

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: P1315640

Luminaire Tested: P3SQAS20R259740D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315640
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: P3SQAS20R259740D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

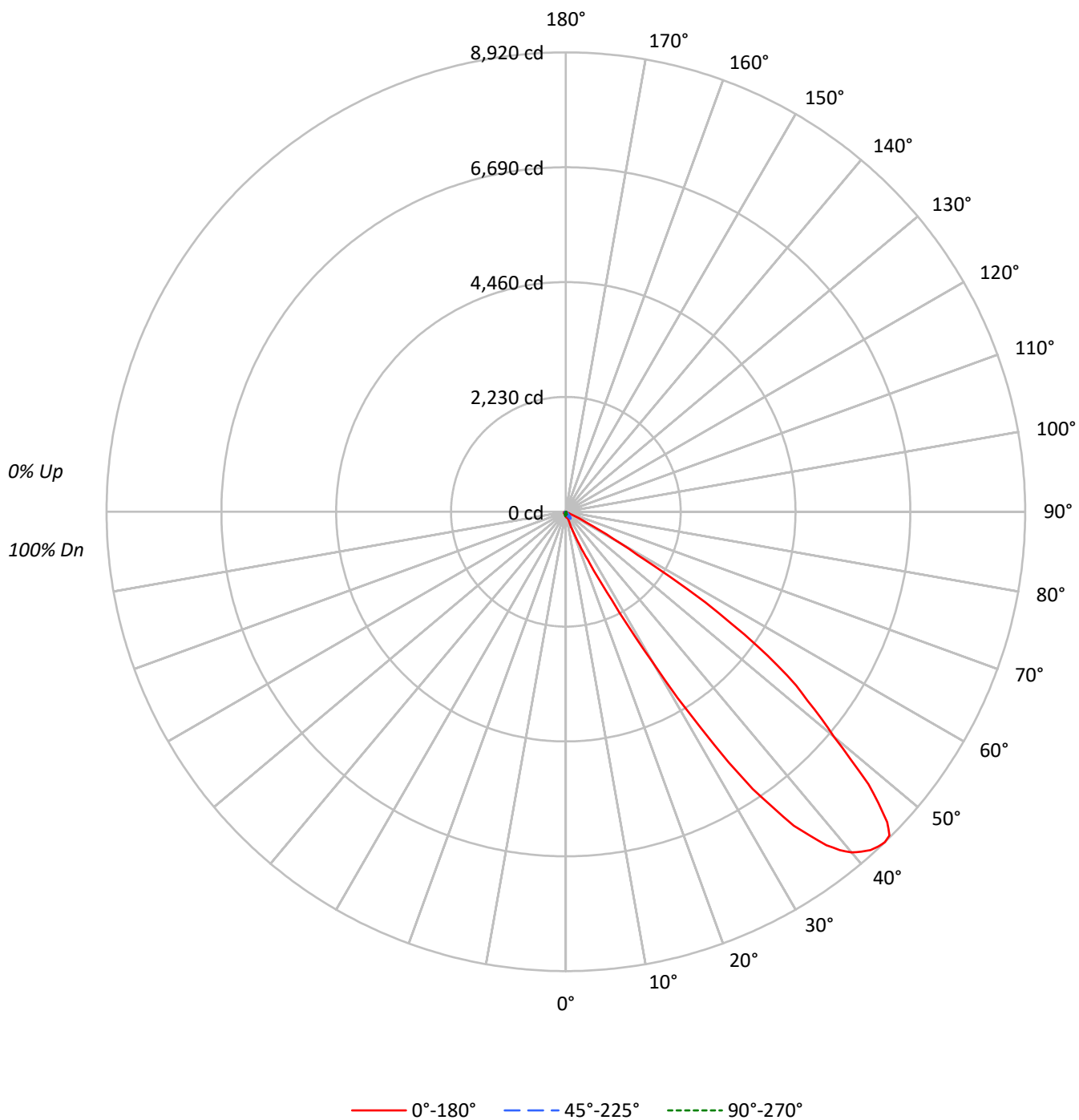
Lumens per Lamp: N/A
Luminaire Lumens: 1860.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	16344	16344	16344	16344	16344
5°	18671	17824	15853	14142	13865
10°	18607	16893	13448	11734	11734
15°	20718	14585	10502	9913	10502
20°	73200	14405	8101	8394	9292
25°	210569	18357	6537	7772	9026
30°	671828	28318	5210	7477	9108
35°	1471463	33387	4478	7232	9293
40°	1941079	30171	3687	7352	9937
45°	2164660	21117	3580	7964	10765
50°	1822117	10958	3510	8333	11843
55°	1362314	4414	3453	9338	13272
60°	421704	1137	3376	10161	14673
65°	36024	0	3994	10677	16015
70°	2467	806	4129	12387	18128
75°	2196	1065	5456	13042	20694
80°	1587	1587	8133	14579	24398
85°	3162	3162	12844	16203	25886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2164660 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.5
10°-20°	21.9	1.2
20°-30°	102.9	5.5
30°-40°	495.4	26.6
40°-50°	776.6	41.8
50°-60°	398.1	21.4
60°-70°	37.6	2.0
70°-80°	12.6	0.7
80°-90°	6.3	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°	133.3	7.2
0°-40°	628.8	33.8
0°-60°	1803.5	97.0
0°-90°	1860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1860.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	95	95	95	95	95	
5°	108	103	92	82	80	10
15°	116	82	59	56	59	49
25°	1108	97	34	41	48	687
35°	6999	159	21	34	44	4248
45°	8888	87	15	33	44	6503
55°	4537	15	12	31	44	3777
65°	88	0	10	26	39	277
75°	3	2	8	20	31	4
85°	2	2	6	8	13	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°	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
