

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: P1313205

Luminaire Tested: P3SQAS09R209730DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R209730DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

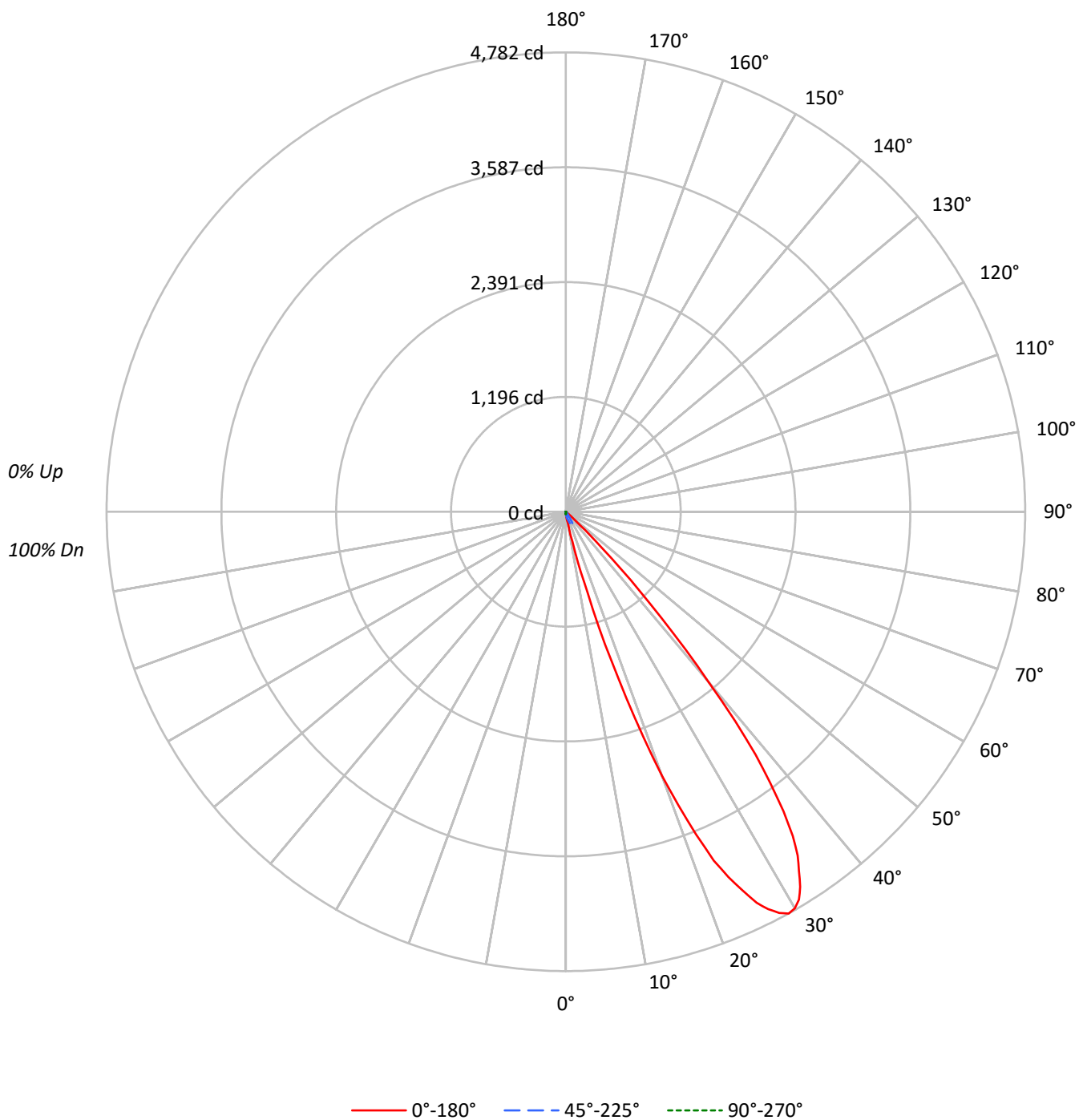
Lumens per Lamp: N/A
Luminaire Lumens: 660.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4064	4064	4064	4064	4064
5°	8851	6241	3752	1694	1245
10°	22035	11017	2641	350	0
15°	155066	15102	1516	0	0
20°	535934	25384	605	0	0
25°	826103	32438	247	0	0
30°	948191	25057	0	0	0
35°	865978	9524	0	0	0
40°	519156	4429	0	0	0
45°	127577	2070	0	0	0
50°	14066	536	0	0	0
55°	1982	0	210	0	0
60°	0	0	448	0	0
65°	0	0	530	0	0
70°	0	352	1007	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 136052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.4
10°-20°	51.5	7.8
20°-30°	260.7	39.5
30°-40°	282.1	42.7
40°-50°	59.6	9.0
50°-60°	1.8	0.3
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.6	0.1
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°	315.0	47.7
0°-40°	597.0	90.5
0°-60°	658.4	99.8
0°-90°	660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	51	36	22	10	7	7
15°	870	85	8	0	0	363
25°	4347	171	1	0	0	1965
35°	4119	45	0	0	0	2429
45°	524	8	0	0	0	576
55°	7	0	1	0	0	12
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	32.2	31.5	32.2	31.5	32.2	32.2	32.2	31.5	31.5	31.5	31.5
5°	51.2	51.2	50.5	51.2	51.2	51.2	51.2	50.5	50.5	49.9	49.9
7.5°	80.7	80.7	80.1	80.1	80.7	81.4	78.8	80.1	80.1	80.1	79.4
10°	126.0	128.7	126.0	129.3	126.7	124.7	128.0	124.7	124.7	124.1	122.1
12.5°	317.7	310.5	305.9	294.7	305.9	297.3	299.3	297.3	290.8	282.2	277.0
15°	869.7	869.7	844.1	878.3	853.3	862.5	815.2	815.9	791.6	765.4	750.9
17.5°	1818.2	1834.6	1817.6	1807.1	1784.7	1752.6	1739.4	1706.0	1662.0	1610.8	1604.9
20°	2924.2	2855.3	2887.5	2857.9	2839.6	2800.2	2756.2	2728.6	2689.9	2624.9	2529.1
