

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: P1306721

Luminaire Tested: P3SQAS09R309027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306721
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: P3SQAS09R309027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

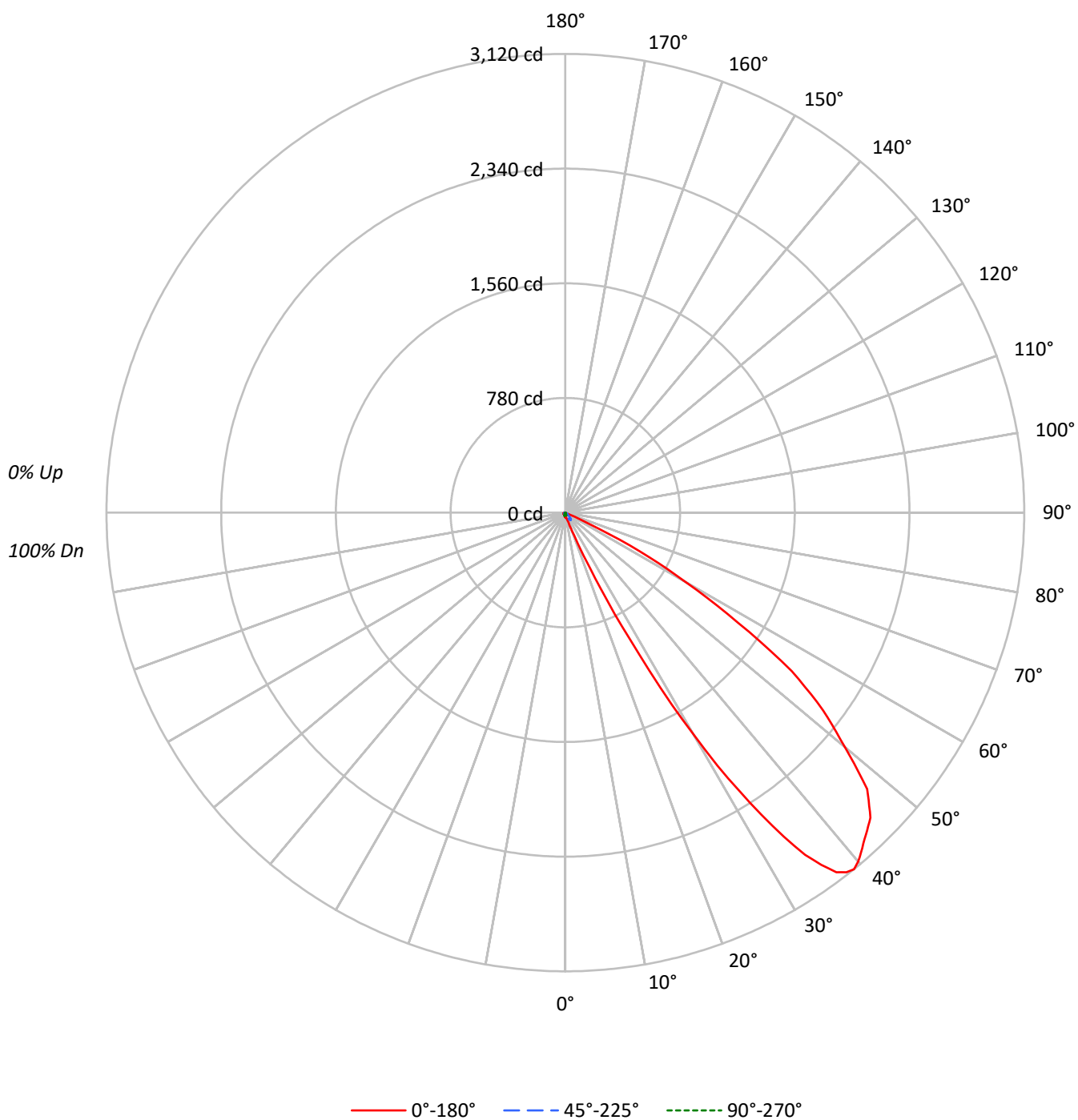
Lumens per Lamp: N/A
Luminaire Lumens: 811.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5408	5408	5408	5408	5408
5°	5791	5670	5307	4841	4720
10°	6331	5614	4652	4180	4057
15°	9254	5599	3905	3530	3655
20°	23294	6140	3006	3006	3372
25°	108144	7658	2337	2717	3116
30°	344256	10600	1770	2585	3122
35°	597348	12930	1430	2439	3154
40°	696674	12905	1079	2451	3215
45°	714482	9158	1169	2655	3483
50°	664415	5117	911	2733	4019
55°	564701	2672	1021	3063	4504
60°	326121	689	1171	3307	4926
65°	66547	0	1386	3912	5583
70°	1007	352	1712	4482	6546
75°	932	466	1797	4525	7719
80°	694	694	2678	5455	8827
85°	0	1383	5335	5335	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 714482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	8.2	1.0
20°-30°	46.8	5.8
30°-40°	218.4	26.9
40°-50°	308.9	38.1
50°-60°	190.0	23.4
60°-70°	28.9	3.6
70°-80°	4.6	0.6
80°-90°	2.3	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°	57.8	7.1
0°-40°	276.2	34.1
0°-60°	775.2	95.6
0°-90°	811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	34	33	31	28	27	3
15°	52	31	22	20	20	18
25°	569	40	12	14	16	350
35°	2841	62	7	12	15	1705
45°	2934	38	5	11	14	2224
55°	1881	9	3	10	15	1600
65°	163	0	3	10	14	295
75°	1	1	3	7	12	1
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°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	32.1	32.1	32.8	32.8	32.1	32.8	32.8	32.8	31.4	30.7	29.4
5°	33.5	33.5	33.5	34.2	33.5	33.5	32.8	32.1	30.7	28.7	28.0
7.5°	34.8	34.8	34.2	34.8	34.2	34.2	32.8	31.4	29.4	27.3	26.0
