

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: P1313662

Luminaire Tested: P3SQAS20R159730D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R159730D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

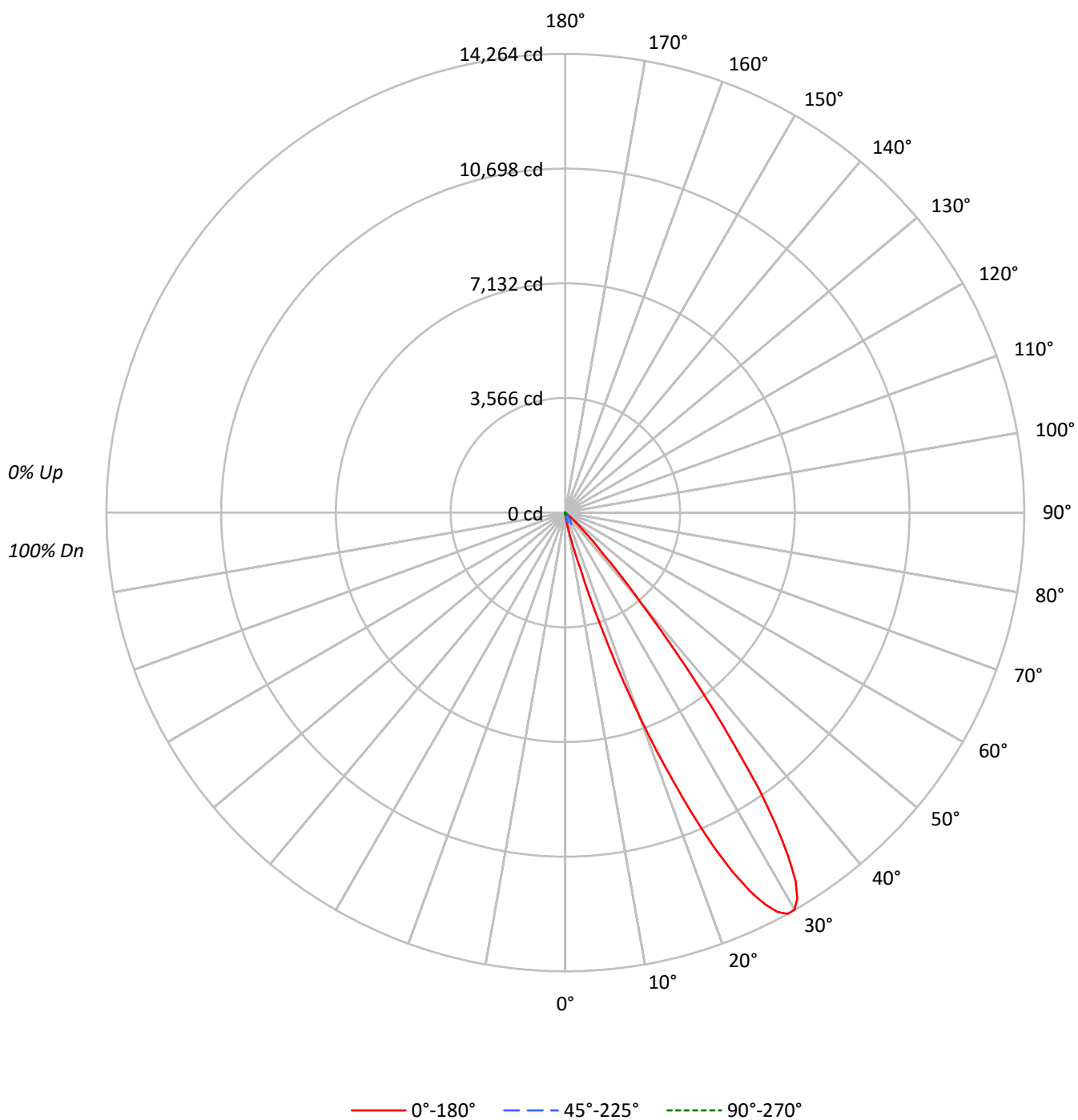
Lumens per Lamp: N/A
Luminaire Lumens: 1557.9 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	93	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	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8869	8869	8869	8869	8869
5°	19121	14142	8385	4460	3665
10°	84817	26774	6628	1854	1329
15°	320740	61887	4600	802	535
20°	1233536	87221	2786	275	275
25°	2345708	81787	1444	0	0
30°	2833655	66003	597	0	0
35°	2210054	44929	315	0	0
40°	806499	22145	337	0	337
45°	207074	6649	365	0	731
50°	34911	804	402	402	1206
55°	4564	0	901	1351	2282
60°	517	517	1550	2101	3134
65°	611	611	2486	3097	3708
70°	755	755	3072	3072	3827
75°	998	998	4059	2994	4059
80°	0	1488	4463	2975	4463
85°	0	2964	8892	2964	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 207074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.5
10°-20°	119.4	7.7
20°-30°	662.2	42.5
30°-40°	639.7	41.1
40°-50°	111.3	7.1
50°-60°	8.0	0.5
60°-70°	4.7	0.3
70°-80°	3.8	0.2
80°-90°	1.9	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°	788.6	50.6
0°-40°	1428.3	91.7
0°-60°	1547.5	99.3
0°-90°	1557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	111	82	48	26	21	22
15°	1799	347	26	4	3	802
25°	12344	430	8	0	0	5519
35°	10512	214	2	0	0	6045
45°	850	27	2	0	3	913
55°	15	0	3	4	8	29
65°	2	2	6	8	9	1
75°	2	2	6	4	6	1
85°	0	2	4	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	75.8	72.7	74.3	74.3	74.3	74.3	74.3	71.2	71.2	72.7	65.2
5°	110.6	110.6	109.1	110.6	110.6	109.1	106.1	104.6	104.6	101.5	81.8
7.5°	221.3	218.2	218.2	215.2	200.1	195.5	192.5	184.9	171.3	168.2	106.1
10°	485.0	486.5	475.9	462.2	460.7	438.0	430.4	416.8	391.0	365.2	153.1
12.5°	880.5	860.8	835.1	836.6	792.6	777.5	742.6	704.7	665.3	624.4	251.6
