

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: P1317391

Luminaire Tested: P3SQAS20R259830D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259830D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

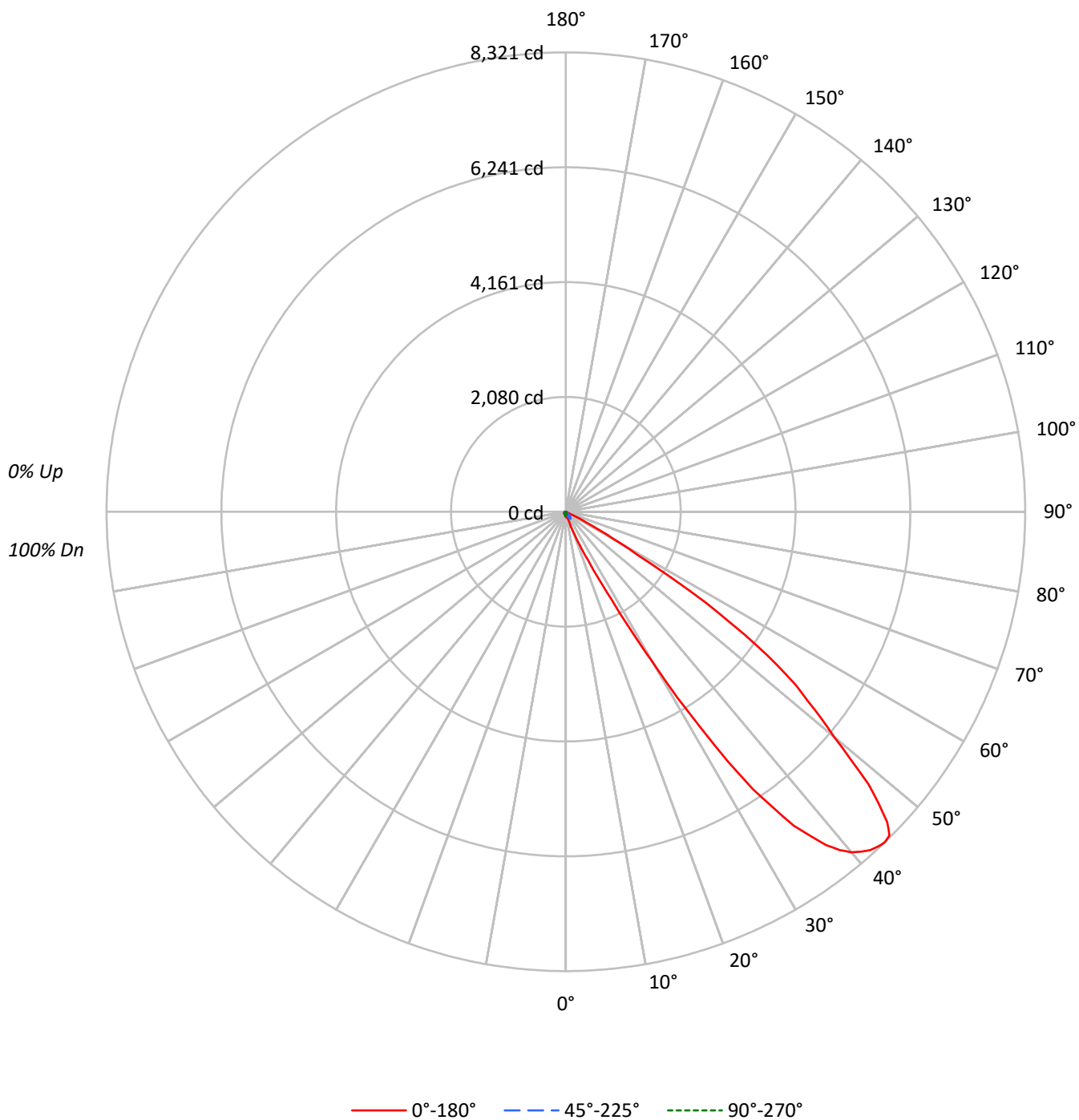
Lumens per Lamp: N/A
Luminaire Lumens: 1735.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15259	15259	15259	15259	15259
5°	17426	16631	14781	13191	12931
10°	17348	15757	12556	10947	10947
15°	19328	13604	9806	9254	9806
20°	68270	13434	7551	7826	8669
25°	196412	17121	6100	7259	8418
30°	626665	26409	4852	6980	8492
35°	1372564	31137	4163	6749	8662
40°	1810638	28148	3440	6857	9263
45°	2019182	19704	3337	7429	10035
50°	1699673	10235	3269	7770	11039
55°	1270765	4114	3213	8708	12371
60°	393357	1068	3169	9472	13674
65°	33579	0	3749	9943	14915
70°	2316	755	3827	11531	16919
75°	2063	998	5057	12177	19297
80°	1488	1488	7538	13588	22712
85°	2964	2964	12054	15018	24108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2019182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.5
10°-20°	20.5	1.2
20°-30°	96.0	5.5
30°-40°	462.1	26.6
40°-50°	724.4	41.8
50°-60°	371.4	21.4
60°-70°	35.0	2.0
70°-80°	11.8	0.7
80°-90°	5.9	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°	124.4	7.2
0°-40°	586.5	33.8
0°-60°	1682.3	97.0
0°-90°	1735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1735.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	89	89	89	89	89	
5°	101	96	86	76	75	10
15°	108	76	55	52	55	46
25°	1034	90	32	38	44	641
35°	6528	148	20	32	41	3963
45°	8290	81	14	30	41	6066
55°	4232	14	11	29	41	3523
65°	82	0	9	24	37	258
75°	3	2	8	18	29	4
85°	2	2	6	8	12	1
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°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	96.2	96.2	96.2	96.2	96.2	96.2	94.7	94.7	96.2	94.7	94.7
