

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: P1316481

Luminaire Tested: P3SQAS20R159827D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316481
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: P3SQAS20R159827D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

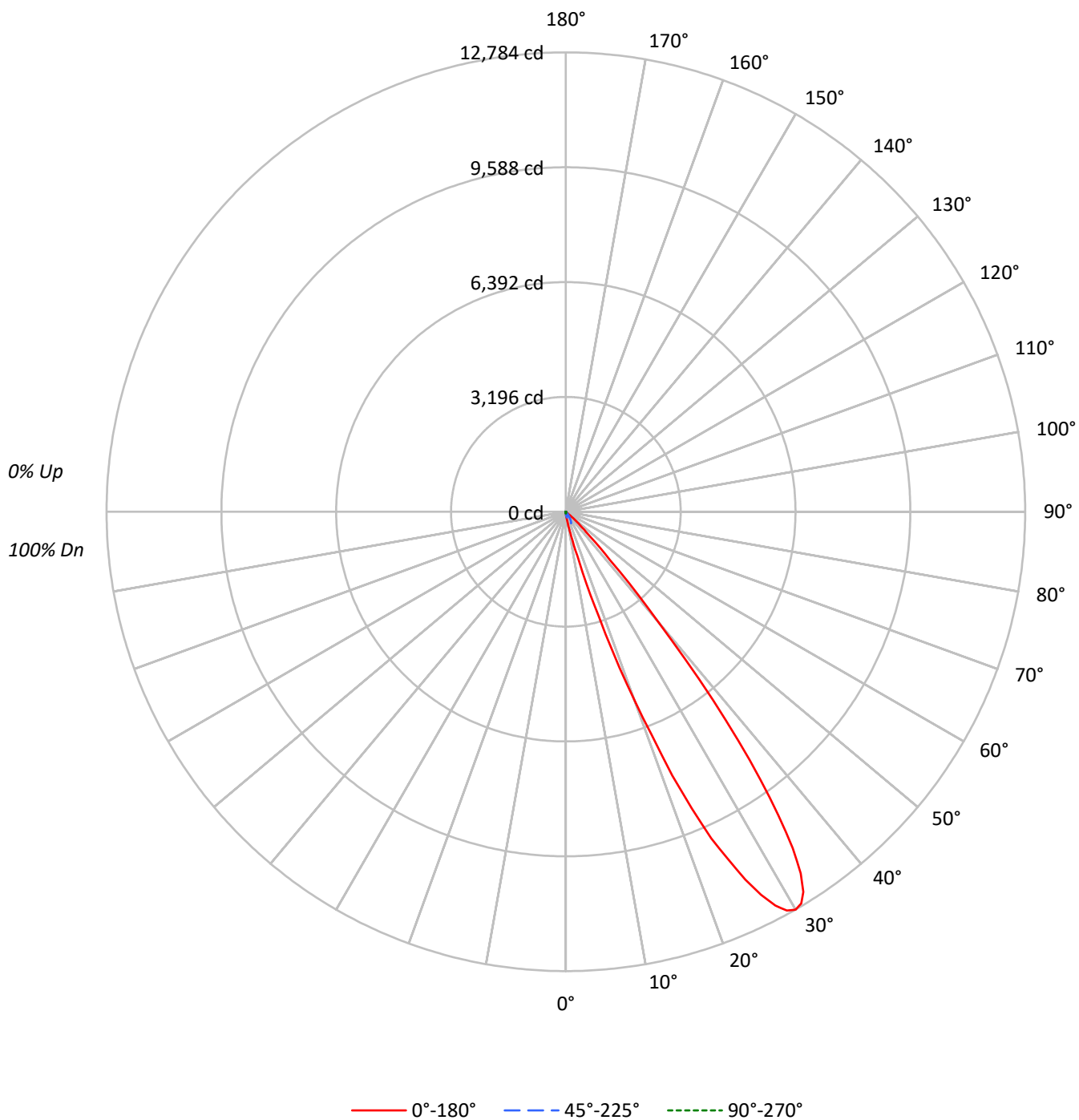
Lumens per Lamp: N/A
Luminaire Lumens: 1352.0 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	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°	8318	8318	8318	8318	8318
5°	24082	18187	7123	2956	1971
10°	62659	27106	4722	0	0
15°	250437	44361	2532	0	0
20°	1023227	65393	788	0	0
25°	2022701	64837	0	0	0
30°	2542278	51168	0	0	0
35°	2169161	31390	0	0	0
40°	893033	9915	0	0	0
45°	193216	4165	0	0	0
50°	24757	0	0	0	0
55°	2132	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2165	0	0
75°	0	932	2861	0	0
80°	0	1389	4265	0	0
85°	0	2766	8497	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 202228 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.5
10°-20°	94.8	7.0
20°-30°	552.3	40.8
30°-40°	592.2	43.8
40°-50°	99.9	7.4
50°-60°	3.0	0.2
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	653.5	48.3
0°-40°	1245.7	92.1
0°-60°	1348.6	99.8
0°-90°	1352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1352.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	139	105	41	17	11	19
15°	1405	249	14	0	0	650
25°	10644	341	0	0	0	4816
35°	10317	149	0	0	0	5929
45°	793	17	0	0	0	937
55°	7	0	1	0	0	18
65°	0	0	3	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°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	88.1	89.6	91.0	91.0	91.0	91.0	89.6	89.6	89.6	89.6	88.1
5°	139.3	139.3	139.3	139.3	139.3	139.3	137.9	137.9	137.9	137.9	137.9
7.5°	199.0	196.2	197.6	193.4	196.2	194.8	193.4	196.2	196.2	189.1	189.1
10°	358.3	356.8	342.6	345.5	348.3	346.9	346.9	338.4	336.9	331.3	325.6
12.5°	690.9	706.6	718.0	718.0	690.9	700.9	682.4	686.7	689.5	681.0	651.1
15°	1404.6	1430.2	1403.2	1428.8	1418.9	1381.9	1340.7	1285.2	1306.5	1268.2	1255.4
17.5°	3076.6	3134.9	3110.7	2992.7	3031.1	2940.1	2883.2	2861.9	2802.2	2624.5	2550.5
