

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: P1311350

Luminaire Tested: P3SQAS13R409050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R409050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

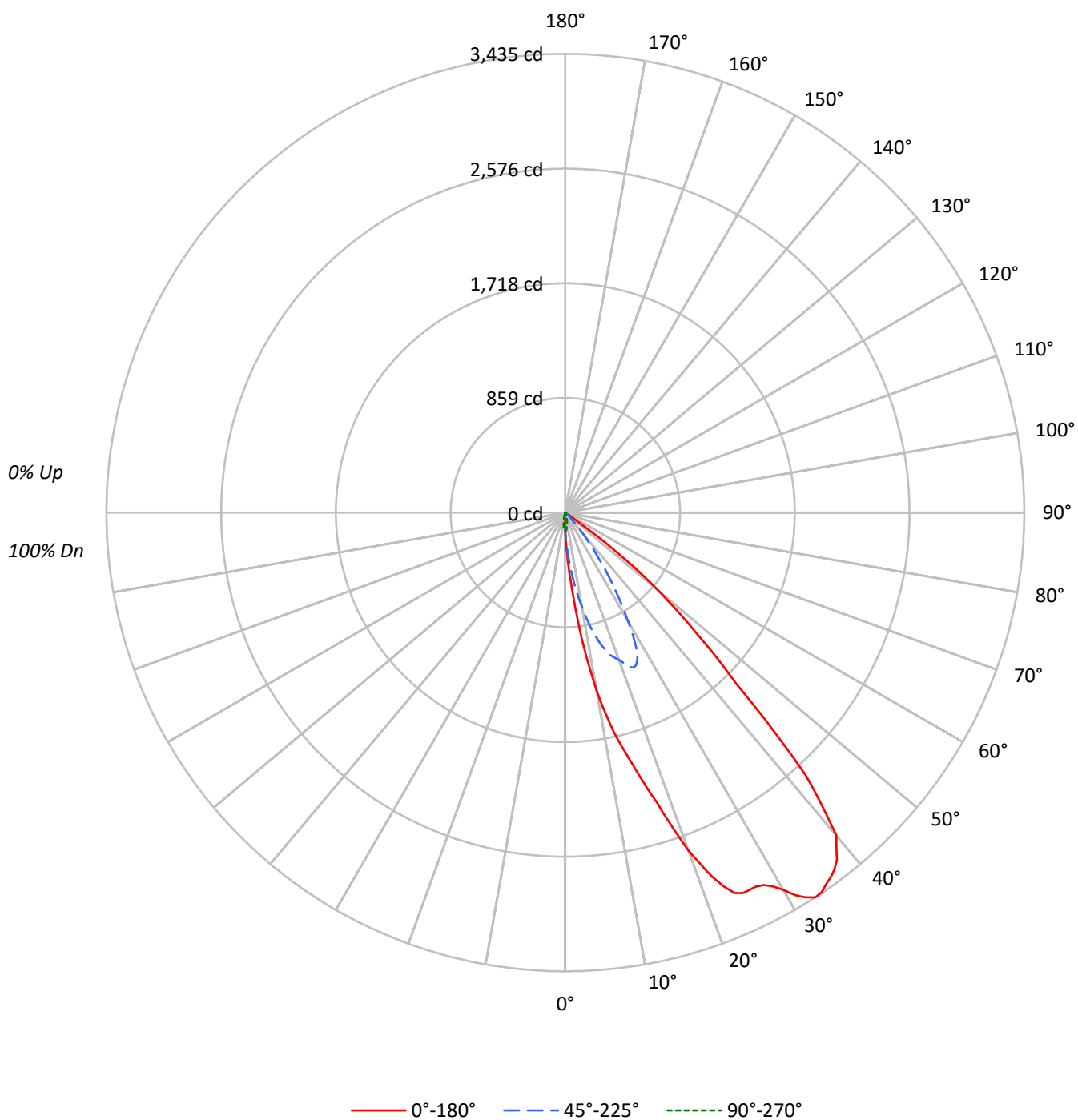
Lumens per Lamp: N/A
Luminaire Lumens: 1153.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 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	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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23233	23233	23233	23233	23233
5°	98576	67181	20383	3665	1833
10°	236944	124969	12626	367	0
15°	348733	181561	5295	0	0
20°	492956	215239	1943	0	0
25°	597064	238902	0	0	0
30°	648282	186874	0	0	0
35°	714833	109390	0	0	0
40°	709489	44402	0	0	0
45°	439406	12933	0	0	0
50°	244674	295	0	0	0
55°	23901	0	0	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	554	1057	0	0
75°	0	732	1397	0	0
80°	0	1091	2083	0	0
85°	0	2174	4150	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 441476 cd/sqm

