

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: P1316043

Luminaire Tested: P3SQAS09R159827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316043
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: P3SQAS09R159827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

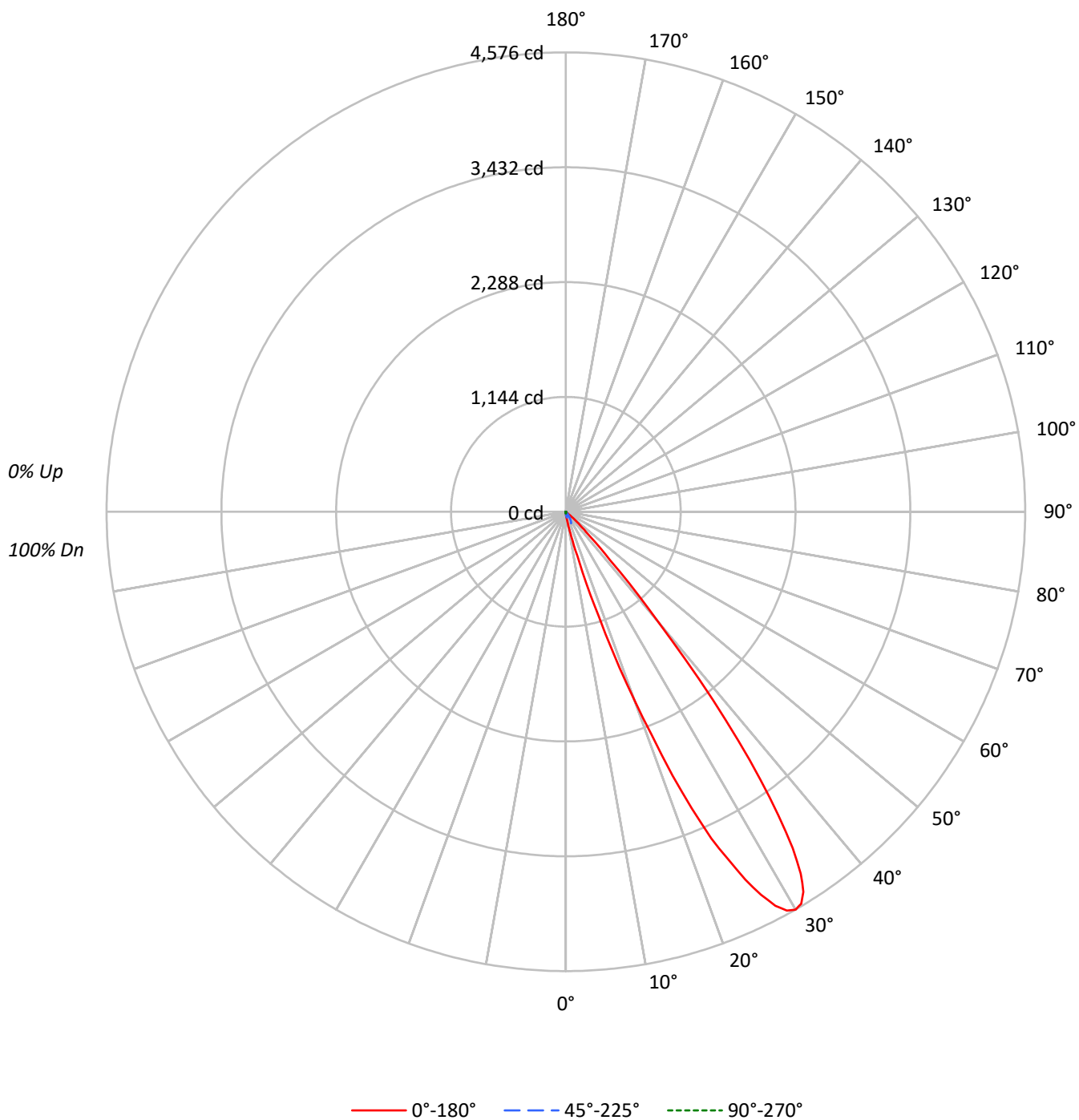
Lumens per Lamp: N/A
Luminaire Lumens: 484.0 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	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	57	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°	2979	2979	2979	2979	2979
5°	8627	6518	2559	1055	709
10°	22437	9706	1696	0	0
15°	89648	15886	909	0	0
20°	366313	23404	275	0	0
25°	724097	23202	0	0	0
30°	910108	18316	0	0	0
35°	776540	11227	0	0	0
40°	319695	3552	0	0	0
45°	69171	1486	0	0	0
50°	8869	0	0	0	0
55°	751	0	150	0	0
60°	0	0	344	0	0
65°	0	0	408	0	0
70°	0	252	755	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 72386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	33.9	7.0
20°-30°	197.7	40.8
30°-40°	212.0	43.8
40°-50°	35.8	7.4
50°-60°	1.1	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°	233.9	48.3
0°-40°	445.9	92.1
0°-60°	482.8	99.8
0°-90°	484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	50	38	15	6	4	7
15°	503	89	5	0	0	233
25°	3810	122	0	0	0	1724
35°	3694	53	0	0	0	2123
45°	284	6	0	0	0	335
55°	2	0	0	0	0	6
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°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	31.6	32.1	32.6	32.6	32.6	32.6	32.1	32.1	32.1	32.1	31.6
5°	49.9	49.9	49.9	49.9	49.9	49.9	49.4	49.4	49.4	49.4	49.4
7.5°	71.3	70.2	70.7	69.2	70.2	69.7	69.2	70.2	70.2	67.7	67.7
10°	128.3	127.7	122.7	123.7	124.7	124.2	124.2	121.1	120.6	118.6	116.6
12.5°	247.4	252.9	257.0	257.0	247.4	250.9	244.3	245.8	246.8	243.8	233.1
15°	502.8	512.0	502.3	511.5	507.9	494.7	479.9	460.1	467.7	454.0	449.4
17.5°	1101.4	1122.2	1113.6	1071.3	1085.1	1052.5	1032.2	1024.5	1003.1	939.5	913.1
20°	1998.7	2024.1	2000.2	1950.8	1966.6	1905.0	1889.2	1874.5	1779.8	1745.2	1634.2
