

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: P1314685

Luminaire Tested: P3SQAS20R309735D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314685
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: P3SQAS20R309735D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

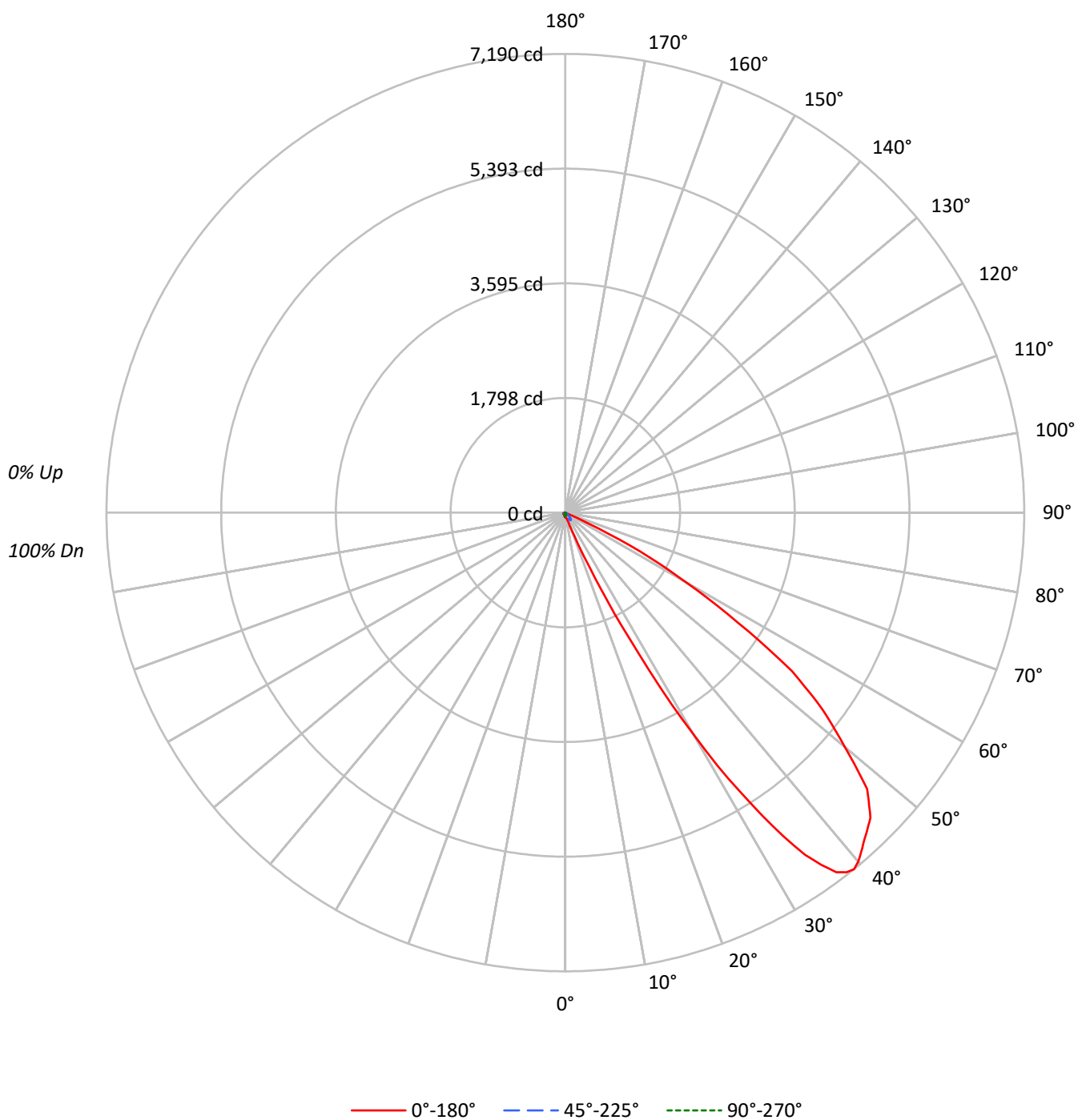
Lumens per Lamp: N/A
Luminaire Lumens: 1869.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12469	12469	12469	12469	12469
5°	13329	13070	12240	11151	10891
10°	14585	12941	10738	9636	9356
15°	21342	12909	8986	8148	8416
20°	53663	14131	6928	6928	7789
25°	249201	17653	5378	6290	7183
30°	793354	24421	4077	5946	7199
35°	1376642	29792	3301	5635	7274
40°	1605512	29721	2473	5665	7442
45°	1646536	21092	2679	6138	8062
50°	1531225	11816	2117	6323	9270
55°	1301391	6155	2372	7086	10389
60°	751614	1619	2721	7578	11401
65°	153347	0	3219	8965	12837
70°	2367	806	3978	10323	15056
75°	2063	1065	4192	10447	17833
80°	1587	1587	6248	12497	20332
85°	0	3162	12449	12449	24898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1646536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.4
10°-20°	18.8	1.0
20°-30°	107.8	5.8
30°-40°	503.4	26.9
40°-50°	711.9	38.1
50°-60°	438.0	23.4
60°-70°	66.7	3.6
70°-80°	10.6	0.6
80°-90°	5.3	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°	133.2	7.1
0°-40°	636.6	34.1
0°-60°	1786.5	95.6
0°-90°	1869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1869.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	77	76	71	64	63	8
15°	120	72	50	46	47	43
25°	1311	93	28	33	38	807
35°	6548	142	16	27	35	3930
45°	6760	87	11	25	33	5125
55°	4334	20	8	24	35	3688
65°	376	0	8	22	32	681
75°	3	2	6	16	27	3
85°	0	2	6	6	13	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°	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
2.5°	74.0	74.0	75.6	75.6	74.0	75.6	75.6	75.6	72.4	70.8	67.7
5°	77.1	77.1	77.1	78.7	77.1	77.1	75.6	74.0	70.8	66.1	64.5
