

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: P1317409

Luminaire Tested: P3SQAS20R309830D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317409
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: P3SQAS20R309830D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

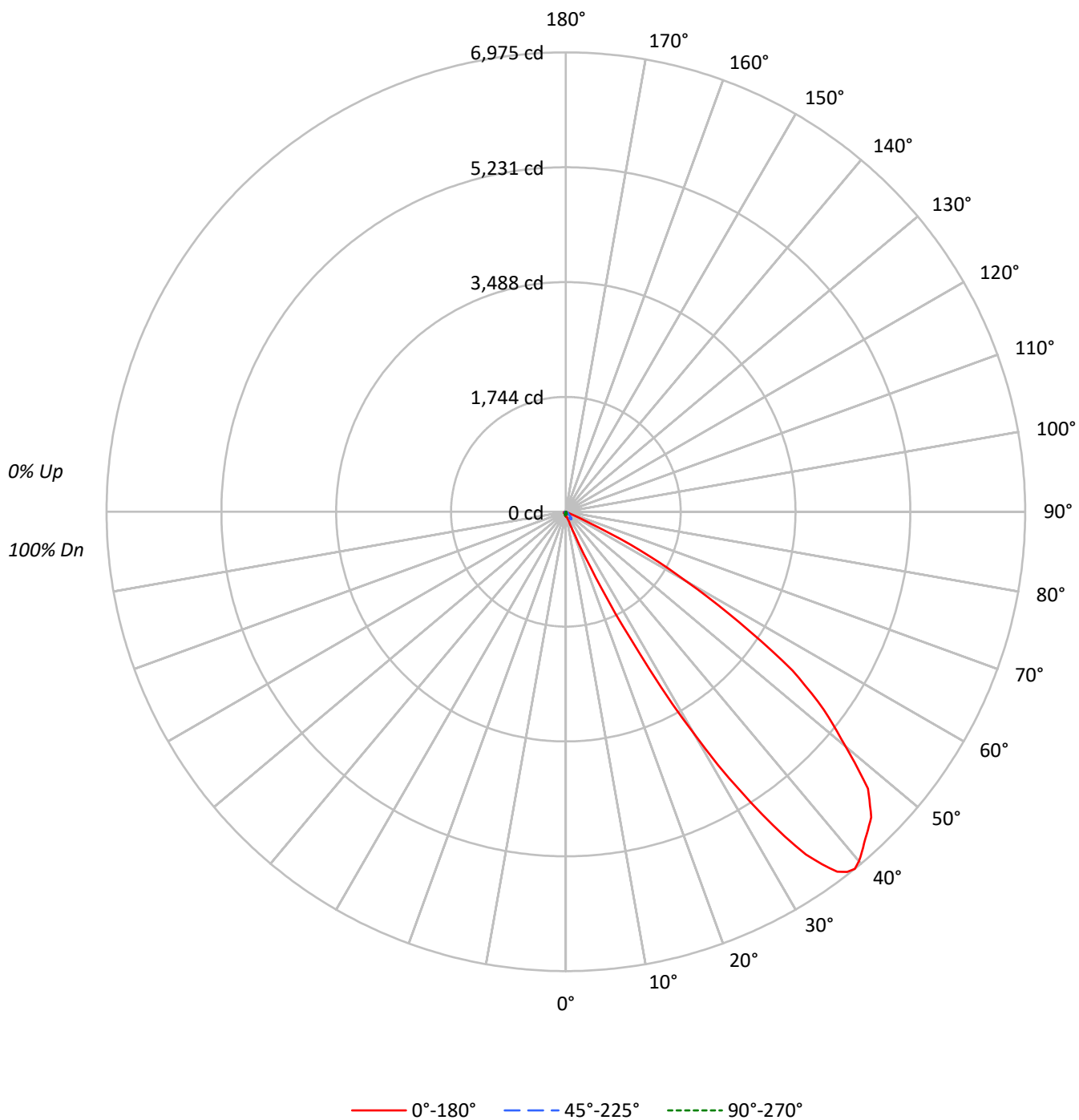
Lumens per Lamp: N/A
Luminaire Lumens: 1813.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	12107	12107	12107	12107	12107
5°	12931	12672	11877	10822	10563
10°	14148	12556	10423	9356	9076
15°	20700	12534	8719	7899	8166
20°	52069	13709	6726	6726	7551
25°	241752	17121	5226	6100	6974
30°	769590	23685	3957	5767	6980
35°	1335392	28888	3217	5466	7064
40°	1557423	28844	2406	5486	7217
45°	1597215	20459	2606	5943	7818
50°	1485328	11467	2036	6136	9002
55°	1262417	5975	2282	6876	10089
60°	729087	1584	2618	7371	11057
65°	148742	0	3097	8721	12429
70°	2316	755	3827	10021	14603
75°	2063	998	4059	10181	17301
80°	1488	1488	6050	12100	19737
85°	0	2964	12054	12054	24108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1597215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.4
10°-20°	18.3	1.0
20°-30°	104.6	5.8
30°-40°	488.3	26.9
40°-50°	690.6	38.1
50°-60°	424.8	23.4
60°-70°	64.7	3.6
70°-80°	10.2	0.6
80°-90°	5.1	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°	129.2	7.1
0°-40°	617.5	34.1
0°-60°	1732.9	95.6
0°-90°	1813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	75	73	69	63	61	7
15°	116	70	49	44	46	41
25°	1272	90	28	32	37	783
35°	6352	137	15	26	34	3812
45°	6558	84	11	24	32	4972
55°	4204	20	8	23	34	3578
65°	365	0	8	21	30	661
75°	3	2	6	15	26	3
85°	0	2	6	6	12	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°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
2.5°	71.8	71.8	73.3	73.3	71.8	73.3	73.3	73.3	70.3	68.7	65.7
5°	74.8	74.8	74.8	76.4	74.8	74.8	73.3	71.8	68.7	64.1	62.6
7.5°	77.9	77.9	76.4	77.9	76.4	76.4	73.3	70.3	65.7	61.1	58.0