2.5°	103.1	103.1	103.1	103.1	103.1	103.1	101.5	101.5	103.1	101.5	101.5
5°	108.0	108.0	108.0	108.0	108.0	108.0	108.0	106.4	106.4	106.4	103.1
7.5°	109.7	108.0	108.0	108.0	108.0	108.0	108.0	108.0	106.4	106.4	101.5
10°	106.4	106.4	106.4	106.4	104.8	104.8	104.8	103.1	103.1	103.1	96.6
12.5°	106.4	106.4	106.4	106.4	104.8	104.8	103.1	103.1	101.5	99.8	88.4
15°	116.2	116.2	116.2	114.6	112.9	111.3	109.7	108.0	106.4	103.1	81.8
17.5°	170.2	165.3	163.7	157.1	148.9	140.8	134.2	127.7	121.1	116.2	78.6
20°	399.4	397.7	389.5	369.9	348.6	324.1	299.5	271.7	232.4	206.2	78.6
22.5°	692.3	682.5	667.8	653.1	615.4	571.2	525.4	473.0	422.3	368.3	83.5
25°	1108.1	1131.0	1081.9	1042.6	977.1	896.9	810.2	738.2	646.5	561.4	96.6
27.5°	1926.5	1941.2	1844.6	1717.0	1564.7	1396.2	1232.5	1109.7	955.9	815.1	121.1
30°	3378.3	3393.0	3231.0	2959.3	2645.0	2368.4	1993.6	1664.6	1361.8	1127.7	142.4
31°	4216.3	4101.7	3913.5	3650.0	3252.2	2834.9	2384.8	1987.0	1604.0	1296.3	148.9
32°	4944.6	4934.8	4715.5	4316.1	3916.8	3401.2	2843.0	2324.2	1854.4	1466.5	153.9
33°	5803.9	5738.5	5429.1	5052.7	4524.0	4005.1	3285.0	2692.5	2111.4	1656.4	157.1
34°	6493.0	6316.2	6188.6	5758.1	5200.0	4538.7	3767.8	3082.0	2432.2	1839.7	158.8
35°	6998.8	6961.1	6712.3	6311.3	5743.4	5067.4	4288.3	3486.3	2700.6	2052.5	158.8
36°	7534.0	7417.8	7175.5	6812.2	6259.0	5560.1	4686.0	3836.6	3013.3	2244.0	157.1
37°	7869.5	7800.8	7560.2	7185.4	6643.6	5975.8	5131.2	4206.5	3262.1	2435.5	153.9
38°	8214.9	8075.8	7838.4	7480.0	6948.0	6321.2	5453.7	4491.3	3491.2	2604.1	148.9
39°	8453.8	8309.8	8067.6	7710.8	7190.3	6568.3	5709.0	4733.5	3690.9	2730.1	142.4
40°	8633.9	8494.8	8249.3	7882.6	7368.7	6763.1	5921.8	4947.9	3857.8	2839.8	134.2
41°	8745.2	8615.9	8372.0	8007.0	7491.4	6874.4	6060.9	5087.0	3970.8	2913.4	126.0
42°	8838.5	8705.9	8457.1	8083.9	7566.7	6969.3	6146.0	5175.4	4047.7	2951.1	119.5
43°	8890.9	8758.3	8516.0	8134.7	7612.6	7013.5	6191.8	5216.3	4073.9	2946.2	108.0
