

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: P1305713

Luminaire Tested: P3SQAS09R209024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305713
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: P3SQAS09R209024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

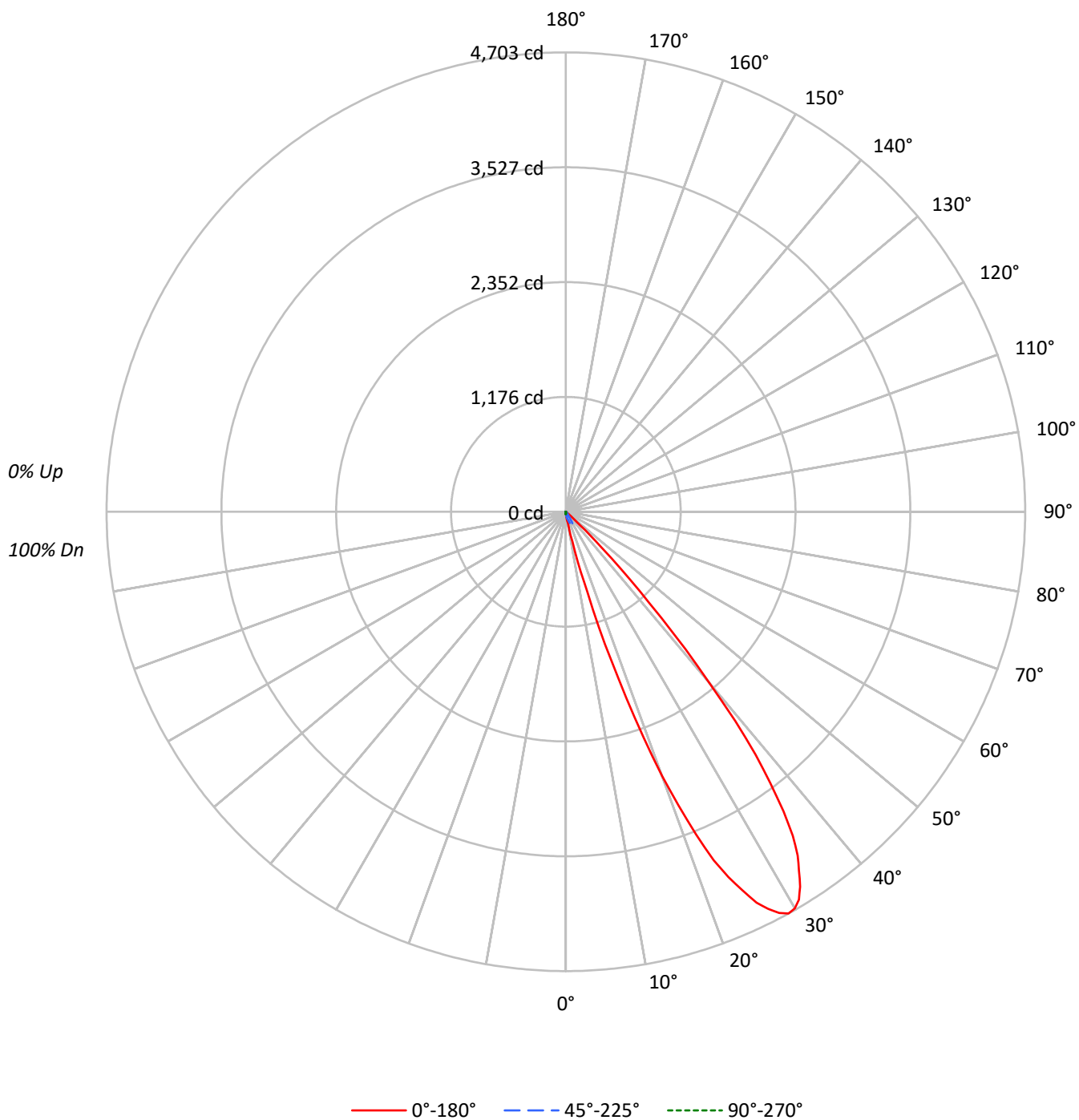
Lumens per Lamp: N/A
Luminaire Lumens: 649.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3996	3996	3996	3996	3996
5°	8696	6137	3682	1677	1227
10°	21668	10843	2588	332	0
15°	152480	14852	1498	0	0
20°	527009	24962	586	0	0
25°	812326	31886	247	0	0
30°	932401	24639	0	0	0
35°	851534	9356	0	0	0
40°	510500	4362	0	0	0
45°	125458	2046	0	0	0
50°	13825	509	0	0	0
55°	1952	0	180	0	0
60°	0	0	448	0	0
65°	0	0	530	0	0
70°	0	302	957	0	0
75°	0	399	1264	0	0
80°	0	595	1884	0	0
85°	0	1186	3754	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 133787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.4
10°-20°	50.7	7.8
20°-30°	256.4	39.5
30°-40°	277.4	42.7
40°-50°	58.6	9.0
50°-60°	1.8	0.3
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	309.7	47.7
0°-40°	587.1	90.5
0°-60°	647.4	99.8
0°-90°	649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	50	36	21	10	7	7
15°	855	83	8	0	0	357
25°	4275	168	1	0	0	1932
35°	4050	44	0	0	0	2388
45°	515	8	0	0	0	567
55°	6	0	1	0	0	11
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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	31.6	31.0	31.6	31.0	31.6	31.6	31.6	31.0	31.0	31.0	31.0
5°	50.3	50.3	49.7	50.3	50.3	50.3	50.3	49.7	49.7	49.1	49.1
7.5°	79.4	79.4	78.7	78.7	79.4	80.0	77.5	78.7	78.7	78.7	78.1
10°	123.9	126.5	123.9	127.2	124.6	122.6	125.9	122.6	122.6	122.0	120.1
12.5°	312.4	305.3	300.8	289.8	300.8	292.4	294.3	292.4	285.9	277.5	272.4
15°	855.2	855.2	830.1	863.6	839.1	848.1	801.7	802.3	778.4	752.6	738.4
17.5°	1787.9	1804.0	1787.3	1776.9	1755.0	1723.4	1710.5	1677.5	1634.3	1583.9	1578.1
20°	2875.5	2807.7	2839.3	2810.3	2792.2	2753.5	2710.3	2683.1	2645.1	2581.2	2486.9