10°	80.9	80.9	79.4	79.4	77.9	77.9	71.8	67.2	59.6	55.0	53.5
12.5°	90.1	90.1	88.6	87.1	84.0	82.5	70.3	62.6	53.5	48.9	47.3
15°	116.1	114.5	111.5	106.9	99.3	97.7	70.3	58.0	48.9	44.3	44.3
17.5°	158.8	157.3	152.7	140.5	126.8	122.2	70.3	51.9	42.8	39.7	39.7
20°	284.1	271.8	248.9	218.4	186.3	169.5	74.8	45.8	36.7	35.1	36.7
21°	371.1	358.9	329.9	279.5	223.0	204.6	77.9	44.3	35.1	33.6	36.7
22°	505.5	491.8	432.2	363.5	282.5	250.5	79.4	41.2	32.1	32.1	35.1
23°	705.6	682.7	581.9	471.9	352.8	307.0	82.5	39.7	30.5	32.1	33.6
24°	924.0	904.1	789.6	624.6	450.5	384.9	85.5	38.2	29.0	29.0	32.1
25°	1272.2	1249.2	1046.1	788.0	571.2	462.7	90.1	35.1	27.5	27.5	32.1
26°	1722.7	1617.3	1347.0	1015.6	704.0	580.3	94.7	33.6	26.0	27.5	30.5
27°	2150.3	2063.2	1759.3	1302.7	870.5	713.2	100.8	32.1	24.4	26.0	30.5
28°	2712.3	2590.1	2206.8	1647.8	1096.5	862.9	106.9	30.5	22.9	26.0	29.0
29°	3341.5	3170.5	2707.7	2035.8	1351.6	1030.9	113.0	29.0	21.4	24.4	29.0
30°	3869.9	3709.6	3246.8	2495.4	1644.8	1252.3	119.1	27.5	19.9	24.4	29.0
31°	4490.0	4247.1	3686.6	2884.9	1896.8	1473.7	125.2	24.4	18.3	22.9	27.5
32°	4992.4	4822.9	4227.3	3324.7	2228.2	1718.1	129.8	22.9	18.3	22.9	27.5
33°	5478.0	5250.5	4674.7	3746.2	2527.5	1968.6	134.4	21.4	16.8	21.4	27.5
34°	5942.3	5733.1	5097.8	4086.8	2810.0	2206.8	137.4	18.3	16.8	21.4	26.0
35°	6351.6	6108.8	5470.4	4419.7	3100.2	2423.7	137.4	16.8	15.3	19.9	26.0
36°	6617.3	6443.2	5794.2	4748.0	3362.9	2629.8	137.4	15.3	13.7	19.9	24.4
37°	6844.9	6641.8	6053.8	5000.0	3556.8	2794.8	137.4	13.7	13.7	19.9	24.4
38°	6938.0	6763.9	6232.5	5223.0	3738.6	2962.8	135.9	12.2	12.2	18.3	24.4
39°	6974.7	6818.9	6366.9	5383.4	3873.0	3075.8	132.9	10.7	12.2	18.3	24.4
40°	6927.4	6809.8	6435.6	5487.2	3979.9	3158.2	128.3	9.2	10.7	18.3	24.4
42.5°	6731.9	6654.0	6420.3	5591.1	4071.5	3219.3	111.5	6.1	10.7	16.8	24.4
45°	6557.8	6472.3	6266.1	5482.6	3952.4	3098.7	84.0	3.1	10.7	16.8	24.4
