

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: P1312402

Luminaire Tested: P3SQAS13R209727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312402
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: P3SQAS13R209727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

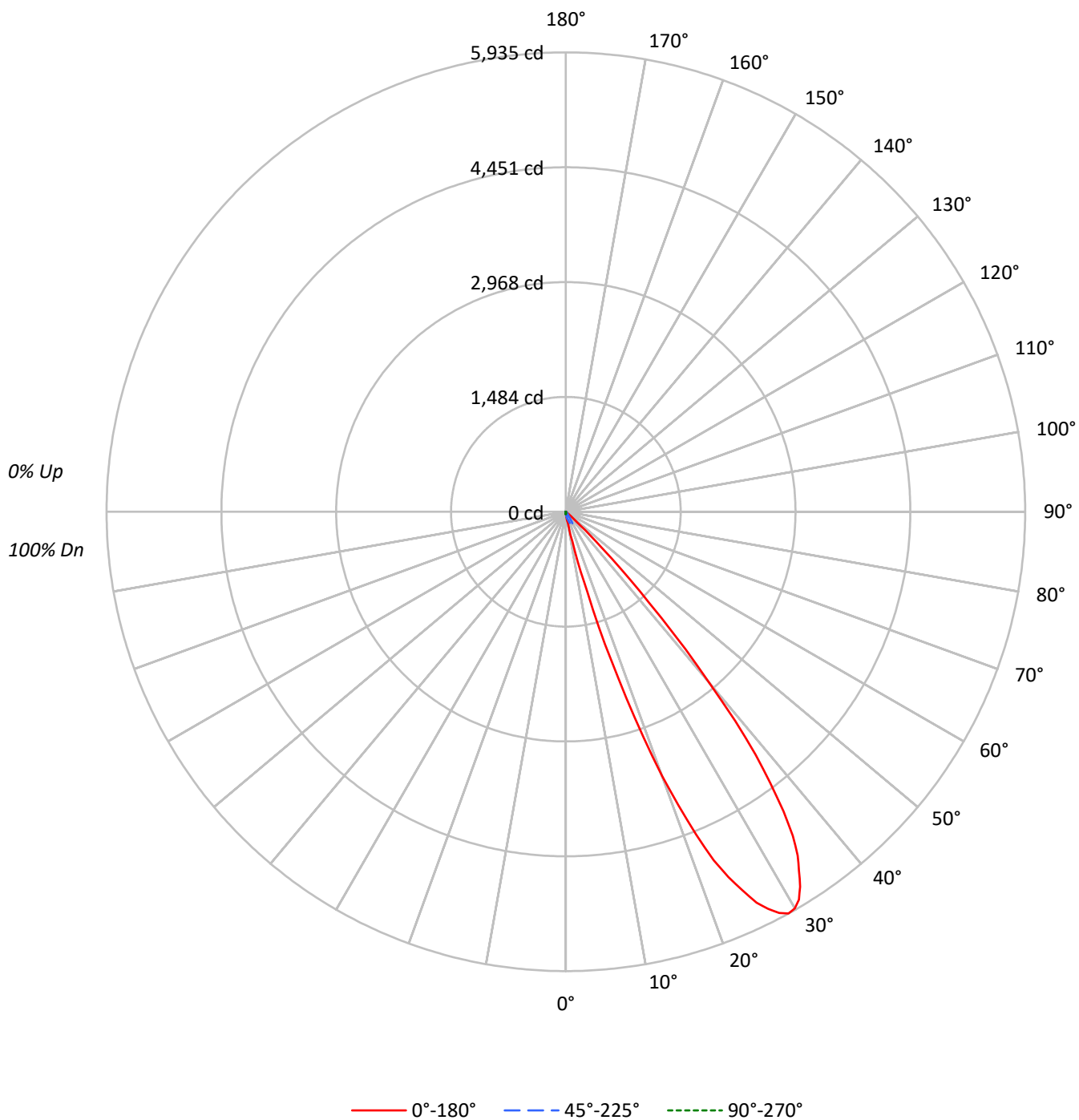
Lumens per Lamp: N/A
Luminaire Lumens: 819.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5046	5046	5046	5046	5046
5°	10978	7745	4650	2109	1556
10°	27351	13676	3270	420	0
15°	192419	18739	1890	0	0
20°	665052	31505	751	0	0
25°	1025118	40248	304	0	0
30°	1176628	31103	0	0	0
35°	1074583	11816	0	0	0
40°	644224	5486	0	0	0
45°	158314	2582	0	0	0
50°	17469	643	0	0	0
55°	2432	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1209	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 168836 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.4
10°-20°	64.0	7.8
20°-30°	323.5	39.5
30°-40°	350.0	42.7
40°-50°	73.9	9.0
50°-60°	2.2	0.3
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	390.8	47.7
0°-40°	740.9	90.5
0°-60°	817.0	99.8
0°-90°	819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	819.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	64	45	27	12	9	9
15°	1079	105	11	0	0	450
25°	5395	212	2	0	0	2438
35°	5111	56	0	0	0	3014
45°	650	11	0	0	0	715
55°	8	0	1	0	0	14
65°	0	0	2	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°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	39.9	39.1	39.9	39.1	39.9	39.9	39.9	39.1	39.1	39.1	39.1
5°	63.5	63.5	62.7	63.5	63.5	63.5	63.5	62.7	62.7	61.9	61.9
7.5°	100.2	100.2	99.4	99.4	100.2	101.0	97.7	99.4	99.4	99.4	98.6
10°	156.4	159.6	156.4	160.5	157.2	154.8	158.8	154.8	154.8	153.9	151.5
12.5°	394.2	385.3	379.6	365.7	379.6	369.0	371.4	369.0	360.8	350.2	343.7
15°	1079.2	1079.2	1047.5	1089.8	1058.9	1070.3	1011.6	1012.5	982.3	949.7	931.8
17.5°	2256.2	2276.6	2255.4	2242.4	2214.7	2174.8	2158.5	2116.9	2062.4	1998.8	1991.5
