

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: P1318249

Luminaire Tested: P3SQAS20R209835D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R209835D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

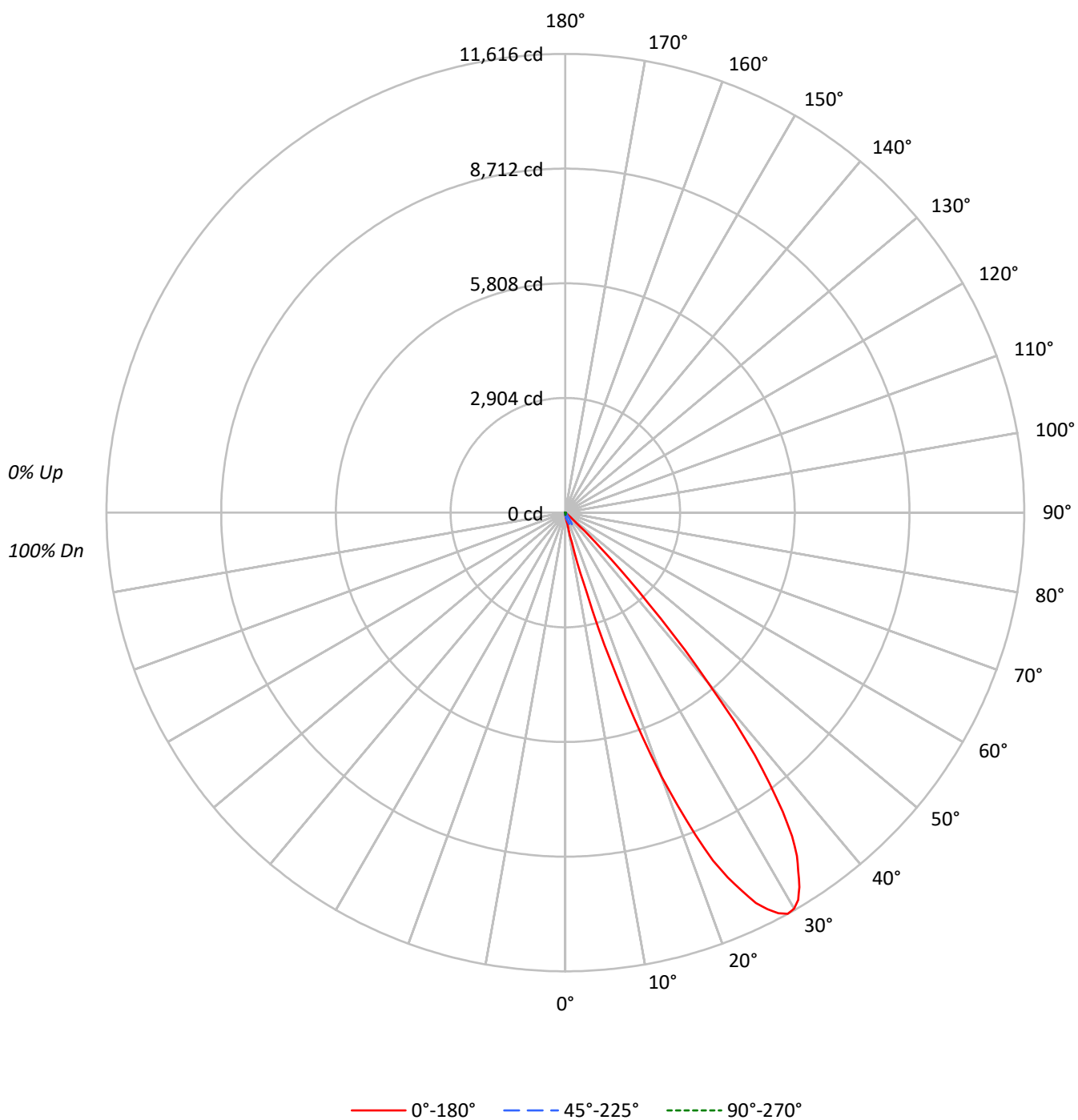
Lumens per Lamp: N/A
Luminaire Lumens: 1603.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	93	92		
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9886	9886	9886	9886	9886
5°	21506	15162	9094	4132	3025
10°	53531	26757	6418	839	0
15°	376637	36676	3691	0	0
20°	1301678	61654	1466	0	0
25°	2006434	78766	608	0	0
30°	2302983	60873	0	0	0
35°	2103270	23127	0	0	0
40°	1260907	10746	0	0	0
45°	309857	5042	0	0	0
50°	34161	1286	0	0	0
55°	4774	0	480	0	0
60°	0	0	1102	0	0
65°	0	0	1304	0	0
70°	0	806	2417	0	0
75°	0	1065	3194	0	0
80°	0	1587	4761	0	0
85°	0	3162	9485	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 330437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.4
10°-20°	125.2	7.8
20°-30°	633.3	39.5
30°-40°	685.1	42.7
40°-50°	144.7	9.0
50°-60°	4.3	0.3
60°-70°	1.0	0.1
70°-80°	1.5	0.1
80°-90°	1.3	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°	765.0	47.7
0°-40°	1450.1	90.5
0°-60°	1599.1	99.8
0°-90°	1603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	124	88	53	24	18	17
15°	2112	206	21	0	0	881
25°	10559	414	3	0	0	4773
35°	10004	110	0	0	0	5899
45°	1272	21	0	0	0	1399
55°	16	0	2	0	0	28
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	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°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	78.1	76.5	78.1	76.5	78.1	78.1	78.1	76.5	76.5	76.5	76.5
5°	124.4	124.4	122.8	124.4	124.4	124.4	124.4	122.8	122.8	121.2	121.2
7.5°	196.1	196.1	194.5	194.5	196.1	197.7	191.3	194.5	194.5	194.5	192.9
10°	306.1	312.5	306.1	314.1	307.7	302.9	310.9	302.9	302.9	301.3	296.5
12.5°	771.6	754.1	742.9	715.8	742.9	722.2	727.0	722.2	706.2	685.5	672.8
15°	2112.4	2112.4	2050.2	2133.1	2072.5	2094.8	1980.0	1981.6	1922.7	1858.9	1823.8
17.5°	4416.0	4455.9	4414.5	4388.9	4334.7	4256.6	4224.7	4143.4	4036.6	3912.3	3897.9