7.5°	80.3	80.3	78.7	80.3	78.7	78.7	75.6	72.4	67.7	63.0	59.8
10°	83.4	83.4	81.9	81.9	80.3	80.3	74.0	69.3	61.4	56.7	55.1
12.5°	92.9	92.9	91.3	89.7	86.6	85.0	72.4	64.5	55.1	50.4	48.8
15°	119.7	118.1	114.9	110.2	102.3	100.8	72.4	59.8	50.4	45.7	45.7
17.5°	163.7	162.2	157.4	144.8	130.7	125.9	72.4	53.5	44.1	40.9	40.9
20°	292.8	280.2	256.6	225.1	192.1	174.8	77.1	47.2	37.8	36.2	37.8
21°	382.6	370.0	340.1	288.1	229.9	211.0	80.3	45.7	36.2	34.6	37.8
22°	521.1	506.9	445.5	374.7	291.3	258.2	81.9	42.5	33.1	33.1	36.2
23°	727.4	703.7	599.8	486.5	363.7	316.4	85.0	40.9	31.5	33.1	34.6
24°	952.5	932.0	813.9	643.9	464.4	396.7	88.2	39.4	29.9	29.9	33.1
25°	1311.4	1287.8	1078.4	812.4	588.8	477.0	92.9	36.2	28.3	28.3	33.1
26°	1775.9	1667.3	1388.6	1047.0	725.8	598.3	97.6	34.6	26.8	28.3	31.5
27°	2216.7	2127.0	1813.7	1342.9	897.4	735.2	103.9	33.1	25.2	26.8	31.5
28°	2796.1	2670.1	2275.0	1698.7	1130.4	889.5	110.2	31.5	23.6	26.8	29.9
29°	3444.7	3268.4	2791.4	2098.6	1393.3	1062.7	116.5	29.9	22.0	25.2	29.9
30°	3989.4	3824.1	3347.1	2572.5	1695.6	1291.0	122.8	28.3	20.5	25.2	29.9
31°	4628.6	4378.3	3800.5	2974.0	1955.4	1519.3	129.1	25.2	18.9	23.6	28.3
32°	5146.6	4971.9	4357.8	3427.4	2297.0	1771.2	133.8	23.6	18.9	23.6	28.3
33°	5647.3	5412.7	4819.1	3861.9	2605.6	2029.4	138.5	22.0	17.3	22.0	28.3
34°	6125.9	5910.2	5255.2	4213.0	2896.8	2275.0	141.7	18.9	17.3	22.0	26.8
35°	6547.8	6297.5	5639.4	4556.2	3196.0	2498.5	141.7	17.3	15.7	20.5	26.8
36°	6821.7	6642.3	5973.1	4894.7	3466.8	2711.1	141.7	15.7	14.2	20.5	25.2
37°	7056.3	6846.9	6240.8	5154.5	3666.7	2881.1	141.7	14.2	14.2	20.5	25.2
38°	7152.3	6972.9	6425.0	5384.3	3854.0	3054.3	140.1	12.6	12.6	18.9	25.2
39°	7190.1	7029.5	6563.5	5549.6	3992.6	3170.8	137.0	11.0	12.6	18.9	25.2
40°	7141.3	7020.1	6634.4	5656.7	4102.8	3255.8	132.2	9.4	11.0	18.9	25.2
42.5°	6939.8	6859.5	6618.6	5763.8	4197.3	3318.8	114.9	6.3	11.0	17.3	25.2
45°	6760.3	6672.2	6459.6	5652.0	4074.5	3194.4	86.6	3.1	11.0	17.3	25.2