44°	8920.3	8782.8	8539.0	8157.6	7632.2	7025.0	6195.1	5208.2	4055.9	2906.9	98.2
45°	8887.6	8751.7	8516.0	8134.7	7597.8	6988.9	6162.4	5164.0	3987.1	2830.0	86.7
46°	8674.8	8570.1	8354.0	8003.7	7489.8	6897.3	6078.9	5078.9	3880.7	2735.0	73.7
47°	8300.0	8216.5	8007.0	7746.8	7281.9	6728.7	5925.1	4916.8	3731.8	2592.6	58.9
48°	7908.8	7786.0	7591.3	7324.5	6931.7	6425.9	5671.4	4679.5	3505.9	2406.0	52.4
49°	7331.0	7259.0	7087.2	6789.3	6463.6	6018.4	5312.9	4375.0	3229.3	2203.1	45.8
50°	6800.7	6751.6	6511.0	6291.7	5946.3	5530.6	4826.8	3974.0	2885.6	1951.0	40.9
51°	6386.6	6327.7	6154.2	5880.9	5512.6	5029.8	4366.9	3453.6	2491.1	1651.5	32.7
52°	5954.5	5921.8	5767.9	5486.4	5124.7	4643.5	3920.0	3011.6	2108.1	1396.2	26.2
53°	5601.0	5553.5	5365.3	5114.9	4723.7	4226.1	3435.6	2600.8	1785.7	1173.6	22.9
54°	5085.4	5065.8	4944.6	4682.8	4258.8	3717.1	2996.9	2190.0	1489.4	995.1	19.6
55°	4537.1	4471.6	4348.9	4141.0	3751.4	3245.7	2489.5	1815.2	1204.7	838.0	14.7
56°	3869.3	3866.0	3646.7	3473.2	3127.8	2591.0	1988.7	1417.4	978.8	698.9	13.1
57°	3231.0	3127.8	2916.7	2744.8	2373.3	1965.7	1476.4	1062.3	766.0	566.3	9.8
58°	2389.7	2335.7	2280.0	2027.9	1684.2	1392.9	1054.1	746.4	566.3	432.1	6.5
59°	1622.0	1620.4	1554.9	1363.4	1165.4	867.5	658.0	507.4	389.5	317.5	4.9
60°	1224.3	1194.8	1063.9	937.9	733.3	548.3	389.5	299.5	242.2	204.6	3.3
62.5°	428.8	445.2	391.2	324.1	247.2	203.0	155.5	126.0	103.1	83.5	0.0
65°	88.4	96.6	83.5	78.6	62.2	54.0	47.5	40.9	34.4	29.5	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°	11.5	9.8	9.8	9.8	8.2	8.2	8.2	8.2	6.5	6.5	1.6
70°	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3	3.3	3.3	1.6
72.5°	4.9	4.9	4.9	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
85°	1.6	1.6	1.6	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	94.9	94.9	94.9	94.9	94.9	94.9
2.5°	99.8	96.6	91.7	90.0	88.4	88.4
