

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: P1317032

Luminaire Tested: P3SQAS09R559830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

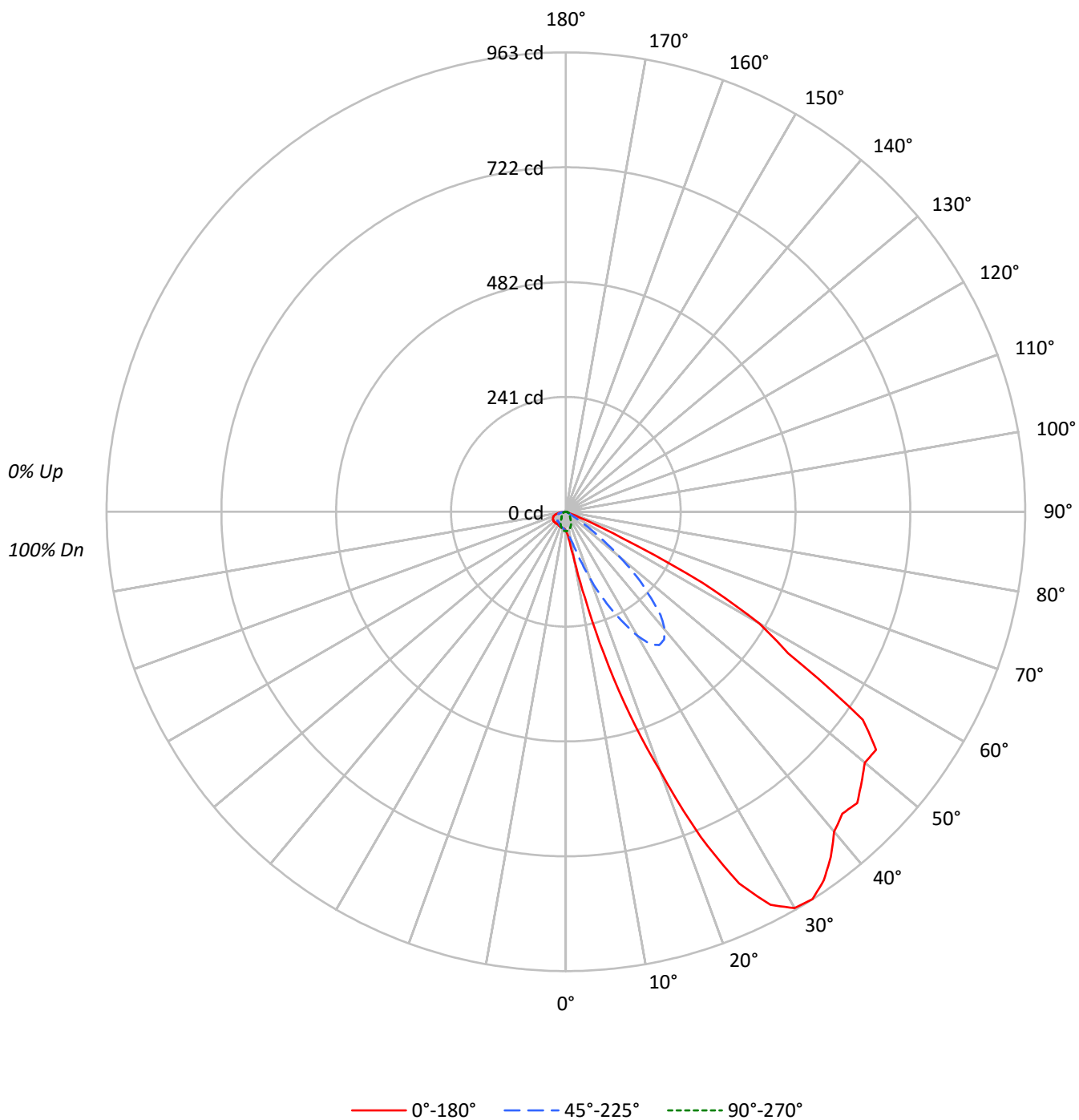
Lumens per Lamp: N/A
Luminaire Lumens: 619.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6872	6872	6872	6872	6872
5°	8800	8039	6898	6431	6241
10°	17890	10230	6698	6121	6121
15°	54898	15708	6240	5955	6151
20°	106153	27473	5608	5810	6121
25°	163385	42718	4884	5606	6138
30°	190772	59719	4017	5548	6304
35°	198240	71757	3343	5529	6560
40°	196741	72415	3080	5778	7127
45°	210338	59940	2923	6259	7721
50°	219221	39573	2920	6752	8654
55°	228258	17235	2943	7386	9518
60°	161269	3961	3031	8094	10747
65°	52610	1345	2893	8680	12022
70°	1662	1360	3021	9366	13747
75°	1464	1464	2529	9848	15305
80°	1091	1587	2678	9720	16265
85°	988	2174	3162	9683	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 231927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.7
10°-20°	26.3	4.2
20°-30°	88.1	14.2
30°-40°	144.7	23.4
40°-50°	161.4	26.1
50°-60°	135.8	21.9
60°-70°	46.1	7.4
70°-80°	9.0	1.5
80°-90°	3.4	0.5
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°	118.6	19.2
0°-40°	263.3	42.5
0°-60°	560.5	90.6
0°-90°	619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	619.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	51	46	40	37	36	6
15°	308	88	35	33	34	98
25°	860	225	26	30	32	386
35°	943	341	16	26	31	585
45°	864	246	12	26	32	660
55°	760	57	10	25	32	619
65°	129	3	7	21	30	175
75°	2	2	4	15	23	2
85°	0	1	2	5	8	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°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	43.8	43.8	43.8	43.8	43.8	43.8	43.2	41.6	40.5	38.8	38.3
5°	50.9	50.9	50.9	50.3	50.3	49.2	46.5	42.7	39.9	37.7	37.2
7.5°	65.6	65.1	64.0	63.4	61.8	61.3	51.4	43.8	39.4	36.6	36.1
10°	102.3	101.2	99.5	93.5	88.1	84.2	58.5	44.3	38.3	35.6	35.0
12.5°	184.3	182.1	173.9	161.3	146.0	138.4	70.0	44.8	36.6	34.5	34.5
15°	307.9	305.2	289.9	272.4	244.5	229.2	88.1	44.3	35.0	32.8	33.4
17.5°	444.6	437.0	421.1	398.2	360.4	342.4	114.9	43.2	32.8	31.7	32.8
20°	579.2	577.0	550.8	519.6	473.1	449.0	149.9	41.6	30.6	30.1	31.7
22.5°	736.7	727.4	699.5	666.2	602.2	570.4	187.6	39.4	28.4	28.4	30.6
25°	859.8	848.8	826.9	788.1	727.4	693.5	224.8	36.6	25.7	26.8	29.5
