

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: P1312789

Luminaire Tested: P3SQAS20R509727D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312789
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: P3SQAS20R509727D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

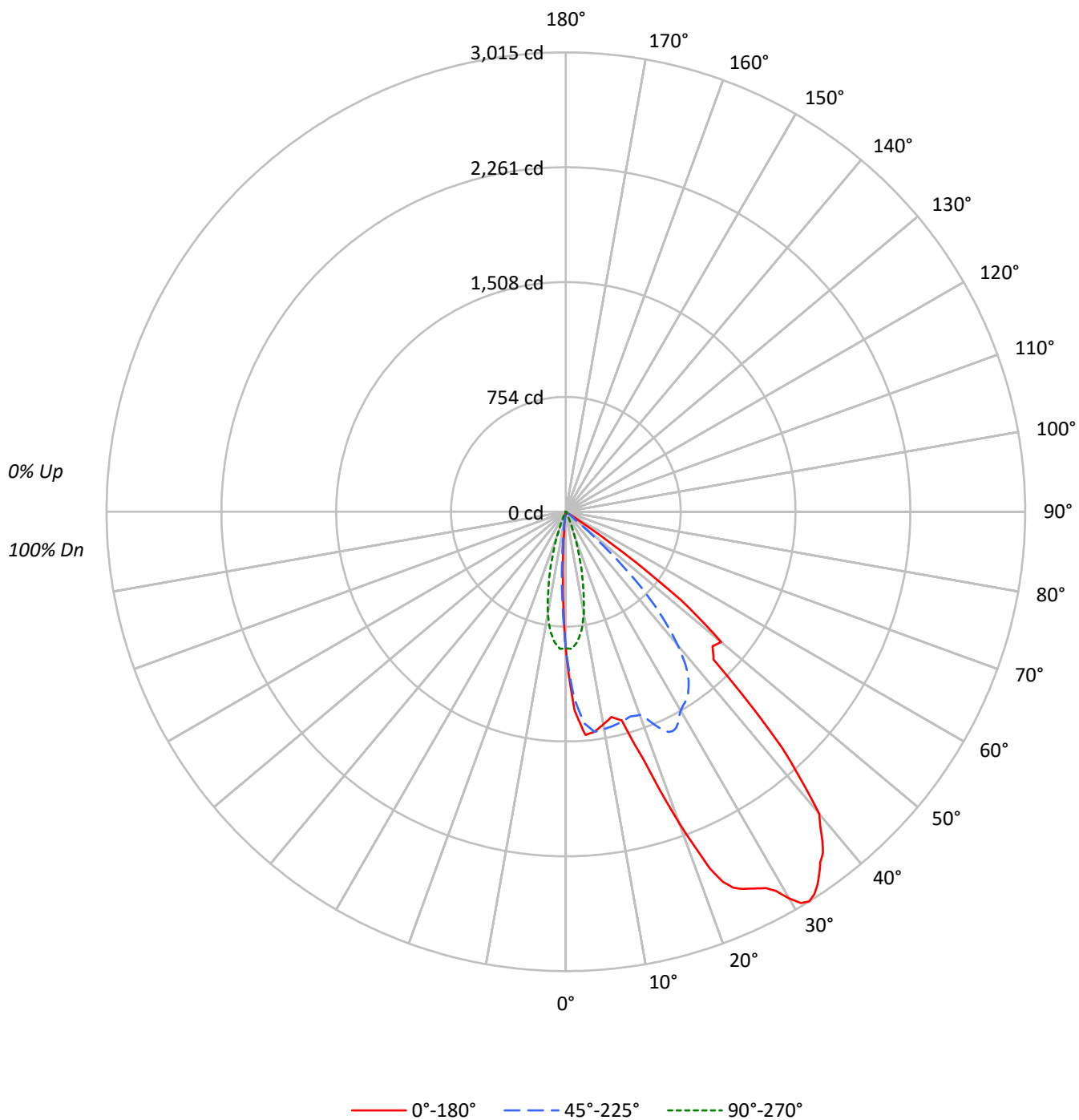
Lumens per Lamp: N/A
Luminaire Lumens: 1443.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	154294	154294	154294	154294	154294
5°	254238	241272	148280	44050	22025
10°	247769	253208	118813	2221	2973
15°	252613	254128	71159	2264	749
20°	398184	260178	29306	0	0
25°	519096	303112	6993	0	0
30°	582636	299770	278	0	0
35°	609732	295205	0	0	0
40°	581679	256475	0	0	0
45°	334042	169250	0	0	0
50°	356482	19345	0	0	0
55°	101578	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: 368871 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	5.2
10°-20°	189.6	13.1
20°-30°	364.1	25.2
30°-40°	423.8	29.4
40°-50°	303.3	21.0
50°-60°	84.4	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°	628.9	43.6
0°-40°	1052.8	73.0
0°-60°	1440.5	99.8
0°-90°	1443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	896	896	896	896	896	
5°	1471	1396	858	255	127	135
15°	1417	1425	399	13	4	457
25°	2732	1595	37	0	0	1243
35°	2900	1404	0	0	0	1794
45°	1372	695	0	0	0	1290
55°	338	0	0	0	0	426
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°	895.9	895.9	895.9	895.9	895.9	895.9	895.9	895.9	895.9	895.9	895.9
2.5°	1302.1	1309.2	1310.6	1293.7	1296.5	1272.4	1273.8	1256.9	1215.8	1072.9	900.2
5°	1470.6	1466.3	1470.6	1464.9	1470.6	1456.4	1447.9	1440.9	1395.6	1193.2	857.7
7.5°	1455.0	1449.3	1457.8	1460.7	1470.6	1466.3	1467.7	1472.0	1456.4	1258.3	785.5
10°	1416.8	1415.4	1419.6	1419.6	1430.9	1432.4	1438.0	1446.5	1447.9	1280.9	679.4
12.5°	1380.0	1375.7	1375.7	1374.3	1380.0	1378.6	1392.7	1412.5	1439.4	1266.8	533.6
15°	1416.8	1412.5	1406.9	1391.3	1380.0	1367.3	1368.7	1381.4	1425.3	1230.0	399.1
17.5°	1714.0	1691.4	1663.1	1613.5	1561.2	1470.6	1416.8	1382.8	1408.3	1173.3	266.1
20°	2172.6	2162.7	2117.4	2036.7	1951.8	1818.8	1653.2	1520.1	1419.6	1102.6	159.9
21°	2346.7	2341.0	2292.9	2217.9	2121.6	1960.3	1790.5	1630.5	1442.3	1072.9	126.0
22°	2525.0	2503.8	2465.6	2382.1	2281.6	2120.2	1930.6	1753.7	1487.6	1034.6	96.2
