

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: P1317296

Luminaire Tested: P3SQAS17R409830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R409830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

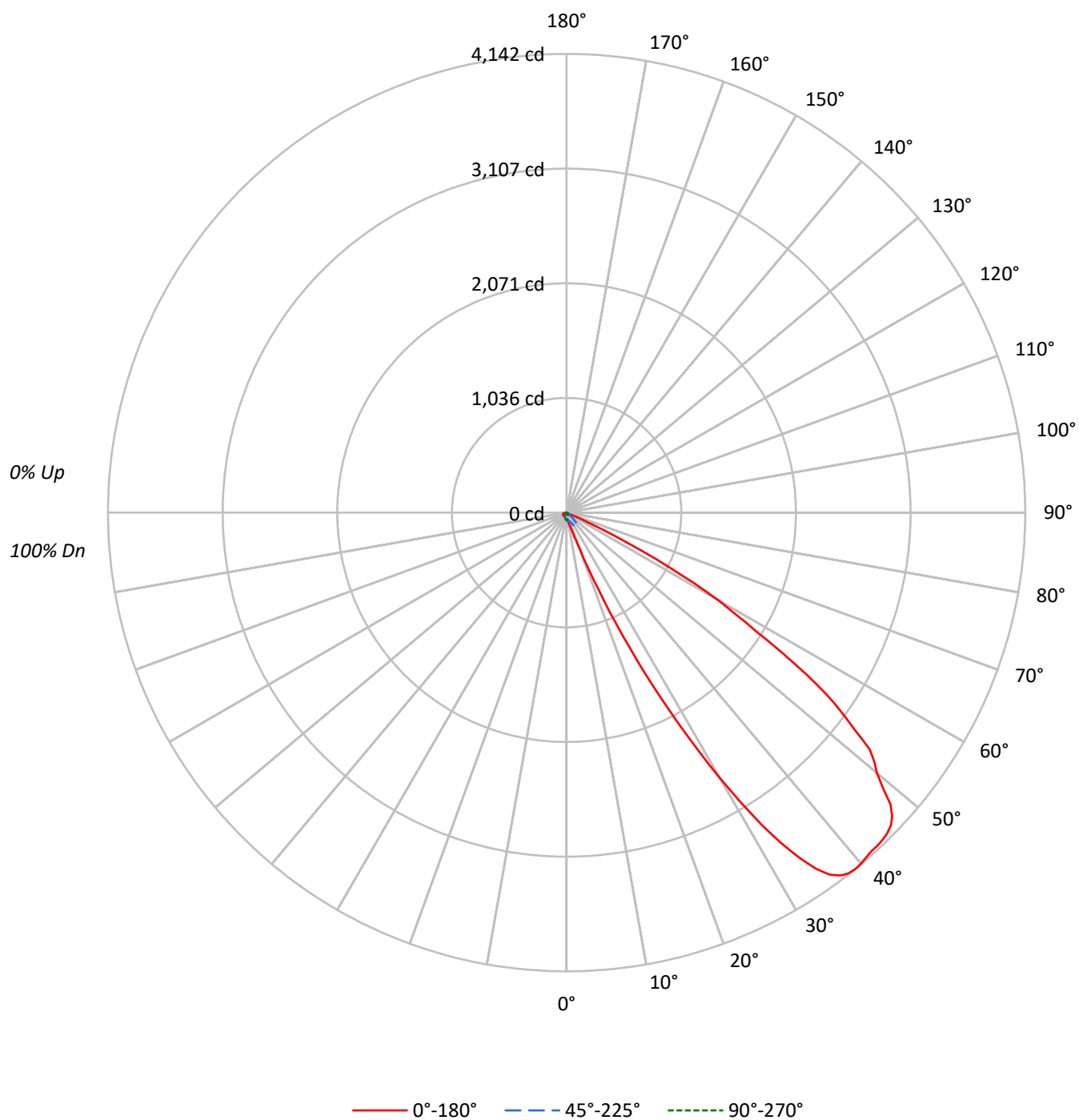
Lumens per Lamp: N/A
Luminaire Lumens: 1280.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11332	11332	11332	11332	11332
5°	12603	12188	11185	10165	9958
10°	15215	12959	10283	9251	9041
15°	24944	14050	8808	8166	8380
20°	65924	16586	7331	7331	7972
25°	254199	20542	5815	6708	7810
30°	548412	27344	4673	6543	7716
35°	825464	32378	3953	6433	7905
40°	929993	32509	3440	6610	8453
45°	997206	25184	3142	6868	9158
50°	980145	15754	2840	7234	10074
55°	862290	7777	2822	8107	11290
60°	545808	1619	3238	8921	12538
65°	111618	489	3342	9577	13896
70°	2367	604	3575	10675	15962
75°	2329	1597	3926	11711	17966
80°	2380	1190	4661	12794	21026
85°	2371	2371	9287	14030	23317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1015207 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.5
10°-20°	20.3	1.6
20°-30°	99.4	7.8
30°-40°	323.4	25.3
40°-50°	445.8	34.8
50°-60°	310.5	24.3
60°-70°	58.9	4.6
70°-80°	10.7	0.8
80°-90°	4.9	0.4
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°	125.9	9.8
0°-40°	449.2	35.1
0°-60°	1205.6	94.2
0°-90°	1280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	73	70	65	59	58	7
15°	140	79	49	46	47	51
25°	1338	108	31	35	41	689
35°	3926	154	19	31	38	2373
45°	4094	103	13	28	38	3113
55°	2872	26	9	27	38	2454
65°	274	1	8	24	34	484
75°	4	2	6	18	27	3
85°	1	1	5	7	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
2.5°	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	67.0	65.8
5°	72.9	72.9	72.9	72.9	71.7	71.7	71.7	70.5	70.5	68.2	64.7
7.5°	77.6	77.6	77.6	77.6	76.4	75.2	74.1	74.1	72.9	67.0	62.3
10°	87.0	87.0	85.8	84.6	83.5	81.1	79.9	77.6	74.1	65.8	58.8
12.5°	105.8	103.4	102.3	99.9	96.4	91.7	87.0	83.5	75.2	63.5	55.2
15°	139.9	137.5	132.8	125.8	118.7	109.3	101.1	92.9	78.8	60.0	49.4
17.5°	199.8	192.8	185.7	174.0	156.3	139.9	122.3	107.0	83.5	56.4	44.7
20°	359.7	355.0	312.7	279.8	226.9	189.3	154.0	128.1	90.5	52.9	40.0
22.5°	741.7	692.4	623.0	510.2	397.3	292.7	212.8	161.0	97.6	48.2	35.3
25°	1337.7	1260.1	1110.8	893.4	659.5	466.7	308.0	210.4	108.1	43.5	30.6
27.5°	2025.4	1946.6	1715.1	1415.3	1033.3	704.1	439.6	278.6	122.3	38.8	27.0
30°	2757.7	2690.7	2396.8	1981.9	1456.4	986.2	588.9	347.9	137.5	34.1	23.5
31°	3052.8	2967.0	2649.6	2207.6	1655.1	1102.6	648.9	377.3	143.4	32.9	22.3
32°	3324.3	3226.8	2897.6	2423.9	1816.2	1228.4	714.7	403.2	148.1	30.6	21.2
