

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: P1308404

Luminaire Tested: P3SQAS24R159030D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308404
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: P3SQAS24R159030D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

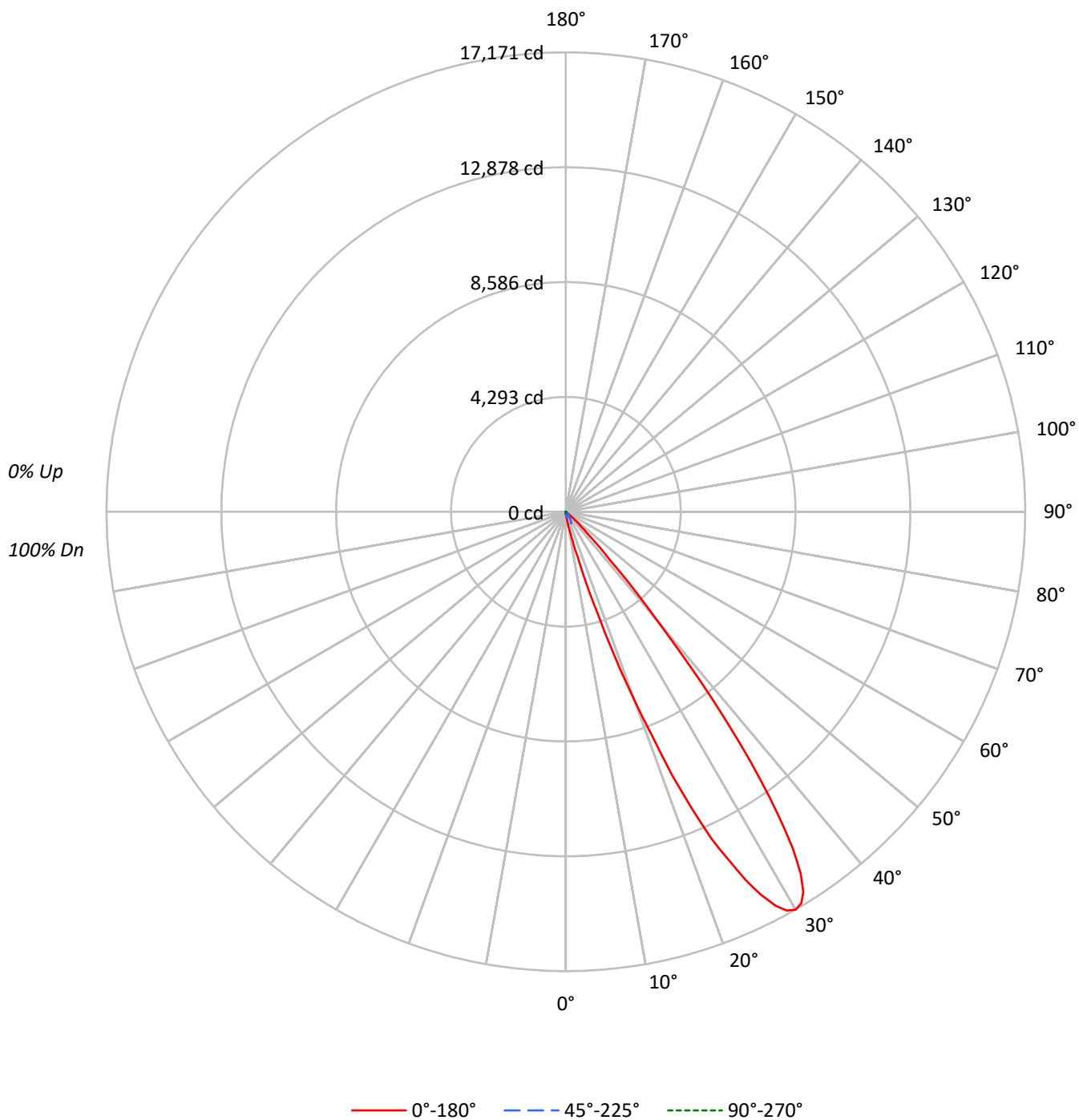
Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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
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°	11177	11177	11177	11177	11177
5°	32346	24428	9578	3959	2645
10°	84152	36392	6348	0	0
15°	336395	59587	3405	0	0
20°	1374401	87844	1045	0	0
25°	2716868	87089	0	0	0
30°	3414780	68728	0	0	0
35°	2913597	42154	0	0	0
40°	1199531	13309	0	0	0
45°	259537	5578	0	0	0
50°	33250	0	0	0	0
55°	2852	0	570	0	0
60°	0	0	1309	0	0
65°	0	0	1549	0	0
70°	0	957	2870	0	0
75°	0	1264	3793	0	0
80°	0	1884	5653	0	0
85°	0	3754	11263	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 271618 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.5
10°-20°	127.3	7.0
20°-30°	741.8	40.8
30°-40°	795.4	43.8
40°-50°	134.2	7.4
50°-60°	4.1	0.2
60°-70°	1.2	0.1
70°-80°	1.8	0.1
80°-90°	1.6	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°	877.8	48.3
0°-40°	1673.1	92.1
0°-60°	1811.4	99.8
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	187	141	55	23	15	26
15°	1887	334	19	0	0	873
25°	14297	458	0	0	0	6469
35°	13858	200	0	0	0	7964
45°	1066	23	0	0	0	1259
55°	10	0	2	0	0	24
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	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°	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
2.5°	118.4	120.3	122.2	122.2	122.2	122.2	120.3	120.3	120.3	120.3	118.4
5°	187.1	187.1	187.1	187.1	187.1	187.1	185.2	185.2	185.2	185.2	185.2
7.5°	267.3	263.5	265.4	259.7	263.5	261.6	259.7	263.5	263.5	254.0	254.0
10°	481.2	479.3	460.2	464.0	467.9	465.9	465.9	454.5	452.6	444.9	437.3
12.5°	928.1	949.1	964.4	964.4	928.1	941.4	916.6	922.3	926.2	914.7	874.6
15°	1886.7	1921.1	1884.8	1919.2	1905.8	1856.2	1800.8	1726.3	1754.9	1703.4	1686.2
17.5°	4132.4	4210.7	4178.3	4019.8	4071.3	3949.1	3872.7	3844.1	3763.9	3525.2	3425.9
20°	7499.1	7594.6	7504.8	7319.6	7378.8	7147.7	7088.5	7033.1	6677.9	6548.1	6131.8
21°	8916.0	8994.3	9028.7	8835.8	8717.4	8534.1	8381.3	8331.7	8115.9	7865.7	7438.0
