

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: P1313440

Luminaire Tested: P3SQAS13R409730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313440
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: P3SQAS13R409730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

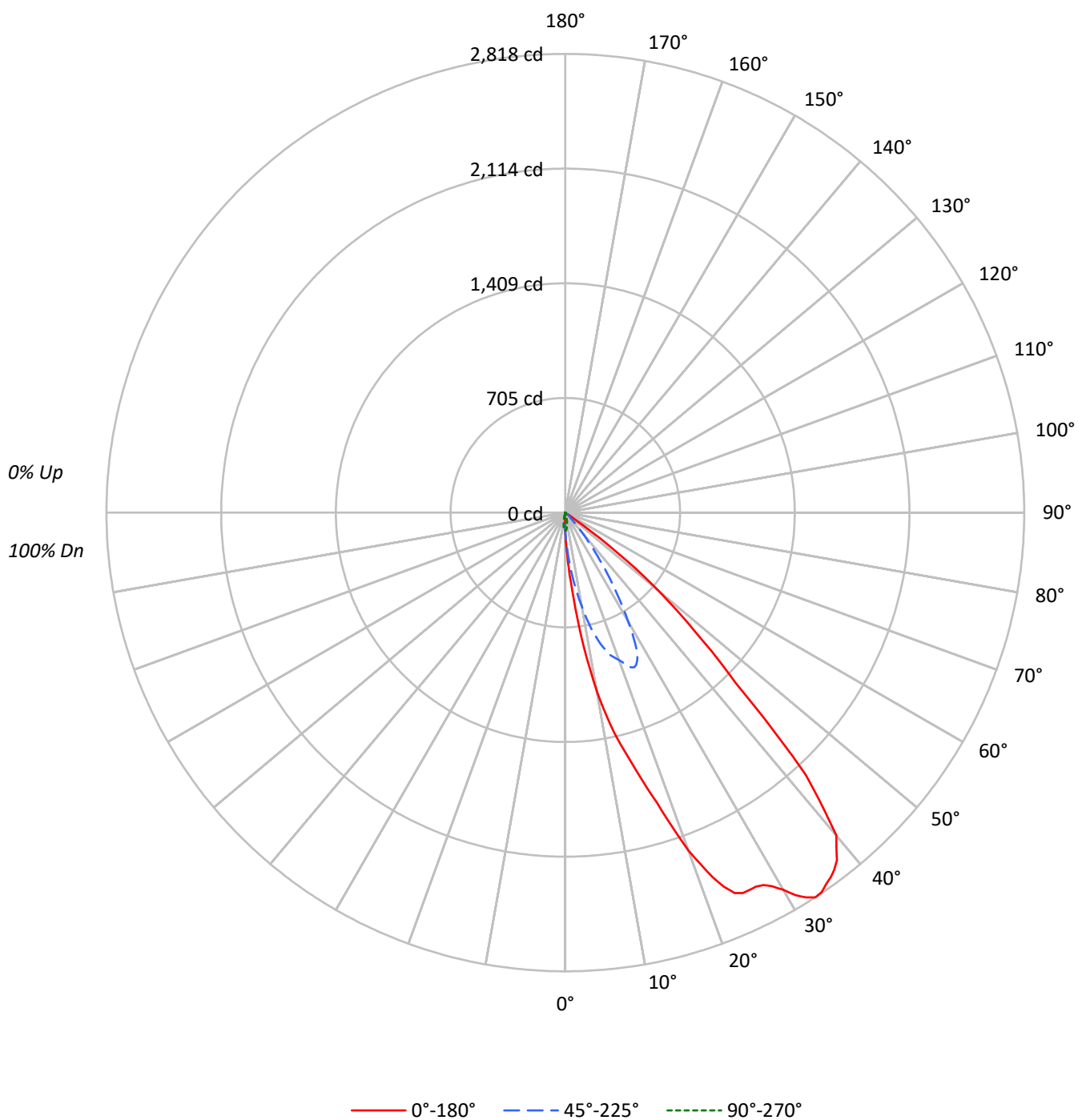
Lumens per Lamp: N/A
Luminaire Lumens: 946.0 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	19048	19048	19048	19048	19048
5°	80873	55132	16718	3008	1504
10°	194413	102532	10353	297	0
15°	286133	148968	4350	0	0
20°	404452	176604	1594	0	0
25°	489870	196012	0	0	0
30°	531886	153325	0	0	0
35°	586500	89754	0	0	0
40°	582106	36421	0	0	0
45°	360517	10619	0	0	0
50°	200734	241	0	0	0
55°	19607	0	0	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	453	856	0	0
75°	0	599	1131	0	0
80°	0	893	1686	0	0
85°	0	1778	3359	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 362222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	2.2
10°-20°	121.9	12.9
20°-30°	278.3	29.4
30°-40°	328.7	34.7
40°-50°	175.6	18.6
50°-60°	19.1	2.0
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.6	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°	421.0	44.5
0°-40°	749.7	79.2
0°-60°	944.3	99.8
0°-90°	946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	111	111	111	111	111	
5°	468	319	97	17	9	66
15°	1605	836	24	0	0	477
25°	2578	1032	0	0	0	1171
35°	2790	427	0	0	0	1723
45°	1480	44	0	0	0	1220
55°	65	0	0	0	0	183
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	257.9	252.7	256.1	249.2	249.2	233.5	234.4	221.3	202.1	154.2	109.8
5°	467.8	488.8	472.2	450.4	438.2	422.5	401.6	379.8	318.9	192.5	96.7
7.5°	783.2	781.5	753.6	730.1	703.1	661.3	622.0	568.9	453.9	220.4	80.2
10°	1111.7	1105.6	1074.2	1054.2	1002.8	942.7	862.5	777.1	586.3	230.0	59.2
12.5°	1385.2	1377.4	1351.3	1317.3	1260.6	1184.8	1098.6	986.2	725.7	219.5	38.3
15°	1604.8	1603.0	1577.8	1531.6	1472.3	1398.3	1300.7	1165.7	835.5	192.5	24.4
17.5°	1865.3	1875.7	1830.4	1780.8	1695.4	1591.7	1472.3	1318.1	916.5	159.4	15.7
20°	2206.8	2192.0	2150.2	2077.8	1995.9	1871.4	1702.3	1481.9	963.6	123.7	8.7
21°	2311.3	2305.2	2261.7	2194.6	2104.0	1977.7	1803.4	1565.6	985.3	110.6	7.0
22°	2417.6	2407.2	2373.2	2307.8	2222.5	2079.6	1887.9	1651.8	1013.2	96.7	4.4
23°	2496.9	2492.5	2466.4	2401.9	2313.9	2175.4	1979.4	1732.0	1032.4	83.6	2.6
