

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: P1312077

Luminaire Tested: P3SQAS05R209727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R209727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

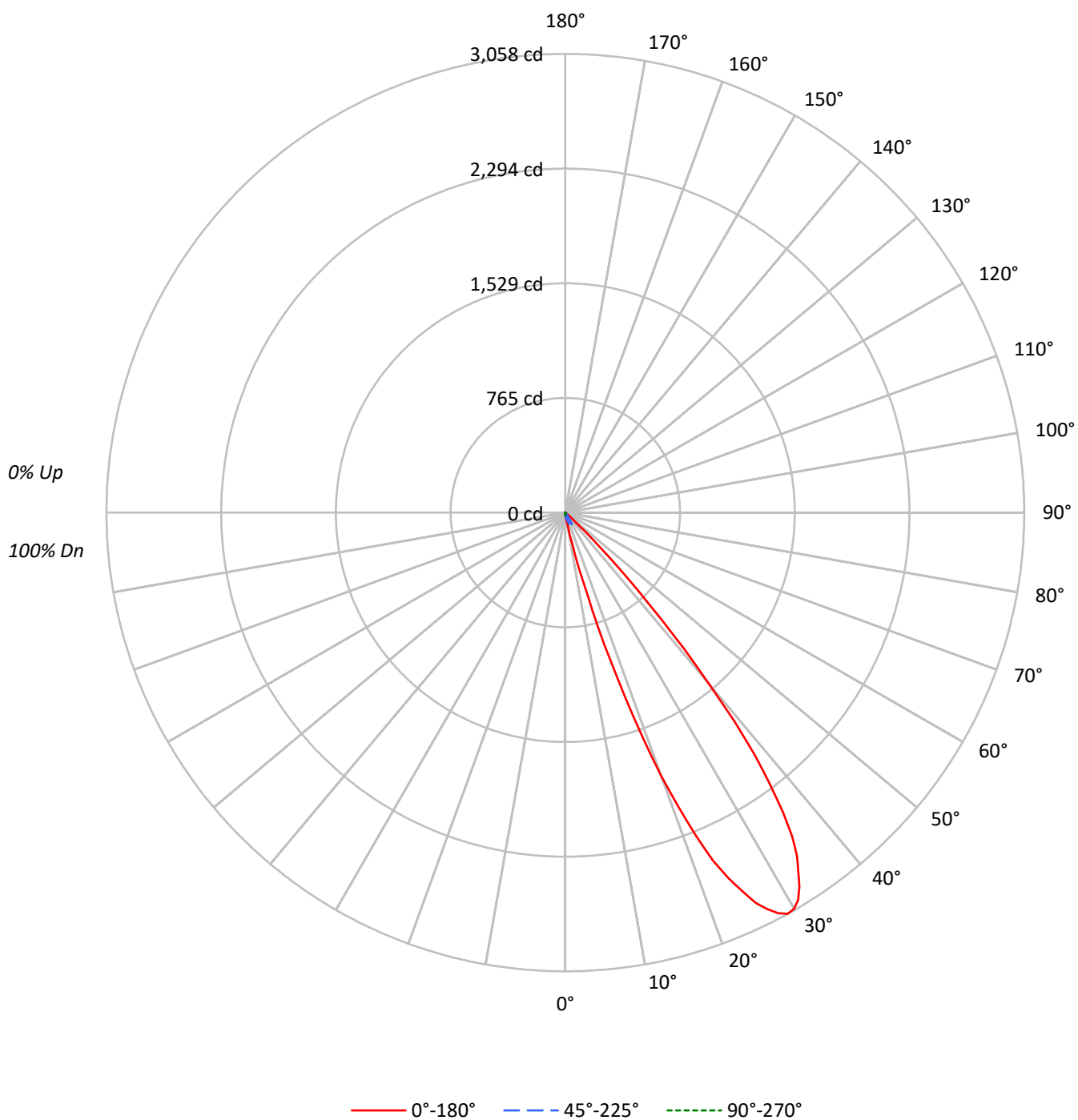
Lumens per Lamp: N/A
Luminaire Lumens: 422.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2601	2601	2601	2601	2601
5°	5653	3994	2386	1089	795
10°	14095	7048	1696	227	0
15°	99152	9646	981	0	0
20°	342670	16238	385	0	0
25°	528198	20732	152	0	0
30°	606281	16029	0	0	0
35°	553701	6097	0	0	0
40°	331948	2833	0	0	0
45°	81568	1340	0	0	0
50°	9002	348	0	0	0
55°	1261	0	120	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	201	655	0	0
75°	0	266	865	0	0
80°	0	397	1289	0	0
85°	0	790	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 86999 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.4
10°-20°	33.0	7.8
20°-30°	166.7	39.5
30°-40°	180.4	42.7
40°-50°	38.1	9.0
50°-60°	1.1	0.3
60°-70°	0.3	0.1
70°-80°	0.4	0.1
80°-90°	0.3	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°	201.4	47.7
0°-40°	381.7	90.5
0°-60°	421.0	99.8
0°-90°	422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	422.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	33	23	14	6	5	5
15°	556	54	6	0	0	232
25°	2780	109	1	0	0	1256
35°	2634	29	0	0	0	1553
45°	335	6	0	0	0	368
55°	4	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	20.6	20.1	20.6	20.1	20.6	20.6	20.6	20.1	20.1	20.1	20.1
5°	32.7	32.7	32.3	32.7	32.7	32.7	32.7	32.3	32.3	31.9	31.9
7.5°	51.6	51.6	51.2	51.2	51.6	52.0	50.4	51.2	51.2	51.2	50.8
10°	80.6	82.3	80.6	82.7	81.0	79.7	81.8	79.7	79.7	79.3	78.1
12.5°	203.1	198.5	195.6	188.4	195.6	190.1	191.4	190.1	185.9	180.5	177.1
15°	556.1	556.1	539.7	561.6	545.6	551.5	521.3	521.7	506.2	489.4	480.1
17.5°	1162.6	1173.0	1162.1	1155.4	1141.1	1120.6	1112.2	1090.8	1062.7	1029.9	1026.2
