

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: P1316919

Luminaire Tested: P3SQAS09R159830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R159830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

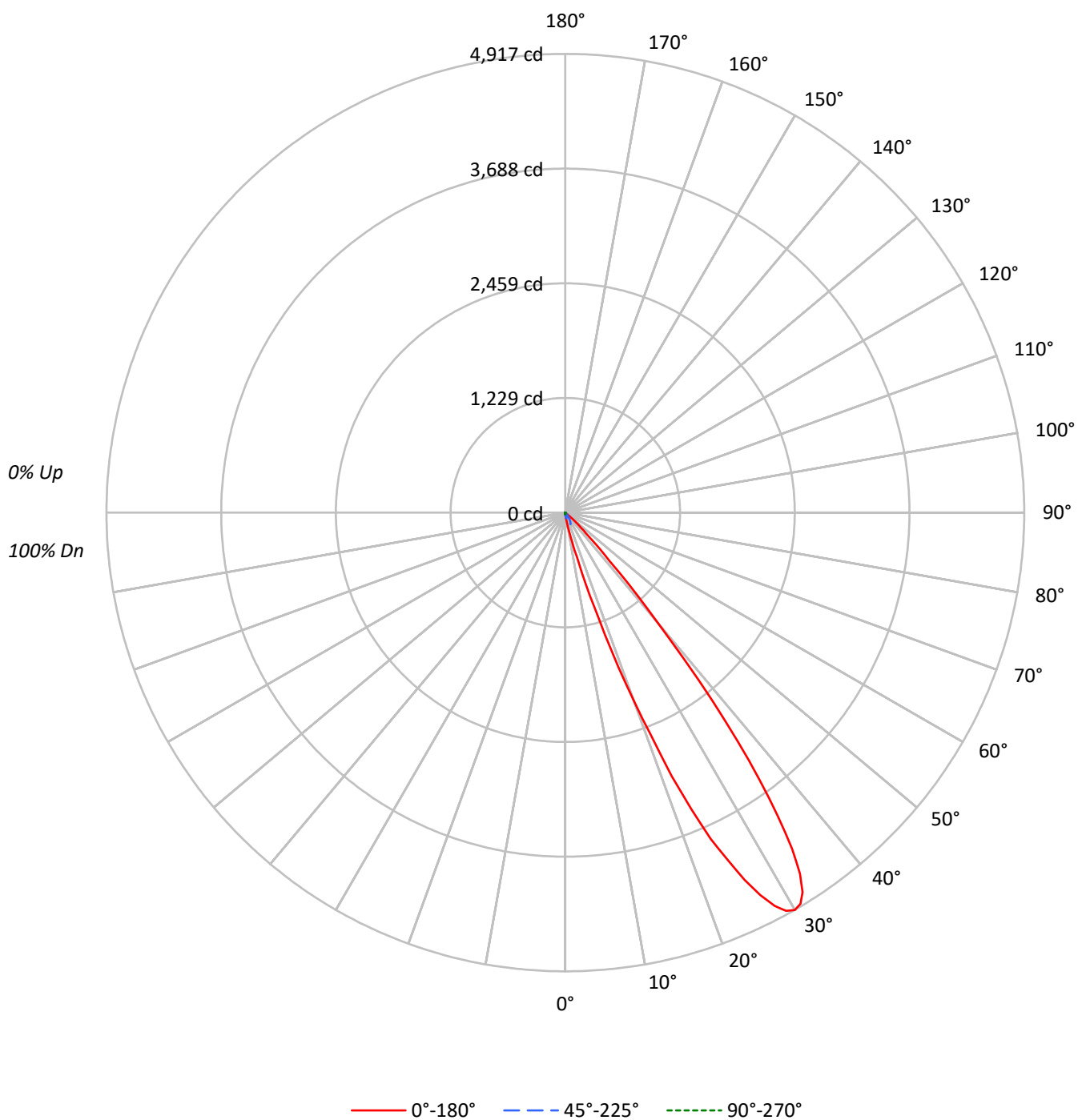
Lumens per Lamp: N/A
Luminaire Lumens: 520.0 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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	94	92						
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68						
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61						
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55						
7	76	65	58	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50						
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45						
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41						
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3203	3203	3203	3203	3203
5°	9266	7002	2749	1141	761
10°	24098	10423	1819	0	0
15°	96317	17063	981	0	0
20°	393547	25145	293	0	0
25°	777969	24931	0	0	0
30°	977802	19688	0	0	0
35°	834294	12068	0	0	0
40°	343481	3822	0	0	0
45°	74310	1607	0	0	0
50°	9512	0	0	0	0
55°	811	0	150	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	252	806	0	0
75°	0	333	1065	0	0
80°	0	496	1587	0	0
85°	0	988	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 77769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	36.4	7.0
20°-30°	212.4	40.9
30°-40°	227.8	43.8
40°-50°	38.4	7.4
50°-60°	1.2	0.2
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	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°	251.3	48.3
0°-40°	479.1	92.1
0°-60°	518.7	99.8
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	54	40	16	7	4	7
15°	540	96	6	0	0	250
25°	4094	131	0	0	0	1852
35°	3968	57	0	0	0	2281
45°	305	7	0	0	0	360
55°	3	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	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°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	33.9	34.4	35.0	35.0	35.0	35.0	34.4	34.4	34.4	34.4	33.9
5°	53.6	53.6	53.6	53.6	53.6	53.6	53.0	53.0	53.0	53.0	53.0
7.5°	76.6	75.5	76.0	74.4	75.5	74.9	74.4	75.5	75.5	72.7	72.7