21°	3272.1	3269.5	3268.8	3268.2	3241.3	3176.9	3136.9	3081.8	3027.3	2960.3	2880.3
22°	3622.6	3635.1	3640.4	3602.3	3547.1	3518.3	3490.7	3415.2	3329.2	3294.4	3199.3
23°	3944.3	3932.5	3898.3	3880.6	3837.9	3829.4	3747.3	3699.4	3615.4	3577.3	3464.4
24°	4163.5	4157.6	4141.8	4115.6	4081.5	4028.9	3979.7	3904.2	3835.3	3772.9	3667.9
25°	4347.3	4352.5	4323.7	4305.9	4269.2	4210.1	4149.7	4067.0	4002.7	3929.8	3808.4
26°	4529.1	4492.4	4469.4	4443.1	4403.1	4335.5	4277.1	4202.9	4124.8	4043.4	3924.6
27°	4641.4	4608.5	4573.7	4548.1	4502.2	4437.9	4375.5	4293.5	4206.2	4124.1	4002.0
28°	4730.0	4693.9	4659.7	4628.9	4576.4	4507.5	4432.6	4349.3	4258.7	4174.0	4049.3
29°	4782.5	4739.8	4703.1	4668.3	4620.4	4545.5	4470.0	4380.8	4293.5	4204.9	4077.5
30°	4768.0	4731.3	4695.8	4660.4	4611.8	4541.6	4466.8	4381.4	4293.5	4206.2	4076.9
31°	4711.6	4666.3	4640.7	4605.3	4563.2	4491.7	4427.4	4334.2	4254.7	4160.2	4030.9
32°	4603.3	4574.4	4540.3	4512.7	4472.0	4395.9	4332.9	4256.7	4162.8	4085.4	3949.5
33°	4456.3	4429.3	4412.3	4380.1	4340.7	4288.2	4212.7	4143.2	4037.5	3958.1	3822.2
34°	4315.8	4281.7	4239.0	4229.8	4195.7	4128.1	4059.8	3988.9	3894.4	3793.3	3656.1
35°	4118.9	4083.4	4044.0	4047.3	4006.6	3927.9	3858.3	3778.9	3688.9	3570.1	3440.2
36°	3855.7	3832.0	3826.1	3810.4	3763.8	3669.9	3603.6	3503.8	3428.3	3283.3	3171.7
37°	3534.7	3543.2	3500.5	3480.2	3425.7	3360.1	3322.7	3194.7	3106.7	2997.7	2846.8
38°	3210.4	3197.9	3147.4	3159.9	3085.0	3016.8	2911.1	2835.0	2736.5	2635.4	2514.6
39°	2805.4	2774.6	2714.2	2716.8	2660.4	2583.6	2481.2	2391.2	2332.2	2235.0	2119.5
40°	2309.2	2296.1	2275.1	2240.3	2166.1	2132.6	2041.4	1944.2	1894.4	1759.8	1703.3
42.5°	1281.3	1263.6	1228.1	1215.6	1176.3	1136.9	1083.7	1018.7	987.2	947.2	857.9
45°	523.8	558.6	550.1	540.2	510.0	512.0	473.9	478.5	443.7	420.1	403.7
47.5°	115.5	125.4	126.0	121.4	126.0	122.1	120.1	116.8	117.5	119.5	114.9