TEST NUMBER: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	2.2
10°-20°	148.6	12.9
20°-30°	339.2	29.4
30°-40°	400.6	34.7
40°-50°	214.0	18.6
50°-60°	23.3	2.0
60°-70°	0.5	0.0
70°-80°	0.8	0.1
80°-90°	0.8	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°	513.1	44.5
0°-40°	913.7	79.2
0°-60°	1151.0	99.8
0°-90°	1153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	135	135	135	135	135	
5°	570	389	118	21	11	80
15°	1956	1018	30	0	0	581
25°	3142	1257	0	0	0	1427
35°	3400	520	0	0	0	2100
45°	1804	53	0	0	0	1487
55°	80	0	0	0	0	223
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	314.3	307.9	312.2	303.7	303.7	284.6	285.6	269.7	246.3	187.9	133.8
5°	570.2	595.7	575.5	549.0	534.1	515.0	489.5	463.0	388.6	234.7	117.9
7.5°	954.6	952.5	918.5	889.8	856.9	805.9	758.2	693.4	553.2	268.6	97.7
10°	1354.9	1347.5	1309.3	1284.8	1222.2	1148.9	1051.2	947.2	714.6	280.3	72.2
12.5°	1688.3	1678.8	1646.9	1605.5	1536.5	1444.1	1339.0	1202.0	884.5	267.6	46.7
15°	1955.9	1953.8	1923.0	1866.7	1794.5	1704.3	1585.3	1420.8	1018.3	234.7	29.7
17.5°	2273.4	2286.2	2230.9	2170.4	2066.4	1940.0	1794.5	1606.6	1117.1	194.3	19.1
20°	2689.7	2671.6	2620.6	2532.5	2432.7	2280.8	2074.9	1806.2	1174.4	150.8	10.6
21°	2817.1	2809.6	2756.6	2674.8	2564.4	2410.4	2198.0	1908.1	1200.9	134.9	8.5
22°	2946.6	2933.9	2892.5	2812.8	2708.8	2534.6	2301.0	2013.3	1234.9	117.9	5.3
23°	3043.3	3037.9	3006.1	2927.5	2820.3	2651.4	2412.5	2111.0	1258.3	101.9	3.2
24°	3117.6	3111.2	3079.4	3019.9	2927.5	2751.2	2525.1	2216.1	1267.8	88.1	1.1
25°	3142.0	3145.2	3126.1	3079.4	3001.8	2825.6	2609.0	2298.9	1257.2	75.4	0.0
26°	3143.1	3152.6	3138.8	3112.3	3048.6	2885.0	2687.5	2347.7	1229.6	63.7	0.0
27°	3143.1	3152.6	3138.8	3118.6	3056.0	2919.0	2730.0	2353.1	1187.1	54.2	0.0
28°	3157.9	3163.2	3145.2	3120.8	3052.8	2929.6	2741.7	2321.2	1119.2	46.7	0.0
29°	3199.3	3194.0	3164.3	3131.4	3049.6	2929.6	2706.6	2260.7	1034.2	39.3	0.0
30°	3259.9	3259.9	3213.2	3161.1	3064.5	2928.6	2650.4	2151.3	939.7	31.9	0.0
31°	3341.6	3334.2	3287.5	3210.0	3096.3	2928.6	2567.5	2030.3	852.7	27.6	0.0
32°	3396.9	3392.6	3348.0	3256.7	3148.4	2928.6	2478.4	1896.5	758.2	22.3	0.0
33°	3435.1	3426.6	3375.6	3281.1	3180.2	2913.7	2378.5	1753.1	673.2	18.1	0.0
34°	3429.8	3427.6	3374.6	3276.9	3173.9	2852.1	2262.8	1593.8	594.6	14.9	0.0
35°	3400.0	3400.0	3335.3	3234.4	3128.2	2761.9	2148.1	1457.9	520.3	10.6	0.0
36°	3377.7	3369.2	3296.0	3183.4	3051.8	2619.6	1978.2	1320.9	440.7	8.5	0.0
37°	3344.8	3328.9	3247.1	3126.1	2943.4	2465.6	1799.8	1198.8	372.7	5.3	0.0
38°	3302.3	3277.9	3178.1	3059.2	2824.5	2288.3	1618.3	1061.8	310.1	3.2	0.0
39°	3224.8	3204.7	3101.7	2973.2	2682.2	2101.4	1442.0	933.4	250.6	1.1	0.0
40°	3155.8	3120.8	3004.0	2856.4	2515.5	1890.1	1266.8	807.0	197.5	0.0	0.0
42.5°	2661.0	2623.8	2597.3	2450.7	2003.7	1357.0	884.5	517.1	103.0	0.0	0.0
45°	1804.1	1812.6	1729.7	1631.0	1322.0	884.5	553.2	287.8	53.1	0.0	0.0
47.5°	1315.6	1293.3	1180.8	993.9	775.1	517.1	288.8	139.1	21.2	0.0	0.0
50°	913.2	870.7	768.8	628.6	421.6	246.3	127.4	64.8	1.1	0.0	0.0
52.5°	495.9	466.2	395.0	286.7	175.2	94.5	51.0	26.5	0.0	0.0	0.0
55°	79.6	55.2	57.3	48.8	38.2	27.6	15.9	3.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	1.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1	2.1



TEST NUMBER: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1	2.1
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: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	134.9	134.9	134.9	134.9
2.5°	90.3	61.6	46.7	40.4
5°	52.0	21.2	11.7	10.6
7.5°	25.5	7.4	4.2	4.2
10°	10.6	2.1	0.0	0.0
12.5°	3.2	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0
67.5°	1.1	0.0	0.0	0.0
70°	1.1	0.0	0.0	0.0
72.5°	1.1	0.0	0.0	0.0
75°	1.1	0.0	0.0	0.0
77.5°	1.1	0.0	0.0	0.0
80°	1.1	0.0	0.0	0.0



TEST NUMBER: P1311350

CATALOG NUMBER: P3SQAS13R409050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.1	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)