

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: P1317211

Luminaire Tested: P3SQAS17R159830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317211
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: P3SQAS17R159830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

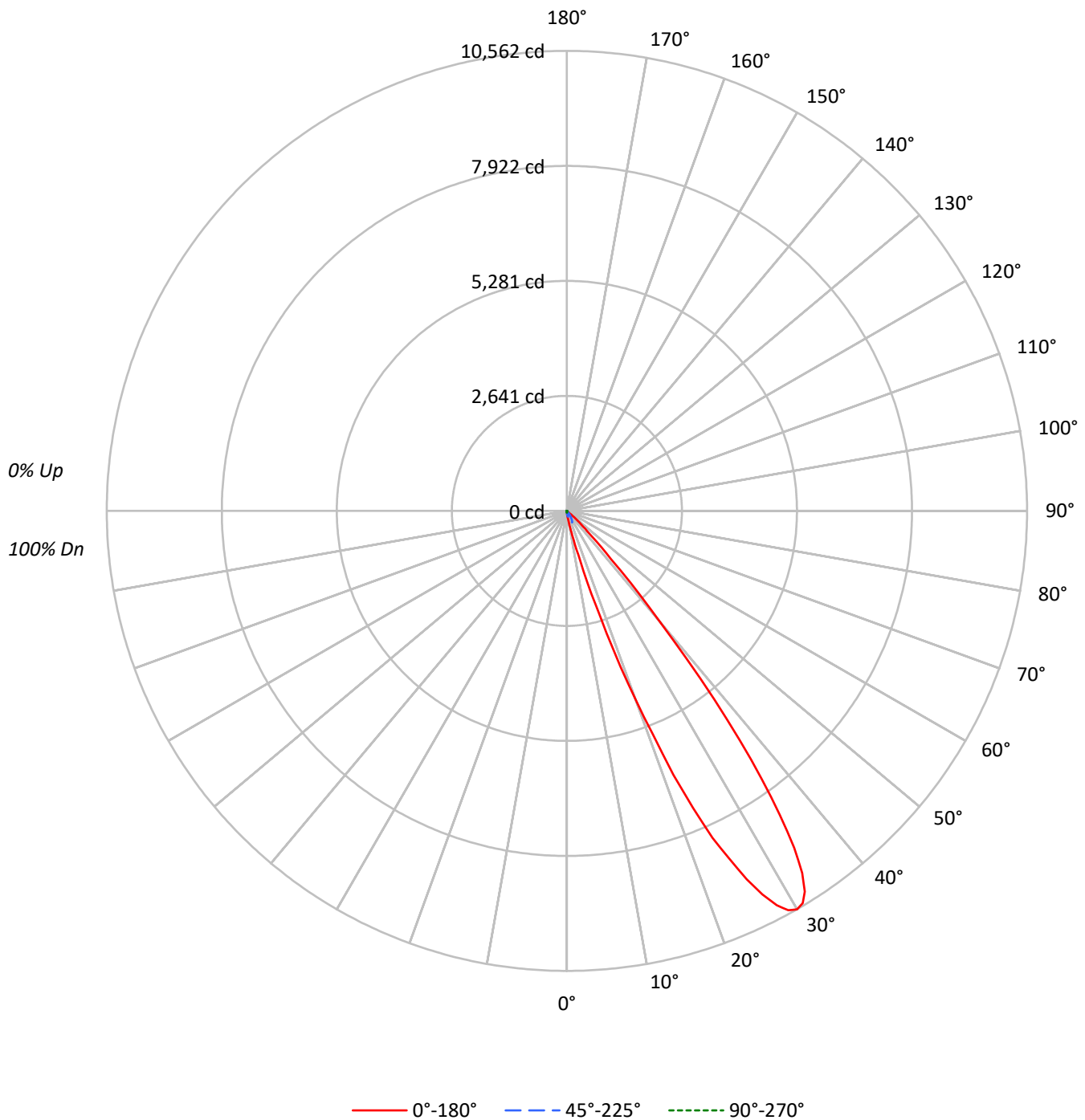
Lumens per Lamp: N/A
Luminaire Lumens: 1117.0 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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	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°	6872	6872	6872	6872	6872
5°	19899	15023	5895	2438	1625
10°	51764	22385	3900	0	0
15°	206915	36658	2086	0	0
20°	845377	54030	641	0	0
25°	1671113	53569	0	0	0
30°	2100398	42279	0	0	0
35°	1792129	25923	0	0	0
40°	737817	8183	0	0	0
45°	159629	3434	0	0	0
50°	20443	0	0	0	0
55°	1772	0	360	0	0
60°	0	0	792	0	0
65°	0	0	937	0	0
70°	0	604	1762	0	0
75°	0	799	2329	0	0
80°	0	1190	3471	0	0
85°	0	2371	6916	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 167082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.5
10°-20°	78.3	7.0
20°-30°	456.3	40.8
30°-40°	489.2	43.8
40°-50°	82.6	7.4
50°-60°	2.5	0.2
60°-70°	0.7	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	539.9	48.3
0°-40°	1029.1	92.1
0°-60°	1114.2	99.8
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	115	87	34	14	9	16
15°	1160	206	12	0	0	537
25°	8794	282	0	0	0	3979
35°	8524	123	0	0	0	4899
45°	655	14	0	0	0	774
55°	6	0	1	0	0	15
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	72.8	74.0	75.2	75.2	75.2	75.2	74.0	74.0	74.0	74.0	72.8
5°	115.1	115.1	115.1	115.1	115.1	115.1	113.9	113.9	113.9	113.9	113.9
7.5°	164.4	162.1	163.3	159.7	162.1	160.9	159.7	162.1	162.1	156.2	156.2
10°	296.0	294.8	283.1	285.4	287.8	286.6	286.6	279.6	278.4	273.7	269.0
12.5°	570.8	583.8	593.2	593.2	570.8	579.1	563.8	567.3	569.7	562.6	538.0
15°	1160.5	1181.6	1159.3	1180.5	1172.2	1141.7	1107.6	1061.8	1079.4	1047.7	1037.2
17.5°	2541.8	2590.0	2570.0	2472.5	2504.2	2429.0	2382.1	2364.4	2315.1	2168.3	2107.2
20°	4612.6	4671.3	4616.1	4502.2	4538.6	4396.5	4360.1	4326.0	4107.5	4027.7	3771.6