20°	5583.0	5654.1	5587.3	5449.4	5493.5	5321.4	5277.4	5236.1	4971.7	4875.0	4565.1
21°	6637.9	6696.2	6721.8	6578.2	6490.1	6353.6	6239.8	6202.9	6042.2	5856.0	5537.5
22°	7911.8	7843.5	7690.0	7709.9	7579.1	7466.8	7309.0	7159.7	6980.6	6720.4	6457.4
23°	8966.7	8887.1	8814.5	8726.4	8585.7	8506.0	8280.0	8116.5	7883.3	7604.7	7351.6
24°	9949.1	9826.8	9781.3	9624.9	9585.1	9406.0	9222.6	9009.3	8727.8	8430.7	8150.6
25°	10644.3	10662.8	10623.0	10604.5	10401.2	10217.8	10035.8	9707.4	9467.1	9204.1	8773.3
26°	11389.2	11397.8	11377.9	11241.4	11058.0	10878.9	10644.3	10358.5	10010.2	9718.7	9329.2
27°	11959.4	11925.2	11896.8	11734.7	11584.0	11358.0	11144.7	10806.4	10466.6	10119.7	9667.6
28°	12414.3	12350.3	12314.8	12175.4	11999.2	11721.9	11460.3	11144.7	10804.9	10432.4	9943.4
29°	12688.7	12620.4	12580.6	12427.1	12223.8	11980.7	11716.2	11369.3	11004.0	10588.8	10096.9
30°	12783.9	12744.1	12681.6	12522.3	12311.9	12058.9	11787.3	11410.6	11028.1	10603.0	10082.7
31°	12721.4	12670.2	12610.5	12438.5	12211.0	11969.3	11653.7	11258.5	10856.1	10450.9	9899.3
32°	12472.6	12441.3	12368.8	12138.5	11953.7	11640.9	11329.5	10959.9	10520.6	10085.5	9586.5
33°	12006.3	11955.1	11892.5	11682.1	11446.1	11146.1	10836.2	10458.0	10021.6	9562.4	9013.6
34°	11295.4	11230.0	11151.8	11011.1	10709.7	10449.5	10091.2	9649.1	9288.0	8847.2	8351.1
35°	10317.3	10222.0	10128.2	10021.6	9683.2	9442.9	9201.3	8816.0	8467.7	8052.5	7490.9
36°	9219.7	9182.8	9106.0	8824.5	8715.0	8388.0	8193.3	7751.1	7469.6	7063.0	6599.5
37°	7978.6	7761.1	7872.0	7714.2	7384.3	7282.0	7050.2	6670.6	6366.4	5937.0	5601.5
38°	6647.9	6505.7	6583.9	6424.7	6252.6	6016.6	5840.3	5563.1	5221.9	4885.0	4566.5
39°	5268.8	5153.7	5239.0	5130.9	4869.3	4771.2	4614.8	4403.0	4128.6	3865.6	3564.2
40°	3972.2	3824.4	3938.1	3784.6	3665.1	3504.5	3424.9	3230.1	3059.5	2901.7	2709.8
42.5°	1814.1	1798.5	1772.9	1717.4	1704.6	1706.0	1607.9	1544.0	1457.2	1356.3	1295.2
45°	793.3	813.2	830.3	799.0	797.6	780.5	774.8	732.2	715.1	682.4	642.6
47.5°	391.0	398.1	393.8	402.3	395.2	383.9	381.0	375.3	358.3	356.8	338.4
50°	92.4	91.0	91.0	92.4	91.0	91.0	89.6	86.7	85.3	86.7	82.5