22°	10627.0	10535.4	10329.1	10355.9	10180.2	10029.3	9817.4	9616.9	9376.2	9026.8	8673.5
23°	12044.0	11937.0	11839.7	11721.3	11532.2	11425.3	11121.6	10902.0	10588.9	10214.6	9874.7
24°	13363.5	13199.3	13138.2	12928.1	12874.7	12634.1	12387.7	12101.3	11723.2	11324.1	10947.9
25°	14297.3	14322.2	14268.7	14243.9	13970.8	13724.5	13480.0	13038.9	12716.2	12362.9	11784.3
26°	15298.0	15309.4	15282.7	15099.4	14853.0	14612.4	14297.3	13913.5	13445.7	13054.2	12530.9
27°	16063.7	16017.9	15979.7	15762.0	15559.6	15256.0	14969.5	14515.0	14058.6	13592.7	12985.4
28°	16674.8	16588.9	16541.1	16354.0	16117.2	15744.8	15393.5	14969.5	14513.1	14012.8	13355.9
29°	17043.4	16951.7	16898.2	16692.0	16418.9	16092.4	15737.2	15271.2	14780.5	14222.9	13562.1
30°	17171.3	17117.9	17033.8	16820.0	16537.3	16197.4	15832.7	15326.6	14812.9	14242.0	13543.0
31°	17087.3	17018.6	16938.3	16707.3	16401.7	16077.1	15653.2	15122.3	14581.9	14037.6	13296.7
32°	16753.1	16711.1	16613.7	16304.4	16056.1	15636.0	15217.8	14721.3	14131.2	13546.9	12876.6
33°	16126.8	16058.0	15974.0	15691.4	15374.4	14971.4	14555.1	14047.2	13460.9	12844.1	12107.0
34°	15171.9	15084.1	14979.1	14790.0	14385.2	14035.7	13554.5	12960.6	12475.6	11883.6	11217.1
35°	13858.1	13730.2	13604.1	13460.9	13006.4	12683.7	12359.1	11841.6	11373.7	10816.1	10061.8
36°	12383.9	12334.3	12231.1	11853.0	11706.0	11266.8	11005.2	10411.3	10033.2	9487.0	8864.5
37°	10716.8	10424.6	10573.6	10361.6	9918.6	9781.1	9469.8	8959.9	8551.3	7974.6	7523.9
38°	8929.4	8738.4	8843.5	8629.6	8398.5	8081.5	7844.7	7472.4	7014.0	6561.5	6133.7
39°	7077.1	6922.4	7037.0	6891.8	6540.5	6408.7	6198.6	5914.1	5545.5	5192.3	4787.4
40°	5335.5	5136.9	5289.7	5083.4	4923.0	4707.2	4600.3	4338.7	4109.5	3897.5	3639.7
42.5°	2436.7	2415.7	2381.3	2306.8	2289.6	2291.5	2159.8	2073.8	1957.4	1821.8	1739.7
45°	1065.6	1092.3	1115.2	1073.2	1071.3	1048.4	1040.7	983.5	960.5	916.6	863.1
47.5°	525.1	534.7	529.0	540.4	530.9	515.6	511.8	504.1	481.2	479.3	454.5
50°	124.1	122.2	122.2	124.1	122.2	122.2	120.3	116.5	114.6	116.5	110.8
52.5°	40.1	42.0	40.1	38.2	40.1	42.0	40.1	40.1	40.1	40.1	40.1
55°	9.5	9.5	9.5	9.5	9.5	9.5	7.6	7.6	9.5	9.5	9.5
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°	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