20°	7102.3	6934.9	7013.1	6941.3	6896.7	6801.0	6694.2	6627.3	6533.2	6375.4	6142.6
21°	7947.3	7940.9	7939.3	7937.7	7872.4	7716.1	7618.9	7485.0	7352.6	7190.0	6995.5
22°	8798.6	8828.9	8841.7	8749.2	8615.3	8545.1	8478.2	8294.8	8086.0	8001.5	7770.3
23°	9579.8	9551.1	9468.2	9425.1	9321.5	9300.8	9101.5	8985.1	8781.1	8688.6	8414.4
24°	10112.3	10097.9	10059.7	9995.9	9913.0	9785.4	9665.9	9482.5	9315.1	9163.7	8908.6
25°	10558.7	10571.4	10501.3	10458.2	10368.9	10225.5	10078.8	9877.9	9721.7	9544.7	9249.8
26°	11000.3	10911.0	10855.2	10791.4	10694.2	10530.0	10388.1	10207.9	10018.2	9820.5	9532.0
27°	11272.9	11193.2	11108.7	11046.5	10934.9	10778.7	10627.2	10427.9	10215.9	10016.6	9720.1
28°	11488.1	11400.4	11317.5	11242.6	11115.0	10947.6	10765.9	10563.4	10343.4	10137.8	9834.9
29°	11615.6	11512.0	11422.7	11338.2	11221.9	11040.1	10856.8	10640.0	10427.9	10212.7	9903.4
30°	11580.6	11491.3	11405.2	11319.1	11201.1	11030.5	10848.8	10641.6	10427.9	10215.9	9901.8
31°	11443.5	11333.5	11271.3	11185.2	11083.2	10909.4	10753.1	10526.8	10333.9	10104.3	9790.2
32°	11180.4	11110.3	11027.4	10960.4	10861.6	10676.6	10523.6	10338.6	10110.7	9922.5	9592.5
33°	10823.3	10757.9	10716.5	10638.4	10542.7	10415.2	10231.8	10062.8	9806.2	9613.3	9283.3
34°	10482.1	10399.2	10295.6	10273.3	10190.4	10026.2	9860.4	9688.2	9458.6	9213.1	8879.9
35°	10003.9	9917.8	9822.1	9830.1	9731.2	9539.9	9370.9	9178.0	8959.6	8671.1	8355.4
36°	9364.6	9307.2	9292.8	9254.6	9141.4	8913.4	8752.4	8510.1	8326.7	7974.4	7703.4
37°	8585.0	8605.7	8502.1	8452.7	8320.3	8160.9	8070.0	7759.2	7545.5	7280.9	6914.2
38°	7797.4	7767.1	7644.4	7674.7	7492.9	7327.1	7070.5	6885.5	6646.4	6400.9	6107.5
39°	6813.8	6738.9	6592.2	6598.6	6461.5	6274.9	6026.2	5807.8	5664.3	5428.4	5147.8
40°	5608.5	5576.7	5525.6	5441.1	5261.0	5179.7	4958.1	4722.1	4601.0	4274.2	4137.1
42.5°	3112.0	3068.9	2982.8	2952.5	2856.9	2761.2	2632.1	2474.3	2397.7	2300.5	2083.7
45°	1272.2	1356.7	1336.0	1312.1	1238.7	1243.5	1151.0	1162.2	1077.7	1020.3	980.5
47.5°	280.6	304.5	306.1	294.9	306.1	296.5	291.7	283.8	285.4	290.2	279.0