47.5°	6220.3	6166.8	6004.9	5206.2	3691.2	2826.8	59.6	1.5	9.2	15.3	22.9
50°	5543.7	5493.3	5279.5	4520.5	3175.0	2390.1	42.8	1.5	7.6	15.3	22.9
52.5°	4937.4	4884.0	4577.0	3758.4	2438.9	1751.7	27.5	1.5	7.6	15.3	22.9
55°	4204.4	4111.2	3708.0	2852.8	1728.8	1174.4	19.9	1.5	7.6	13.7	22.9
57.5°	3112.4	2976.5	2616.1	1945.6	995.7	636.8	10.7	1.5	7.6	13.7	22.9
60°	2116.7	2035.8	1637.2	1026.3	424.6	268.8	4.6	1.5	7.6	13.7	21.4
62.5°	1282.8	1180.5	823.2	436.8	183.3	122.2	0.0	3.1	7.6	13.7	21.4
65°	365.0	323.8	215.3	99.3	51.9	39.7	0.0	3.1	7.6	13.7	21.4
67.5°	12.2	12.2	12.2	10.7	7.6	7.6	1.5	3.1	7.6	13.7	19.9
70°	4.6	4.6	4.6	3.1	3.1	1.5	1.5	3.1	7.6	12.2	19.9
72.5°	3.1	3.1	3.1	3.1	1.5	1.5	1.5	3.1	6.1	10.7	18.3
75°	3.1	3.1	3.1	1.5	1.5	1.5	1.5	4.6	6.1	10.7	15.3
77.5°	3.1	3.1	3.1	1.5	1.5	1.5	1.5	4.6	6.1	9.2	15.3
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.6	6.1	9.2	12.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.5	1.5	1.5	0.0	0.0	0.0	1.5	4.6	6.1	6.1	9.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.6	6.1	4.6	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.6	4.6	4.6	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°	70.3	70.3
2.5°	65.7	65.7
5°	61.1	61.1
7.5°	56.5	56.5
10°	51.9	51.9
12.5°	48.9	48.9
15°	44.3	45.8
17.5°	41.2	42.8
20°	39.7	41.2
21°	39.7	41.2
22°	38.2	39.7
23°	38.2	39.7
24°	36.7	38.2
25°	35.1	36.7
26°	35.1	36.7
27°	35.1	36.7
28°	33.6	36.7
29°	33.6	35.1
30°	33.6	35.1
31°	32.1	35.1
32°	32.1	35.1
33°	32.1	33.6
34°	30.5	33.6
35°	30.5	33.6
36°	30.5	33.6
37°	30.5	32.1
38°	30.5	33.6
39°	30.5	32.1
40°	30.5	32.1
42.5°	30.5	32.1
45°	30.5	32.1
47.5°	30.5	33.6
50°	30.5	33.6
52.5°	30.5	33.6
55°	30.5	33.6
57.5°	30.5	32.1
60°	30.5	32.1
62.5°	29.0	32.1
65°	29.0	30.5
67.5°	29.0	30.5
70°	27.5	29.0
72.5°	26.0	27.5
75°	22.9	26.0
77.5°	21.4	22.9
80°	18.3	19.9

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	15.3	15.3
85°	10.7	12.2
87.5°	6.1	6.1
90°	0.0	0.0

(END OF REPORT)