

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: P1311316

Luminaire Tested: P3SQAS13R309050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R309050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

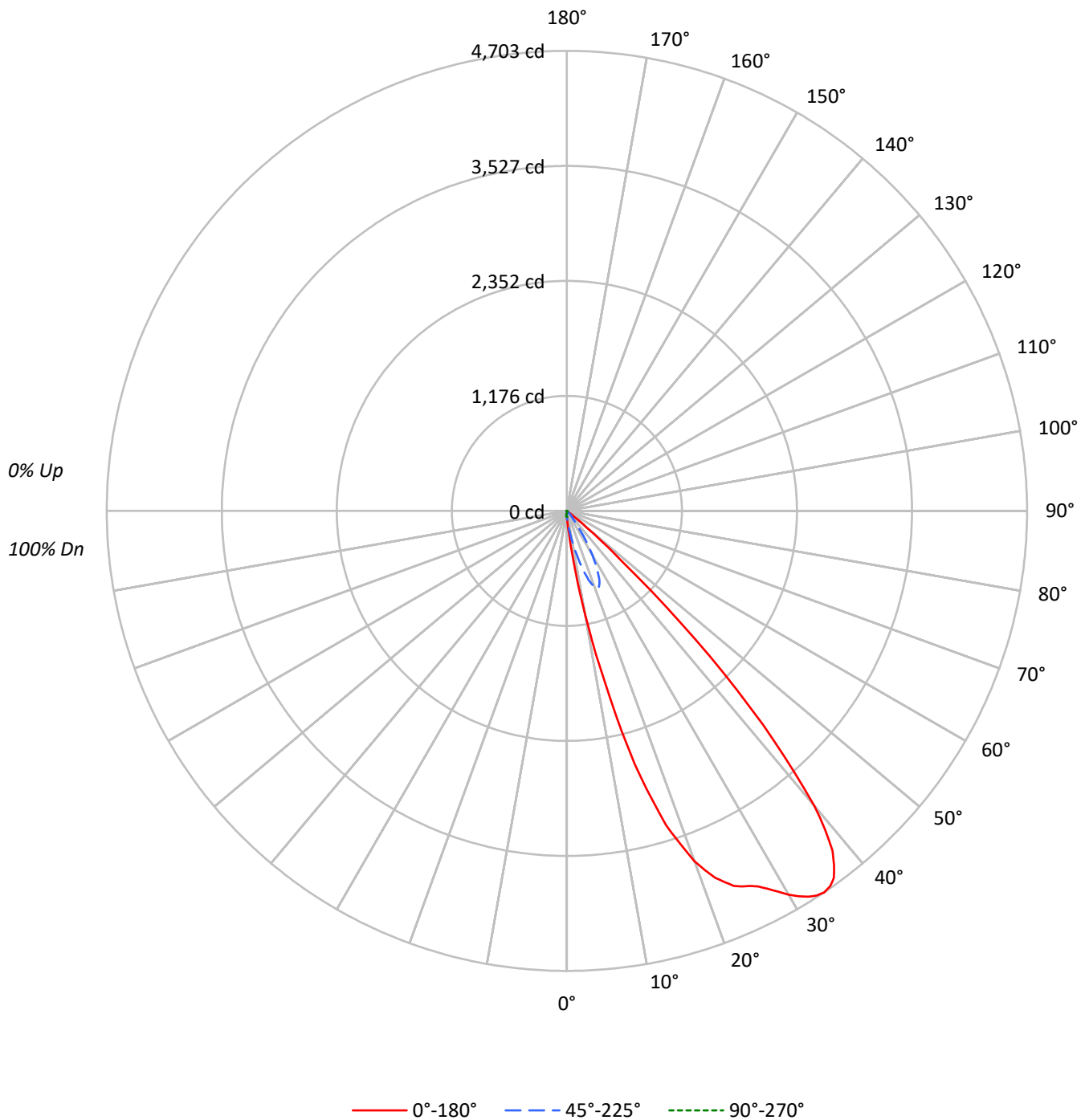
Lumens per Lamp: N/A
Luminaire Lumens: 1132.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		78	74	70		76
5	87	77	70	65	85	76	70	65	74	68	64		72	67	63		71
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10437	10437	10437	10437	10437
5°	37826	23512	9543	3855	2749
10°	187261	56294	7432	734	0
15°	477696	107211	4743	0	0
20°	697986	152449	1943	0	0
25°	805257	149589	399	0	0
30°	901239	102674	0	0	0
35°	985629	44215	0	0	0
40°	884624	17199	0	0	0
45°	451754	6990	0	0	0
50°	69742	857	0	0	0
55°	4144	0	330	0	0
60°	0	0	379	0	0
65°	0	0	856	0	0
70°	0	554	1057	0	0
75°	0	732	2129	0	0
80°	0	1091	3174	0	0
85°	0	2174	6323	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 451754 cd/sqm