15°	1798.9	1742.9	1776.2	1694.4	1601.9	1497.4	1391.3	1257.9	1144.2	1023.0	347.1
17.5°	3788.9	3843.4	3751.0	3400.9	3185.7	2932.6	2576.4	2232.4	1938.4	1702.0	424.4
20°	6730.5	6810.8	6497.1	6192.5	5669.6	5099.8	4505.7	3832.8	3188.7	2631.0	475.9
21°	7959.6	7911.1	7782.3	7294.3	6691.1	6030.3	5302.9	4560.3	3779.8	3055.3	480.4
22°	9147.8	9170.5	8870.5	8359.7	7732.3	7000.3	6112.2	5195.3	4354.2	3400.9	472.8
23°	10331.5	10404.2	10007.1	9528.2	8738.6	7912.6	6885.1	5895.5	4855.8	3796.4	457.7
24°	11427.2	11377.2	11108.9	10505.7	9661.6	8694.7	7627.7	6427.4	5268.0	4134.4	445.6
25°	12344.1	12338.0	11916.7	11330.2	10364.8	9293.3	8117.2	6862.4	5621.1	4363.2	430.4
26°	13094.3	12971.5	12639.6	11924.3	10971.0	9840.4	8518.9	7179.1	5819.7	4478.4	415.3
27°	13673.2	13585.3	13139.8	12395.6	11399.9	10149.6	8776.5	7336.7	5910.6	4516.3	395.6
28°	14062.7	13967.2	13492.9	12726.0	11636.3	10343.6	8912.9	7403.4	5910.6	4479.9	377.4
29°	14264.3	14133.9	13661.1	12839.7	11690.9	10366.3	8879.6	7338.3	5818.2	4367.8	356.2
30°	14249.1	14087.0	13591.4	12736.6	11528.7	10179.9	8693.2	7103.3	5609.0	4201.1	331.9
31°	14003.6	13821.7	13268.6	12388.0	11193.8	9828.3	8341.5	6788.1	5322.6	3984.4	307.7
32°	13505.0	13274.6	12735.1	11857.6	10678.5	9302.4	7830.8	6301.6	4893.7	3667.6	281.9
33°	12692.7	12460.8	11881.9	11058.9	9981.4	8635.6	7153.4	5778.8	4405.7	3290.2	260.7
34°	11675.7	11463.6	10964.9	10135.9	9102.3	7791.4	6374.4	5055.8	3899.5	2915.9	237.9
35°	10511.8	10173.8	9722.2	9066.0	8058.1	6739.6	5533.2	4382.9	3378.1	2523.4	213.7
36°	8937.2	8997.8	8518.9	7715.6	6880.6	5847.0	4689.1	3654.0	2825.0	2150.6	192.5
37°	7541.3	7445.9	7141.2	6519.9	5792.4	4766.4	3929.8	3097.8	2376.4	1818.7	169.7
38°	6083.4	6104.6	5806.0	5328.6	4607.2	3919.2	3162.9	2544.6	1988.4	1547.4	148.5
39°	4761.8	4745.2	4664.8	4222.3	3569.1	3117.5	2562.8	2109.6	1656.5	1304.9	125.8
40°	3587.3	3614.6	3426.6	3159.9	2779.5	2408.2	2041.4	1682.3	1370.1	1100.3	98.5