20°	1869.7	1825.7	1846.2	1827.3	1815.6	1790.4	1762.3	1744.7	1719.9	1678.4	1617.1
21°	2092.2	2090.5	2090.1	2089.7	2072.4	2031.3	2005.7	1970.5	1935.6	1892.8	1841.6
22°	2316.3	2324.3	2327.6	2303.3	2268.0	2249.6	2231.9	2183.7	2128.7	2106.4	2045.6
23°	2521.9	2514.4	2492.6	2481.2	2453.9	2448.5	2396.0	2365.4	2311.7	2287.3	2215.1
24°	2662.1	2658.3	2648.3	2631.5	2609.7	2576.1	2544.6	2496.3	2452.3	2412.4	2345.2
25°	2779.6	2783.0	2764.5	2753.2	2729.7	2691.9	2653.3	2600.4	2559.3	2512.7	2435.1
26°	2895.9	2872.4	2857.7	2840.9	2815.3	2772.1	2734.7	2687.3	2637.4	2585.3	2509.3
27°	2967.7	2946.7	2924.4	2908.1	2878.7	2837.6	2797.7	2745.2	2689.4	2636.9	2558.9
28°	3024.3	3001.2	2979.4	2959.7	2926.1	2882.0	2834.2	2780.9	2723.0	2668.8	2589.1
29°	3057.9	3030.6	3007.1	2984.9	2954.2	2906.4	2858.1	2801.0	2745.2	2688.6	2607.1
30°	3048.7	3025.2	3002.5	2979.8	2948.8	2903.9	2856.0	2801.5	2745.2	2689.4	2606.7
31°	3012.6	2983.6	2967.2	2944.6	2917.7	2872.0	2830.8	2771.2	2720.5	2660.0	2577.3
32°	2943.3	2924.8	2903.0	2885.4	2859.4	2810.7	2770.4	2721.7	2661.7	2612.2	2525.3
33°	2849.3	2832.1	2821.2	2800.6	2775.4	2741.9	2693.6	2649.1	2581.5	2530.8	2443.9
34°	2759.5	2737.7	2710.4	2704.5	2682.7	2639.5	2595.8	2550.5	2490.0	2425.4	2337.7
35°	2633.6	2610.9	2585.7	2587.8	2561.8	2511.4	2467.0	2416.2	2358.7	2282.7	2199.6
36°	2465.3	2450.2	2446.4	2436.3	2406.5	2346.5	2304.1	2240.3	2192.1	2099.3	2028.0
37°	2260.1	2265.5	2238.2	2225.2	2190.4	2148.4	2124.5	2042.6	1986.4	1916.7	1820.2
38°	2052.7	2044.7	2012.4	2020.4	1972.6	1928.9	1861.3	1812.7	1749.7	1685.1	1607.8
39°	1793.8	1774.0	1735.4	1737.1	1701.0	1651.9	1586.4	1528.9	1491.2	1429.1	1355.2
40°	1476.5	1468.1	1454.7	1432.4	1385.0	1363.6	1305.2	1243.1	1211.2	1125.2	1089.1
42.5°	819.2	807.9	785.2	777.3	752.1	726.9	692.9	651.4	631.2	605.6	548.5
