

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: P1316580

Luminaire Tested: P3SQAS20R509827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R509827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

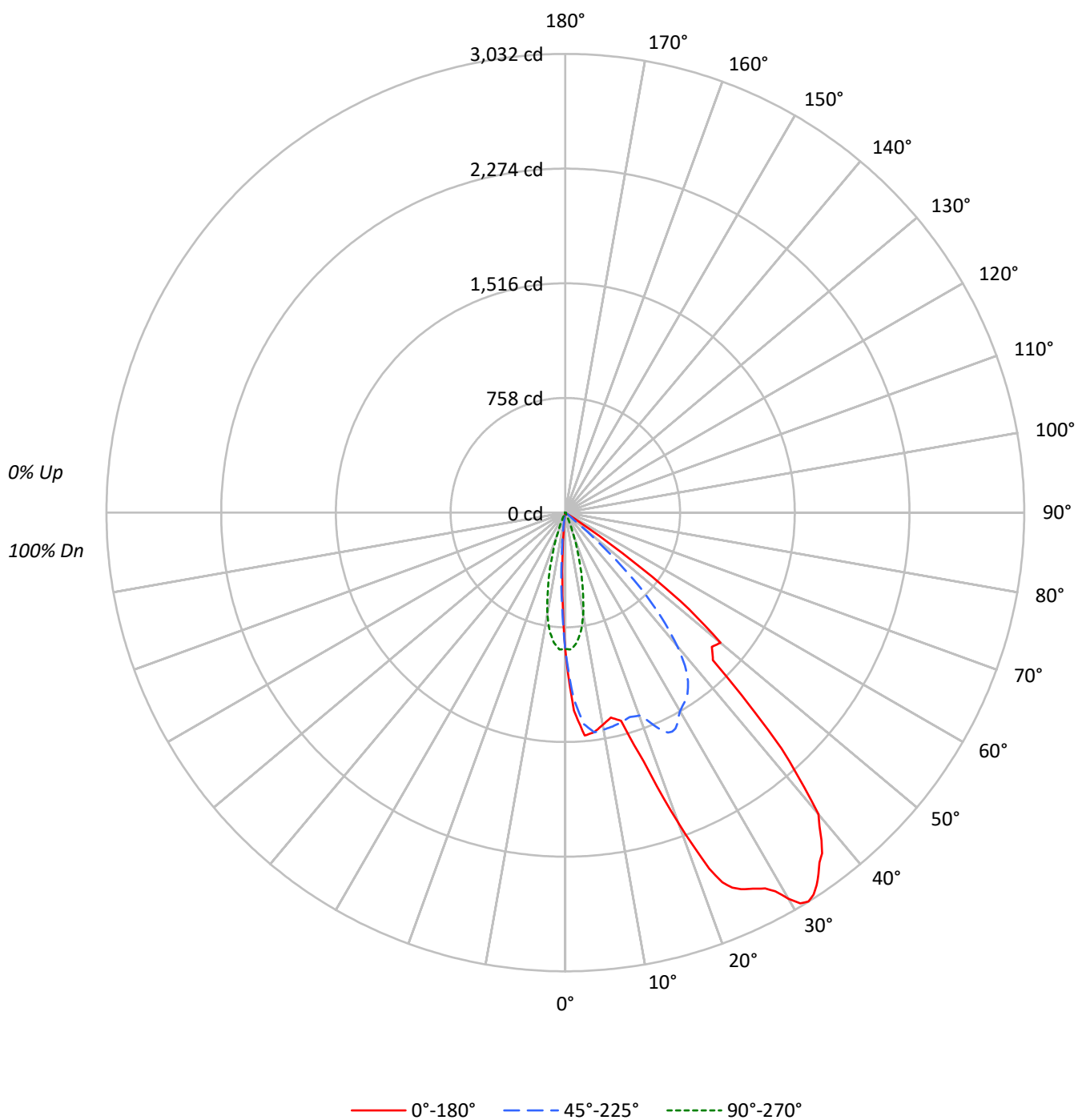
Lumens per Lamp: N/A
Luminaire Lumens: 1451.0 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	155155	155155	155155	155155	155155
5°	255638	242603	149109	44292	22146
10°	249133	254624	119460	2238	2990
15°	254003	255537	71551	2282	767
20°	400384	261626	29471	0	0
25°	521965	304803	7031	0	0
30°	585878	301421	278	0	0
35°	613117	296824	0	0	0
40°	584916	257892	0	0	0
45°	335893	170199	0	0	0
50°	358438	19452	0	0	0
55°	102149	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	705	0	0
75°	0	932	932	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 370893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	5.2
10°-20°	190.6	13.1
20°-30°	366.2	25.2
30°-40°	426.2	29.4
40°-50°	305.0	21.0
50°-60°	84.9	5.9
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	1.0	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°	632.4	43.6
0°-40°	1058.6	73.0
0°-60°	1448.5	99.8
0°-90°	1451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	901	901	901	901	901	
5°	1479	1403	862	256	128	136
15°	1425	1433	401	13	4	460
25°	2747	1604	37	0	0	1249
35°	2916	1412	0	0	0	1804
45°	1379	699	0	0	0	1297
55°	340	0	0	0	0	428
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	3	1	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°	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9
2.5°	1309.4	1316.5	1317.9	1300.8	1303.7	1279.5	1280.9	1263.8	1222.5	1078.8	905.2
5°	1478.7	1474.5	1478.7	1473.0	1478.7	1464.5	1456.0	1448.8	1403.3	1199.8	862.5
7.5°	1463.1	1457.4	1465.9	1468.8	1478.7	1474.5	1475.9	1480.2	1464.5	1265.2	789.9
10°	1424.6	1423.2	1427.5	1427.5	1438.9	1440.3	1446.0	1454.5	1456.0	1288.0	683.1
12.5°	1387.6	1383.4	1383.4	1381.9	1387.6	1386.2	1400.5	1420.4	1447.4	1273.8	536.6
15°	1424.6	1420.4	1414.7	1399.0	1387.6	1374.8	1376.3	1389.1	1433.2	1236.8	401.3
17.5°	1723.5	1700.8	1672.3	1622.5	1569.8	1478.7	1424.6	1390.5	1416.1	1179.9	267.6
20°	2184.6	2174.7	2129.1	2048.0	1962.6	1828.8	1662.3	1528.5	1427.5	1108.7	160.8
21°	2359.7	2354.0	2305.6	2230.2	2133.4	1971.2	1800.4	1639.6	1450.3	1078.8	126.7
22°	2539.0	2517.7	2479.3	2395.3	2294.2	2132.0	1941.3	1763.4	1495.8	1040.4	96.8
23°	2654.3	2641.5	2600.2	2533.3	2436.6	2278.6	2083.6	1890.0	1539.9	997.7	72.6
24°	2714.1	2709.8	2677.1	2630.1	2547.6	2386.7	2201.7	2002.5	1576.9	947.9	52.7
