

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: P1306074

Luminaire Tested: P3SQASS17R309024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306074
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: P3SQASS17R309024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

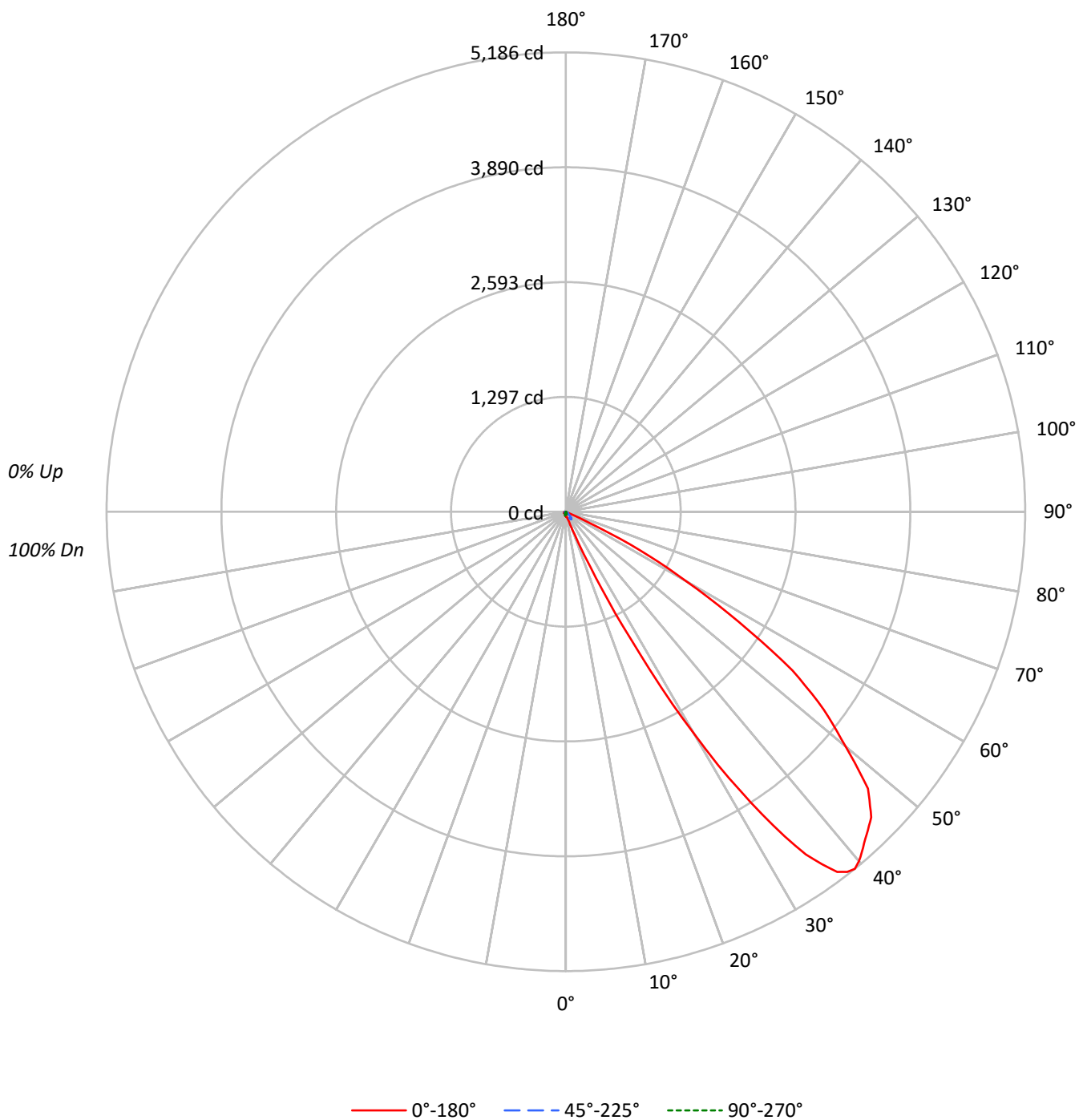
Lumens per Lamp: N/A
Luminaire Lumens: 1348.0 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
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	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8990	8990	8990	8990	8990
5°	9612	9422	8834	8056	7849
10°	10528	9339	7747	6943	6750
15°	15387	9307	6472	5866	6080
20°	38708	10190	5003	5003	5627
25°	179746	12732	3877	4523	5188
30°	572216	17619	2943	4295	5190
35°	992882	21487	2397	4058	5256
40°	1157961	21448	1776	4092	5351
45°	1187548	15222	1924	4433	5797
50°	1104384	8520	1527	4555	6698
55°	938616	4444	1711	5104	7507
60°	542088	1171	1963	5477	8198
65°	110599	0	2323	6479	9251
70°	1712	554	2870	7452	10877
75°	1530	732	2994	7586	12843
80°	1091	1091	4463	9025	14679
85°	0	2174	8892	8892	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1187548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.4
10°-20°	13.6	1.0
20°-30°	77.7	5.8
30°-40°	363.1	26.9
40°-50°	513.4	38.1
50°-60°	315.9	23.4
60°-70°	48.1	3.6
70°-80°	7.6	0.6
80°-90°	3.8	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°	96.0	7.1
0°-40°	459.1	34.1
0°-60°	1288.5	95.6
0°-90°	1348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1348.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	56	54	51	47	45	5
15°	86	52	36	33	34	31
25°	946	67	20	24	27	582
35°	4722	102	11	19	25	2834
45°	4876	62	8	18	24	3696
55°	3126	15	6	17	25	2660
65°	271	0	6	16	23	491
75°	2	1	4	11	19	2
85°	0	1	4	4	9	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°	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
2.5°	53.4	53.4	54.5	54.5	53.4	54.5	54.5	54.5	52.2	51.1	48.8