21°	5484.1	5532.3	5553.4	5434.8	5362.0	5249.2	5155.3	5124.7	4992.0	4838.1	4575.0
22°	6536.6	6480.2	6353.3	6369.8	6261.7	6168.9	6038.5	5915.2	5767.2	5552.3	5335.0
23°	7408.1	7342.3	7282.4	7209.6	7093.3	7027.5	6840.8	6705.7	6513.1	6282.9	6073.8
24°	8219.8	8118.7	8081.2	7951.9	7919.1	7771.1	7619.5	7443.4	7210.8	6965.3	6733.9
25°	8794.1	8809.4	8776.5	8761.2	8593.3	8441.7	8291.4	8020.1	7821.6	7604.3	7248.4
26°	9409.6	9416.7	9400.2	9287.5	9135.9	8987.9	8794.1	8558.0	8270.3	8029.5	7707.6
27°	9880.6	9852.4	9828.9	9695.0	9570.5	9383.8	9207.6	8928.0	8647.3	8360.7	7987.2
28°	10256.5	10203.6	10174.3	10059.2	9913.5	9684.5	9468.3	9207.6	8926.9	8619.1	8215.1
29°	10483.2	10426.8	10393.9	10267.1	10099.1	9898.2	9679.8	9393.2	9091.3	8748.3	8341.9
30°	10561.9	10529.0	10477.3	10345.8	10171.9	9962.8	9738.5	9427.2	9111.3	8760.1	8330.2
31°	10510.2	10467.9	10418.6	10276.5	10088.5	9888.8	9628.1	9301.5	8969.1	8634.4	8178.6
32°	10304.6	10278.8	10218.9	10028.6	9875.9	9617.5	9360.3	9054.9	8691.9	8332.5	7920.2
33°	9919.4	9877.1	9825.4	9651.6	9456.6	9208.8	8952.7	8640.3	8279.7	7900.3	7446.9
34°	9332.1	9278.1	9213.5	9097.2	8848.2	8633.2	8337.2	7971.9	7673.6	7309.4	6899.5
35°	8524.0	8445.3	8367.8	8279.7	8000.1	7801.6	7601.9	7283.6	6995.8	6652.9	6188.9
36°	7617.2	7586.7	7523.2	7290.7	7200.2	6930.1	6769.1	6403.8	6171.3	5835.3	5452.4
37°	6591.8	6412.1	6503.7	6373.3	6100.8	6016.2	5824.8	5511.2	5259.8	4905.1	4627.9
38°	5492.4	5374.9	5439.5	5308.0	5165.8	4970.8	4825.2	4596.2	4314.3	4035.9	3772.8
39°	4353.0	4257.9	4328.3	4239.1	4023.0	3941.9	3812.7	3637.7	3411.0	3193.7	2944.7
40°	3281.8	3159.6	3253.6	3126.7	3028.1	2895.4	2829.6	2668.7	2527.7	2397.3	2238.8
42.5°	1498.8	1485.9	1464.7	1418.9	1408.3	1409.5	1328.5	1275.6	1204.0	1120.6	1070.0
45°	655.4	671.9	686.0	660.1	658.9	644.8	640.1	604.9	590.8	563.8	530.9
47.5°	323.0	328.9	325.4	332.4	326.5	317.1	314.8	310.1	296.0	294.8	279.6
50°	76.3	75.2	75.2	76.3	75.2	75.2	74.0	71.6	70.5	71.6	68.1
52.5°	24.7	25.8	24.7	23.5	24.7	25.8	24.7	24.7	24.7	24.7	24.7
55°	5.9	5.9	5.9	5.9	5.9	5.9	4.7	4.7	5.9	5.9	5.9