5°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	99.2	99.2	99.2	96.2
7.5°	102.3	100.8	100.8	100.8	100.8	100.8	100.8	100.8	99.2	99.2	94.7
10°	99.2	99.2	99.2	99.2	97.7	97.7	97.7	96.2	96.2	96.2	90.1
12.5°	99.2	99.2	99.2	99.2	97.7	97.7	96.2	96.2	94.7	93.1	82.4
15°	108.4	108.4	108.4	106.9	105.3	103.8	102.3	100.8	99.2	96.2	76.3
17.5°	158.8	154.2	152.7	146.6	138.9	131.3	125.2	119.1	113.0	108.4	73.3
20°	372.5	371.0	363.4	345.0	325.2	302.3	279.4	253.4	216.8	192.4	73.3
22.5°	645.8	636.7	622.9	609.2	574.1	532.8	490.1	441.2	393.9	343.5	77.9
25°	1033.6	1055.0	1009.2	972.5	911.5	836.7	755.7	688.6	603.1	523.7	90.1
27.5°	1797.0	1810.7	1720.7	1601.6	1459.6	1302.3	1149.6	1035.1	891.6	760.3	113.0
30°	3151.2	3165.0	3013.8	2760.4	2467.2	2209.2	1859.6	1552.7	1270.3	1051.9	132.8
31°	3932.9	3826.1	3650.5	3404.7	3033.7	2644.3	2224.5	1853.5	1496.2	1209.2	138.9
32°	4612.3	4603.2	4398.6	4026.1	3653.5	3172.6	2652.0	2168.0	1729.8	1368.0	143.5
33°	5413.9	5352.8	5064.3	4713.1	4220.0	3736.0	3064.2	2511.5	1969.5	1545.1	146.6
34°	6056.7	5891.8	5772.7	5371.1	4850.5	4233.7	3514.6	2874.9	2268.8	1716.1	148.1
35°	6528.4	6493.3	6261.2	5887.2	5357.4	4726.8	4000.1	3252.0	2519.2	1914.6	148.1
36°	7027.7	6919.3	6693.3	6354.4	5838.3	5186.4	4371.1	3578.7	2810.8	2093.2	146.6
37°	7340.7	7276.5	7052.1	6702.5	6197.1	5574.2	4786.4	3923.8	3042.8	2271.8	143.5
38°	7662.8	7533.0	7311.6	6977.3	6481.1	5896.3	5087.2	4189.4	3256.6	2429.1	138.9
39°	7885.7	7751.4	7525.4	7192.6	6707.1	6126.9	5325.3	4415.4	3442.8	2546.6	132.8
40°	8053.7	7923.9	7694.9	7352.9	6873.5	6308.6	5523.8	4615.4	3598.6	2648.9	125.2
41°	8157.5	8036.9	7809.4	7468.9	6988.0	6412.4	5653.6	4745.2	3703.9	2717.6	117.6
42°	8244.5	8120.8	7888.8	7540.7	7058.2	6500.9	5733.0	4827.6	3775.7	2752.7	111.5
43°	8293.4	8169.7	7943.7	7588.0	7101.0	6542.2	5775.7	4865.8	3800.1	2748.2	100.8