33°	3558.2	3444.2	3126.8	2628.4	1993.7	1345.9	782.9	427.9	151.6	28.2	20.0
34°	3756.9	3658.2	3317.3	2834.1	2151.2	1458.8	849.9	452.6	154.0	27.0	18.8
35°	3926.2	3836.8	3499.5	2990.5	2305.2	1568.1	911.0	476.1	154.0	24.7	18.8
36°	4040.2	3962.6	3657.0	3150.3	2434.5	1661.0	962.7	497.2	154.0	22.3	17.6
37°	4102.5	4027.3	3760.4	3282.0	2561.4	1752.7	1009.8	513.7	152.8	21.2	16.5
38°	4134.2	4068.4	3836.8	3389.0	2649.6	1818.5	1050.9	526.6	151.6	18.8	16.5
39°	4142.5	4087.2	3885.0	3466.6	2735.4	1884.3	1080.3	533.7	148.1	17.6	15.3
40°	4136.6	4088.4	3910.9	3535.9	2801.2	1936.1	1101.4	536.0	144.6	15.3	15.3
41°	4124.8	4087.2	3929.7	3584.1	2854.1	1969.0	1109.7	531.3	139.9	12.9	14.1
42°	4114.3	4073.1	3937.9	3617.0	2890.6	1985.4	1108.5	521.9	132.8	11.8	14.1
43°	4114.3	4067.2	3939.1	3638.2	2908.2	1986.6	1094.4	504.3	123.4	10.6	12.9
44°	4107.2	4063.7	3945.0	3652.3	2912.9	1976.0	1072.1	485.5	112.8	9.4	12.9
45°	4094.3	4048.4	3943.8	3653.5	2904.7	1950.2	1035.6	460.8	103.4	7.1	12.9
46°	4069.6	4028.4	3933.2	3645.2	2880.0	1912.5	992.1	436.1	92.9	5.9	11.8
47°	4020.2	3988.5	3905.0	3617.0	2842.4	1857.3	940.4	407.9	84.6	4.7	11.8
48°	3935.6	3913.2	3856.8	3554.7	2770.7	1789.1	885.2	377.3	76.4	4.7	11.8
49°	3780.4	3762.8	3729.9	3454.8	2679.0	1705.7	825.2	343.2	68.2	3.5	11.8
50°	3658.2	3639.4	3572.4	3286.7	2547.3	1599.9	759.4	309.2	58.8	2.4	10.6
51°	3577.1	3546.5	3440.7	3091.6	2355.7	1458.8	687.7	275.1	49.4	2.4	10.6
52°	3474.8	3428.9	3297.3	2916.4	2180.6	1317.7	610.1	241.0	43.5	2.4	10.6
53°	3260.8	3244.4	3113.9	2728.3	2005.4	1182.6	530.2	212.8	37.6	2.4	10.6
54°	3073.9	3049.3	2871.8	2467.4	1815.0	1032.1	447.9	188.1	31.7	2.4	10.6
55°	2871.8	2823.6	2666.0	2247.6	1591.6	893.4	369.1	162.2	25.9	2.4	9.4
56°	2616.7	2574.3	2405.1	2012.5	1385.9	752.3	309.2	132.8	20.0	2.4	9.4
57°	2306.3	2267.5	2137.1	1723.3	1172.0	614.8	251.6	107.0	15.3	2.4	9.4
58°	2006.6	1963.1	1813.8	1445.9	946.3	487.8	210.4	87.0	11.8	2.4	9.4
59°	1776.2	1717.4	1524.6	1214.3	740.6	370.3	166.9	69.4	8.2	2.4	9.4
60°	1584.6	1536.4	1336.5	1010.9	580.7	272.7	123.4	52.9	4.7	2.4	9.4
62.5°	918.1	905.1	725.3	520.7	273.9	127.0	61.1	24.7	2.4	3.5	9.4
65°	273.9	238.6	185.7	110.5	70.5	42.3	22.3	8.2	1.2	3.5	8.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	8.2	8.2	8.2	8.2	8.2	8.2	4.7	2.4	1.2	3.5	8.2
70°	4.7	3.5	3.5	3.5	3.5	2.4	2.4	1.2	1.2	3.5	7.1
72.5°	3.5	3.5	3.5	3.5	2.4	2.4	2.4	1.2	2.4	3.5	5.9
75°	3.5	2.4	2.4	2.4	2.4	1.2	1.2	1.2	2.4	3.5	5.9
77.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	2.4	3.5	5.9
80°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	3.5	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):

