

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: P1307303

Luminaire Tested: P3SQAS24R209027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R209027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

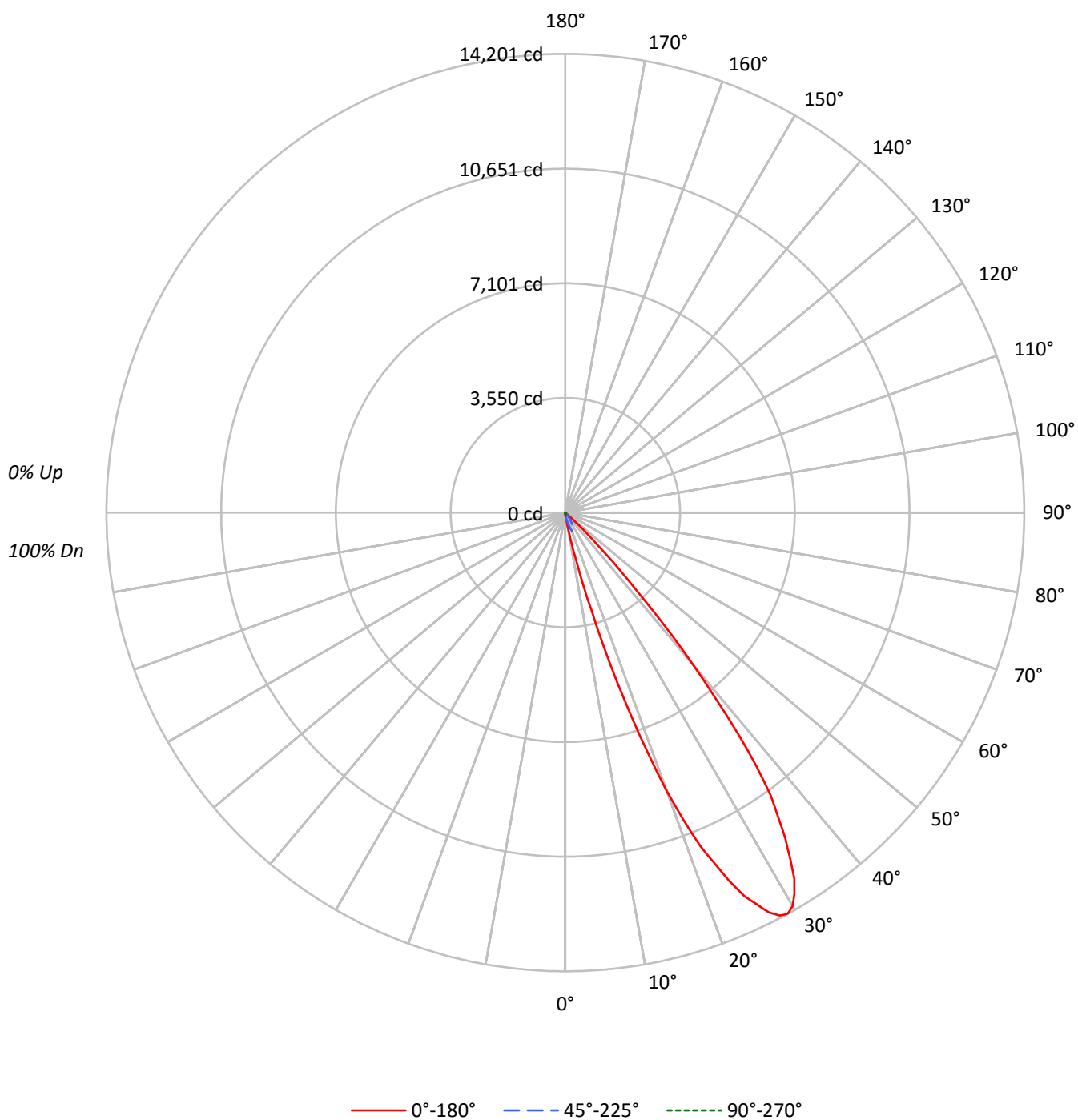
Lumens per Lamp: N/A
Luminaire Lumens: 1991.9 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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		
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	99	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	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11832	11832	11832	11832	11832
5°	27177	20313	11255	6881	5930
10°	85656	35396	9164	3795	2851
15°	554863	65418	6775	1284	321
20°	1674643	111945	4637	0	0
25°	2487050	112990	2755	0	0
30°	2796806	85890	1074	0	0
35°	2413108	51300	757	0	0
40°	1389549	17469	0	0	0
45°	338938	7039	438	0	438
50°	40672	1929	482	482	1447
55°	5435	0	1081	1081	2162
60°	620	0	1860	1860	3100
65°	734	734	2934	2934	4401
70°	906	906	3626	3626	4532
75°	0	1198	4791	3593	4791
80°	0	1785	5356	3570	5356
85°	0	3557	10671	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 341130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.5
10°-20°	184.6	9.3
20°-30°	804.6	40.4
30°-40°	810.3	40.7
40°-50°	162.5	8.2
50°-60°	8.2	0.4
60°-70°	5.3	0.3
70°-80°	4.7	0.2
80°-90°	2.4	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°	998.4	50.1
0°-40°	1808.8	90.8
0°-60°	1979.5	99.4
0°-90°	1991.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	157	118	65	40	34	25
15°	3112	367	38	7	2	1219
25°	13088	595	14	0	0	5901
35°	11478	244	4	0	0	6829
45°	1392	29	2	0	2	1515
55°	18	0	4	4	7	34
65°	2	2	7	7	11	2
75°	0	2	7	5	7	1
85°	0	2	5	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
2.5°	103.0	103.0	101.2	101.2	99.4	101.2	97.6	99.4	99.4	97.6	88.6
5°	157.2	160.8	159.0	159.0	157.2	159.0	155.4	151.8	148.2	148.2	117.5
7.5°	258.4	256.6	253.0	254.8	249.4	245.8	242.2	240.4	229.5	224.1	153.6
10°	489.8	500.6	491.6	489.8	457.2	455.4	433.7	403.0	375.9	361.4	202.4
12.5°	1348.2	1406.0	1315.7	1272.3	1247.0	1149.4	1107.8	1001.2	898.2	820.5	256.6