21°	3217.6	3215.0	3214.4	3213.7	3187.2	3124.0	3084.6	3030.4	2976.8	2911.0	2832.2
22°	3562.3	3574.5	3579.7	3542.2	3488.0	3459.6	3432.5	3358.3	3273.7	3239.5	3145.9
23°	3878.5	3866.9	3833.3	3815.9	3774.0	3765.6	3684.9	3637.8	3555.2	3517.7	3406.7
24°	4094.1	4088.3	4072.8	4047.0	4013.4	3961.8	3913.4	3839.2	3771.4	3710.1	3606.8
25°	4274.8	4280.0	4251.6	4234.2	4198.0	4139.9	4080.6	3999.2	3936.0	3864.3	3744.9
26°	4453.6	4417.5	4394.9	4369.1	4329.7	4263.2	4205.8	4132.8	4056.0	3976.0	3859.2
27°	4564.0	4531.7	4497.5	4472.3	4427.2	4363.9	4302.6	4221.9	4136.1	4055.4	3935.3
28°	4651.1	4615.6	4582.1	4551.7	4500.1	4432.3	4358.7	4276.8	4187.7	4104.4	3981.8
29°	4702.8	4660.8	4624.7	4590.5	4543.3	4469.8	4395.5	4307.8	4221.9	4134.8	4009.6
30°	4688.6	4652.4	4617.6	4582.7	4535.0	4465.9	4392.3	4308.4	4221.9	4136.1	4008.9
31°	4633.1	4588.5	4563.4	4528.5	4487.2	4416.8	4353.6	4261.9	4183.8	4090.9	3963.7
32°	4526.6	4498.2	4464.6	4437.5	4397.5	4322.6	4260.6	4185.8	4093.5	4017.3	3883.7
33°	4382.0	4355.5	4338.7	4307.1	4268.4	4216.7	4142.5	4074.1	3970.2	3892.1	3758.5
34°	4243.9	4210.3	4168.3	4159.3	4125.7	4059.3	3992.1	3922.4	3829.5	3730.1	3595.2
35°	4050.2	4015.4	3976.6	3979.9	3939.8	3862.4	3794.0	3715.9	3627.4	3510.6	3382.8
36°	3791.4	3768.2	3762.3	3746.9	3701.0	3608.7	3543.5	3445.4	3371.2	3228.6	3118.8
37°	3475.8	3484.2	3442.2	3422.2	3368.6	3304.1	3267.3	3141.4	3054.9	2947.8	2799.3
38°	3156.9	3144.6	3094.9	3107.2	3033.6	2966.5	2862.6	2787.7	2690.9	2591.5	2472.7
39°	2758.7	2728.3	2668.9	2671.5	2616.0	2540.5	2439.8	2351.4	2293.3	2197.8	2084.2
40°	2270.7	2257.8	2237.1	2202.9	2130.0	2097.1	2007.4	1911.8	1862.8	1730.5	1675.0
42.5°	1259.9	1242.5	1207.6	1195.4	1156.7	1117.9	1065.6	1001.7	970.8	931.4	843.6
45°	515.1	549.3	540.9	531.2	501.5	503.5	466.0	470.5	436.3	413.1	397.0
47.5°	113.6	123.3	123.9	119.4	123.9	120.1	118.1	114.9	115.5	117.5	113.0
50°	51.6	51.0	52.3	51.6	51.0	50.3	49.7	47.8	49.1	47.8	46.5
52.5°	20.0	20.7	20.7	19.4	20.0	20.0	20.0	19.4	19.4	19.4	19.4