21°	2376.3	2397.2	2406.3	2354.9	2323.4	2274.5	2233.8	2220.6	2163.0	2096.4	1982.4
22°	2832.3	2807.9	2752.9	2760.0	2713.2	2673.0	2616.5	2563.1	2499.0	2405.8	2311.7
23°	3210.0	3181.5	3155.5	3123.9	3073.6	3045.1	2964.1	2905.6	2822.1	2722.4	2631.8
24°	3561.6	3517.9	3501.6	3445.6	3431.4	3367.2	3301.6	3225.2	3124.5	3018.1	2917.8
25°	3810.5	3817.1	3802.9	3796.3	3723.5	3657.8	3592.7	3475.1	3389.1	3295.0	3140.7
26°	4077.2	4080.3	4073.1	4024.3	3958.6	3894.5	3810.5	3708.2	3583.5	3479.2	3339.7
27°	4281.3	4269.1	4258.9	4200.9	4146.9	4066.0	3989.7	3868.5	3746.9	3622.7	3460.9
28°	4444.2	4421.3	4408.5	4358.7	4295.6	4196.3	4102.7	3989.7	3868.0	3734.7	3559.6
29°	4542.4	4518.0	4503.7	4448.8	4376.0	4288.9	4194.3	4070.1	3939.3	3790.7	3614.6
30°	4576.5	4562.2	4539.9	4482.9	4407.5	4316.9	4219.7	4084.9	3947.9	3795.8	3609.5
31°	4554.1	4535.8	4514.4	4452.8	4371.4	4284.9	4171.9	4030.4	3886.4	3741.3	3543.8
32°	4465.0	4453.8	4427.9	4345.4	4279.3	4167.3	4055.8	3923.5	3766.2	3610.5	3431.9
33°	4298.1	4279.8	4257.4	4182.1	4097.6	3990.2	3879.2	3743.9	3587.6	3423.2	3226.8
34°	4043.6	4020.2	3992.2	3941.8	3833.9	3740.8	3612.5	3454.3	3325.0	3167.2	2989.6
35°	3693.5	3659.4	3625.8	3587.6	3466.5	3380.5	3293.9	3156.0	3031.3	2882.7	2681.7
36°	3300.6	3287.3	3259.8	3159.1	3119.9	3002.8	2933.1	2774.8	2674.0	2528.5	2362.6
37°	2856.2	2778.4	2818.1	2761.6	2643.5	2606.9	2523.9	2388.0	2279.1	2125.4	2005.3
38°	2379.9	2329.0	2357.0	2300.0	2238.4	2153.9	2090.8	1991.5	1869.4	1748.8	1634.8
39°	1886.2	1845.0	1875.5	1836.8	1743.2	1708.0	1652.1	1576.2	1478.0	1383.8	1275.9
40°	1422.0	1369.1	1409.8	1354.8	1312.1	1254.6	1226.1	1156.3	1095.3	1038.8	970.1
42.5°	649.4	643.8	634.7	614.8	610.2	610.7	575.6	552.7	521.7	485.5	463.7
45°	284.0	291.1	297.2	286.0	285.5	279.4	277.4	262.1	256.0	244.3	230.0
47.5°	140.0	142.5	141.0	144.0	141.5	137.4	136.4	134.4	128.3	127.7	121.1
50°	33.1	32.6	32.6	33.1	32.6	32.6	32.1	31.0	30.5	31.0	29.5
52.5°	10.7	11.2	10.7	10.2	10.7	11.2	10.7	10.7	10.7	10.7	10.7
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.5	2.5	2.5
