

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: P1310511

Luminaire Tested: P3SQAS20R209040D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310511
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: P3SQAS20R209040D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

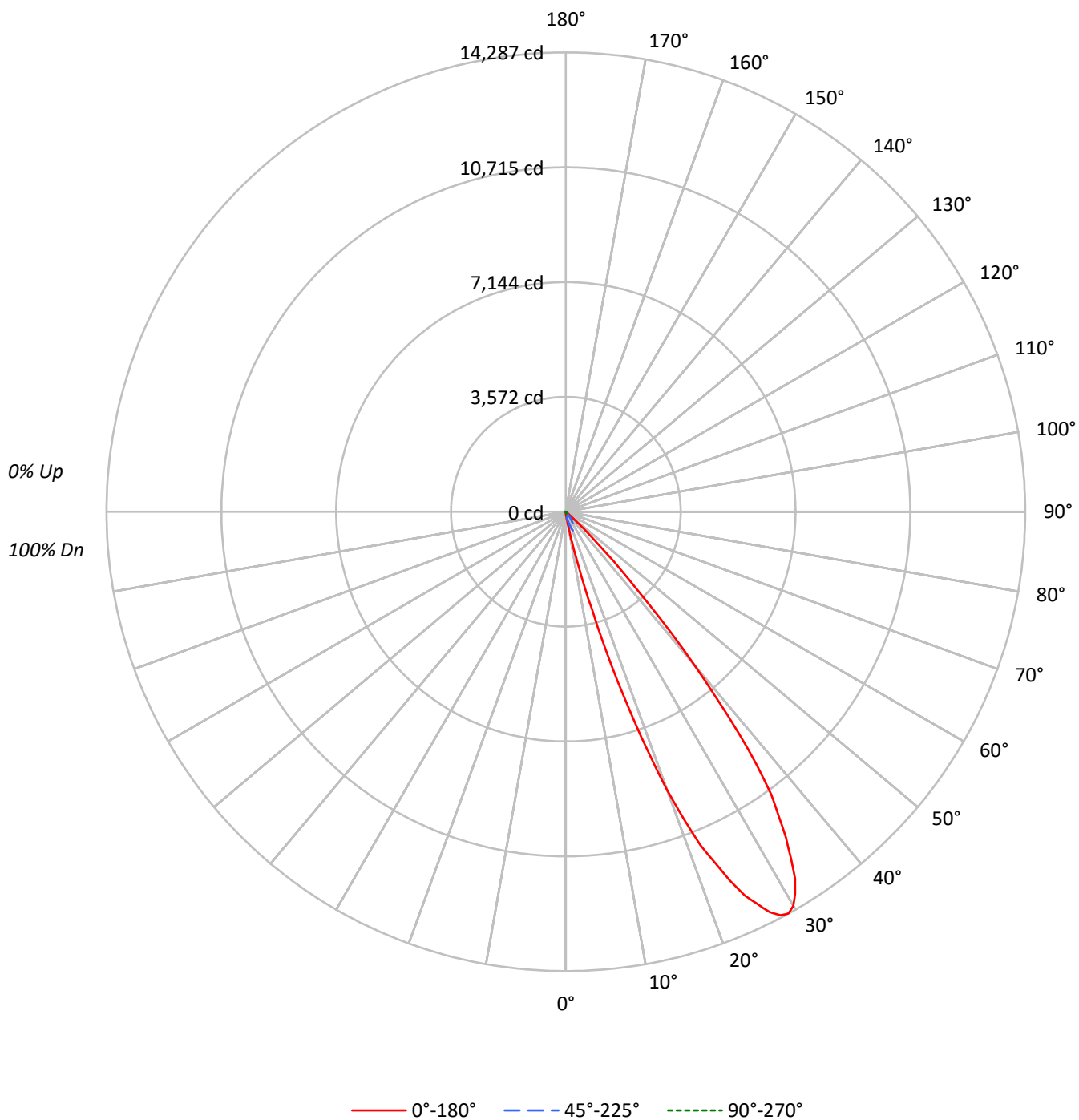
Lumens per Lamp: N/A
Luminaire Lumens: 2004.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310511

CATALOG NUMBER: P3SQAS20R209040D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1310511

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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°	11901	11901	11901	11901	11901
5°	27350	20434	11324	6915	5964
10°	86163	35605	9216	3812	2868
15°	558215	65810	6811	1302	321
20°	1684723	112623	4674	0	0
25°	2502024	113674	2755	0	0
30°	2813650	86407	1094	0	0
35°	2427657	51594	757	0	0
40°	1397913	17581	0	0	0
45°	340959	7088	438	0	438
50°	40913	1956	482	482	1474
55°	5465	0	1081	1081	2192
60°	620	0	1894	1894	3134
65°	734	734	2975	2975	4442
70°	906	906	3676	3676	4582
75°	0	1198	4858	3660	4858
80°	0	1785	5455	3570	5455
85°	0	3557	10868	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 343175 cd/sqm