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°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	71.6	61.1	50.5	39.9	29.4	23.5	22.3	21.1
5°	108.1	86.9	57.6	34.1	20.0	14.1	10.6	9.4
7.5°	145.6	108.1	63.4	28.2	14.1	5.9	2.3	1.2
10°	209.1	128.0	65.8	22.3	7.0	0.0	0.0	0.0
12.5°	409.9	146.8	64.6	17.6	1.2	0.0	0.0	0.0
15°	681.3	205.6	59.9	11.7	0.0	0.0	0.0	0.0
17.5°	1115.9	265.5	51.7	8.2	0.0	0.0	0.0	0.0
20°	1730.2	294.8	39.9	3.5	0.0	0.0	0.0	0.0
21°	2028.5	297.2	35.2	2.3	0.0	0.0	0.0	0.0
22°	2286.9	297.2	30.5	1.2	0.0	0.0	0.0	0.0
23°	2526.5	293.6	27.0	0.0	0.0	0.0	0.0	0.0
24°	2723.9	288.9	24.7	0.0	0.0	0.0	0.0	0.0
25°	2871.9	281.9	22.3	0.0	0.0	0.0	0.0	0.0
26°	2940.0	272.5	18.8	0.0	0.0	0.0	0.0	0.0
27°	2974.1	259.6	16.4	0.0	0.0	0.0	0.0	0.0
28°	2950.6	245.5	14.1	0.0	0.0	0.0	0.0	0.0
29°	2891.8	230.2	10.6	0.0	0.0	0.0	0.0	0.0
30°	2815.5	212.6	8.2	0.0	0.0	0.0	0.0	0.0
31°	2703.9	195.0	5.9	0.0	0.0	0.0	0.0	0.0
32°	2551.2	177.4	4.7	0.0	0.0	0.0	0.0	0.0
33°	2346.8	158.6	2.3	0.0	0.0	0.0	0.0	0.0
34°	2094.3	139.8	1.2	0.0	0.0	0.0	0.0	0.0
35°	1811.2	123.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	1568.1	105.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	1323.8	84.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	1108.8	67.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	917.4	54.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	760.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	420.5	24.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	254.9	14.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	148.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	56.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.7	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.3	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.3	2.3	1.2	0.0	0.0	0.0
67.5°	0.0	0.0	2.3	3.5	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.3	3.5	1.2	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	1.2	2.3	3.5	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.3	3.5	1.2	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)