20°	3628.7	3543.2	3583.1	3546.4	3523.6	3474.8	3420.2	3386.0	3337.9	3257.3	3138.4
21°	4060.4	4057.1	4056.3	4055.5	4022.1	3942.3	3892.6	3824.2	3756.6	3673.5	3574.1
22°	4495.4	4510.8	4517.4	4470.1	4401.7	4365.9	4331.6	4238.0	4131.3	4088.1	3970.0
23°	4894.5	4879.8	4837.5	4815.5	4762.5	4751.9	4650.1	4590.7	4486.4	4439.2	4299.1
24°	5166.5	5159.2	5139.6	5107.1	5064.7	4999.6	4938.5	4844.8	4759.3	4681.9	4551.6
25°	5394.6	5401.1	5365.3	5343.3	5297.7	5224.4	5149.4	5046.8	4967.0	4876.6	4725.9
26°	5620.2	5574.6	5546.1	5513.5	5463.8	5379.9	5307.4	5215.4	5118.5	5017.5	4870.0
27°	5759.5	5718.8	5675.6	5643.8	5586.8	5507.0	5429.6	5327.8	5219.5	5117.7	4966.2
28°	5869.5	5824.7	5782.3	5744.0	5678.9	5593.3	5500.5	5397.0	5284.6	5179.6	5024.8
29°	5934.6	5881.7	5836.1	5792.9	5733.4	5640.6	5546.9	5436.1	5327.8	5217.8	5059.8
30°	5916.7	5871.1	5827.1	5783.1	5722.8	5635.7	5542.8	5436.9	5327.8	5219.5	5059.0
31°	5846.7	5790.5	5758.7	5714.7	5662.6	5573.8	5494.0	5378.3	5279.7	5162.5	5002.0
32°	5712.3	5676.4	5634.1	5599.9	5549.4	5454.9	5376.7	5282.2	5165.7	5069.6	4901.0
33°	5529.8	5496.4	5475.2	5435.3	5386.4	5321.3	5227.6	5141.3	5010.1	4911.6	4743.0
34°	5355.5	5313.1	5260.2	5248.8	5206.4	5122.5	5037.8	4949.9	4832.6	4707.1	4536.9
35°	5111.1	5067.2	5018.3	5022.4	4971.9	4874.1	4787.8	4689.2	4577.6	4430.2	4268.9
36°	4784.5	4755.2	4747.9	4728.3	4670.5	4554.0	4471.7	4347.9	4254.3	4074.3	3935.8
37°	4386.2	4396.8	4343.9	4318.6	4251.0	4169.5	4123.1	3964.3	3855.1	3719.9	3532.6
38°	3983.8	3968.4	3905.6	3921.1	3828.3	3743.6	3612.4	3517.9	3395.8	3270.3	3120.4
39°	3481.3	3443.0	3368.1	3371.3	3301.3	3206.0	3078.9	2967.3	2894.0	2773.5	2630.1
40°	2865.5	2849.2	2823.1	2780.0	2687.9	2646.4	2533.2	2412.6	2350.7	2183.7	2113.7
42.5°	1590.0	1568.0	1524.0	1508.5	1459.6	1410.8	1344.8	1264.1	1225.0	1175.4	1064.6
45°	650.0	693.2	682.6	670.4	632.9	635.3	588.1	593.8	550.6	521.3	500.9
47.5°	143.4	155.6	156.4	150.7	156.4	151.5	149.1	145.0	145.8	148.2	142.5