44°	8320.8	8192.6	7965.1	7609.4	7119.3	6552.9	5778.8	4858.1	3783.3	2711.5	91.6
45°	8290.3	8163.6	7943.7	7588.0	7087.2	6519.3	5748.2	4816.9	3719.2	2639.8	80.9
46°	8091.8	7994.1	7792.6	7465.9	6986.5	6433.8	5670.4	4737.5	3619.9	2551.2	68.7
47°	7742.2	7664.3	7468.9	7226.2	6792.6	6276.5	5526.9	4586.4	3481.0	2418.4	55.0
48°	7377.3	7262.8	7081.1	6832.2	6465.8	5994.1	5290.2	4365.0	3270.3	2244.3	48.9
49°	6838.4	6771.2	6610.9	6333.0	6029.2	5613.9	4955.9	4081.0	3012.3	2055.0	42.7
50°	6343.7	6297.9	6073.4	5868.9	5546.7	5158.9	4502.4	3707.0	2691.7	1819.9	38.2
51°	5957.4	5902.5	5740.6	5485.6	5142.1	4691.7	4073.4	3221.5	2323.7	1540.5	30.5
52°	5554.3	5523.8	5380.3	5117.7	4780.3	4331.4	3656.6	2809.2	1966.5	1302.3	24.4
53°	5224.6	5180.3	5004.7	4771.1	4406.2	3942.1	3204.7	2426.0	1665.7	1094.7	21.4
54°	4743.6	4725.3	4612.3	4368.1	3972.6	3467.3	2795.5	2042.8	1389.4	928.3	18.3
55°	4232.2	4171.1	4056.6	3862.7	3499.3	3027.6	2322.2	1693.2	1123.7	781.7	13.7
56°	3609.3	3606.2	3401.6	3239.8	2917.6	2416.9	1855.0	1322.2	913.0	651.9	12.2
57°	3013.8	2917.6	2720.7	2560.4	2213.8	1833.6	1377.1	990.9	714.5	528.3	9.2
58°	2229.1	2178.7	2126.8	1891.7	1571.0	1299.3	983.2	696.2	528.3	403.1	6.1
59°	1513.0	1511.5	1450.4	1271.8	1087.1	809.2	613.8	473.3	363.4	296.2	4.6
60°	1142.0	1114.5	992.4	874.8	684.0	511.5	363.4	279.4	226.0	190.8	3.1
62.5°	400.0	415.3	364.9	302.3	230.5	189.3	145.0	117.6	96.2	77.9	0.0
65°	82.4	90.1	77.9	73.3	58.0	50.4	44.3	38.2	32.1	27.5	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	10.7	9.2	9.2	9.2	7.6	7.6	7.6	7.6	6.1	6.1	1.5
70°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1	1.5
72.5°	4.6	4.6	4.6	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1
85°	1.5	1.5	1.5	0.0	0.0	1.5	1.5	1.5	1.5	1.5	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°	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	93.1	90.1	85.5	84.0	82.4	82.4