2.5°	116.5	99.3	82.1	64.9	47.7	38.2	36.3	34.4
5°	175.7	141.3	93.6	55.4	32.5	22.9	17.2	15.3
7.5°	236.8	175.7	103.1	45.8	22.9	9.5	3.8	1.9
10°	339.9	208.1	106.9	36.3	11.5	0.0	0.0	0.0
12.5°	666.5	238.7	105.0	28.6	1.9	0.0	0.0	0.0
15°	1107.6	334.2	97.4	19.1	0.0	0.0	0.0	0.0
17.5°	1814.1	431.6	84.0	13.4	0.0	0.0	0.0	0.0
20°	2812.9	479.3	64.9	5.7	0.0	0.0	0.0	0.0
21°	3297.9	483.1	57.3	3.8	0.0	0.0	0.0	0.0
22°	3718.0	483.1	49.7	1.9	0.0	0.0	0.0	0.0
23°	4107.6	477.4	43.9	0.0	0.0	0.0	0.0	0.0
24°	4428.4	469.8	40.1	0.0	0.0	0.0	0.0	0.0
25°	4669.0	458.3	36.3	0.0	0.0	0.0	0.0	0.0
26°	4779.8	443.0	30.6	0.0	0.0	0.0	0.0	0.0
27°	4835.2	422.0	26.7	0.0	0.0	0.0	0.0	0.0
28°	4797.0	399.1	22.9	0.0	0.0	0.0	0.0	0.0
29°	4701.5	374.3	17.2	0.0	0.0	0.0	0.0	0.0
30°	4577.4	345.6	13.4	0.0	0.0	0.0	0.0	0.0
31°	4396.0	317.0	9.5	0.0	0.0	0.0	0.0	0.0
32°	4147.7	288.4	7.6	0.0	0.0	0.0	0.0	0.0
33°	3815.4	257.8	3.8	0.0	0.0	0.0	0.0	0.0
34°	3404.9	227.2	1.9	0.0	0.0	0.0	0.0	0.0
35°	2944.6	200.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	2549.3	171.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	2152.1	137.5	0.0	0.0	0.0	0.0	0.0	0.0
38°	1802.7	108.8	0.0	0.0	0.0	0.0	0.0	0.0
39°	1491.4	87.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	1235.5	59.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	683.6	40.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	414.4	22.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	240.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	91.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.6	0.0	0.0	1.9	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.9	3.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.9	3.8	1.9	0.0	0.0	0.0
65°	0.0	0.0	3.8	3.8	1.9	0.0	0.0	0.0
67.5°	0.0	0.0	3.8	5.7	1.9	0.0	0.0	0.0
70°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
72.5°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
75°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
77.5°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
80°	0.0	1.9	3.8	5.7	1.9	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	1.9	3.8	5.7	1.9	0.0	0.0	0.0
85°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
87.5°	0.0	1.9	3.8	5.7	1.9	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)