

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: P1309428

Luminaire Tested: P3SQAS20R309035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

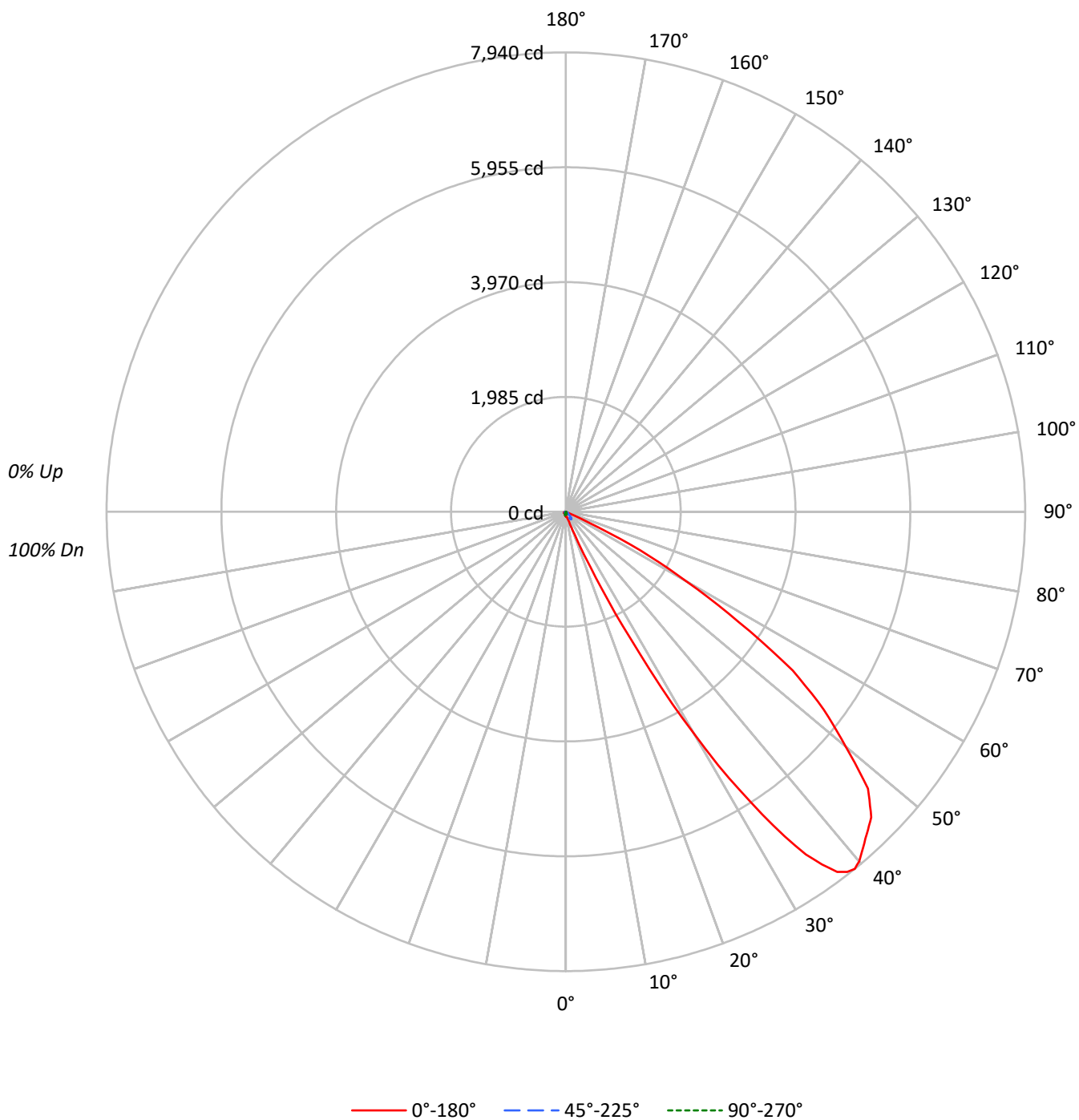
Lumens per Lamp: N/A
Luminaire Lumens: 2064.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31	29
8	56	42	33	27	55	41	33	27	40	32	26		39	32	26		37	31	26	24
9	52	37	29	23	50	37	28	23	36	28	22		34	27	22		33	27	22	20
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13778	13778	13778	13778	13778
5°	14729	14436	13519	12326	12015
10°	16106	14288	11857	10650	10335
15°	23553	14264	9913	8986	9307
20°	59271	15615	7643	7643	8596
25°	275216	19497	5948	6936	7924
30°	876142	26966	4494	6563	7955
35°	1520261	32903	3658	6223	8031
40°	1773026	32824	2743	6250	8206
45°	1818343	23284	2971	6771	8890
50°	1690965	13048	2331	6993	10235
55°	1437169	6786	2612	7837	11470
60°	830010	1791	2997	8370	12572
65°	169322	0	3545	9903	14181
70°	2618	856	4381	11380	16617
75°	2329	1131	4658	11578	19696
80°	1686	1686	6943	13786	22414
85°	0	3359	13832	13832	27467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1818343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.4
10°-20°	20.8	1.0
20°-30°	119.0	5.8
30°-40°	555.9	26.9
40°-50°	786.2	38.1
50°-60°	483.7	23.4
60°-70°	73.7	3.6
70°-80°	11.7	0.6
80°-90°	5.8	0.3
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°	147.1	7.1
0°-40°	703.0	34.1
0°-60°	1972.8	95.6
0°-90°	2064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	85	84	78	71	70	8
15°	132	80	56	50	52	47
25°	1448	103	31	36	42	891
35°	7231	156	17	30	38	4340
45°	7466	96	12	28	36	5660
55°	4786	23	9	26	38	4073
65°	416	0	9	24	35	752
75°	4	2	7	17	30	4
85°	0	2	7	7	14	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
2.5°	81.7	81.7	83.5	83.5	81.7	83.5	83.5	83.5	80.0	78.2	74.8
5°	85.2	85.2	85.2	86.9	85.2	85.2	83.5	81.7	78.2	73.0	71.3
7.5°	88.7	88.7	86.9	88.7	86.9	86.9	83.5	80.0	74.8	69.5	66.1
10°	92.1	92.1	90.4	90.4	88.7	88.7	81.7	76.5	67.8	62.6	60.9
12.5°	102.6	102.6	100.8	99.1	95.6	93.9	80.0	71.3	60.9	55.6	53.9
15°	132.1	130.4	126.9	121.7	113.0	111.3	80.0	66.1	55.6	50.4	50.4
17.5°	180.8	179.1	173.9	160.0	144.3	139.1	80.0	59.1	48.7	45.2	45.2
20°	323.4	309.5	283.4	248.6	212.1	193.0	85.2	52.2	41.7	40.0	41.7
21°	422.5	408.6	375.5	318.2	253.8	233.0	88.7	50.4	40.0	38.2	41.7
22°	575.5	559.8	492.0	413.8	321.6	285.1	90.4	46.9	36.5	36.5	40.0
23°	803.2	777.2	662.4	537.2	401.6	349.5	93.9	45.2	34.8	36.5	38.2
24°	1051.9	1029.3	898.9	711.1	512.9	438.1	97.4	43.5	33.0	33.0	36.5