5°	91.6	85.5	80.9	76.3	74.8	74.8
7.5°	87.0	79.4	73.3	70.2	68.7	67.2
10°	82.4	71.8	65.7	62.6	62.6	62.6
12.5°	73.3	64.1	58.0	56.5	58.0	58.0
15°	65.7	55.0	51.9	51.9	53.4	55.0
17.5°	56.5	48.9	45.8	47.3	48.9	50.4
20°	50.4	41.2	41.2	42.7	47.3	47.3
22.5°	44.3	36.6	36.6	41.2	44.3	45.8
25°	39.7	32.1	33.6	38.2	42.7	44.3
27.5°	33.6	27.5	30.5	36.6	41.2	42.7
30°	29.0	24.4	29.0	35.1	39.7	42.7
31°	27.5	22.9	29.0	33.6	39.7	42.7
32°	24.4	22.9	27.5	33.6	39.7	41.2
33°	22.9	21.4	27.5	33.6	39.7	41.2
34°	21.4	19.8	26.0	33.6	39.7	41.2
35°	18.3	19.8	26.0	32.1	38.2	41.2
36°	16.8	18.3	26.0	32.1	38.2	41.2
37°	15.3	18.3	24.4	32.1	38.2	41.2
38°	13.7	16.8	24.4	32.1	38.2	41.2
39°	12.2	16.8	22.9	32.1	38.2	41.2
40°	10.7	15.3	22.9	30.5	38.2	41.2
41°	10.7	15.3	22.9	30.5	38.2	41.2
42°	9.2	15.3	22.9	30.5	38.2	41.2
43°	7.6	13.7	22.9	30.5	38.2	41.2
44°	6.1	13.7	21.4	30.5	38.2	41.2
45°	6.1	13.7	21.4	30.5	38.2	41.2
46°	4.6	12.2	21.4	30.5	38.2	41.2
47°	3.1	12.2	21.4	29.0	38.2	41.2
48°	3.1	12.2	21.4	29.0	38.2	41.2
49°	3.1	12.2	19.8	29.0	38.2	41.2
50°	3.1	12.2	19.8	29.0	38.2	41.2
51°	1.5	10.7	19.8	29.0	38.2	41.2
52°	1.5	10.7	19.8	29.0	38.2	42.7
53°	1.5	10.7	19.8	29.0	38.2	41.2
54°	1.5	10.7	18.3	29.0	38.2	41.2
55°	1.5	10.7	18.3	29.0	38.2	41.2
56°	1.5	9.2	18.3	27.5	38.2	41.2
57°	3.1	9.2	18.3	27.5	38.2	39.7
58°	3.1	9.2	18.3	27.5	36.6	39.7
59°	3.1	9.2	18.3	27.5	36.6	39.7
60°	3.1	9.2	16.8	27.5	36.6	39.7
62.5°	3.1	9.2	16.8	26.0	35.1	38.2
65°	3.1	9.2	15.3	24.4	35.1	36.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.1	7.6	15.3	22.9	33.6	35.1
70°	4.6	7.6	13.7	22.9	32.1	33.6
72.5°	4.6	7.6	13.7	19.8	29.0	32.1
75°	4.6	7.6	12.2	18.3	27.5	29.0
77.5°	4.6	7.6	10.7	16.8	24.4	26.0
80°	6.1	7.6	9.2	13.7	21.4	22.9
82.5°	6.1	7.6	7.6	10.7	16.8	18.3
85°	4.6	6.1	6.1	7.6	10.7	12.2
87.5°	4.6	6.1	4.6	3.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)