

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: P1309312

Luminaire Tested: P3SQAS17R409035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R409035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

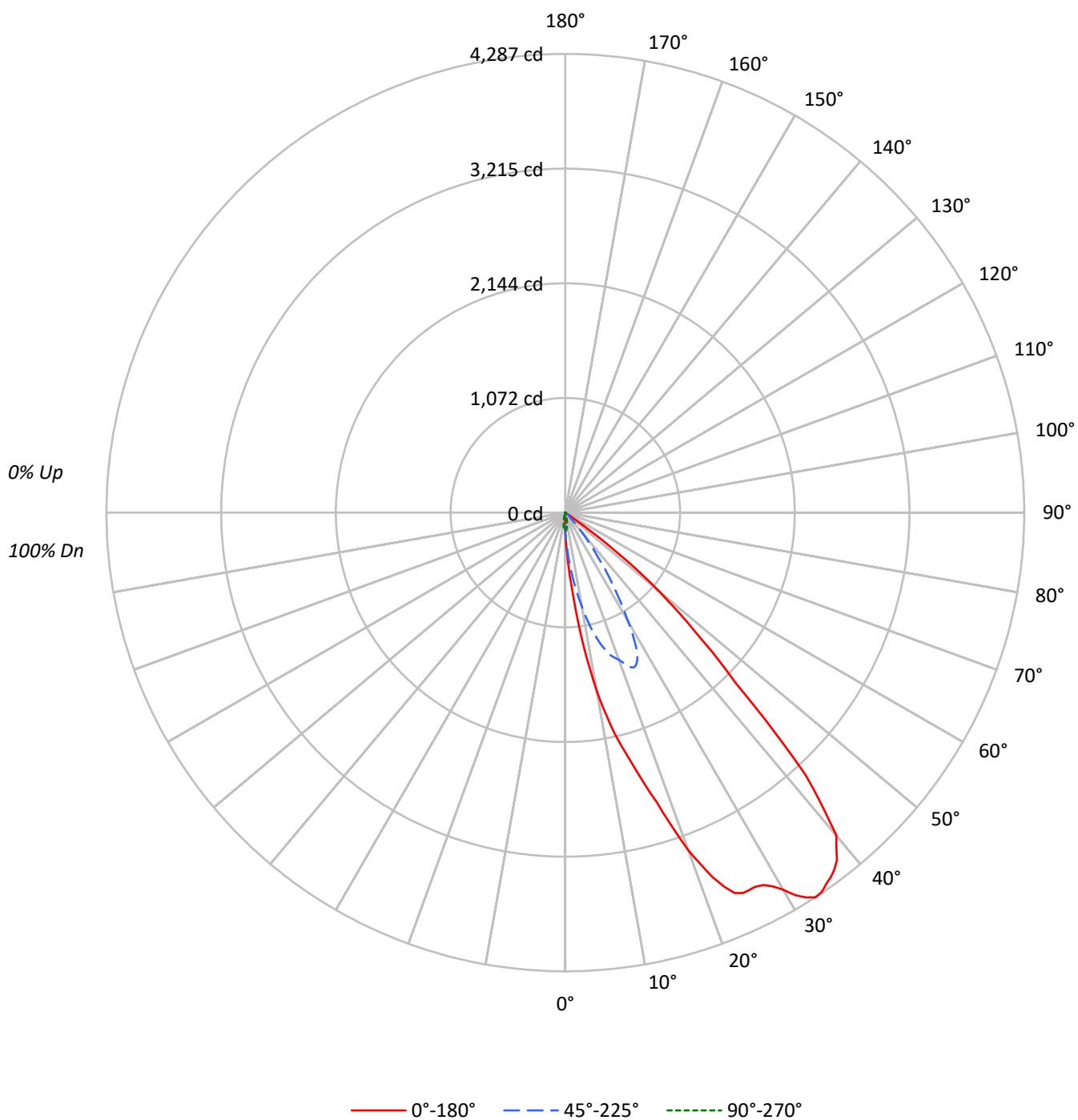
Lumens per Lamp: N/A
Luminaire Lumens: 1439.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	112	109	106	104	110	107	104	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78		84	81	77		82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28985	28985	28985	28985	28985
5°	123039	83847	25431	4581	2299
10°	295721	155975	15757	472	0
15°	435243	226599	6615	0	0
20°	615219	268627	2438	0	0
25°	745171	298171	0	0	0
30°	809085	233230	0	0	0
35°	892154	136533	0	0	0
40°	885479	55418	0	0	0
45°	548399	16148	0	0	0
50°	305361	348	0	0	0
55°	29846	0	0	0	0
60°	0	0	448	0	0
65°	0	0	530	0	0
70°	0	655	1360	0	0
75°	0	865	1797	0	0
80°	0	1289	2678	0	0
85°	0	2569	5335	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 550981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	2.2
10°-20°	185.5	12.9
20°-30°	423.4	29.4
30°-40°	499.9	34.7
40°-50°	267.1	18.6
50°-60°	29.0	2.0
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	0.9	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°	640.4	44.5
0°-40°	1140.3	79.2
0°-60°	1436.5	99.8
0°-90°	1439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	168	168	168	168	168	
5°	712	485	147	26	13	100
15°	2441	1271	37	0	0	725
25°	3921	1569	0	0	0	1781
35°	4243	649	0	0	0	2621
45°	2252	66	0	0	0	1856
55°	99	0	0	0	0	279
65°	0	0	1	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°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
2.5°	392.3	384.3	389.6	379.0	379.0	355.2	356.5	336.6	307.5	234.6	167.0
5°	711.7	743.5	718.3	685.1	666.6	642.7	610.9	577.8	485.0	292.9	147.1
7.5°	1191.4	1188.7	1146.3	1110.5	1069.5	1005.9	946.2	865.4	690.4	335.3	121.9
10°	1691.0	1681.7	1634.0	1603.5	1525.3	1433.9	1312.0	1182.1	891.9	349.9	90.1
12.5°	2107.1	2095.2	2055.4	2003.8	1917.6	1802.3	1671.1	1500.2	1103.9	334.0	58.3
15°	2441.1	2438.4	2400.0	2329.8	2239.7	2127.0	1978.6	1773.2	1270.9	292.9	37.1
17.5°	2837.3	2853.2	2784.3	2708.8	2578.9	2421.2	2239.7	2005.1	1394.1	242.5	23.9
20°	3356.8	3334.3	3270.7	3160.7	3036.1	2846.6	2589.5	2254.2	1465.7	188.2	13.3
21°	3515.9	3506.6	3440.3	3338.3	3200.4	3008.3	2743.2	2381.5	1498.8	168.3	10.6
22°	3677.5	3661.6	3609.9	3510.6	3380.7	3163.3	2871.8	2512.7	1541.3	147.1	6.6
23°	3798.1	3791.5	3751.7	3653.7	3519.8	3309.1	3010.9	2634.6	1570.4	127.2	4.0
