

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: P1315622

Luminaire Tested: P3SQAS20R209740D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315622
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: P3SQAS20R209740D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

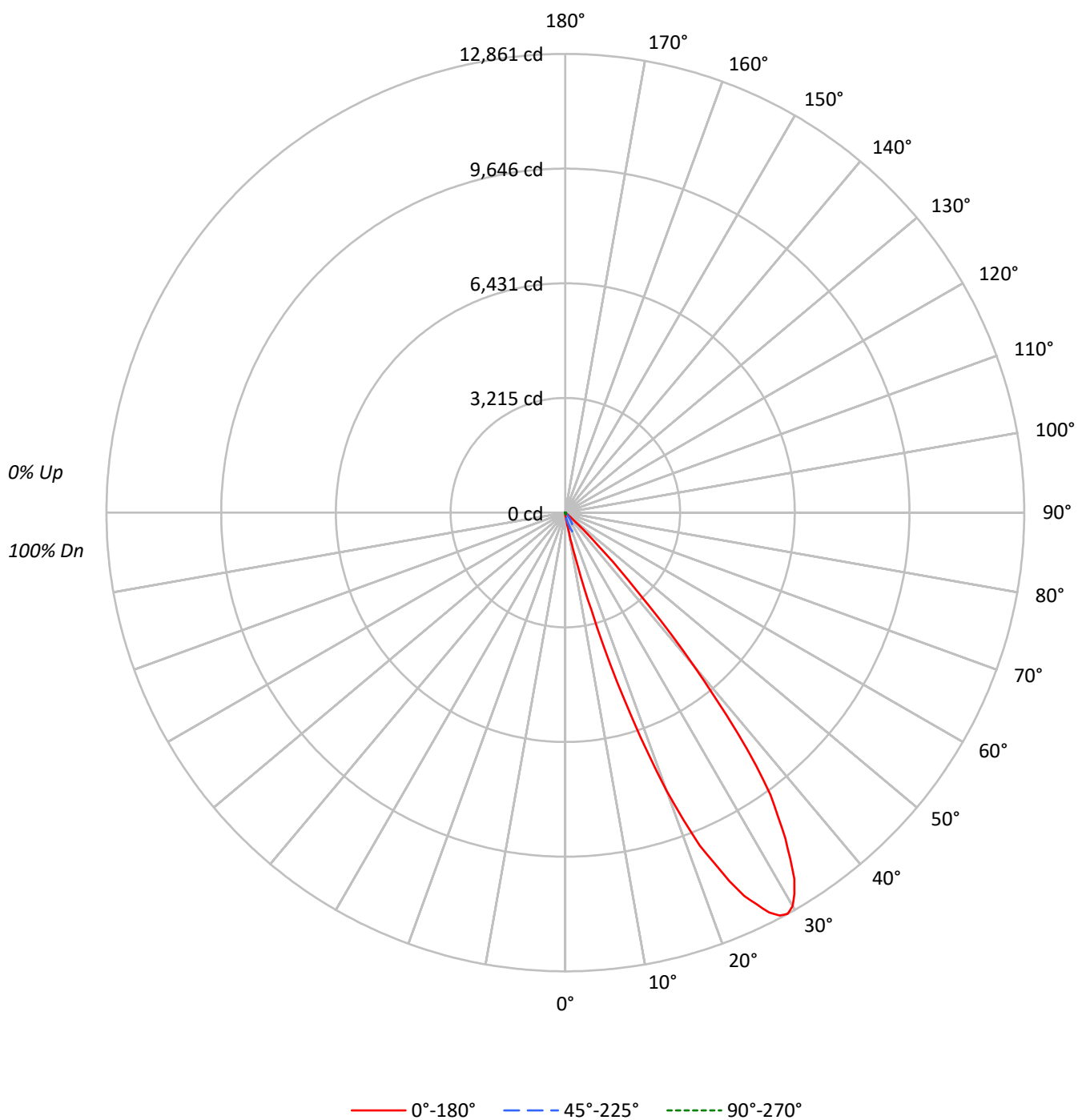
Lumens per Lamp: N/A
Luminaire Lumens: 1803.9 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	10712	10712	10712	10712	10712
5°	24618	18394	10183	6224	5377
10°	77559	32055	8307	3428	2571
15°	502497	59231	6133	1159	285
20°	1516586	101388	4197	0	0
25°	2252329	102329	2489	0	0
30°	2532851	77796	974	0	0
35°	2185371	46443	694	0	0
40°	1258411	15827	0	0	0
45°	306934	6381	390	0	390
50°	36840	1742	429	429	1313
55°	4924	0	991	991	1952
60°	551	0	1688	1688	2824
65°	652	652	2649	2649	3994
70°	806	806	3273	3273	4129
75°	0	1065	4325	3261	4325
80°	0	1587	4860	3273	4860
85°	0	3162	9683	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 308931 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.5
10°-20°	167.2	9.3
20°-30°	728.7	40.4
30°-40°	733.8	40.7
40°-50°	147.2	8.2
50°-60°	7.4	0.4
60°-70°	4.8	0.3
70°-80°	4.3	0.2
80°-90°	2.2	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°	904.2	50.1
0°-40°	1638.1	90.8
0°-60°	1792.6	99.4
0°-90°	1803.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	142	106	59	36	31	22
15°	2818	332	34	6	2	1104
25°	11853	538	13	0	0	5344
35°	10394	221	3	0	0	6185
45°	1260	26	2	0	2	1372
55°	16	0	3	3	6	30
65°	2	2	6	6	10	2
75°	0	2	6	5	6	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°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	93.3	93.3	91.7	91.7	90.0	91.7	88.4	90.0	90.0	88.4	80.2
5°	142.4	145.7	144.0	144.0	142.4	144.0	140.8	137.5	134.2	134.2	106.4
7.5°	234.0	232.4	229.1	230.8	225.9	222.6	219.3	217.7	207.9	202.9	139.1
10°	443.5	453.4	445.2	443.5	414.1	412.4	392.8	365.0	340.4	327.3	183.3
12.5°	1220.9	1273.3	1191.5	1152.2	1129.3	1040.9	1003.3	906.7	813.4	743.0	232.4