47.5°	6412.4	6357.3	6190.4	5367.0	3805.2	2914.2	61.4	1.6	9.4	15.7	23.6
50°	5715.0	5663.0	5442.6	4660.1	3273.1	2463.9	44.1	1.6	7.9	15.7	23.6
52.5°	5089.9	5034.8	4718.4	3874.5	2514.3	1805.8	28.3	1.6	7.9	15.7	23.6
55°	4334.2	4238.2	3822.6	2940.9	1782.2	1210.7	20.5	1.6	7.9	14.2	23.6
57.5°	3208.6	3068.4	2696.9	2005.7	1026.5	656.5	11.0	1.6	7.9	14.2	23.6
60°	2182.1	2098.6	1687.7	1058.0	437.7	277.1	4.7	1.6	7.9	14.2	22.0
62.5°	1322.5	1217.0	848.6	450.3	188.9	125.9	0.0	3.1	7.9	14.2	22.0
65°	376.3	333.8	222.0	102.3	53.5	40.9	0.0	3.1	7.9	14.2	22.0
67.5°	12.6	12.6	12.6	11.0	7.9	7.9	1.6	3.1	7.9	14.2	20.5
70°	4.7	4.7	4.7	3.1	3.1	1.6	1.6	3.1	7.9	12.6	20.5
72.5°	3.1	3.1	3.1	3.1	1.6	1.6	1.6	3.1	6.3	11.0	18.9
75°	3.1	3.1	3.1	1.6	1.6	1.6	1.6	4.7	6.3	11.0	15.7
77.5°	3.1	3.1	3.1	1.6	1.6	1.6	1.6	4.7	6.3	9.4	15.7
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7	6.3	9.4	12.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	1.6	4.7	6.3	6.3	9.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	6.3	4.7	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	4.7	4.7	3.1
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°	72.4	72.4
2.5°	67.7	67.7
5°	63.0	63.0
7.5°	58.3	58.3
10°	53.5	53.5
12.5°	50.4	50.4
15°	45.7	47.2
17.5°	42.5	44.1
20°	40.9	42.5
21°	40.9	42.5
22°	39.4	40.9
23°	39.4	40.9
24°	37.8	39.4
25°	36.2	37.8
26°	36.2	37.8
27°	36.2	37.8
28°	34.6	37.8
29°	34.6	36.2
30°	34.6	36.2
31°	33.1	36.2
32°	33.1	36.2
33°	33.1	34.6
34°	31.5	34.6
35°	31.5	34.6
36°	31.5	34.6
37°	31.5	33.1
38°	31.5	34.6
39°	31.5	33.1
40°	31.5	33.1
42.5°	31.5	33.1
45°	31.5	33.1
47.5°	31.5	34.6
50°	31.5	34.6
52.5°	31.5	34.6
55°	31.5	34.6
57.5°	31.5	33.1
60°	31.5	33.1
62.5°	29.9	33.1
65°	29.9	31.5
67.5°	29.9	31.5
70°	28.3	29.9
72.5°	26.8	28.3
75°	23.6	26.8
77.5°	22.0	23.6
80°	18.9	20.5



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	15.7	15.7
85°	11.0	12.6
87.5°	6.3	6.3
90°	0.0	0.0

(END OF REPORT)