

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: P1310040

Luminaire Tested: P3SQAS09R209040DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310040
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: P3SQAS09R209040DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

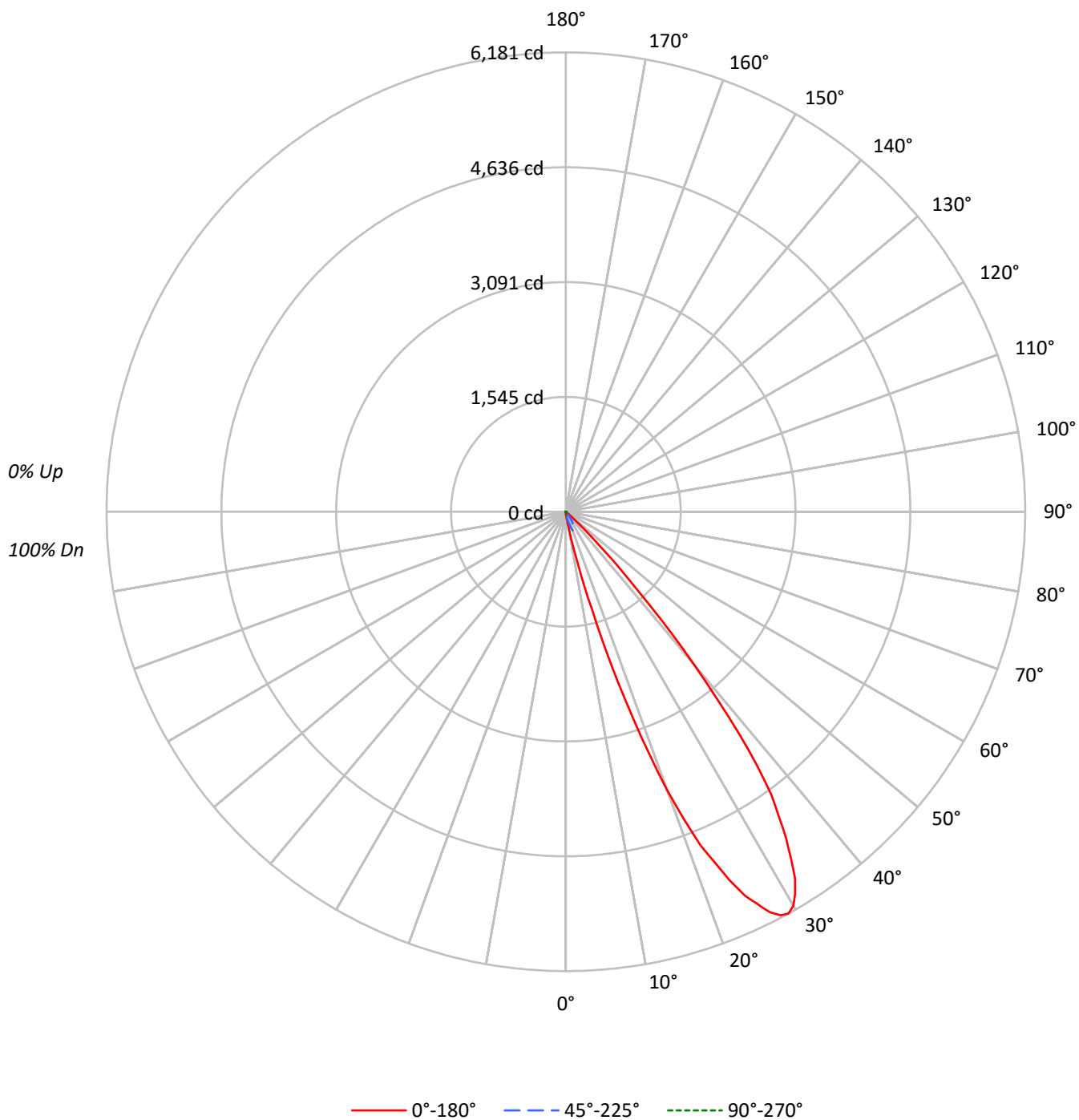
Lumens per Lamp: N/A
Luminaire Lumens: 867.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310040

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MW

Luminous Intensity Polar Plot



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CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MW