50°	52.5	51.9	53.2	52.5	51.9	51.2	50.5	48.6	49.9	48.6	47.3
52.5°	20.3	21.0	21.0	19.7	20.3	20.3	20.3	19.7	19.7	19.7	19.7
55°	6.6	6.6	6.6	5.9	5.9	6.6	6.6	6.6	6.6	6.6	5.9
57.5°	0.7	1.3	0.7	1.3	0.7	0.7	0.7	0.7	0.7	1.3	1.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	30.2	27.6	25.6	23.6	19.7	16.4	15.1	15.1
5°	46.6	36.1	26.9	21.7	15.1	9.8	7.9	7.2
7.5°	70.2	48.6	28.2	18.4	9.8	5.3	3.3	2.6
10°	101.7	63.0	29.5	15.1	5.9	2.0	0.0	0.0
12.5°	177.9	75.5	29.5	11.8	2.6	0.0	0.0	0.0
15°	407.6	84.7	28.2	8.5	0.7	0.0	0.0	0.0
17.5°	846.7	106.3	24.9	5.9	0.0	0.0	0.0	0.0
20°	1352.2	138.5	19.7	3.3	0.0	0.0	0.0	0.0
21°	1560.2	149.7	17.7	2.6	0.0	0.0	0.0	0.0
22°	1709.9	160.2	15.8	2.0	0.0	0.0	0.0	0.0
23°	1874.7	166.7	13.8	1.3	0.0	0.0	0.0	0.0
24°	1996.1	170.7	11.8	1.3	0.0	0.0	0.0	0.0
25°	2071.6	170.7	10.5	1.3	0.0	0.0	0.0	0.0
26°	2116.2	166.7	9.2	0.7	0.0	0.0	0.0	0.0
27°	2126.7	160.2	7.9	0.7	0.0	0.0	0.0	0.0
28°	2113.6	151.6	6.6	0.0	0.0	0.0	0.0	0.0
29°	2072.2	139.2	5.9	0.0	0.0	0.0	0.0	0.0
30°	2027.6	126.0	4.6	0.0	0.0	0.0	0.0	0.0
31°	1951.5	108.3	3.9	0.0	0.0	0.0	0.0	0.0
32°	1863.5	89.9	3.3	0.0	0.0	0.0	0.0	0.0
33°	1746.0	70.9	2.6	0.0	0.0	0.0	0.0	0.0
34°	1572.7	55.8	2.6	0.0	0.0	0.0	0.0	0.0
35°	1417.2	45.3	2.0	0.0	0.0	0.0	0.0	0.0
36°	1213.7	36.1	2.0	0.0	0.0	0.0	0.0	0.0
37°	1039.7	30.2	2.0	0.0	0.0	0.0	0.0	0.0
38°	870.4	25.6	1.3	0.0	0.0	0.0	0.0	0.0
39°	706.3	22.3	1.3	0.0	0.0	0.0	0.0	0.0
40°	563.2	19.7	1.3	0.0	0.0	0.0	0.0	0.0
42.5°	303.9	13.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	168.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	74.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	24.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	1.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.3	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.3	1.3	0.7	0.0	0.0	0.0
67.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)