24°	2557.9	2552.7	2526.5	2477.7	2401.9	2257.3	2071.7	1818.2	1040.2	72.3	0.9
25°	2577.9	2580.5	2564.8	2526.5	2462.9	2318.3	2140.6	1886.2	1031.5	61.9	0.0
26°	2578.8	2586.6	2575.3	2553.5	2501.3	2367.1	2205.0	1926.3	1008.9	52.3	0.0
27°	2578.8	2586.6	2575.3	2558.8	2507.3	2395.0	2239.9	1930.6	974.0	44.4	0.0
28°	2591.0	2595.3	2580.5	2560.5	2504.7	2403.7	2249.5	1904.5	918.3	38.3	0.0
29°	2625.0	2620.6	2596.2	2569.2	2502.1	2403.7	2220.7	1854.8	848.6	32.2	0.0
30°	2674.6	2674.6	2636.3	2593.6	2514.3	2402.8	2174.5	1765.1	771.0	26.1	0.0
31°	2741.7	2735.6	2697.3	2633.7	2540.5	2402.8	2106.6	1665.8	699.6	22.7	0.0
32°	2787.0	2783.5	2746.9	2672.0	2583.1	2402.8	2033.4	1556.0	622.0	18.3	0.0
33°	2818.4	2811.4	2769.6	2692.0	2609.3	2390.6	1951.5	1438.4	552.3	14.8	0.0
34°	2814.0	2812.3	2768.7	2688.6	2604.1	2340.1	1856.6	1307.7	487.9	12.2	0.0
35°	2789.6	2789.6	2736.5	2653.7	2566.6	2266.0	1762.5	1196.2	426.9	8.7	0.0
36°	2771.3	2764.4	2704.2	2611.9	2503.9	2149.3	1623.1	1083.8	361.6	7.0	0.0
37°	2744.3	2731.3	2664.2	2564.8	2415.0	2023.0	1476.7	983.6	305.8	4.4	0.0
38°	2709.5	2689.4	2607.5	2510.0	2317.4	1877.5	1327.7	871.2	254.4	2.6	0.0
39°	2645.9	2629.3	2544.8	2439.4	2200.7	1724.1	1183.1	765.8	205.6	0.9	0.0
40°	2589.2	2560.5	2464.7	2343.6	2063.9	1550.8	1039.4	662.1	162.0	0.0	0.0
42.5°	2183.3	2152.8	2131.0	2010.8	1644.0	1113.4	725.7	424.3	84.5	0.0	0.0
45°	1480.2	1487.2	1419.2	1338.2	1084.7	725.7	453.9	236.1	43.6	0.0	0.0
47.5°	1079.4	1061.1	968.8	815.5	636.0	424.3	237.0	114.1	17.4	0.0	0.0
50°	749.2	714.4	630.8	515.8	345.9	202.1	104.5	53.1	0.9	0.0	0.0
52.5°	406.9	382.5	324.1	235.2	143.8	77.5	41.8	21.8	0.0	0.0	0.0
55°	65.3	45.3	47.0	40.1	31.4	22.7	13.1	2.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7



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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	0.9	0.9	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7
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):

	112.5°	135°	157.5°	180°
0°	110.6	110.6	110.6	110.6
2.5°	74.1	50.5	38.3	33.1
5°	42.7	17.4	9.6	8.7
7.5°	20.9	6.1	3.5	3.5
10°	8.7	1.7	0.0	0.0
12.5°	2.6	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°	0.9	0.0	0.0	0.0
67.5°	0.9	0.0	0.0	0.0
70°	0.9	0.0	0.0	0.0
72.5°	0.9	0.0	0.0	0.0
75°	0.9	0.0	0.0	0.0
77.5°	0.9	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.9	0.0	0.0	0.0
85°	0.9	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)