25°	2746.8	2732.6	2712.7	2678.5	2615.9	2476.4	2311.3	2100.7	1604.0	898.1	37.0
26°	2766.7	2758.2	2726.9	2697.0	2637.2	2523.4	2382.5	2160.5	1611.1	836.9	25.6
27°	2789.5	2769.6	2739.7	2704.1	2637.2	2537.6	2409.5	2186.1	1602.5	774.2	17.1
28°	2813.7	2799.5	2758.2	2712.7	2633.0	2537.6	2399.6	2151.9	1576.9	714.5	10.0
29°	2860.7	2842.2	2790.9	2724.0	2634.4	2534.8	2361.1	2080.8	1542.8	647.6	5.7
30°	2946.1	2907.6	2845.0	2751.1	2644.3	2529.1	2297.1	1974.0	1515.7	572.1	1.4
31°	3013.0	2991.6	2919.0	2800.9	2672.8	2513.4	2221.7	1868.7	1497.2	506.7	0.0
32°	3031.5	3015.8	2963.1	2852.1	2721.2	2500.6	2136.3	1766.2	1483.0	434.1	0.0
33°	3010.1	3000.2	2944.6	2843.6	2734.0	2483.5	2038.1	1665.2	1467.3	368.6	0.0
34°	2970.3	2957.5	2909.1	2806.6	2701.3	2409.5	1944.1	1588.3	1444.6	307.4	0.0
35°	2916.2	2906.2	2856.4	2755.4	2641.5	2294.2	1850.2	1537.1	1411.8	246.2	0.0
36°	2857.8	2855.0	2790.9	2691.3	2564.6	2183.2	1736.3	1498.7	1379.1	195.0	0.0
37°	2819.4	2805.2	2735.4	2637.2	2473.6	2053.7	1645.2	1485.8	1333.6	150.9	0.0
38°	2749.7	2752.5	2672.8	2583.1	2381.1	1941.3	1571.2	1475.9	1282.3	109.6	0.0
39°	2667.1	2668.5	2586.0	2509.1	2271.5	1823.1	1510.0	1465.9	1218.3	69.7	0.0
40°	2601.7	2600.2	2506.3	2423.7	2153.3	1712.1	1477.3	1451.7	1147.1	39.9	0.0
42.5°	2114.9	2123.4	2134.8	2169.0	1875.8	1517.2	1446.0	1372.0	945.0	0.0	0.0
45°	1379.1	1411.8	1420.4	1522.8	1521.4	1437.5	1372.0	1229.7	698.8	0.0	0.0
47.5°	1312.2	1322.2	1340.7	1380.5	1401.9	1360.6	1226.8	1027.6	381.4	0.0	0.0
50°	1337.8	1336.4	1340.7	1340.7	1302.2	1195.5	1006.2	758.6	72.6	0.0	0.0
52.5°	960.7	996.3	1034.7	1051.8	1001.9	889.5	734.4	445.5	0.0	0.0	0.0
55°	340.2	328.8	320.2	350.1	343.0	385.7	318.8	103.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	5.7	12.8	17.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8



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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	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
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):

	112.5°	135°	157.5°	180°
0°	900.9	900.9	900.9	900.9
2.5°	721.6	553.6	448.3	455.4
5°	506.7	256.2	158.0	128.1
7.5°	303.1	78.3	15.7	12.8
10°	142.3	12.8	14.2	17.1
12.5°	42.7	11.4	15.7	14.2
15°	11.4	12.8	7.1	4.3
17.5°	4.3	5.7	0.0	0.0
20°	2.8	0.0	0.0	0.0
21°	2.8	0.0	0.0	0.0
22°	1.4	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°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	1.4	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	1.4	0.0	0.0
85°	1.4	1.4	0.0	0.0
87.5°	1.4	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)