55°	6.5	6.5	6.5	5.8	5.8	6.5	6.5	6.5	6.5	6.5	5.8
57.5°	0.6	1.3	0.6	1.3	0.6	0.6	0.6	0.6	0.6	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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	29.7	27.1	25.2	23.2	19.4	16.1	14.8	14.8
5°	45.8	35.5	26.5	21.3	14.8	9.7	7.7	7.1
7.5°	69.1	47.8	27.8	18.1	9.7	5.2	3.2	2.6
10°	100.0	62.0	29.0	14.8	5.8	1.9	0.0	0.0
12.5°	174.9	74.2	29.0	11.6	2.6	0.0	0.0	0.0
15°	400.8	83.3	27.8	8.4	0.6	0.0	0.0	0.0
17.5°	832.6	104.6	24.5	5.8	0.0	0.0	0.0	0.0
20°	1329.6	136.2	19.4	3.2	0.0	0.0	0.0	0.0
21°	1534.2	147.2	17.4	2.6	0.0	0.0	0.0	0.0
22°	1681.4	157.5	15.5	1.9	0.0	0.0	0.0	0.0
23°	1843.4	163.9	13.6	1.3	0.0	0.0	0.0	0.0
24°	1962.8	167.8	11.6	1.3	0.0	0.0	0.0	0.0
25°	2037.1	167.8	10.3	1.3	0.0	0.0	0.0	0.0
26°	2080.9	163.9	9.0	0.6	0.0	0.0	0.0	0.0
27°	2091.3	157.5	7.7	0.6	0.0	0.0	0.0	0.0
28°	2078.4	149.1	6.5	0.0	0.0	0.0	0.0	0.0
29°	2037.7	136.8	5.8	0.0	0.0	0.0	0.0	0.0
30°	1993.8	123.9	4.5	0.0	0.0	0.0	0.0	0.0
31°	1918.9	106.5	3.9	0.0	0.0	0.0	0.0	0.0
32°	1832.4	88.4	3.2	0.0	0.0	0.0	0.0	0.0
33°	1716.9	69.7	2.6	0.0	0.0	0.0	0.0	0.0
34°	1546.5	54.9	2.6	0.0	0.0	0.0	0.0	0.0
35°	1393.5	44.5	1.9	0.0	0.0	0.0	0.0	0.0
36°	1193.4	35.5	1.9	0.0	0.0	0.0	0.0	0.0
37°	1022.4	29.7	1.9	0.0	0.0	0.0	0.0	0.0
38°	855.9	25.2	1.3	0.0	0.0	0.0	0.0	0.0
39°	694.5	21.9	1.3	0.0	0.0	0.0	0.0	0.0
40°	553.8	19.4	1.3	0.0	0.0	0.0	0.0	0.0
42.5°	298.8	12.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	165.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	72.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	24.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	1.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.3	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.3	1.3	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.3	1.9	0.6	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	0.6	1.3	1.9	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.3	1.9	0.6	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)