5°	98.2	91.7	86.7	81.8	80.2	80.2
7.5°	93.3	85.1	78.6	75.3	73.7	72.0
10°	88.4	76.9	70.4	67.1	67.1	67.1
12.5°	78.6	68.7	62.2	60.6	62.2	62.2
15°	70.4	58.9	55.6	55.6	57.3	58.9
17.5°	60.6	52.4	49.1	50.7	52.4	54.0
20°	54.0	44.2	44.2	45.8	50.7	50.7
22.5°	47.5	39.3	39.3	44.2	47.5	49.1
25°	42.6	34.4	36.0	40.9	45.8	47.5
27.5°	36.0	29.5	32.7	39.3	44.2	45.8
30°	31.1	26.2	31.1	37.6	42.6	45.8
31°	29.5	24.6	31.1	36.0	42.6	45.8
32°	26.2	24.6	29.5	36.0	42.6	44.2
33°	24.6	22.9	29.5	36.0	42.6	44.2
34°	22.9	21.3	27.8	36.0	42.6	44.2
35°	19.6	21.3	27.8	34.4	40.9	44.2
36°	18.0	19.6	27.8	34.4	40.9	44.2
37°	16.4	19.6	26.2	34.4	40.9	44.2
38°	14.7	18.0	26.2	34.4	40.9	44.2
39°	13.1	18.0	24.6	34.4	40.9	44.2
40°	11.5	16.4	24.6	32.7	40.9	44.2
41°	11.5	16.4	24.6	32.7	40.9	44.2
42°	9.8	16.4	24.6	32.7	40.9	44.2
43°	8.2	14.7	24.6	32.7	40.9	44.2
44°	6.5	14.7	22.9	32.7	40.9	44.2
45°	6.5	14.7	22.9	32.7	40.9	44.2
46°	4.9	13.1	22.9	32.7	40.9	44.2
47°	3.3	13.1	22.9	31.1	40.9	44.2
48°	3.3	13.1	22.9	31.1	40.9	44.2
49°	3.3	13.1	21.3	31.1	40.9	44.2
50°	3.3	13.1	21.3	31.1	40.9	44.2
51°	1.6	11.5	21.3	31.1	40.9	44.2
52°	1.6	11.5	21.3	31.1	40.9	45.8
53°	1.6	11.5	21.3	31.1	40.9	44.2
54°	1.6	11.5	19.6	31.1	40.9	44.2
55°	1.6	11.5	19.6	31.1	40.9	44.2
56°	1.6	9.8	19.6	29.5	40.9	44.2
57°	3.3	9.8	19.6	29.5	40.9	42.6
58°	3.3	9.8	19.6	29.5	39.3	42.6
59°	3.3	9.8	19.6	29.5	39.3	42.6
60°	3.3	9.8	18.0	29.5	39.3	42.6
62.5°	3.3	9.8	18.0	27.8	37.6	40.9
65°	3.3	9.8	16.4	26.2	37.6	39.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.3	8.2	16.4	24.6	36.0	37.6
70°	4.9	8.2	14.7	24.6	34.4	36.0
72.5°	4.9	8.2	14.7	21.3	31.1	34.4
75°	4.9	8.2	13.1	19.6	29.5	31.1
77.5°	4.9	8.2	11.5	18.0	26.2	27.8
80°	6.5	8.2	9.8	14.7	22.9	24.6
82.5°	6.5	8.2	8.2	11.5	18.0	19.6
85°	4.9	6.5	6.5	8.2	11.5	13.1
87.5°	4.9	6.5	4.9	3.3	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)