27.5°	928.7	916.1	899.7	866.3	819.3	789.2	262.0	33.4	23.0	25.2	28.4
30°	959.3	956.0	944.0	919.4	876.2	849.4	300.3	29.5	20.2	23.5	27.9
32.5°	962.6	964.2	959.3	943.4	910.6	887.7	328.7	26.3	18.0	22.4	26.8
35°	942.9	948.9	952.2	945.6	924.3	905.7	341.3	22.4	15.9	21.3	26.3
37.5°	912.3	923.2	934.1	935.8	922.7	910.6	338.0	19.1	14.8	20.8	26.3
40°	875.1	884.9	907.3	921.6	917.2	908.4	322.1	15.9	13.7	19.7	25.7
42.5°	858.1	860.3	884.4	908.4	907.3	900.2	294.2	12.6	12.6	19.7	25.7
45°	863.6	853.7	869.6	897.5	895.9	886.6	246.1	9.8	12.0	19.1	25.7
47.5°	840.6	826.9	853.7	886.6	880.5	866.9	203.5	7.1	11.5	18.6	25.2
50°	818.2	816.0	836.8	853.2	845.0	837.3	147.7	5.5	10.9	18.0	25.2
52.5°	819.8	816.0	818.2	817.7	801.2	793.0	101.2	4.4	10.4	17.5	25.2
55°	760.2	748.2	736.7	740.0	741.1	735.6	57.4	3.8	9.8	17.5	24.6
57.5°	552.4	549.1	561.7	597.2	625.1	628.4	27.9	3.8	9.3	17.0	24.1
60°	468.2	466.0	466.5	476.9	491.7	482.4	11.5	3.8	8.8	16.4	23.5
62.5°	322.7	344.0	352.8	376.8	367.0	353.9	4.4	4.4	8.2	15.3	23.0
65°	129.1	128.5	140.6	152.0	148.8	138.9	3.3	3.8	7.1	14.2	21.3
67.5°	30.1	27.3	23.5	20.2	17.0	13.7	3.3	3.8	6.6	13.1	20.2
70°	3.3	3.3	3.3	3.3	3.3	2.7	2.7	3.8	6.0	12.0	18.6
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	4.9	10.4	17.0
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.8	8.8	14.8
77.5°	1.6	1.6	1.6	2.2	1.6	2.2	2.2	2.7	3.3	7.1	12.6
80°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.2	2.7	6.0	9.8
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.2	4.4	7.1
85°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	3.3	4.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	2.2
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°	39.9	39.9
2.5°	37.7	37.7
5°	36.6	36.1
7.5°	35.6	35.6
10°	35.0	35.0
12.5°	34.5	35.0
15°	34.5	34.5
17.5°	33.4	33.9
20°	32.8	33.4
22.5°	32.3	32.8
25°	31.7	32.3
27.5°	31.2	31.7
30°	30.6	31.7
32.5°	30.1	31.2
35°	30.1	31.2
37.5°	30.1	31.7
40°	30.1	31.7
42.5°	30.1	31.7
45°	30.1	31.7
47.5°	30.1	31.7
50°	30.1	32.3
52.5°	30.1	32.3
55°	30.1	31.7
57.5°	29.5	31.7
60°	29.5	31.2
62.5°	29.0	30.6
65°	27.9	29.5
67.5°	26.8	29.0
70°	25.2	27.3
72.5°	23.5	25.2
75°	21.3	23.0
77.5°	18.6	19.7
80°	14.8	16.4
82.5°	11.5	12.6
85°	7.7	8.2
87.5°	3.3	3.8
90°	0.0	0.0

(END OF REPORT)