

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: P1317456

Luminaire Tested: P3SQAS20R509830D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317456
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: P3SQAS20R509830D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

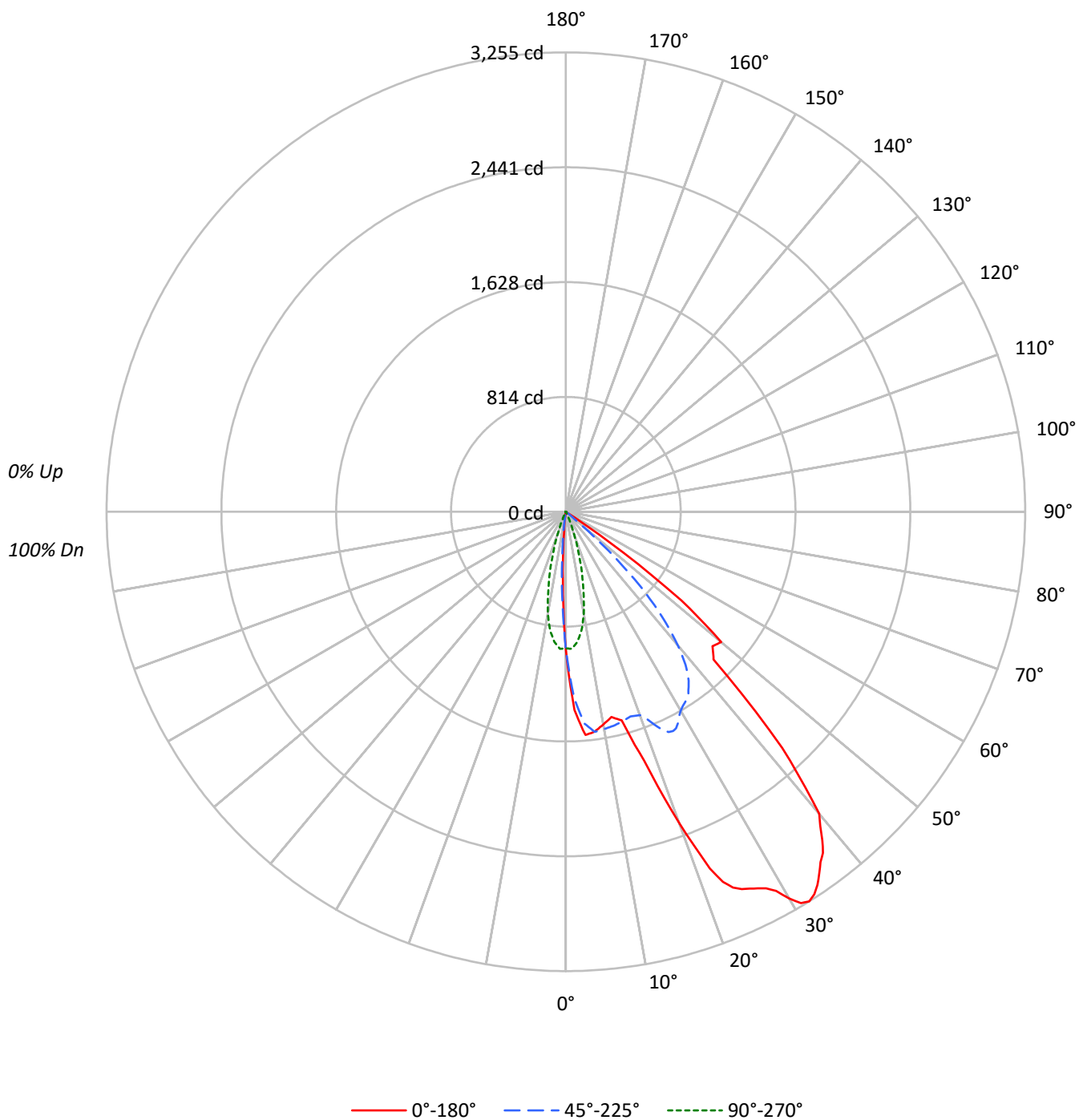
Lumens per Lamp: N/A
Luminaire Lumens: 1558.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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°	166591	166591	166591	166591	166591
5°	274500	260496	160105	47559	23771
10°	267513	273389	128274	2413	3200
15°	272742	274383	76829	2461	820
20°	429909	280925	31652	0	0
25°	560465	327283	7544	0	0
30°	629071	323654	298	0	0
35°	658319	318710	0	0	0
40°	628037	276912	0	0	0
45°	360663	182743	0	0	0
50°	384883	20872	0	0	0
55°	109655	0	0	0	0
60°	0	0	517	0	0
65°	0	611	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	3075	1488	0
85°	0	2964	6126	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 398244 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	5.2
10°-20°	204.7	13.1
20°-30°	393.2	25.2
30°-40°	457.6	29.4
40°-50°	327.5	21.0
50°-60°	91.1	5.9
60°-70°	0.6	0.0
70°-80°	0.9	0.1
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°	679.1	43.6
0°-40°	1136.7	73.0
0°-60°	1555.3	99.8
0°-90°	1558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	967	967	967	967	967	
5°	1588	1507	926	275	138	146
15°	1530	1539	431	14	5	494
25°	2949	1722	40	0	0	1342
35°	3131	1516	0	0	0	1937
45°	1481	750	0	0	0	1393
55°	365	0	0	0	0	460
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	3	2	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°	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3
2.5°	1405.9	1413.6	1415.1	1396.8	1399.8	1373.8	1375.4	1357.0	1312.7	1158.4	971.9
5°	1587.8	1583.2	1587.8	1581.7	1587.8	1572.5	1563.3	1555.7	1506.8	1288.3	926.1
7.5°	1571.0	1564.9	1574.0	1577.1	1587.8	1583.2	1584.7	1589.3	1572.5	1358.5	848.1
10°	1529.7	1528.2	1532.8	1532.8	1545.0	1546.5	1552.6	1561.8	1563.3	1383.0	733.5
12.5°	1490.0	1485.4	1485.4	1483.9	1490.0	1488.4	1503.7	1525.1	1554.2	1367.7	576.1
15°	1529.7	1525.1	1519.0	1502.2	1490.0	1476.2	1477.7	1491.5	1538.9	1328.0	430.9
17.5°	1850.6	1826.2	1795.6	1742.1	1685.6	1587.8	1529.7	1493.0	1520.5	1266.9	287.3
20°	2345.7	2335.1	2286.1	2199.0	2107.4	1963.7	1784.9	1641.3	1532.8	1190.4	172.7
21°	2533.7	2527.6	2475.6	2394.6	2290.7	2116.5	1933.1	1760.5	1557.2	1158.4	136.0
22°	2726.3	2703.3	2662.1	2571.9	2463.4	2289.2	2084.4	1893.4	1606.1	1117.1	103.9
23°	2850.0	2836.3	2792.0	2720.2	2616.2	2446.6	2237.2	2029.4	1653.5	1071.3	77.9
24°	2914.2	2909.6	2874.5	2824.1	2735.4	2562.7	2364.1	2150.1	1693.2	1017.8	56.5