10°	36.2	36.2	35.5	35.5	34.8	34.8	32.1	30.1	26.6	24.6	23.9
12.5°	40.3	40.3	39.6	38.9	37.6	36.9	31.4	28.0	23.9	21.9	21.2
15°	51.9	51.2	49.9	47.8	44.4	43.7	31.4	26.0	21.9	19.8	19.8
17.5°	71.0	70.4	68.3	62.9	56.7	54.7	31.4	23.2	19.1	17.8	17.8
20°	127.1	121.6	111.4	97.7	83.3	75.8	33.5	20.5	16.4	15.7	16.4
21°	166.0	160.5	147.6	125.0	99.7	91.5	34.8	19.8	15.7	15.0	16.4
22°	226.1	220.0	193.3	162.6	126.4	112.0	35.5	18.4	14.3	14.3	15.7
23°	315.6	305.4	260.3	211.1	157.8	137.3	36.9	17.8	13.7	14.3	15.0
24°	413.3	404.4	353.2	279.4	201.5	172.2	38.3	17.1	13.0	13.0	14.3
25°	569.1	558.8	468.0	352.5	255.5	207.0	40.3	15.7	12.3	12.3	14.3
26°	770.6	723.5	602.5	454.3	314.9	259.6	42.4	15.0	11.6	12.3	13.7
27°	961.9	922.9	787.0	582.7	389.4	319.0	45.1	14.3	10.9	11.6	13.7
28°	1213.3	1158.6	987.2	737.1	490.5	386.0	47.8	13.7	10.2	11.6	13.0
29°	1494.7	1418.2	1211.2	910.6	604.6	461.1	50.6	13.0	9.6	10.9	13.0
30°	1731.1	1659.4	1452.4	1116.3	735.8	560.2	53.3	12.3	8.9	10.9	13.0
31°	2008.5	1899.8	1649.1	1290.5	848.5	659.2	56.0	10.9	8.2	10.2	12.3
32°	2233.2	2157.4	1891.0	1487.2	996.7	768.5	58.1	10.2	8.2	10.2	12.3
33°	2450.5	2348.7	2091.1	1675.8	1130.6	880.6	60.1	9.6	7.5	9.6	12.3
34°	2658.1	2564.6	2280.4	1828.1	1257.0	987.2	61.5	8.2	7.5	9.6	11.6
35°	2841.2	2732.6	2447.1	1977.0	1386.8	1084.2	61.5	7.5	6.8	8.9	11.6
36°	2960.1	2882.2	2591.9	2123.9	1504.3	1176.4	61.5	6.8	6.1	8.9	10.9
37°	3061.9	2971.0	2708.0	2236.6	1591.1	1250.2	61.5	6.1	6.1	8.9	10.9
38°	3103.6	3025.7	2787.9	2336.4	1672.4	1325.3	60.8	5.5	5.5	8.2	10.9
39°	3120.0	3050.3	2848.1	2408.1	1732.5	1375.9	59.4	4.8	5.5	8.2	10.9
40°	3098.8	3046.2	2878.8	2454.6	1780.3	1412.8	57.4	4.1	4.8	8.2	10.9
42.5°	3011.3	2976.5	2872.0	2501.0	1821.3	1440.1	49.9	2.7	4.8	7.5	10.9
45°	2933.5	2895.2	2803.0	2452.5	1768.0	1386.1	37.6	1.4	4.8	7.5	10.9
47.5°	2782.5	2758.6	2686.2	2328.9	1651.2	1264.5	26.6	0.7	4.1	6.8	10.2