50°	65.2	64.3	66.0	65.2	64.3	63.5	62.7	60.3	61.9	60.3	58.6
52.5°	25.3	26.1	26.1	24.4	25.3	25.3	25.3	24.4	24.4	24.4	24.4
55°	8.1	8.1	8.1	7.3	7.3	8.1	8.1	8.1	8.1	8.1	7.3
57.5°	0.8	1.6	0.8	1.6	0.8	0.8	0.8	0.8	0.8	1.6	1.6
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°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	37.5	34.2	31.8	29.3	24.4	20.4	18.7	18.7
5°	57.8	44.8	33.4	26.9	18.7	12.2	9.8	9.0
7.5°	87.2	60.3	35.0	22.8	12.2	6.5	4.1	3.3
10°	126.3	78.2	36.7	18.7	7.3	2.4	0.0	0.0
12.5°	220.7	93.7	36.7	14.7	3.3	0.0	0.0	0.0
15°	505.8	105.1	35.0	10.6	0.8	0.0	0.0	0.0
17.5°	1050.7	132.0	31.0	7.3	0.0	0.0	0.0	0.0
20°	1677.9	171.9	24.4	4.1	0.0	0.0	0.0	0.0
21°	1936.1	185.7	22.0	3.3	0.0	0.0	0.0	0.0
22°	2121.8	198.7	19.5	2.4	0.0	0.0	0.0	0.0
23°	2326.3	206.9	17.1	1.6	0.0	0.0	0.0	0.0
24°	2477.0	211.8	14.7	1.6	0.0	0.0	0.0	0.0
25°	2570.6	211.8	13.0	1.6	0.0	0.0	0.0	0.0
26°	2626.0	206.9	11.4	0.8	0.0	0.0	0.0	0.0
27°	2639.1	198.7	9.8	0.8	0.0	0.0	0.0	0.0
28°	2622.8	188.2	8.1	0.0	0.0	0.0	0.0	0.0
29°	2571.5	172.7	7.3	0.0	0.0	0.0	0.0	0.0
30°	2516.1	156.4	5.7	0.0	0.0	0.0	0.0	0.0
31°	2421.6	134.4	4.9	0.0	0.0	0.0	0.0	0.0
32°	2312.4	111.6	4.1	0.0	0.0	0.0	0.0	0.0
33°	2166.6	88.0	3.3	0.0	0.0	0.0	0.0	0.0
34°	1951.6	69.2	3.3	0.0	0.0	0.0	0.0	0.0
35°	1758.6	56.2	2.4	0.0	0.0	0.0	0.0	0.0
36°	1506.1	44.8	2.4	0.0	0.0	0.0	0.0	0.0
37°	1290.2	37.5	2.4	0.0	0.0	0.0	0.0	0.0
38°	1080.1	31.8	1.6	0.0	0.0	0.0	0.0	0.0
39°	876.4	27.7	1.6	0.0	0.0	0.0	0.0	0.0
40°	698.9	24.4	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	377.1	16.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	208.5	10.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	92.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	31.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.3	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	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	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)