45°	334.9	357.2	351.7	345.4	326.1	327.4	303.0	306.0	283.7	268.6	258.1
47.5°	73.9	80.2	80.6	77.6	80.6	78.1	76.8	74.7	75.1	76.4	73.4
50°	33.6	33.2	34.0	33.6	33.2	32.7	32.3	31.1	31.9	31.1	30.2
52.5°	13.0	13.4	13.4	12.6	13.0	13.0	13.0	12.6	12.6	12.6	12.6
55°	4.2	4.2	4.2	3.8	3.8	4.2	4.2	4.2	4.2	4.2	3.8
57.5°	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	19.3	17.6	16.4	15.1	12.6	10.5	9.7	9.7
5°	29.8	23.1	17.2	13.8	9.7	6.3	5.0	4.6
7.5°	44.9	31.1	18.0	11.8	6.3	3.4	2.1	1.7
10°	65.1	40.3	18.9	9.7	3.8	1.3	0.0	0.0
12.5°	113.7	48.3	18.9	7.6	1.7	0.0	0.0	0.0
15°	260.6	54.1	18.0	5.5	0.4	0.0	0.0	0.0
17.5°	541.4	68.0	15.9	3.8	0.0	0.0	0.0	0.0
20°	864.6	88.6	12.6	2.1	0.0	0.0	0.0	0.0
21°	997.6	95.7	11.3	1.7	0.0	0.0	0.0	0.0
22°	1093.3	102.4	10.1	1.3	0.0	0.0	0.0	0.0
23°	1198.6	106.6	8.8	0.8	0.0	0.0	0.0	0.0
24°	1276.3	109.1	7.6	0.8	0.0	0.0	0.0	0.0
25°	1324.6	109.1	6.7	0.8	0.0	0.0	0.0	0.0
26°	1353.1	106.6	5.9	0.4	0.0	0.0	0.0	0.0
27°	1359.8	102.4	5.0	0.4	0.0	0.0	0.0	0.0
28°	1351.4	96.9	4.2	0.0	0.0	0.0	0.0	0.0
29°	1325.0	89.0	3.8	0.0	0.0	0.0	0.0	0.0
30°	1296.4	80.6	2.9	0.0	0.0	0.0	0.0	0.0
31°	1247.7	69.2	2.5	0.0	0.0	0.0	0.0	0.0
32°	1191.5	57.5	2.1	0.0	0.0	0.0	0.0	0.0
33°	1116.4	45.3	1.7	0.0	0.0	0.0	0.0	0.0
34°	1005.6	35.7	1.7	0.0	0.0	0.0	0.0	0.0
35°	906.1	29.0	1.3	0.0	0.0	0.0	0.0	0.0
36°	776.0	23.1	1.3	0.0	0.0	0.0	0.0	0.0
37°	664.8	19.3	1.3	0.0	0.0	0.0	0.0	0.0
38°	556.5	16.4	0.8	0.0	0.0	0.0	0.0	0.0
39°	451.6	14.3	0.8	0.0	0.0	0.0	0.0	0.0
40°	360.1	12.6	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	194.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	107.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	47.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	15.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.8	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)