15°	2818.3	2947.6	2782.3	2793.8	2656.3	2404.2	2183.3	1993.4	1769.2	1543.4	332.2
17.5°	5522.1	5417.3	5327.3	5175.1	4895.2	4525.4	4049.1	3566.3	3148.9	2711.9	463.2
20°	8274.9	8181.6	7977.1	7644.8	7288.0	6739.7	6173.5	5448.4	4746.3	4088.4	553.2
21°	9222.6	9191.5	8855.9	8651.4	8101.4	7577.7	6924.7	6148.9	5358.4	4579.4	567.9
22°	10068.7	9882.1	9702.1	9399.3	8852.7	8283.1	7556.4	6739.7	5882.1	5016.3	569.6
23°	10654.6	10569.5	10399.3	10057.2	9513.9	8844.5	8078.5	7224.2	6320.8	5325.7	564.6
24°	11302.7	11194.7	10946.0	10546.6	9998.3	9337.1	8463.1	7615.4	6633.4	5585.9	551.6
25°	11852.7	11684.1	11389.5	10959.0	10360.0	9677.5	8798.7	7867.4	6851.0	5761.0	538.5
26°	12209.5	12117.8	11739.7	11271.6	10630.1	9926.3	9029.4	8060.5	6991.8	5841.2	517.2
27°	12581.0	12412.4	12040.9	11502.4	10806.8	10088.3	9160.4	8153.8	7040.9	5844.5	491.0
28°	12793.7	12610.4	12189.8	11623.5	10921.4	10178.4	9235.6	8183.3	7031.1	5793.8	459.9
29°	12860.8	12630.1	12219.3	11643.2	10949.2	10184.9	9224.2	8140.7	6944.3	5669.4	423.9
30°	12736.5	12500.8	12111.3	11549.9	10860.8	10103.1	9117.8	8000.0	6790.5	5491.0	391.2
31°	12464.8	12265.1	11888.7	11325.7	10664.4	9911.6	8877.2	7769.2	6528.6	5252.0	353.5
32°	12106.3	11909.9	11540.1	11031.1	10358.4	9599.0	8548.3	7409.1	6220.9	4895.2	315.9
33°	11567.9	11455.0	11122.7	10636.6	9964.0	9152.2	8106.4	6978.7	5782.3	4499.2	283.1
34°	11022.9	10880.5	10648.1	10116.2	9392.8	8582.6	7530.3	6384.6	5247.1	4055.6	252.0
35°	10394.4	10309.3	9944.3	9518.8	8792.1	7964.0	6918.1	5806.9	4623.6	3561.4	220.9
36°	9785.6	9654.6	9238.9	8788.8	8083.4	7188.2	6155.5	5111.3	4085.1	3098.2	188.2
37°	8901.8	8702.1	8405.9	7931.2	7106.4	6343.7	5401.0	4432.1	3422.2	2597.4	152.2
38°	7862.5	7769.2	7358.4	6880.5	6198.0	5474.6	4541.7	3720.1	2823.2	2168.6	116.2
39°	6636.6	6635.0	6242.2	5896.9	5229.1	4577.7	3736.5	3019.6	2330.6	1746.3	90.0
40°	5597.4	5404.2	5162.0	4728.3	4216.0	3662.8	2926.3	2363.3	1808.5	1407.5	70.4
42.5°	2934.5	2918.2	2775.8	2450.1	2163.7	1838.0	1461.5	1217.7	952.5	775.8	44.2