5°	55.6	55.6	55.6	56.8	55.6	55.6	54.5	53.4	51.1	47.7	46.6
7.5°	57.9	57.9	56.8	57.9	56.8	56.8	54.5	52.2	48.8	45.4	43.1
10°	60.2	60.2	59.0	59.0	57.9	57.9	53.4	50.0	44.3	40.9	39.7
12.5°	67.0	67.0	65.9	64.7	62.5	61.3	52.2	46.6	39.7	36.3	35.2
15°	86.3	85.2	82.9	79.5	73.8	72.7	52.2	43.1	36.3	32.9	32.9
17.5°	118.1	117.0	113.5	104.5	94.2	90.8	52.2	38.6	31.8	29.5	29.5
20°	211.2	202.1	185.1	162.4	138.5	126.0	55.6	34.1	27.3	26.1	27.3
21°	275.9	266.8	245.3	207.8	165.8	152.2	57.9	32.9	26.1	25.0	27.3
22°	375.8	365.6	321.3	270.2	210.1	186.2	59.0	30.7	23.8	23.8	26.1
23°	524.6	507.6	432.6	350.9	262.3	228.2	61.3	29.5	22.7	23.8	25.0
24°	687.0	672.2	587.1	464.4	335.0	286.1	63.6	28.4	21.6	21.6	23.8
25°	945.9	928.8	777.8	585.9	424.7	344.1	67.0	26.1	20.4	20.4	23.8
26°	1280.8	1202.5	1001.5	755.1	523.5	431.5	70.4	25.0	19.3	20.4	22.7
27°	1598.8	1534.1	1308.1	968.6	647.2	530.3	74.9	23.8	18.2	19.3	22.7
28°	2016.6	1925.8	1640.8	1225.2	815.3	641.6	79.5	22.7	17.0	19.3	21.6
29°	2484.5	2357.3	2013.2	1513.6	1004.9	766.5	84.0	21.6	15.9	18.2	21.6
30°	2877.4	2758.1	2414.1	1855.4	1222.9	931.1	88.6	20.4	14.8	18.2	21.6
31°	3338.4	3157.8	2741.1	2145.0	1410.3	1095.8	93.1	18.2	13.6	17.0	20.4
32°	3711.9	3585.9	3143.1	2472.0	1656.7	1277.4	96.5	17.0	13.6	17.0	20.4
33°	4073.0	3903.8	3475.8	2785.4	1879.2	1463.7	99.9	15.9	12.5	15.9	20.4
34°	4418.2	4262.7	3790.3	3038.6	2089.3	1640.8	102.2	13.6	12.5	15.9	19.3
35°	4722.5	4542.0	4067.4	3286.1	2305.1	1802.0	102.2	12.5	11.4	14.8	19.3
36°	4920.1	4790.7	4308.1	3530.3	2500.4	1955.3	102.2	11.4	10.2	14.8	18.2
37°	5089.3	4938.3	4501.1	3717.6	2644.6	2078.0	102.2	10.2	10.2	14.8	18.2
38°	5158.6	5029.1	4634.0	3883.4	2779.7	2202.9	101.1	9.1	9.1	13.6	18.2
39°	5185.8	5070.0	4733.9	4002.6	2879.6	2286.9	98.8	7.9	9.1	13.6	18.2
40°	5150.6	5063.2	4785.0	4079.8	2959.1	2348.2	95.4	6.8	7.9	13.6	18.2
42.5°	5005.3	4947.4	4773.6	4157.1	3027.2	2393.6	82.9	4.5	7.9	12.5	18.2
45°	4875.8	4812.2	4658.9	4076.4	2938.7	2303.9	62.5	2.3	7.9	12.5	18.2