10°	137.8	137.2	131.8	132.9	134.0	133.4	133.4	130.1	129.6	127.4	125.2
12.5°	265.7	271.8	276.1	276.1	265.7	269.6	262.5	264.1	265.2	261.9	250.4
15°	540.2	550.1	539.7	549.5	545.7	531.5	515.6	494.3	502.5	487.8	482.8
17.5°	1183.3	1205.7	1196.4	1151.0	1165.8	1130.8	1108.9	1100.7	1077.8	1009.4	981.0
20°	2147.3	2174.7	2149.0	2095.9	2112.9	2046.7	2029.8	2013.9	1912.2	1875.0	1755.8
21°	2553.0	2575.5	2585.3	2530.1	2496.2	2443.7	2399.9	2385.7	2323.9	2252.3	2129.8
22°	3043.0	3016.7	2957.7	2965.3	2915.0	2871.8	2811.1	2753.7	2684.8	2584.8	2483.6
23°	3448.7	3418.1	3390.2	3356.3	3302.2	3271.6	3184.6	3121.7	3032.1	2924.9	2827.5
24°	3826.6	3779.5	3762.0	3701.9	3686.6	3617.7	3547.1	3465.1	3356.9	3242.6	3134.9
25°	4094.0	4101.1	4085.8	4078.6	4000.4	3929.9	3859.9	3733.6	3641.2	3540.0	3374.4
26°	4380.5	4383.8	4376.1	4323.6	4253.1	4184.2	4094.0	3984.0	3850.1	3738.0	3588.2
27°	4599.8	4586.6	4575.7	4513.4	4455.4	4368.5	4286.4	4156.3	4025.6	3892.2	3718.3
28°	4774.7	4750.1	4736.5	4682.9	4615.1	4508.4	4407.8	4286.4	4155.7	4012.5	3824.4
29°	4880.3	4854.0	4838.7	4779.7	4701.5	4608.0	4506.2	4372.8	4232.3	4072.6	3883.4
30°	4916.9	4901.6	4877.5	4816.3	4735.4	4638.0	4533.6	4388.7	4241.6	4078.1	3878.0
31°	4892.8	4873.2	4850.2	4784.0	4696.5	4603.6	4482.2	4330.2	4175.4	4019.6	3807.4
32°	4797.1	4785.1	4757.2	4668.6	4597.6	4477.3	4357.5	4215.3	4046.4	3879.1	3687.1
33°	4617.8	4598.1	4574.1	4493.1	4402.4	4287.0	4167.8	4022.3	3854.5	3677.8	3466.8
34°	4344.4	4319.2	4289.2	4235.0	4119.1	4019.0	3881.2	3711.2	3572.3	3402.8	3212.0
35°	3968.2	3931.6	3895.5	3854.5	3724.3	3631.9	3538.9	3390.8	3256.8	3097.1	2881.1
36°	3546.1	3531.8	3502.3	3394.0	3351.9	3226.2	3151.3	2981.2	2872.9	2716.5	2538.3
37°	3068.7	2985.0	3027.7	2967.0	2840.1	2800.8	2711.6	2565.6	2448.6	2283.5	2154.4
38°	2556.9	2502.2	2532.3	2471.0	2404.9	2314.1	2246.3	2139.7	2008.4	1878.8	1756.3
39°	2026.5	1982.2	2015.0	1973.4	1872.8	1835.1	1774.9	1693.5	1587.9	1486.8	1370.8
40°	1527.8	1470.9	1514.7	1455.6	1409.7	1347.9	1317.3	1242.3	1176.7	1116.0	1042.2
42.5°	697.7	691.7	681.9	660.5	655.6	656.2	618.4	593.8	560.5	521.7	498.1
45°	305.1	312.8	319.3	307.3	306.8	300.2	298.0	281.6	275.0	262.5	247.2