TEST NUMBER: P1310511

CATALOG NUMBER: P3SQAS20R209040D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.5
10°-20°	185.7	9.3
20°-30°	809.5	40.4
30°-40°	815.2	40.7
40°-50°	163.5	8.2
50°-60°	8.2	0.4
60°-70°	5.4	0.3
70°-80°	4.8	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°	1004.5	50.1
0°-40°	1819.7	90.8
0°-60°	1991.4	99.4
0°-90°	2004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	158	118	66	40	34	25
15°	3131	369	38	7	2	1226
25°	13167	598	14	0	0	5937
35°	11547	245	4	0	0	6870
45°	1400	29	2	0	2	1524
55°	18	0	4	4	7	34
65°	2	2	7	7	11	2
75°	0	2	7	6	7	1
85°	0	2	6	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1310511

CATALOG NUMBER: P3SQAS20R209040D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
2.5°	103.6	103.6	101.8	101.8	100.0	101.8	98.2	100.0	100.0	98.2	89.1
5°	158.2	161.8	160.0	160.0	158.2	160.0	156.4	152.7	149.1	149.1	118.2
7.5°	260.0	258.2	254.5	256.4	250.9	247.3	243.6	241.8	230.9	225.4	154.5
10°	492.7	503.6	494.5	492.7	460.0	458.2	436.3	405.4	378.2	363.6	203.6
12.5°	1356.3	1414.5	1323.6	1279.9	1254.5	1156.3	1114.5	1007.2	903.6	825.4	258.2
15°	3130.8	3274.4	3090.8	3103.5	2950.8	2670.8	2425.3	2214.4	1965.4	1714.5	369.1
17.5°	6134.3	6017.9	5917.9	5748.8	5437.9	5027.1	4498.0	3961.6	3498.0	3012.6	514.5
20°	9192.3	9088.7	8861.4	8492.4	8096.0	7486.9	6857.9	6052.5	5272.5	4541.6	614.5
21°	10245.0	10210.5	9837.8	9610.5	8999.6	8417.8	7692.4	6830.6	5952.5	5087.1	630.9
22°	11185.0	10977.7	10777.7	10441.4	9834.1	9201.4	8394.2	7486.9	6534.3	5572.5	632.7
23°	11835.9	11741.3	11552.2	11172.2	10568.6	9825.0	8974.2	8025.1	7021.5	5916.1	627.2
24°	12555.8	12435.8	12159.5	11715.9	11106.8	10372.3	9401.4	8459.6	7368.8	6205.2	612.7
25°	13166.7	12979.4	12652.2	12174.0	11508.6	10750.4	9774.1	8739.6	7610.6	6399.7	598.2
26°	13563.0	13461.2	13041.3	12521.3	11808.6	11026.8	10030.5	8954.2	7766.9	6488.8	574.5
27°	13975.8	13788.5	13375.8	12777.6	12004.9	11206.8	10175.9	9057.8	7821.5	6492.4	545.4
28°	14212.1	14008.5	13541.2	12912.2	12132.2	11306.8	10259.6	9090.5	7810.6	6436.1	510.9
29°	14286.7	14030.3	13574.0	12934.0	12163.1	11314.1	10246.8	9043.2	7714.2	6297.9	470.9
30°	14148.5	13886.7	13454.0	12830.4	12064.9	11223.1	10128.7	8886.9	7543.3	6099.7	434.5
31°	13846.7	13624.9	13206.7	12581.3	11846.8	11010.4	9861.4	8630.5	7252.4	5834.3	392.7
32°	13448.5	13230.3	12819.4	12254.0	11506.8	10663.2	9496.0	8230.6	6910.6	5437.9	350.9
33°	12850.4	12724.9	12355.8	11815.9	11068.6	10166.8	9005.1	7752.4	6423.4	4998.0	314.5
34°	12244.9	12086.7	11828.6	11237.7	10434.1	9534.1	8365.1	7092.4	5828.8	4505.3	280.0
35°	11546.8	11452.2	11046.8	10574.1	9766.8	8846.9	7685.1	6450.6	5136.1	3956.2	245.4
36°	10870.4	10725.0	10263.2	9763.2	8979.6	7985.1	6837.9	5677.9	4538.0	3441.7	209.1
37°	9888.7	9666.9	9337.8	8810.5	7894.2	7047.0	5999.7	4923.4	3801.7	2885.3	169.1
38°	8734.2	8630.5	8174.2	7643.3	6885.2	6081.6	5045.2	4132.5	3136.2	2409.0	129.1
39°	7372.4	7370.6	6934.2	6550.6	5808.8	5085.2	4150.7	3354.4	2589.0	1939.9	100.0
40°	6217.9	6003.4	5734.3	5252.5	4683.4	4068.9	3250.8	2625.3	2009.0	1563.6	78.2
42.5°	3259.9	3241.7	3083.5	2721.7	2403.5	2041.7	1623.6	1352.7	1058.1	861.8	49.1
45°	1399.9	1409.0	1299.9	1245.4	1121.8	970.9	820.0	683.6	585.4	474.5	29.1
47.5°	354.5	340.0	336.3	349.1	349.1	338.2	303.6	285.4	263.6	241.8	16.4
50°	152.7	149.1	145.4	145.4	136.4	130.9	121.8	110.9	101.8	90.9	7.3
52.5°	56.4	58.2	60.0	58.2	58.2	56.4	56.4	54.5	49.1	43.6	3.6
55°	18.2	18.2	18.2	20.0	20.0	21.8	21.8	21.8	21.8	20.0	0.0
57.5°	3.6	3.6	5.5	5.5	5.5	5.5	5.5	5.5	7.3	7.3	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