25°	2949.4	2934.1	2912.7	2876.0	2808.8	2659.0	2481.8	2255.6	1722.3	964.3	39.7
26°	2970.8	2961.6	2928.0	2895.9	2831.7	2709.5	2558.2	2319.8	1729.9	898.6	27.5
27°	2995.2	2973.8	2941.7	2903.5	2831.7	2724.7	2587.2	2347.3	1720.7	831.3	18.3
28°	3021.2	3005.9	2961.6	2912.7	2827.1	2724.7	2576.5	2310.6	1693.2	767.1	10.7
29°	3071.6	3051.8	2996.7	2924.9	2828.7	2721.7	2535.2	2234.2	1656.5	695.3	6.1
30°	3163.3	3122.1	3054.8	2954.0	2839.3	2715.6	2466.5	2119.6	1627.5	614.3	1.5
31°	3235.1	3212.2	3134.3	3007.4	2869.9	2698.8	2385.5	2006.5	1607.6	544.0	0.0
32°	3255.0	3238.2	3181.7	3062.5	2921.9	2685.0	2293.8	1896.5	1592.4	466.1	0.0
33°	3232.1	3221.4	3161.8	3053.3	2935.6	2666.7	2188.3	1788.0	1575.5	395.8	0.0
34°	3189.3	3175.5	3123.6	3013.6	2900.5	2587.2	2087.5	1705.4	1551.1	330.1	0.0
35°	3131.2	3120.5	3067.0	2958.5	2836.3	2463.4	1986.6	1650.4	1515.9	264.4	0.0
36°	3068.6	3065.5	2996.7	2889.8	2753.8	2344.2	1864.4	1609.2	1480.8	209.4	0.0
37°	3027.3	3012.0	2937.2	2831.7	2656.0	2205.2	1766.6	1595.4	1431.9	162.0	0.0
38°	2952.4	2955.5	2869.9	2773.6	2556.6	2084.4	1687.1	1584.7	1376.9	117.7	0.0
39°	2863.8	2865.3	2776.7	2694.2	2439.0	1957.6	1621.4	1574.0	1308.1	74.9	0.0
40°	2793.5	2792.0	2691.1	2602.5	2312.1	1838.4	1586.2	1558.7	1231.7	42.8	0.0
42.5°	2270.9	2280.0	2292.3	2328.9	2014.1	1629.0	1552.6	1473.2	1014.7	0.0	0.0
45°	1480.8	1515.9	1525.1	1635.1	1633.6	1543.5	1473.2	1320.3	750.3	0.0	0.0
47.5°	1409.0	1419.7	1439.5	1482.3	1505.3	1460.9	1317.3	1103.3	409.6	0.0	0.0
50°	1436.5	1435.0	1439.5	1439.5	1398.3	1283.7	1080.4	814.5	77.9	0.0	0.0
52.5°	1031.5	1069.7	1111.0	1129.3	1075.8	955.1	788.5	478.3	0.0	0.0	0.0
55°	365.2	353.0	343.8	375.9	368.3	414.1	342.3	111.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	6.1	13.8	18.3	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	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.1



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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	1.5	1.5	1.5	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.1
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°	967.3	967.3	967.3	967.3
2.5°	774.8	594.5	481.4	489.0
5°	544.0	275.1	169.6	137.5
7.5°	325.5	84.0	16.8	13.8
10°	152.8	13.8	15.3	18.3
12.5°	45.8	12.2	16.8	15.3
15°	12.2	13.8	7.6	4.6
17.5°	4.6	6.1	0.0	0.0
20°	3.1	0.0	0.0	0.0
21°	3.1	0.0	0.0	0.0
22°	1.5	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°	1.5	0.0	0.0	0.0
67.5°	1.5	0.0	0.0	0.0
70°	1.5	0.0	0.0	0.0
72.5°	1.5	0.0	0.0	0.0
75°	1.5	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0
80°	1.5	1.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.5	1.5	0.0	0.0
85°	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)