

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: P1311152

Luminaire Tested: P3SQAS09R309050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311152
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: P3SQAS09R309050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

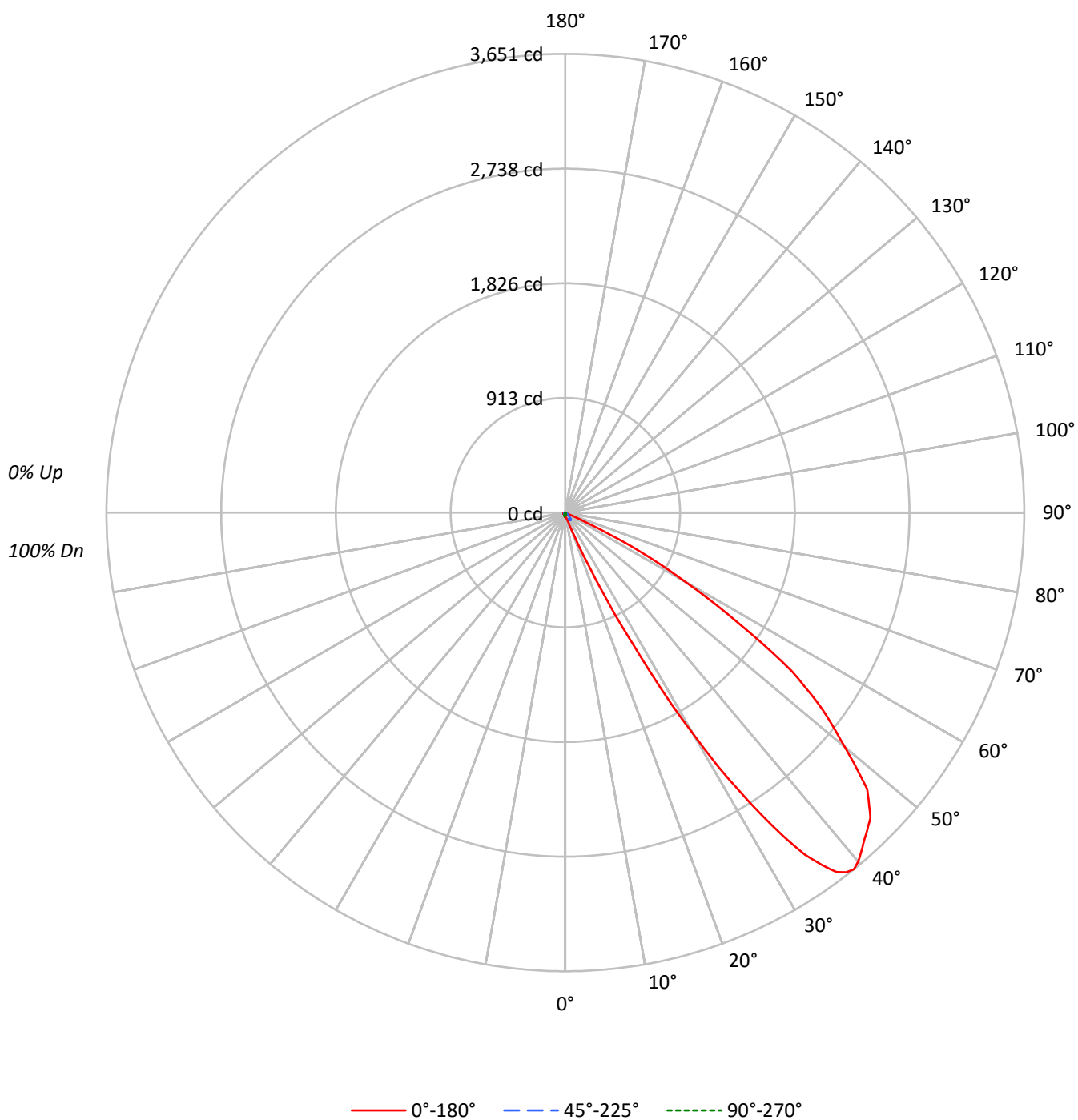
Lumens per Lamp: N/A
Luminaire Lumens: 949.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	26	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6338	6338	6338	6338	6338
5°	6777	6639	6224	5670	5532
10°	7415	6575	5456	4897	4757
15°	10841	6561	4564	4137	4279
20°	27253	7184	3519	3519	3959
25°	126539	8969	2736	3192	3649
30°	402842	12409	2068	3023	3659
35°	699002	15117	1682	2859	3700
40°	815222	15085	1259	2878	3777
45°	836043	10717	1364	3118	4092
50°	777482	6002	1072	3215	4716
55°	660784	3123	1201	3603	5285
60°	381645	827	1378	3858	5787
65°	77876	0	1630	4564	6520
70°	1209	403	2014	5237	7654
75°	1065	532	2129	5323	9050
80°	793	793	3174	6347	10315
85°	0	1581	6323	6323	12647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 836043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.4
10°-20°	9.6	1.0
20°-30°	54.7	5.8
30°-40°	255.6	26.9
40°-50°	361.5	38.1
50°-60°	222.4	23.4
60°-70°	33.9	3.6
70°-80°	5.4	0.6
80°-90°	2.7	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°	67.6	7.1
0°-40°	323.2	34.1
0°-60°	907.1	95.6
0°-90°	949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	949.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	39	38	36	33	32	4
15°	61	37	26	23	24	22
25°	666	47	14	17	19	410
35°	3325	72	8	14	18	1995
45°	3433	44	6	13	17	2602
55°	2201	10	4	12	18	1873
65°	191	0	4	11	16	346
75°	2	1	3	8	14	2
85°	0	1	3	3	6	0
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°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
2.5°	37.6	37.6	38.4	38.4	37.6	38.4	38.4	38.4	36.8	36.0	34.4
5°	39.2	39.2	39.2	40.0	39.2	39.2	38.4	37.6	36.0	33.6	32.8
7.5°	40.8	40.8	40.0	40.8	40.0	40.0	38.4	36.8	34.4	32.0	30.4
10°	42.4	42.4	41.6	41.6	40.8	40.8	37.6	35.2	31.2	28.8	28.0
12.5°	47.2	47.2	46.4	45.6	44.0	43.2	36.8	32.8	28.0	25.6	24.8
15°	60.8	60.0	58.4	56.0	52.0	51.2	36.8	30.4	25.6	23.2	23.2
17.5°	83.1	82.3	79.9	73.5	66.3	64.0	36.8	27.2	22.4	20.8	20.8
20°	148.7	142.3	130.3	114.3	97.5	88.7	39.2	24.0	19.2	18.4	19.2
21°	194.3	187.9	172.7	146.3	116.7	107.1	40.8	23.2	18.4	17.6	19.2
22°	264.6	257.4	226.2	190.3	147.9	131.1	41.6	21.6	16.8	16.8	18.4
23°	369.3	357.3	304.6	247.0	184.7	160.7	43.2	20.8	16.0	16.8	17.6