25°	1448.3	1422.2	1191.0	897.1	650.2	526.8	102.6	40.0	31.3	31.3	36.5
26°	1961.2	1841.2	1533.5	1156.2	801.5	660.7	107.8	38.2	29.6	31.3	34.8
27°	2448.0	2348.9	2002.9	1483.0	991.0	811.9	114.7	36.5	27.8	29.6	34.8
28°	3087.8	2948.7	2512.3	1876.0	1248.3	982.3	121.7	34.8	26.1	29.6	33.0
29°	3804.1	3609.4	3082.6	2317.6	1538.7	1173.6	128.7	33.0	24.3	27.8	33.0
30°	4405.7	4223.1	3696.3	2840.9	1872.5	1425.7	135.6	31.3	22.6	27.8	33.0
31°	5111.6	4835.1	4197.0	3284.3	2159.4	1677.8	142.6	27.8	20.9	26.1	31.3
32°	5683.6	5490.6	4812.5	3785.0	2536.7	1956.0	147.8	26.1	20.9	26.1	31.3
33°	6236.5	5977.4	5321.9	4264.9	2877.4	2241.1	153.0	24.3	19.1	24.3	31.3
34°	6765.0	6526.8	5803.5	4652.6	3199.1	2512.3	156.5	20.9	19.1	24.3	29.6
35°	7230.9	6954.5	6227.8	5031.6	3529.4	2759.2	156.5	19.1	17.4	22.6	29.6
36°	7533.5	7335.3	6596.3	5405.4	3828.5	2993.9	156.5	17.4	15.6	22.6	27.8
37°	7792.5	7561.3	6891.9	5692.3	4049.3	3181.7	156.5	15.6	15.6	22.6	27.8
38°	7898.6	7700.4	7095.3	5946.1	4256.2	3372.9	154.7	13.9	13.9	20.9	27.8
39°	7940.3	7763.0	7248.3	6128.7	4409.2	3501.6	151.3	12.2	13.9	20.9	27.8
40°	7886.4	7752.5	7326.6	6246.9	4530.9	3595.5	146.0	10.4	12.2	20.9	27.8
42.5°	7663.9	7575.2	7309.2	6365.1	4635.2	3665.0	126.9	7.0	12.2	19.1	27.8
45°	7465.7	7368.3	7133.6	6241.7	4499.6	3527.7	95.6	3.5	12.2	19.1	27.8
47.5°	7081.4	7020.6	6836.3	5927.0	4202.3	3218.2	67.8	1.7	10.4	17.4	26.1
50°	6311.2	6253.8	6010.4	5146.3	3614.6	2721.0	48.7	1.7	8.7	17.4	26.1
52.5°	5621.0	5560.1	5210.7	4278.8	2776.6	1994.2	31.3	1.7	8.7	17.4	26.1
55°	4786.4	4680.4	4221.4	3247.8	1968.1	1337.0	22.6	1.7	8.7	15.6	26.1
57.5°	3543.3	3388.6	2978.3	2215.0	1133.6	725.0	12.2	1.7	8.7	15.6	26.1
60°	2409.7	2317.6	1863.8	1168.4	483.3	306.0	5.2	1.7	8.7	15.6	24.3
62.5°	1460.4	1344.0	937.1	497.2	208.6	139.1	0.0	3.5	8.7	15.6	24.3
65°	415.5	368.6	245.1	113.0	59.1	45.2	0.0	3.5	8.7	15.6	24.3
67.5°	13.9	13.9	13.9	12.2	8.7	8.7	1.7	3.5	8.7	15.6	22.6
70°	5.2	5.2	5.2	3.5	3.5	1.7	1.7	3.5	8.7	13.9	22.6
72.5°	3.5	3.5	3.5	3.5	1.7	1.7	1.7	3.5	7.0	12.2	20.9
75°	3.5	3.5	3.5	1.7	1.7	1.7	1.7	5.2	7.0	12.2	17.4
77.5°	3.5	3.5	3.5	1.7	1.7	1.7	1.7	5.2	7.0	10.4	17.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.2	7.0	10.4	13.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	1.7	5.2	7.0	7.0	10.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	7.0	5.2	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2	5.2	3.5
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):