47.5°	4624.9	4585.1	4464.8	3870.9	2744.5	2101.8	44.3	1.1	6.8	11.4	17.0
50°	4121.9	4084.4	3925.4	3361.1	2360.7	1777.1	31.8	1.1	5.7	11.4	17.0
52.5°	3671.1	3631.3	3403.1	2794.5	1813.4	1302.4	20.4	1.1	5.7	11.4	17.0
55°	3126.0	3056.8	2757.0	2121.1	1285.4	873.2	14.8	1.1	5.7	10.2	17.0
57.5°	2314.1	2213.1	1945.1	1446.6	740.3	473.5	7.9	1.1	5.7	10.2	17.0
60°	1573.8	1513.6	1217.3	763.1	315.7	199.8	3.4	1.1	5.7	10.2	15.9
62.5°	953.8	877.7	612.0	324.8	136.3	90.8	0.0	2.3	5.7	10.2	15.9
65°	271.4	240.7	160.1	73.8	38.6	29.5	0.0	2.3	5.7	10.2	15.9
67.5°	9.1	9.1	9.1	7.9	5.7	5.7	1.1	2.3	5.7	10.2	14.8
70°	3.4	3.4	3.4	2.3	2.3	1.1	1.1	2.3	5.7	9.1	14.8
72.5°	2.3	2.3	2.3	2.3	1.1	1.1	1.1	2.3	4.5	7.9	13.6
75°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	3.4	4.5	7.9	11.4
77.5°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	3.4	4.5	6.8	11.4
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.4	4.5	6.8	9.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	3.4	4.5	4.5	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	4.5	3.4	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.4	3.4	2.3
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°	52.2	52.2
2.5°	48.8	48.8
5°	45.4	45.4
7.5°	42.0	42.0
10°	38.6	38.6
12.5°	36.3	36.3
15°	32.9	34.1
17.5°	30.7	31.8
20°	29.5	30.7
21°	29.5	30.7
22°	28.4	29.5
23°	28.4	29.5
24°	27.3	28.4
25°	26.1	27.3
26°	26.1	27.3
27°	26.1	27.3
28°	25.0	27.3
29°	25.0	26.1
30°	25.0	26.1
31°	23.8	26.1
32°	23.8	26.1
33°	23.8	25.0
34°	22.7	25.0
35°	22.7	25.0
36°	22.7	25.0
37°	22.7	23.8
38°	22.7	25.0
39°	22.7	23.8
40°	22.7	23.8
42.5°	22.7	23.8
45°	22.7	23.8
47.5°	22.7	25.0
50°	22.7	25.0
52.5°	22.7	25.0
55°	22.7	25.0
57.5°	22.7	23.8
60°	22.7	23.8
62.5°	21.6	23.8
65°	21.6	22.7
67.5°	21.6	22.7
70°	20.4	21.6
72.5°	19.3	20.4
75°	17.0	19.3
77.5°	15.9	17.0
80°	13.6	14.8

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	11.4	11.4
85°	7.9	9.1
87.5°	4.5	4.5
90°	0.0	0.0

(END OF REPORT)