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°	5149	5149	5149	5149	5149
5°	11825	8834	4893	2991	2576
10°	37284	15407	3987	1644	1242
15°	241505	28474	2942	553	143
20°	728868	48733	2016	0	0
25°	1082468	49179	1197	0	0
30°	1217276	37387	477	0	0
35°	1050279	22328	336	0	0
40°	604790	7599	0	0	0
45°	147524	3069	195	0	195
50°	17710	831	214	214	643
55°	2372	0	480	480	931
60°	276	0	827	827	1343
65°	326	326	1263	1263	1915
70°	403	403	1561	1561	1964
75°	0	532	2063	1597	2063
80°	0	793	2380	1587	2380
85°	0	1581	4742	1581	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 148474 cd/sqm

TEST NUMBER: P1310040

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.5
10°-20°	80.3	9.3
20°-30°	350.2	40.4
30°-40°	352.7	40.7
40°-50°	70.7	8.2
50°-60°	3.6	0.4
60°-70°	2.3	0.3
70°-80°	2.1	0.2
80°-90°	1.1	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°	434.6	50.1
0°-40°	787.3	90.8
0°-60°	861.6	99.4
0°-90°	867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	867.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	68	51	28	17	15	11
15°	1354	160	16	3	1	531
25°	5696	259	6	0	0	2568
35°	4996	106	2	0	0	2972
45°	606	13	1	0	1	659
55°	8	0	2	2	3	15
65°	1	1	3	3	5	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1310040