	112.5°	135°	157.5°	180°
0°	65.8	65.8	65.8	65.8
2.5°	63.5	62.3	61.1	61.1
5°	61.1	58.8	58.8	57.6
7.5°	57.6	55.2	55.2	55.2
10°	54.1	52.9	52.9	51.7
12.5°	49.4	49.4	49.4	49.4
15°	45.8	45.8	47.0	47.0
17.5°	41.1	42.3	44.7	45.8
20°	37.6	40.0	42.3	43.5
22.5°	35.3	37.6	41.1	42.3
25°	31.7	35.3	40.0	41.1
27.5°	29.4	34.1	37.6	40.0
30°	27.0	32.9	36.4	38.8
31°	27.0	31.7	36.4	38.8
32°	25.9	30.6	36.4	37.6
33°	25.9	30.6	36.4	37.6
34°	24.7	30.6	35.3	37.6
35°	24.7	30.6	35.3	37.6
36°	23.5	29.4	35.3	37.6
37°	23.5	29.4	35.3	37.6
38°	22.3	29.4	35.3	37.6
39°	22.3	29.4	35.3	37.6
40°	22.3	29.4	35.3	37.6
41°	21.2	29.4	35.3	37.6
42°	21.2	29.4	35.3	37.6
43°	21.2	28.2	35.3	37.6
44°	21.2	28.2	35.3	37.6
45°	20.0	28.2	35.3	37.6
46°	20.0	28.2	35.3	37.6
47°	20.0	28.2	35.3	37.6
48°	20.0	28.2	35.3	37.6
49°	20.0	28.2	35.3	37.6
50°	18.8	27.0	35.3	37.6
51°	18.8	27.0	35.3	37.6
52°	18.8	27.0	35.3	37.6
53°	18.8	27.0	35.3	37.6
54°	17.6	27.0	35.3	37.6
55°	17.6	27.0	35.3	37.6
56°	17.6	27.0	35.3	36.4
57°	17.6	27.0	34.1	36.4
58°	17.6	25.9	34.1	36.4
59°	17.6	25.9	34.1	36.4
60°	17.6	25.9	34.1	36.4
62.5°	16.5	25.9	32.9	35.3
65°	15.3	23.5	32.9	34.1



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	15.3	22.3	30.6	32.9
70°	14.1	21.2	29.4	31.7
72.5°	11.8	20.0	27.0	29.4
75°	10.6	17.6	24.7	27.0
77.5°	9.4	15.3	22.3	23.5
80°	8.2	12.9	18.8	21.2
82.5°	5.9	9.4	15.3	16.5
85°	4.7	7.1	10.6	11.8
87.5°	3.5	3.5	5.9	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)