24°	483.6	473.2	413.3	327.0	235.8	201.4	44.8	20.0	15.2	15.2	16.8
25°	665.9	653.9	547.6	412.5	299.0	242.2	47.2	18.4	14.4	14.4	16.8
26°	901.7	846.6	705.1	531.6	368.5	303.8	49.6	17.6	13.6	14.4	16.0
27°	1125.6	1080.0	920.9	681.9	455.7	373.3	52.8	16.8	12.8	13.6	16.0
28°	1419.7	1355.8	1155.1	862.5	574.0	451.7	56.0	16.0	12.0	13.6	15.2
29°	1749.1	1659.5	1417.3	1065.6	707.5	539.6	59.2	15.2	11.2	12.8	15.2
30°	2025.7	1941.7	1699.5	1306.2	861.0	655.5	62.4	14.4	10.4	12.8	15.2
31°	2350.2	2223.1	1929.7	1510.1	992.9	771.4	65.6	12.8	9.6	12.0	14.4
32°	2613.2	2524.5	2212.7	1740.3	1166.3	899.3	67.9	12.0	9.6	12.0	14.4
33°	2867.4	2748.3	2447.0	1960.9	1323.0	1030.4	70.3	11.2	8.8	11.2	14.4
34°	3110.5	3000.9	2668.4	2139.2	1470.9	1155.1	71.9	9.6	8.8	11.2	13.6
35°	3324.7	3197.6	2863.4	2313.5	1622.8	1268.6	71.9	8.8	8.0	10.4	13.6
36°	3463.8	3372.7	3032.9	2485.3	1760.3	1376.6	71.9	8.0	7.2	10.4	12.8
37°	3582.9	3476.6	3168.8	2617.2	1861.8	1462.9	71.9	7.2	7.2	10.4	12.8
38°	3631.7	3540.5	3262.3	2733.9	1956.9	1550.8	71.1	6.4	6.4	9.6	12.8
39°	3650.8	3569.3	3332.7	2817.9	2027.3	1610.0	69.5	5.6	6.4	9.6	12.8
40°	3626.1	3564.5	3368.7	2872.2	2083.2	1653.2	67.1	4.8	5.6	9.6	12.8
42.5°	3523.7	3483.0	3360.7	2926.6	2131.2	1685.1	58.4	3.2	5.6	8.8	12.8
45°	3432.6	3387.8	3279.9	2869.8	2068.8	1622.0	44.0	1.6	5.6	8.8	12.8
47.5°	3255.9	3228.0	3143.2	2725.1	1932.1	1479.7	31.2	0.8	4.8	8.0	12.0
50°	2901.8	2875.4	2763.5	2366.2	1661.9	1251.1	22.4	0.8	4.0	8.0	12.0
52.5°	2584.5	2556.5	2395.8	1967.3	1276.6	916.9	14.4	0.8	4.0	8.0	12.0
55°	2200.7	2152.0	1940.9	1493.3	904.9	614.7	10.4	0.8	4.0	7.2	12.0
57.5°	1629.2	1558.0	1369.4	1018.4	521.2	333.3	5.6	0.8	4.0	7.2	12.0
60°	1108.0	1065.6	857.0	537.2	222.2	140.7	2.4	0.8	4.0	7.2	11.2
62.5°	671.5	617.9	430.9	228.6	95.9	64.0	0.0	1.6	4.0	7.2	11.2
65°	191.1	169.5	112.7	52.0	27.2	20.8	0.0	1.6	4.0	7.2	11.2
67.5°	6.4	6.4	6.4	5.6	4.0	4.0	0.8	1.6	4.0	7.2	10.4
70°	2.4	2.4	2.4	1.6	1.6	0.8	0.8	1.6	4.0	6.4	10.4
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	1.6	3.2	5.6	9.6
75°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.2	5.6	8.0
77.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.2	4.8	8.0
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.2	4.8	6.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.4	3.2	3.2	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	2.4	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	2.4	2.4	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):