15°	3112.0	3254.8	3072.3	3084.9	2933.1	2654.8	2410.8	2201.2	1953.6	1704.2	366.9
17.5°	6097.5	5981.9	5882.5	5714.4	5405.4	4997.0	4471.1	3937.9	3477.1	2994.6	511.4
20°	9137.3	9034.3	8808.4	8441.5	8047.5	7442.1	6816.8	6016.2	5240.9	4514.4	610.8
21°	10183.7	10149.3	9778.8	9552.9	8945.7	8367.4	7646.3	6789.7	5916.8	5056.6	627.1
22°	11118.0	10912.0	10713.2	10378.8	9775.2	9146.3	8343.9	7442.1	6495.1	5539.1	628.9
23°	11765.0	11671.0	11483.1	11105.3	10505.3	9766.2	8920.4	7977.1	6979.5	5880.7	623.5
24°	12480.6	12361.4	12086.7	11645.7	11040.3	10310.2	9345.1	8409.0	7324.6	6168.0	609.0
25°	13087.9	12901.7	12576.4	12101.1	11439.7	10686.1	9715.6	8687.3	7565.0	6361.4	594.6
26°	13481.8	13380.6	12963.2	12446.3	11737.9	10960.8	9970.4	8900.5	7720.4	6450.0	571.1
27°	13892.1	13705.9	13295.7	12701.1	11933.0	11139.7	10115.0	9003.6	7774.6	6453.6	542.2
28°	14127.0	13924.6	13460.1	12834.8	12059.6	11239.1	10198.1	9036.1	7763.8	6397.5	507.8
29°	14201.1	13946.3	13492.7	12856.5	12090.3	11246.3	10185.5	8989.1	7668.0	6260.2	468.1
30°	14063.8	13803.5	13373.4	12753.5	11992.7	11155.9	10068.0	8833.7	7498.1	6063.2	431.9
31°	13763.8	13543.3	13127.6	12505.9	11775.8	10944.5	9802.3	8578.9	7209.0	5799.4	390.4
32°	13368.0	13151.1	12742.7	12180.6	11437.9	10599.3	9439.1	8181.3	6869.2	5405.4	348.8
33°	12773.4	12648.7	12281.8	11745.1	11002.3	10106.0	8951.1	7706.0	6384.9	4968.0	312.6
34°	12171.6	12014.4	11757.7	11170.4	10371.6	9477.0	8315.0	7050.0	5793.9	4478.3	278.3
35°	11477.6	11383.7	10980.6	10510.8	9708.4	8793.9	7639.1	6412.0	5105.4	3932.5	244.0
36°	10805.3	10660.8	10201.7	9704.8	8925.8	7937.3	6796.9	5643.9	4510.8	3421.1	207.8
37°	9829.4	9609.0	9281.9	8757.8	7846.9	7004.8	5963.8	4893.9	3778.9	2868.1	168.1
38°	8681.9	8578.9	8125.2	7597.5	6843.9	6045.1	5015.0	4107.8	3117.4	2394.6	128.3
39°	7328.3	7326.5	6892.7	6511.4	5774.1	5054.8	4125.9	3334.3	2573.5	1928.3	99.4
40°	6180.7	5967.4	5700.0	5221.0	4655.4	4044.5	3231.3	2609.6	1997.0	1554.2	77.7
42.5°	3240.3	3222.3	3065.0	2705.4	2389.1	2029.5	1613.8	1344.6	1051.8	856.6	48.8