52.5°	29.9	31.3	29.9	28.4	29.9	31.3	29.9	29.9	29.9	29.9	29.9
55°	7.1	7.1	7.1	7.1	7.1	7.1	5.7	5.7	7.1	7.1	7.1
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°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	86.7	73.9	61.1	48.3	35.5	28.4	27.0	25.6
5°	130.8	105.2	69.7	41.2	24.2	17.1	12.8	11.4
7.5°	176.3	130.8	76.8	34.1	17.1	7.1	2.8	1.4
10°	253.1	155.0	79.6	27.0	8.5	0.0	0.0	0.0
12.5°	496.2	177.7	78.2	21.3	1.4	0.0	0.0	0.0
15°	824.6	248.8	72.5	14.2	0.0	0.0	0.0	0.0
17.5°	1350.6	321.3	62.6	10.0	0.0	0.0	0.0	0.0
20°	2094.2	356.8	48.3	4.3	0.0	0.0	0.0	0.0
21°	2455.3	359.7	42.7	2.8	0.0	0.0	0.0	0.0
22°	2768.1	359.7	37.0	1.4	0.0	0.0	0.0	0.0
23°	3058.1	355.4	32.7	0.0	0.0	0.0	0.0	0.0
24°	3296.9	349.7	29.9	0.0	0.0	0.0	0.0	0.0
25°	3476.1	341.2	27.0	0.0	0.0	0.0	0.0	0.0
26°	3558.5	329.8	22.7	0.0	0.0	0.0	0.0	0.0
27°	3599.7	314.2	19.9	0.0	0.0	0.0	0.0	0.0
28°	3571.3	297.1	17.1	0.0	0.0	0.0	0.0	0.0
29°	3500.2	278.7	12.8	0.0	0.0	0.0	0.0	0.0
30°	3407.8	257.3	10.0	0.0	0.0	0.0	0.0	0.0
31°	3272.8	236.0	7.1	0.0	0.0	0.0	0.0	0.0
32°	3087.9	214.7	5.7	0.0	0.0	0.0	0.0	0.0
33°	2840.6	191.9	2.8	0.0	0.0	0.0	0.0	0.0
34°	2534.9	169.2	1.4	0.0	0.0	0.0	0.0	0.0
35°	2192.3	149.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	1898.0	128.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	1602.3	102.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	1342.1	81.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	1110.3	65.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	919.8	44.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	509.0	29.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	308.5	17.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	179.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	68.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.7	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	0.0	2.8	4.3	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.3	1.4	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	1.4	2.8	4.3	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.3	1.4	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)