50°	127.5	125.9	129.1	127.5	125.9	124.4	122.8	118.0	121.2	118.0	114.8
52.5°	49.4	51.0	51.0	47.8	49.4	49.4	49.4	47.8	47.8	47.8	47.8
55°	15.9	15.9	15.9	14.3	14.3	15.9	15.9	15.9	15.9	15.9	14.3
57.5°	1.6	3.2	1.6	3.2	1.6	1.6	1.6	1.6	1.6	3.2	3.2
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°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	73.3	67.0	62.2	57.4	47.8	39.9	36.7	36.7
5°	113.2	87.7	65.4	52.6	36.7	23.9	19.1	17.5
7.5°	170.6	118.0	68.6	44.6	23.9	12.8	8.0	6.4
10°	247.1	153.0	71.7	36.7	14.3	4.8	0.0	0.0
12.5°	432.0	183.3	71.7	28.7	6.4	0.0	0.0	0.0
15°	990.0	205.7	68.6	20.7	1.6	0.0	0.0	0.0
17.5°	2056.6	258.3	60.6	14.3	0.0	0.0	0.0	0.0
20°	3284.1	336.4	47.8	8.0	0.0	0.0	0.0	0.0
21°	3789.5	363.5	43.0	6.4	0.0	0.0	0.0	0.0
22°	4153.0	389.0	38.3	4.8	0.0	0.0	0.0	0.0
23°	4553.1	404.9	33.5	3.2	0.0	0.0	0.0	0.0
24°	4848.1	414.5	28.7	3.2	0.0	0.0	0.0	0.0
25°	5031.4	414.5	25.5	3.2	0.0	0.0	0.0	0.0
26°	5139.8	404.9	22.3	1.6	0.0	0.0	0.0	0.0
27°	5165.3	389.0	19.1	1.6	0.0	0.0	0.0	0.0
28°	5133.5	368.3	15.9	0.0	0.0	0.0	0.0	0.0
29°	5033.0	338.0	14.3	0.0	0.0	0.0	0.0	0.0
30°	4924.6	306.1	11.2	0.0	0.0	0.0	0.0	0.0
31°	4739.7	263.0	9.6	0.0	0.0	0.0	0.0	0.0
32°	4526.0	218.4	8.0	0.0	0.0	0.0	0.0	0.0
33°	4240.7	172.2	6.4	0.0	0.0	0.0	0.0	0.0
34°	3819.8	135.5	6.4	0.0	0.0	0.0	0.0	0.0
35°	3442.0	110.0	4.8	0.0	0.0	0.0	0.0	0.0
36°	2947.7	87.7	4.8	0.0	0.0	0.0	0.0	0.0
37°	2525.3	73.3	4.8	0.0	0.0	0.0	0.0	0.0
38°	2114.0	62.2	3.2	0.0	0.0	0.0	0.0	0.0
39°	1715.4	54.2	3.2	0.0	0.0	0.0	0.0	0.0
40°	1367.9	47.8	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	738.1	31.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	408.1	20.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	180.1	11.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	60.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	30.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	4.8	1.6	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	1.6	3.2	4.8	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	4.8	1.6	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)