TEST NUMBER: P1310511

CATALOG NUMBER: P3SQAS20R209040D010 E3SQCA301MW

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

TEST NUMBER: P1310511

CATALOG NUMBER: P3SQAS20R209040D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	69.1	69.1	69.1	69.1	69.1	69.1
2.5°	80.0	70.9	60.0	50.9	49.1	47.3
5°	89.1	65.5	49.1	40.0	36.4	34.5
7.5°	96.4	60.0	40.0	29.1	25.5	23.6
10°	100.0	52.7	32.7	21.8	16.4	16.4
12.5°	101.8	45.5	23.6	14.5	9.1	9.1
15°	100.0	38.2	18.2	7.3	1.8	1.8
17.5°	90.9	30.9	10.9	1.8	0.0	0.0
20°	78.2	25.5	7.3	0.0	0.0	0.0
21°	74.5	21.8	5.5	0.0	0.0	0.0
22°	69.1	20.0	3.6	0.0	0.0	0.0
23°	63.6	18.2	3.6	0.0	0.0	0.0
24°	58.2	16.4	1.8	0.0	0.0	0.0
25°	54.5	14.5	1.8	0.0	0.0	0.0
26°	50.9	12.7	1.8	0.0	0.0	0.0
27°	45.5	10.9	0.0	0.0	0.0	0.0
28°	41.8	9.1	0.0	0.0	0.0	0.0
29°	36.4	7.3	0.0	0.0	0.0	0.0
30°	30.9	5.5	0.0	0.0	0.0	0.0
31°	25.5	5.5	0.0	0.0	0.0	0.0
32°	21.8	3.6	0.0	0.0	0.0	0.0
33°	18.2	3.6	0.0	0.0	0.0	0.0
34°	16.4	3.6	0.0	0.0	0.0	0.0
35°	14.5	3.6	0.0	0.0	0.0	0.0
36°	10.9	1.8	0.0	0.0	0.0	0.0
37°	9.1	1.8	0.0	0.0	0.0	0.0
38°	7.3	1.8	0.0	0.0	0.0	0.0
39°	5.5	0.0	0.0	0.0	0.0	0.0
40°	5.5	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	5.5
52.5°	0.0	3.6	1.8	1.8	5.5	5.5
55°	1.8	3.6	1.8	3.6	7.3	7.3
57.5°	1.8	3.6	3.6	5.5	7.3	9.1
60°	3.6	5.5	5.5	5.5	9.1	9.1
62.5°	3.6	5.5	7.3	7.3	9.1	10.9
65°	3.6	7.3	7.3	7.3	9.1	10.9
67.5°	5.5	7.3	7.3	7.3	9.1	10.9
70°	5.5	7.3	7.3	7.3	9.1	9.1
72.5°	5.5	7.3	5.5	7.3	7.3	9.1
75°	5.5	7.3	5.5	5.5	7.3	7.3
77.5°	3.6	5.5	5.5	3.6	5.5	5.5
80°	3.6	5.5	3.6	3.6	5.5	5.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.6	5.5	3.6	1.8	3.6	3.6
85°	3.6	5.5	3.6	1.8	1.8	1.8
87.5°	3.6	5.5	3.6	1.8	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)