

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: P1305556

Luminaire Tested: P3SQAS05R209024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305556
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: P3SQAS05R209024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

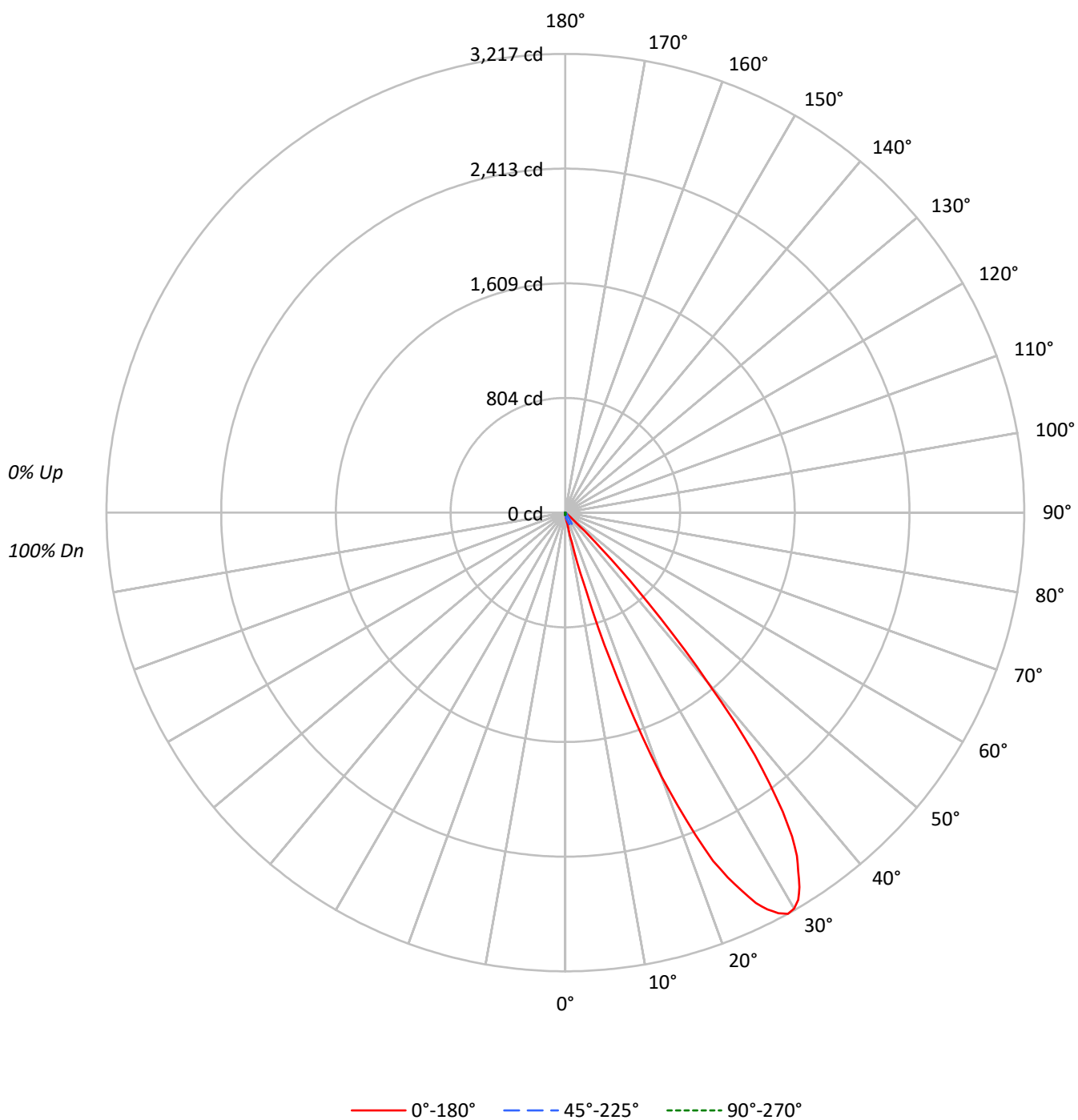
Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0		
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°	2738	2738	2738	2738	2738
5°	5947	4201	2524	1141	847
10°	14830	7415	1784	227	0
15°	104322	10163	1016	0	0
20°	360540	17081	403	0	0
25°	555733	21815	171	0	0
30°	637881	16864	0	0	0
35°	582568	6412	0	0	0
40°	349259	2968	0	0	0
45°	85830	1388	0	0	0
50°	9458	348	0	0	0
55°	1321	0	120	0	0
60°	0	0	310	0	0
65°	0	0	367	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: 91530 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	34.7	7.8
20°-30°	175.4	39.5
30°-40°	189.8	42.7
40°-50°	40.1	9.0
50°-60°	1.2	0.3
60°-70°	0.3	0.1
70°-80°	0.4	0.1
80°-90°	0.4	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°	211.9	47.7
0°-40°	401.6	90.5
0°-60°	442.9	99.8
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	34	24	15	7	5	5
15°	585	57	6	0	0	244
25°	2924	115	1	0	0	1322
35°	2771	30	0	0	0	1634
45°	352	6	0	0	0	388
55°	4	0	0	0	0	8
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°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	21.6	21.2	21.6	21.2	21.6	21.6	21.6	21.2	21.2	21.2	21.2
5°	34.4	34.4	34.0	34.4	34.4	34.4	34.4	34.0	34.0	33.6	33.6
7.5°	54.3	54.3	53.9	53.9	54.3	54.8	53.0	53.9	53.9	53.9	53.4
10°	84.8	86.5	84.8	87.0	85.2	83.9	86.1	83.9	83.9	83.5	82.1
12.5°	213.7	208.9	205.8	198.3	205.8	200.0	201.4	200.0	195.6	189.9	186.3
15°	585.1	585.1	567.9	590.8	574.0	580.2	548.4	548.9	532.5	514.9	505.2
17.5°	1223.2	1234.2	1222.7	1215.7	1200.6	1179.0	1170.2	1147.6	1118.1	1083.6	1079.6
20°	1967.2	1920.8	1942.5	1922.6	1910.2	1883.8	1854.2	1835.6	1809.6	1765.9	1701.4