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°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	31.0	26.5	21.9	17.3	12.7	10.2	9.7	9.2
5°	46.8	37.7	24.9	14.8	8.7	6.1	4.6	4.1
7.5°	63.1	46.8	27.5	12.2	6.1	2.5	1.0	0.5
10°	90.6	55.5	28.5	9.7	3.1	0.0	0.0	0.0
12.5°	177.6	63.6	28.0	7.6	0.5	0.0	0.0	0.0
15°	295.2	89.1	26.0	5.1	0.0	0.0	0.0	0.0
17.5°	483.5	115.0	22.4	3.6	0.0	0.0	0.0	0.0
20°	749.7	127.7	17.3	1.5	0.0	0.0	0.0	0.0
21°	879.0	128.8	15.3	1.0	0.0	0.0	0.0	0.0
22°	990.9	128.8	13.2	0.5	0.0	0.0	0.0	0.0
23°	1094.8	127.2	11.7	0.0	0.0	0.0	0.0	0.0
24°	1180.3	125.2	10.7	0.0	0.0	0.0	0.0	0.0
25°	1244.4	122.1	9.7	0.0	0.0	0.0	0.0	0.0
26°	1273.9	118.1	8.1	0.0	0.0	0.0	0.0	0.0
27°	1288.7	112.5	7.1	0.0	0.0	0.0	0.0	0.0
28°	1278.5	106.4	6.1	0.0	0.0	0.0	0.0	0.0
29°	1253.0	99.8	4.6	0.0	0.0	0.0	0.0	0.0
30°	1220.0	92.1	3.6	0.0	0.0	0.0	0.0	0.0
31°	1171.6	84.5	2.5	0.0	0.0	0.0	0.0	0.0
32°	1105.4	76.9	2.0	0.0	0.0	0.0	0.0	0.0
33°	1016.9	68.7	1.0	0.0	0.0	0.0	0.0	0.0
34°	907.5	60.6	0.5	0.0	0.0	0.0	0.0	0.0
35°	784.8	53.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	679.5	45.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	573.6	36.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	480.5	29.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	397.5	23.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	329.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	182.2	10.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	110.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	64.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.0	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	1.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.0	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	1.0	1.5	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.0	1.5	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	1.0	1.5	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.5	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)