45°	1260.2	1268.4	1170.2	1121.1	1009.8	874.0	738.1	615.4	527.0	427.2	26.2
47.5°	319.1	306.1	302.8	314.2	314.2	304.4	273.3	257.0	237.3	217.7	14.7
50°	137.5	134.2	130.9	130.9	122.7	117.8	109.7	99.8	91.7	81.8	6.5
52.5°	50.7	52.4	54.0	52.4	52.4	50.7	50.7	49.1	44.2	39.3	3.3
55°	16.4	16.4	16.4	18.0	18.0	19.6	19.6	19.6	19.6	18.0	0.0
57.5°	3.3	3.3	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	1.6	0.0	1.6	1.6	0.0	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	72.0	63.8	54.0	45.8	44.2	42.6
5°	80.2	58.9	44.2	36.0	32.7	31.1
7.5°	86.7	54.0	36.0	26.2	22.9	21.3
10°	90.0	47.5	29.5	19.6	14.7	14.7
12.5°	91.7	40.9	21.3	13.1	8.2	8.2
15°	90.0	34.4	16.4	6.5	1.6	1.6
17.5°	81.8	27.8	9.8	1.6	0.0	0.0
20°	70.4	22.9	6.5	0.0	0.0	0.0
21°	67.1	19.6	4.9	0.0	0.0	0.0
22°	62.2	18.0	3.3	0.0	0.0	0.0
23°	57.3	16.4	3.3	0.0	0.0	0.0
24°	52.4	14.7	1.6	0.0	0.0	0.0
25°	49.1	13.1	1.6	0.0	0.0	0.0
26°	45.8	11.5	1.6	0.0	0.0	0.0
27°	40.9	9.8	0.0	0.0	0.0	0.0
28°	37.6	8.2	0.0	0.0	0.0	0.0
29°	32.7	6.5	0.0	0.0	0.0	0.0
30°	27.8	4.9	0.0	0.0	0.0	0.0
31°	22.9	4.9	0.0	0.0	0.0	0.0
32°	19.6	3.3	0.0	0.0	0.0	0.0
33°	16.4	3.3	0.0	0.0	0.0	0.0
34°	14.7	3.3	0.0	0.0	0.0	0.0
35°	13.1	3.3	0.0	0.0	0.0	0.0
36°	9.8	1.6	0.0	0.0	0.0	0.0
37°	8.2	1.6	0.0	0.0	0.0	0.0
38°	6.5	1.6	0.0	0.0	0.0	0.0
39°	4.9	0.0	0.0	0.0	0.0	0.0
40°	4.9	0.0	0.0	0.0	0.0	0.0
42.5°	1.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.6	0.0	0.0	1.6	1.6
47.5°	0.0	1.6	0.0	0.0	1.6	3.3
50°	0.0	1.6	1.6	1.6	3.3	4.9
52.5°	0.0	3.3	1.6	1.6	4.9	4.9
55°	1.6	3.3	1.6	3.3	6.5	6.5
57.5°	1.6	3.3	3.3	4.9	6.5	8.2
60°	3.3	4.9	4.9	4.9	8.2	8.2
62.5°	3.3	4.9	6.5	6.5	8.2	9.8
65°	3.3	6.5	6.5	6.5	8.2	9.8
67.5°	4.9	6.5	6.5	6.5	8.2	9.8
70°	4.9	6.5	6.5	6.5	8.2	8.2
72.5°	4.9	6.5	4.9	6.5	6.5	8.2
75°	4.9	6.5	4.9	4.9	6.5	6.5
77.5°	3.3	4.9	4.9	3.3	4.9	4.9
80°	3.3	4.9	3.3	3.3	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.3	4.9	3.3	1.6	3.3	3.3
85°	3.3	4.9	3.3	1.6	1.6	1.6
87.5°	3.3	4.9	3.3	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)