	157.5°	180°
0°	36.8	36.8
2.5°	34.4	34.4
5°	32.0	32.0
7.5°	29.6	29.6
10°	27.2	27.2
12.5°	25.6	25.6
15°	23.2	24.0
17.5°	21.6	22.4
20°	20.8	21.6
21°	20.8	21.6
22°	20.0	20.8
23°	20.0	20.8
24°	19.2	20.0
25°	18.4	19.2
26°	18.4	19.2
27°	18.4	19.2
28°	17.6	19.2
29°	17.6	18.4
30°	17.6	18.4
31°	16.8	18.4
32°	16.8	18.4
33°	16.8	17.6
34°	16.0	17.6
35°	16.0	17.6
36°	16.0	17.6
37°	16.0	16.8
38°	16.0	17.6
39°	16.0	16.8
40°	16.0	16.8
42.5°	16.0	16.8
45°	16.0	16.8
47.5°	16.0	17.6
50°	16.0	17.6
52.5°	16.0	17.6
55°	16.0	17.6
57.5°	16.0	16.8
60°	16.0	16.8
62.5°	15.2	16.8
65°	15.2	16.0
67.5°	15.2	16.0
70°	14.4	15.2
72.5°	13.6	14.4
75°	12.0	13.6
77.5°	11.2	12.0
80°	9.6	10.4



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	8.0	8.0
85°	5.6	6.4
87.5°	3.2	3.2
90°	0.0	0.0

(END OF REPORT)