23°	2639.7	2626.9	2585.9	2519.4	2423.1	2266.0	2072.1	1879.6	1531.4	992.2	72.2
24°	2699.1	2694.9	2662.3	2615.6	2533.5	2373.6	2189.6	1991.4	1568.2	942.6	52.4
25°	2731.7	2717.5	2697.7	2663.7	2601.5	2462.8	2298.6	2089.1	1595.1	893.1	36.8
26°	2751.5	2743.0	2711.9	2682.1	2622.7	2509.5	2369.3	2148.5	1602.2	832.2	25.5
27°	2774.1	2754.3	2724.6	2689.2	2622.7	2523.6	2396.2	2174.0	1593.7	770.0	17.0
28°	2798.2	2784.0	2743.0	2697.7	2618.4	2523.6	2386.3	2140.0	1568.2	710.5	9.9
29°	2844.9	2826.5	2775.6	2709.0	2619.9	2520.8	2348.1	2069.3	1534.3	644.0	5.7
30°	2929.8	2891.6	2829.3	2735.9	2629.8	2515.1	2284.4	1963.1	1507.4	569.0	1.4
31°	2996.4	2975.1	2902.9	2785.5	2658.1	2499.6	2209.4	1858.4	1489.0	503.9	0.0
32°	3014.8	2999.2	2946.8	2836.4	2706.2	2486.8	2124.5	1756.5	1474.8	431.7	0.0
33°	2993.5	2983.6	2928.4	2827.9	2718.9	2469.8	2026.8	1656.0	1459.3	366.6	0.0
34°	2953.9	2941.2	2893.0	2791.1	2686.4	2396.2	1933.4	1579.6	1436.6	305.7	0.0
35°	2900.1	2890.2	2840.7	2740.2	2626.9	2281.6	1840.0	1528.6	1404.1	244.9	0.0
36°	2842.1	2839.2	2775.6	2676.5	2550.5	2171.2	1726.8	1490.4	1371.5	193.9	0.0
37°	2803.9	2789.7	2720.4	2622.7	2459.9	2042.4	1636.2	1477.7	1326.2	150.0	0.0
38°	2734.5	2737.3	2658.1	2568.9	2367.9	1930.6	1562.6	1467.7	1275.3	109.0	0.0
39°	2652.4	2653.8	2571.7	2495.3	2258.9	1813.1	1501.7	1457.8	1211.6	69.4	0.0
40°	2587.3	2585.9	2492.5	2410.4	2141.5	1702.7	1469.2	1443.7	1140.8	39.6	0.0
42.5°	2103.2	2111.7	2123.1	2157.0	1865.5	1508.8	1438.0	1364.4	939.8	0.0	0.0
45°	1371.5	1404.1	1412.5	1514.5	1513.0	1429.5	1364.4	1222.9	694.9	0.0	0.0
47.5°	1305.0	1314.9	1333.3	1372.9	1394.1	1353.1	1220.1	1021.9	379.3	0.0	0.0
50°	1330.5	1329.0	1333.3	1333.3	1295.1	1188.9	1000.7	754.4	72.2	0.0	0.0
52.5°	955.4	990.8	1029.0	1046.0	996.4	884.6	730.3	443.0	0.0	0.0	0.0
55°	338.3	327.0	318.5	348.2	341.1	383.6	317.0	103.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	5.7	12.7	17.0	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°	895.9	895.9	895.9	895.9
2.5°	717.6	550.6	445.8	452.9
5°	503.9	254.8	157.1	127.4
7.5°	301.5	77.8	15.6	12.7
10°	141.5	12.7	14.2	17.0
12.5°	42.5	11.3	15.6	14.2
15°	11.3	12.7	7.1	4.2
17.5°	4.2	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)