	157.5°	180°
0°	80.0	80.0
2.5°	74.8	74.8
5°	69.5	69.5
7.5°	64.3	64.3
10°	59.1	59.1
12.5°	55.6	55.6
15°	50.4	52.2
17.5°	46.9	48.7
20°	45.2	46.9
21°	45.2	46.9
22°	43.5	45.2
23°	43.5	45.2
24°	41.7	43.5
25°	40.0	41.7
26°	40.0	41.7
27°	40.0	41.7
28°	38.2	41.7
29°	38.2	40.0
30°	38.2	40.0
31°	36.5	40.0
32°	36.5	40.0
33°	36.5	38.2
34°	34.8	38.2
35°	34.8	38.2
36°	34.8	38.2
37°	34.8	36.5
38°	34.8	38.2
39°	34.8	36.5
40°	34.8	36.5
42.5°	34.8	36.5
45°	34.8	36.5
47.5°	34.8	38.2
50°	34.8	38.2
52.5°	34.8	38.2
55°	34.8	38.2
57.5°	34.8	36.5
60°	34.8	36.5
62.5°	33.0	36.5
65°	33.0	34.8
67.5°	33.0	34.8
70°	31.3	33.0
72.5°	29.6	31.3
75°	26.1	29.6
77.5°	24.3	26.1
80°	20.9	22.6



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	17.4	17.4
85°	12.2	13.9
87.5°	7.0	7.0
90°	0.0	0.0

(END OF REPORT)