42.5°	1744.4	1786.8	1662.5	1594.4	1426.1	1280.6	1080.6	882.0	750.2	648.7	44.0
45°	850.2	826.0	815.4	782.0	742.6	663.8	588.0	504.7	441.0	380.4	27.3
47.5°	435.0	422.8	422.8	409.2	395.6	369.8	331.9	304.6	274.3	236.4	10.6
50°	130.3	128.8	127.3	128.8	124.3	128.8	131.9	133.4	121.2	119.7	3.0
52.5°	51.5	53.0	51.5	56.1	56.1	54.6	56.1	54.6	53.0	47.0	0.0
55°	15.2	15.2	15.2	15.2	15.2	15.2	16.7	18.2	16.7	18.2	0.0
57.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	60.6	53.0	44.0	36.4	33.3	31.8
5°	65.2	48.5	33.3	25.8	22.7	21.2
7.5°	69.7	44.0	25.8	18.2	13.6	12.1
10°	72.7	37.9	19.7	10.6	7.6	7.6
12.5°	72.7	30.3	13.6	6.1	4.5	4.5
15°	71.2	25.8	9.1	4.5	3.0	3.0
17.5°	69.7	19.7	6.1	3.0	1.5	3.0
20°	65.2	15.2	3.0	1.5	1.5	1.5
21°	63.7	13.6	3.0	1.5	1.5	1.5
22°	60.6	12.1	1.5	0.0	1.5	1.5
23°	57.6	9.1	1.5	0.0	0.0	0.0
24°	53.0	7.6	1.5	0.0	0.0	0.0
25°	50.0	7.6	1.5	0.0	0.0	0.0
26°	47.0	4.5	0.0	0.0	0.0	0.0
27°	42.4	3.0	0.0	0.0	0.0	0.0
28°	39.4	3.0	0.0	0.0	0.0	0.0
29°	34.9	3.0	0.0	0.0	0.0	0.0
30°	30.3	3.0	0.0	0.0	0.0	0.0
31°	24.2	1.5	0.0	0.0	0.0	0.0
32°	19.7	1.5	0.0	0.0	0.0	0.0
33°	13.6	1.5	0.0	0.0	0.0	0.0
34°	9.1	1.5	0.0	0.0	0.0	0.0
35°	7.6	1.5	0.0	0.0	0.0	0.0
36°	4.5	1.5	0.0	0.0	0.0	1.5
37°	4.5	1.5	0.0	0.0	0.0	1.5
38°	3.0	1.5	0.0	0.0	0.0	1.5
39°	1.5	1.5	0.0	0.0	0.0	1.5
40°	1.5	1.5	0.0	0.0	0.0	1.5
42.5°	0.0	1.5	0.0	0.0	1.5	3.0
45°	0.0	1.5	0.0	0.0	1.5	3.0
47.5°	0.0	1.5	0.0	0.0	3.0	3.0
50°	0.0	1.5	1.5	1.5	3.0	4.5
52.5°	0.0	3.0	1.5	3.0	4.5	6.1
55°	1.5	3.0	3.0	4.5	6.1	7.6
57.5°	1.5	4.5	4.5	6.1	7.6	7.6
60°	3.0	4.5	6.1	6.1	9.1	9.1
62.5°	3.0	6.1	6.1	6.1	9.1	9.1
65°	3.0	6.1	6.1	7.6	9.1	9.1
67.5°	3.0	6.1	6.1	6.1	7.6	9.1
70°	3.0	6.1	4.5	6.1	7.6	7.6
72.5°	3.0	6.1	4.5	4.5	6.1	7.6
75°	3.0	6.1	4.5	4.5	6.1	6.1
77.5°	3.0	4.5	4.5	3.0	4.5	4.5
80°	3.0	4.5	3.0	3.0	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.0	4.5	3.0	1.5	3.0	3.0
85°	3.0	4.5	3.0	1.5	1.5	1.5
87.5°	3.0	4.5	1.5	0.0	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)