24°	3890.9	3882.9	3843.2	3769.0	3653.7	3433.7	3151.4	2765.8	1582.3	110.0	1.3
25°	3921.4	3925.4	3901.5	3843.2	3746.4	3526.5	3256.1	2869.1	1569.1	94.1	0.0
26°	3922.7	3934.6	3917.4	3884.3	3804.8	3600.7	3354.2	2930.1	1534.6	79.5	0.0
27°	3922.7	3934.6	3917.4	3892.2	3814.0	3643.1	3407.2	2936.7	1481.6	67.6	0.0
28°	3941.3	3947.9	3925.4	3894.9	3810.1	3656.3	3421.8	2897.0	1396.8	58.3	0.0
29°	3992.9	3986.3	3949.2	3908.1	3806.1	3656.3	3378.0	2821.4	1290.8	49.0	0.0
30°	4068.5	4068.5	4010.2	3945.2	3824.6	3655.0	3307.8	2684.9	1172.8	39.8	0.0
31°	4170.5	4161.2	4102.9	4006.2	3864.4	3655.0	3204.4	2533.9	1064.2	34.5	0.0
32°	4239.4	4234.1	4178.5	4064.5	3929.3	3655.0	3093.1	2366.9	946.2	27.8	0.0
33°	4287.1	4276.5	4212.9	4095.0	3969.1	3636.5	2968.5	2188.0	840.2	22.5	0.0
34°	4280.5	4277.9	4211.6	4089.7	3961.1	3559.6	2824.1	1989.2	742.1	18.6	0.0
35°	4243.4	4243.4	4162.6	4036.7	3904.1	3446.9	2681.0	1819.6	649.4	13.3	0.0
36°	4215.6	4205.0	4113.5	3973.1	3808.7	3269.4	2468.9	1648.6	550.0	10.6	0.0
37°	4174.5	4154.6	4052.6	3901.5	3673.6	3077.2	2246.3	1496.2	465.2	6.6	0.0
38°	4121.5	4091.0	3966.4	3818.0	3525.1	2855.9	2019.7	1325.2	387.0	4.0	0.0
39°	4024.7	3999.6	3871.0	3710.7	3347.6	2622.6	1799.7	1164.9	312.8	1.3	0.0
40°	3938.6	3894.9	3749.1	3564.9	3139.5	2358.9	1581.0	1007.2	246.5	0.0	0.0
42.5°	3321.0	3274.7	3241.5	3058.6	2500.7	1693.7	1103.9	645.4	128.5	0.0	0.0
45°	2251.6	2262.2	2158.8	2035.6	1649.9	1103.9	690.4	359.1	66.3	0.0	0.0
47.5°	1642.0	1614.1	1473.7	1240.4	967.4	645.4	360.5	173.6	26.5	0.0	0.0
50°	1139.7	1086.7	959.5	784.5	526.1	307.5	159.0	80.8	1.3	0.0	0.0
52.5°	618.9	581.8	493.0	357.8	218.7	117.9	63.6	33.1	0.0	0.0	0.0
55°	99.4	68.9	71.6	61.0	47.7	34.5	19.9	4.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	1.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7	2.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7	2.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.7	2.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7	2.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.7	2.7
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):

	112.5°	135°	157.5°	180°
0°	168.3	168.3	168.3	168.3
2.5°	112.6	76.9	58.3	50.4
5°	64.9	26.5	14.6	13.3
7.5°	31.8	9.3	5.3	5.3
10°	13.3	2.7	0.0	0.0
12.5°	4.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.3	0.0	0.0	0.0
67.5°	1.3	0.0	0.0	0.0
70°	1.3	0.0	0.0	0.0
72.5°	1.3	0.0	0.0	0.0
75°	1.3	0.0	0.0	0.0
77.5°	1.3	0.0	0.0	0.0
80°	1.3	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.3	0.0	0.0	0.0
85°	1.3	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)