21°	2201.2	2199.5	2199.0	2198.6	2180.5	2137.2	2110.3	2073.2	2036.5	1991.5	1937.6
22°	2437.0	2445.4	2449.0	2423.4	2386.3	2366.8	2348.3	2297.5	2239.7	2216.3	2152.2
23°	2653.4	2645.5	2622.5	2610.6	2581.9	2576.1	2520.9	2488.7	2432.2	2406.6	2330.6
24°	2800.9	2796.9	2786.3	2768.7	2745.7	2710.4	2677.3	2626.5	2580.1	2538.2	2467.5
25°	2924.5	2928.1	2908.6	2896.7	2872.0	2832.3	2791.6	2736.0	2692.7	2643.7	2562.0
26°	3046.9	3022.1	3006.7	2989.0	2962.1	2916.6	2877.3	2827.4	2774.8	2720.1	2640.2
27°	3122.4	3100.3	3076.9	3059.7	3028.8	2985.5	2943.5	2888.3	2829.6	2774.4	2692.3
28°	3182.0	3157.7	3134.7	3114.0	3078.7	3032.3	2981.9	2925.9	2864.9	2808.0	2724.1
29°	3217.3	3188.6	3163.9	3140.5	3108.2	3057.9	3007.1	2947.1	2888.3	2828.7	2743.1
30°	3207.6	3182.9	3159.0	3135.2	3102.5	3055.2	3004.9	2947.5	2888.3	2829.6	2742.6
31°	3169.6	3139.1	3121.9	3098.1	3069.8	3021.7	2978.4	2915.7	2862.3	2798.7	2711.7
32°	3096.8	3077.3	3054.4	3035.8	3008.4	2957.2	2914.8	2863.6	2800.5	2748.4	2656.9
33°	2997.8	2979.7	2968.3	2946.6	2920.1	2884.8	2834.0	2787.2	2716.1	2662.7	2571.3
34°	2903.3	2880.4	2851.7	2845.5	2822.5	2777.1	2731.1	2683.4	2619.9	2551.9	2459.6
35°	2770.9	2747.0	2720.5	2722.7	2695.4	2642.4	2595.6	2542.1	2481.6	2401.7	2314.3
36°	2593.8	2577.9	2573.9	2563.3	2532.0	2468.8	2424.2	2357.1	2306.3	2208.8	2133.7
37°	2377.9	2383.6	2354.9	2341.2	2304.6	2260.4	2235.2	2149.1	2090.0	2016.7	1915.1
38°	2159.7	2151.3	2117.3	2125.7	2075.4	2029.5	1958.4	1907.2	1840.9	1772.9	1691.7
39°	1887.3	1866.5	1825.9	1827.7	1789.7	1738.0	1669.1	1608.7	1568.9	1503.6	1425.8
40°	1553.5	1544.6	1530.5	1507.1	1457.2	1434.7	1373.3	1307.9	1274.4	1183.9	1145.9
42.5°	862.0	850.0	826.2	817.8	791.3	764.8	729.0	685.3	664.1	637.2	577.1
45°	352.4	375.8	370.0	363.4	343.1	344.4	318.8	321.9	298.5	282.6	271.6
47.5°	77.7	84.3	84.8	81.7	84.8	82.1	80.8	78.6	79.0	80.4	77.3
50°	35.3	34.9	35.8	35.3	34.9	34.4	34.0	32.7	33.6	32.7	31.8
52.5°	13.7	14.1	14.1	13.2	13.7	13.7	13.7	13.2	13.2	13.2	13.2
