	5727.9	5613.7	5524.9	5424.4	5256.7
26°	6251.5	6200.8	6169.1	6132.9	6077.6	5984.3	5903.6	5801.3	5693.4	5581.1	5417.1
27°	6406.5	6361.2	6313.2	6277.8	6214.4	6125.6	6039.5	5926.3	5805.8	5692.5	5524.0
28°	6528.8	6479.0	6431.8	6389.3	6316.8	6221.6	6118.4	6003.3	5878.3	5761.4	5589.2
29°	6601.3	6542.4	6491.6	6443.6	6377.5	6274.2	6170.0	6046.8	5926.3	5804.0	5628.2
30°	6581.3	6530.6	6481.7	6432.8	6365.7	6268.8	6165.5	6047.7	5926.3	5805.8	5627.3
31°	6503.4	6440.9	6405.6	6356.6	6298.7	6199.9	6111.1	5982.5	5872.8	5742.4	5563.9
32°	6353.9	6314.1	6267.0	6228.9	6172.7	6067.6	5980.6	5875.5	5746.0	5639.1	5451.5
33°	6151.0	6113.8	6090.3	6045.9	5991.5	5919.0	5814.8	5718.8	5572.9	5463.3	5275.8
34°	5957.1	5910.0	5851.1	5838.4	5791.3	5698.0	5603.7	5505.9	5375.4	5235.9	5046.5
35°	5685.3	5636.4	5582.0	5586.5	5530.4	5421.6	5325.6	5216.0	5091.8	4927.9	4748.5
36°	5322.0	5289.4	5281.2	5259.5	5195.1	5065.6	4974.1	4836.3	4732.2	4531.9	4377.9
37°	4878.9	4890.7	4831.8	4803.7	4728.5	4637.9	4586.3	4409.6	4288.2	4137.8	3929.4
38°	4431.4	4414.1	4344.4	4361.6	4258.3	4164.1	4018.2	3913.1	3777.2	3637.7	3471.0
39°	3872.3	3829.8	3746.4	3750.0	3672.1	3566.1	3424.8	3300.6	3219.1	3085.0	2925.5
40°	3187.4	3169.3	3140.3	3092.3	2989.9	2943.7	2817.7	2683.6	2614.8	2429.0	2351.1
42.5°	1768.6	1744.1	1695.2	1678.0	1623.6	1569.2	1495.8	1406.1	1362.7	1307.4	1184.2
45°	723.0	771.0	759.2	745.7	704.0	706.7	654.1	660.5	612.5	579.9	557.2
47.5°	159.5	173.1	174.0	167.6	174.0	168.5	165.8	161.3	162.2	164.9	158.6
50°	72.5	71.6	73.4	72.5	71.6	70.7	69.8	67.0	68.9	67.0	65.2
52.5°	28.1	29.0	29.0	27.2	28.1	28.1	28.1	27.2	27.2	27.2	27.2
55°	9.1	9.1	9.1	8.2	8.2	9.1	9.1	9.1	9.1	9.1	8.2
57.5°	0.9	1.8	0.9	1.8	0.9	0.9	0.9	0.9	0.9	1.8	1.8
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°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
2.5°	41.7	38.1	35.3	32.6	27.2	22.7	20.8	20.8
5°	64.3	49.8	37.1	29.9	20.8	13.6	10.9	10.0
7.5°	96.9	67.0	39.0	25.4	13.6	7.2	4.5	3.6
10°	140.4	87.0	40.8	20.8	8.2	2.7	0.0	0.0
12.5°	245.5	104.2	40.8	16.3	3.6	0.0	0.0	0.0
15°	562.6	116.9	39.0	11.8	0.9	0.0	0.0	0.0
17.5°	1168.8	146.8	34.4	8.2	0.0	0.0	0.0	0.0
20°	1866.4	191.2	27.2	4.5	0.0	0.0	0.0	0.0
21°	2153.6	206.6	24.5	3.6	0.0	0.0	0.0	0.0
22°	2360.2	221.1	21.7	2.7	0.0	0.0	0.0	0.0
23°	2587.6	230.1	19.0	1.8	0.0	0.0	0.0	0.0
24°	2755.2	235.6	16.3	1.8	0.0	0.0	0.0	0.0
25°	2859.4	235.6	14.5	1.8	0.0	0.0	0.0	0.0
26°	2921.0	230.1	12.7	0.9	0.0	0.0	0.0	0.0
27°	2935.5	221.1	10.9	0.9	0.0	0.0	0.0	0.0
28°	2917.4	209.3	9.1	0.0	0.0	0.0	0.0	0.0
29°	2860.3	192.1	8.2	0.0	0.0	0.0	0.0	0.0
30°	2798.7	174.0	6.3	0.0	0.0	0.0	0.0	0.0
31°	2693.6	149.5	5.4	0.0	0.0	0.0	0.0	0.0
32°	2572.2	124.1	4.5	0.0	0.0	0.0	0.0	0.0
33°	2410.0	97.9	3.6	0.0	0.0	0.0	0.0	0.0
34°	2170.8	77.0	3.6	0.0	0.0	0.0	0.0	0.0
35°	1956.1	62.5	2.7	0.0	0.0	0.0	0.0	0.0
36°	1675.2	49.8	2.7	0.0	0.0	0.0	0.0	0.0
37°	1435.1	41.7	2.7	0.0	0.0	0.0	0.0	0.0
38°	1201.4	35.3	1.8	0.0	0.0	0.0	0.0	0.0
39°	974.9	30.8	1.8	0.0	0.0	0.0	0.0	0.0
40°	777.4	27.2	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	419.5	18.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	231.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	102.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	34.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.2	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	1.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.8	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.8	1.8	0.9	0.0	0.0	0.0
67.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.8	2.7	0.9	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	0.9	1.8	2.7	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.8	2.7	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.8	2.7	0.9	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)