CATALOG NUMBER: P3SQAS09R209040DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	44.8	44.8	44.0	44.0	43.3	44.0	42.5	43.3	43.3	42.5	38.5
5°	68.4	70.0	69.2	69.2	68.4	69.2	67.6	66.1	64.5	64.5	51.1
7.5°	112.5	111.7	110.1	110.9	108.5	107.0	105.4	104.6	99.9	97.5	66.9
10°	213.2	217.9	213.9	213.2	199.0	198.2	188.8	175.4	163.6	157.3	88.1
12.5°	586.8	612.0	572.6	553.7	542.7	500.3	482.2	435.8	390.9	357.1	111.7
15°	1354.5	1416.6	1337.2	1342.7	1276.6	1155.5	1049.3	958.0	850.3	741.7	159.7
17.5°	2653.9	2603.6	2560.3	2487.1	2352.6	2174.9	1946.0	1713.9	1513.4	1303.4	222.6
20°	3976.9	3932.1	3833.8	3674.1	3502.6	3239.1	2967.0	2618.5	2281.1	1964.9	265.9
21°	4432.3	4417.4	4256.2	4157.8	3893.5	3641.8	3328.0	2955.2	2575.2	2200.8	272.9
22°	4839.0	4749.3	4662.8	4517.3	4254.6	3980.9	3631.6	3239.1	2826.9	2410.9	273.7
23°	5120.6	5079.7	4997.9	4833.5	4572.4	4250.6	3882.5	3471.9	3037.8	2559.5	271.4
24°	5432.1	5380.2	5260.6	5068.7	4805.2	4487.4	4067.4	3659.9	3188.0	2684.6	265.1
25°	5696.4	5615.4	5473.8	5266.9	4979.0	4651.0	4228.6	3781.1	3292.6	2768.7	258.8
26°	5867.8	5823.8	5642.1	5417.1	5108.8	4770.6	4339.5	3873.9	3360.2	2807.3	248.6
27°	6046.4	5965.4	5786.8	5528.0	5193.8	4848.4	4402.5	3918.7	3383.8	2808.9	236.0
28°	6148.7	6060.6	5858.4	5586.3	5248.8	4891.7	4438.6	3932.9	3379.1	2784.5	221.0
29°	6180.9	6070.0	5872.6	5595.7	5262.2	4894.9	4433.1	3912.4	3337.4	2724.7	203.7
30°	6121.1	6007.9	5820.7	5550.9	5219.7	4855.5	4382.0	3844.8	3263.5	2639.0	188.0
31°	5990.6	5894.6	5713.7	5443.1	5125.3	4763.5	4266.4	3733.9	3137.6	2524.1	169.9
32°	5818.3	5723.9	5546.1	5301.5	4978.2	4613.3	4108.3	3560.8	2989.8	2352.6	151.8
33°	5559.5	5505.2	5345.6	5111.9	4788.7	4398.5	3895.9	3354.0	2779.0	2162.3	136.1
34°	5297.6	5229.1	5117.5	4861.8	4514.2	4124.8	3619.0	3068.4	2521.8	1949.1	121.1
35°	4995.5	4954.6	4779.2	4574.7	4225.5	3827.5	3324.9	2790.8	2222.1	1711.6	106.2
36°	4702.9	4640.0	4440.2	4223.9	3884.9	3454.6	2958.3	2456.5	1963.3	1489.0	90.5
37°	4278.2	4182.2	4039.8	3811.7	3415.3	3048.8	2595.7	2130.0	1644.7	1248.3	73.2
38°	3778.7	3733.9	3536.4	3306.8	2978.8	2631.1	2182.7	1787.9	1356.8	1042.2	55.8
39°	3189.6	3188.8	3000.0	2834.0	2513.1	2200.0	1795.7	1451.2	1120.1	839.3	43.3
40°	2690.1	2597.3	2480.9	2272.4	2026.2	1760.4	1406.4	1135.8	869.2	676.5	33.8
42.5°	1410.3	1402.5	1334.0	1177.5	1039.9	883.3	702.4	585.2	457.8	372.8	21.2
45°	605.7	609.6	562.4	538.8	485.3	420.0	354.7	295.8	253.3	205.3	12.6
47.5°	153.4	147.1	145.5	151.0	151.0	146.3	131.4	123.5	114.1	104.6	7.1
50°	66.1	64.5	62.9	62.9	59.0	56.6	52.7	48.0	44.0	39.3	3.1
52.5°	24.4	25.2	26.0	25.2	25.2	24.4	24.4	23.6	21.2	18.9	1.6
55°	7.9	7.9	7.9	8.7	8.7	9.4	9.4	9.4	9.4	8.7	0.0
57.5°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.1	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	34.6	30.7	26.0	22.0	21.2	20.5
5°	38.5	28.3	21.2	17.3	15.7	14.9
7.5°	41.7	26.0	17.3	12.6	11.0	10.2
10°	43.3	22.8	14.2	9.4	7.1	7.1
12.5°	44.0	19.7	10.2	6.3	3.9	3.9
15°	43.3	16.5	7.9	3.1	0.8	0.8
17.5°	39.3	13.4	4.7	0.8	0.0	0.0
20°	33.8	11.0	3.1	0.0	0.0	0.0
21°	32.2	9.4	2.4	0.0	0.0	0.0
22°	29.9	8.7	1.6	0.0	0.0	0.0
23°	27.5	7.9	1.6	0.0	0.0	0.0
24°	25.2	7.1	0.8	0.0	0.0	0.0
25°	23.6	6.3	0.8	0.0	0.0	0.0
26°	22.0	5.5	0.8	0.0	0.0	0.0
27°	19.7	4.7	0.0	0.0	0.0	0.0
28°	18.1	3.9	0.0	0.0	0.0	0.0
29°	15.7	3.1	0.0	0.0	0.0	0.0
30°	13.4	2.4	0.0	0.0	0.0	0.0
31°	11.0	2.4	0.0	0.0	0.0	0.0
32°	9.4	1.6	0.0	0.0	0.0	0.0
33°	7.9	1.6	0.0	0.0	0.0	0.0
34°	7.1	1.6	0.0	0.0	0.0	0.0
35°	6.3	1.6	0.0	0.0	0.0	0.0
36°	4.7	0.8	0.0	0.0	0.0	0.0
37°	3.9	0.8	0.0	0.0	0.0	0.0
38°	3.1	0.8	0.0	0.0	0.0	0.0
39°	2.4	0.0	0.0	0.0	0.0	0.0
40°	2.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.6
50°	0.0	0.8	0.8	0.8	1.6	2.4
52.5°	0.0	1.6	0.8	0.8	2.4	2.4
55°	0.8	1.6	0.8	1.6	3.1	3.1
57.5°	0.8	1.6	1.6	2.4	3.1	3.9
60°	1.6	2.4	2.4	2.4	3.9	3.9
62.5°	1.6	2.4	3.1	3.1	3.9	4.7
65°	1.6	3.1	3.1	3.1	3.9	4.7
67.5°	2.4	3.1	3.1	3.1	3.9	4.7
70°	2.4	3.1	3.1	3.1	3.9	3.9
72.5°	2.4	3.1	2.4	3.1	3.1	3.9
75°	2.4	3.1	2.4	2.4	3.1	3.1
77.5°	1.6	2.4	2.4	1.6	2.4	2.4
80°	1.6	2.4	1.6	1.6	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.6	2.4	1.6	0.8	1.6	1.6
85°	1.6	2.4	1.6	0.8	0.8	0.8
87.5°	1.6	2.4	1.6	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)