45°	1391.6	1400.6	1292.2	1237.9	1115.1	965.1	815.1	679.5	581.9	471.7	28.9
47.5°	352.4	337.9	334.3	347.0	347.0	336.1	301.8	283.7	262.0	240.4	16.3
50°	151.8	148.2	144.6	144.6	135.5	130.1	121.1	110.2	101.2	90.4	7.2
52.5°	56.0	57.8	59.6	57.8	57.8	56.0	56.0	54.2	48.8	43.4	3.6
55°	18.1	18.1	18.1	19.9	19.9	21.7	21.7	21.7	21.7	19.9	0.0
57.5°	3.6	3.6	5.4	5.4	5.4	5.4	5.4	5.4	7.2	7.2	0.0
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	0.0	0.0	0.0	1.8	0.0	1.8	1.8	0.0	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	68.7	68.7	68.7	68.7	68.7	68.7
2.5°	79.5	70.5	59.6	50.6	48.8	47.0
5°	88.6	65.1	48.8	39.8	36.1	34.3
7.5°	95.8	59.6	39.8	28.9	25.3	23.5
10°	99.4	52.4	32.5	21.7	16.3	16.3
12.5°	101.2	45.2	23.5	14.5	9.0	9.0
15°	99.4	38.0	18.1	7.2	1.8	1.8
17.5°	90.4	30.7	10.8	1.8	0.0	0.0
20°	77.7	25.3	7.2	0.0	0.0	0.0
21°	74.1	21.7	5.4	0.0	0.0	0.0
22°	68.7	19.9	3.6	0.0	0.0	0.0
23°	63.3	18.1	3.6	0.0	0.0	0.0
24°	57.8	16.3	1.8	0.0	0.0	0.0
25°	54.2	14.5	1.8	0.0	0.0	0.0
26°	50.6	12.7	1.8	0.0	0.0	0.0
27°	45.2	10.8	0.0	0.0	0.0	0.0
28°	41.6	9.0	0.0	0.0	0.0	0.0
29°	36.1	7.2	0.0	0.0	0.0	0.0
30°	30.7	5.4	0.0	0.0	0.0	0.0
31°	25.3	5.4	0.0	0.0	0.0	0.0
32°	21.7	3.6	0.0	0.0	0.0	0.0
33°	18.1	3.6	0.0	0.0	0.0	0.0
34°	16.3	3.6	0.0	0.0	0.0	0.0
35°	14.5	3.6	0.0	0.0	0.0	0.0
36°	10.8	1.8	0.0	0.0	0.0	0.0
37°	9.0	1.8	0.0	0.0	0.0	0.0
38°	7.2	1.8	0.0	0.0	0.0	0.0
39°	5.4	0.0	0.0	0.0	0.0	0.0
40°	5.4	0.0	0.0	0.0	0.0	0.0
42.5°	1.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.8	0.0	0.0	1.8	1.8
47.5°	0.0	1.8	0.0	0.0	1.8	3.6
50°	0.0	1.8	1.8	1.8	3.6	5.4
52.5°	0.0	3.6	1.8	1.8	5.4	5.4
55°	1.8	3.6	1.8	3.6	7.2	7.2
57.5°	1.8	3.6	3.6	5.4	7.2	9.0
60°	3.6	5.4	5.4	5.4	9.0	9.0
62.5°	3.6	5.4	7.2	7.2	9.0	10.8
65°	3.6	7.2	7.2	7.2	9.0	10.8
67.5°	5.4	7.2	7.2	7.2	9.0	10.8
70°	5.4	7.2	7.2	7.2	9.0	9.0
72.5°	5.4	7.2	5.4	7.2	7.2	9.0
75°	5.4	7.2	5.4	5.4	7.2	7.2
77.5°	3.6	5.4	5.4	3.6	5.4	5.4
80°	3.6	5.4	3.6	3.6	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.6	5.4	3.6	1.8	3.6	3.6
85°	3.6	5.4	3.6	1.8	1.8	1.8
87.5°	3.6	5.4	3.6	1.8	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)