TEST NUMBER: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	1.1
10°-20°	150.8	13.3
20°-30°	372.7	32.9
30°-40°	428.6	37.9
40°-50°	159.0	14.0
50°-60°	5.8	0.5
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	0.9	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°	536.2	47.4
0°-40°	964.8	85.2
0°-60°	1129.6	99.8
0°-90°	1132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	219	136	55	22	16	47
15°	2679	601	27	0	0	770
25°	4238	787	2	0	0	1958
35°	4688	210	0	0	0	2842
45°	1855	29	0	0	0	1444
55°	14	0	1	0	0	47
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2.5°	107.3	108.4	108.4	105.2	104.1	103.0	99.9	90.3	75.4	60.6	48.9
5°	218.8	219.9	219.9	213.5	200.8	188.0	177.4	136.0	87.1	55.2	36.1
7.5°	516.3	517.3	495.0	469.5	418.6	392.0	343.1	209.3	98.8	49.9	23.4
10°	1070.8	1047.4	989.0	914.7	836.0	734.1	631.0	321.9	107.3	42.5	14.9
12.5°	1790.0	1767.7	1692.3	1586.0	1432.0	1232.3	1036.8	452.5	108.4	34.0	8.5
15°	2679.2	2616.5	2526.2	2349.9	2122.5	1813.4	1490.4	601.3	104.1	26.6	2.1
17.5°	3368.6	3311.3	3196.5	2990.4	2707.9	2364.7	1968.5	742.6	92.4	17.0	0.0
20°	3808.4	3747.9	3640.6	3458.9	3158.3	2755.7	2302.0	831.8	76.5	10.6	0.0
21°	3933.8	3875.3	3770.2	3589.6	3290.0	2888.4	2383.8	850.9	69.1	8.5	0.0
22°	4044.3	3998.6	3900.8	3704.3	3399.4	2986.2	2466.7	853.0	63.7	6.4	0.0
23°	4121.8	4088.9	3991.1	3810.5	3506.7	3065.9	2511.3	840.3	57.4	4.2	0.0
24°	4196.2	4155.8	4071.9	3904.0	3591.7	3132.8	2551.7	816.9	51.0	3.2	0.0
25°	4237.6	4190.9	4126.1	3968.8	3661.8	3175.3	2576.1	787.2	44.6	2.1	0.0
26°	4266.3	4230.2	4159.0	4007.1	3691.6	3202.9	2579.3	743.6	40.4	1.1	0.0
27°	4309.8	4273.7	4204.7	4041.1	3704.3	3198.6	2560.2	693.7	35.1	0.0	0.0
28°	4375.7	4327.9	4258.8	4077.2	3709.6	3180.6	2517.7	639.5	29.7	0.0	0.0
29°	4451.1	4402.3	4326.8	4125.0	3710.7	3144.5	2450.8	580.0	26.6	0.0	0.0
30°	4531.9	4489.4	4412.9	4171.7	3722.4	3097.7	2373.2	516.3	21.2	0.0	0.0
31°	4595.6	4557.4	4475.6	4214.2	3731.9	3057.4	2277.6	452.5	18.1	0.0	0.0
32°	4650.8	4616.8	4515.9	4223.8	3712.8	3000.0	2175.6	390.9	14.9	0.0	0.0
33°	4689.1	4646.6	4528.7	4199.4	3657.6	2905.4	2062.0	332.5	11.7	0.0	0.0
34°	4702.9	4651.9	4509.5	4135.6	3546.0	2762.0	1914.3	272.0	9.6	0.0	0.0
35°	4688.0	4625.3	4440.5	4026.2	3395.2	2591.0	1736.9	210.3	7.4	0.0	0.0
36°	4640.2	4560.5	4341.7	3870.0	3179.5	2389.2	1559.5	163.6	5.3	0.0	0.0
37°	4537.2	4449.0	4172.8	3663.9	2966.0	2157.6	1357.6	127.5	3.2	0.0	0.0
38°	4410.8	4283.3	3947.6	3403.7	2689.8	1897.3	1157.9	105.2	2.1	0.0	0.0
39°	4195.1	4054.9	3679.9	3104.1	2418.9	1649.8	963.5	91.4	1.1	0.0	0.0
40°	3934.8	3768.0	3373.9	2783.3	2099.1	1390.6	804.2	76.5	1.1	0.0	0.0
42.5°	2968.1	2826.8	2403.0	1893.1	1283.3	820.1	446.2	49.9	0.0	0.0	0.0
45°	1854.8	1707.1	1420.3	1037.9	694.8	424.9	214.6	28.7	0.0	0.0	0.0
47.5°	757.4	694.8	571.5	439.8	314.4	199.7	89.2	12.7	0.0	0.0	0.0
50°	260.3	231.6	194.4	142.4	100.9	69.1	46.7	3.2	0.0	0.0	0.0
52.5°	75.4	76.5	66.9	57.4	44.6	31.9	23.4	0.0	0.0	0.0	0.0
55°	13.8	11.7	13.8	12.7	13.8	11.7	8.5	0.0	0.0	1.1	0.0
57.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	0.0	1.1	1.1	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1



TEST NUMBER: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	1.1
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: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	60.6	60.6	60.6
2.5°	39.3	35.1	32.9
5°	22.3	17.0	15.9
7.5°	11.7	7.4	6.4
10°	4.2	1.1	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



TEST NUMBER: P1311316

CATALOG NUMBER: P3SQAS13R309050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)