50°	2479.8	2457.3	2361.7	2022.1	1420.3	1069.1	19.1	0.7	3.4	6.8	10.2
52.5°	2208.6	2184.7	2047.4	1681.2	1091.0	783.6	12.3	0.7	3.4	6.8	10.2
55°	1880.7	1839.0	1658.7	1276.1	773.3	525.3	8.9	0.7	3.4	6.1	10.2
57.5°	1392.3	1331.5	1170.2	870.3	445.4	284.9	4.8	0.7	3.4	6.1	10.2
60°	946.8	910.6	732.3	459.1	189.9	120.2	2.0	0.7	3.4	6.1	9.6
62.5°	573.8	528.1	368.2	195.4	82.0	54.7	0.0	1.4	3.4	6.1	9.6
65°	163.3	144.8	96.3	44.4	23.2	17.8	0.0	1.4	3.4	6.1	9.6
67.5°	5.5	5.5	5.5	4.8	3.4	3.4	0.7	1.4	3.4	6.1	8.9
70°	2.0	2.0	2.0	1.4	1.4	0.7	0.7	1.4	3.4	5.5	8.9
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	1.4	2.7	4.8	8.2
75°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.0	2.7	4.8	6.8
77.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.0	2.7	4.1	6.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.1	5.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	2.0	2.7	2.7	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.0	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.0	2.0	1.4
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°	31.4	31.4
2.5°	29.4	29.4
5°	27.3	27.3
7.5°	25.3	25.3
10°	23.2	23.2
12.5°	21.9	21.9
15°	19.8	20.5
17.5°	18.4	19.1
20°	17.8	18.4
21°	17.8	18.4
22°	17.1	17.8
23°	17.1	17.8
24°	16.4	17.1
25°	15.7	16.4
26°	15.7	16.4
27°	15.7	16.4
28°	15.0	16.4
29°	15.0	15.7
30°	15.0	15.7
31°	14.3	15.7
32°	14.3	15.7
33°	14.3	15.0
34°	13.7	15.0
35°	13.7	15.0
36°	13.7	15.0
37°	13.7	14.3
38°	13.7	15.0
39°	13.7	14.3
40°	13.7	14.3
42.5°	13.7	14.3
45°	13.7	14.3
47.5°	13.7	15.0
50°	13.7	15.0
52.5°	13.7	15.0
55°	13.7	15.0
57.5°	13.7	14.3
60°	13.7	14.3
62.5°	13.0	14.3
65°	13.0	13.7
67.5°	13.0	13.7
70°	12.3	13.0
72.5°	11.6	12.3
75°	10.2	11.6
77.5°	9.6	10.2
80°	8.2	8.9

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	6.8	6.8
85°	4.8	5.5
87.5°	2.7	2.7
90°	0.0	0.0

(END OF REPORT)