47.5°	150.4	153.1	151.5	154.7	152.0	147.6	146.5	144.4	137.8	137.2	130.1
50°	35.5	35.0	35.0	35.5	35.0	35.0	34.4	33.4	32.8	33.4	31.7
52.5°	11.5	12.0	11.5	10.9	11.5	12.0	11.5	11.5	11.5	11.5	11.5
55°	2.7	2.7	2.7	2.7	2.7	2.7	2.2	2.2	2.7	2.7	2.7
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°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	33.4	28.4	23.5	18.6	13.7	10.9	10.4	9.8
5°	50.3	40.5	26.8	15.9	9.3	6.6	4.9	4.4
7.5°	67.8	50.3	29.5	13.1	6.6	2.7	1.1	0.5
10°	97.3	59.6	30.6	10.4	3.3	0.0	0.0	0.0
12.5°	190.8	68.4	30.1	8.2	0.5	0.0	0.0	0.0
15°	317.1	95.7	27.9	5.5	0.0	0.0	0.0	0.0
17.5°	519.5	123.6	24.1	3.8	0.0	0.0	0.0	0.0
20°	805.4	137.2	18.6	1.6	0.0	0.0	0.0	0.0
21°	944.3	138.3	16.4	1.1	0.0	0.0	0.0	0.0
22°	1064.6	138.3	14.2	0.5	0.0	0.0	0.0	0.0
23°	1176.2	136.7	12.6	0.0	0.0	0.0	0.0	0.0
24°	1268.0	134.5	11.5	0.0	0.0	0.0	0.0	0.0
25°	1336.9	131.2	10.4	0.0	0.0	0.0	0.0	0.0
26°	1368.7	126.9	8.7	0.0	0.0	0.0	0.0	0.0
27°	1384.5	120.8	7.7	0.0	0.0	0.0	0.0	0.0
28°	1373.6	114.3	6.6	0.0	0.0	0.0	0.0	0.0
29°	1346.2	107.2	4.9	0.0	0.0	0.0	0.0	0.0
30°	1310.7	99.0	3.8	0.0	0.0	0.0	0.0	0.0
31°	1258.8	90.8	2.7	0.0	0.0	0.0	0.0	0.0
32°	1187.7	82.6	2.2	0.0	0.0	0.0	0.0	0.0
33°	1092.5	73.8	1.1	0.0	0.0	0.0	0.0	0.0
34°	975.0	65.1	0.5	0.0	0.0	0.0	0.0	0.0
35°	843.2	57.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	730.0	49.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	616.3	39.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	516.2	31.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	427.1	25.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	353.8	17.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	195.8	11.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	118.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	68.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	1.1	1.6	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.1	1.6	0.5	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	0.5	1.1	1.6	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.1	1.6	0.5	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)