55°	4.4	4.4	4.4	4.0	4.0	4.4	4.4	4.4	4.4	4.4	4.0
57.5°	0.4	0.9	0.4	0.9	0.4	0.4	0.4	0.4	0.4	0.9	0.9
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°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	20.3	18.5	17.2	15.9	13.2	11.0	10.2	10.2
5°	31.4	24.3	18.1	14.6	10.2	6.6	5.3	4.9
7.5°	47.2	32.7	19.0	12.4	6.6	3.5	2.2	1.8
10°	68.4	42.4	19.9	10.2	4.0	1.3	0.0	0.0
12.5°	119.7	50.8	19.9	7.9	1.8	0.0	0.0	0.0
15°	274.2	57.0	19.0	5.7	0.4	0.0	0.0	0.0
17.5°	569.6	71.5	16.8	4.0	0.0	0.0	0.0	0.0
20°	909.6	93.2	13.2	2.2	0.0	0.0	0.0	0.0
21°	1049.6	100.7	11.9	1.8	0.0	0.0	0.0	0.0
22°	1150.3	107.7	10.6	1.3	0.0	0.0	0.0	0.0
23°	1261.1	112.2	9.3	0.9	0.0	0.0	0.0	0.0
24°	1342.8	114.8	7.9	0.9	0.0	0.0	0.0	0.0
25°	1393.6	114.8	7.1	0.9	0.0	0.0	0.0	0.0
26°	1423.6	112.2	6.2	0.4	0.0	0.0	0.0	0.0
27°	1430.7	107.7	5.3	0.4	0.0	0.0	0.0	0.0
28°	1421.9	102.0	4.4	0.0	0.0	0.0	0.0	0.0
29°	1394.0	93.6	4.0	0.0	0.0	0.0	0.0	0.0
30°	1364.0	84.8	3.1	0.0	0.0	0.0	0.0	0.0
31°	1312.8	72.9	2.6	0.0	0.0	0.0	0.0	0.0
32°	1253.6	60.5	2.2	0.0	0.0	0.0	0.0	0.0
33°	1174.6	47.7	1.8	0.0	0.0	0.0	0.0	0.0
34°	1058.0	37.5	1.8	0.0	0.0	0.0	0.0	0.0
35°	953.4	30.5	1.3	0.0	0.0	0.0	0.0	0.0
36°	816.5	24.3	1.3	0.0	0.0	0.0	0.0	0.0
37°	699.5	20.3	1.3	0.0	0.0	0.0	0.0	0.0
38°	585.5	17.2	0.9	0.0	0.0	0.0	0.0	0.0
39°	475.1	15.0	0.9	0.0	0.0	0.0	0.0	0.0
40°	378.9	13.2	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	204.4	8.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	113.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	49.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	16.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.9	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.9	0.9	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.9	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	0.9	1.3	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.9	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)