

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: P1313049

Luminaire Tested: P3SQAS05R209730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313049
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: P3SQAS05R209730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

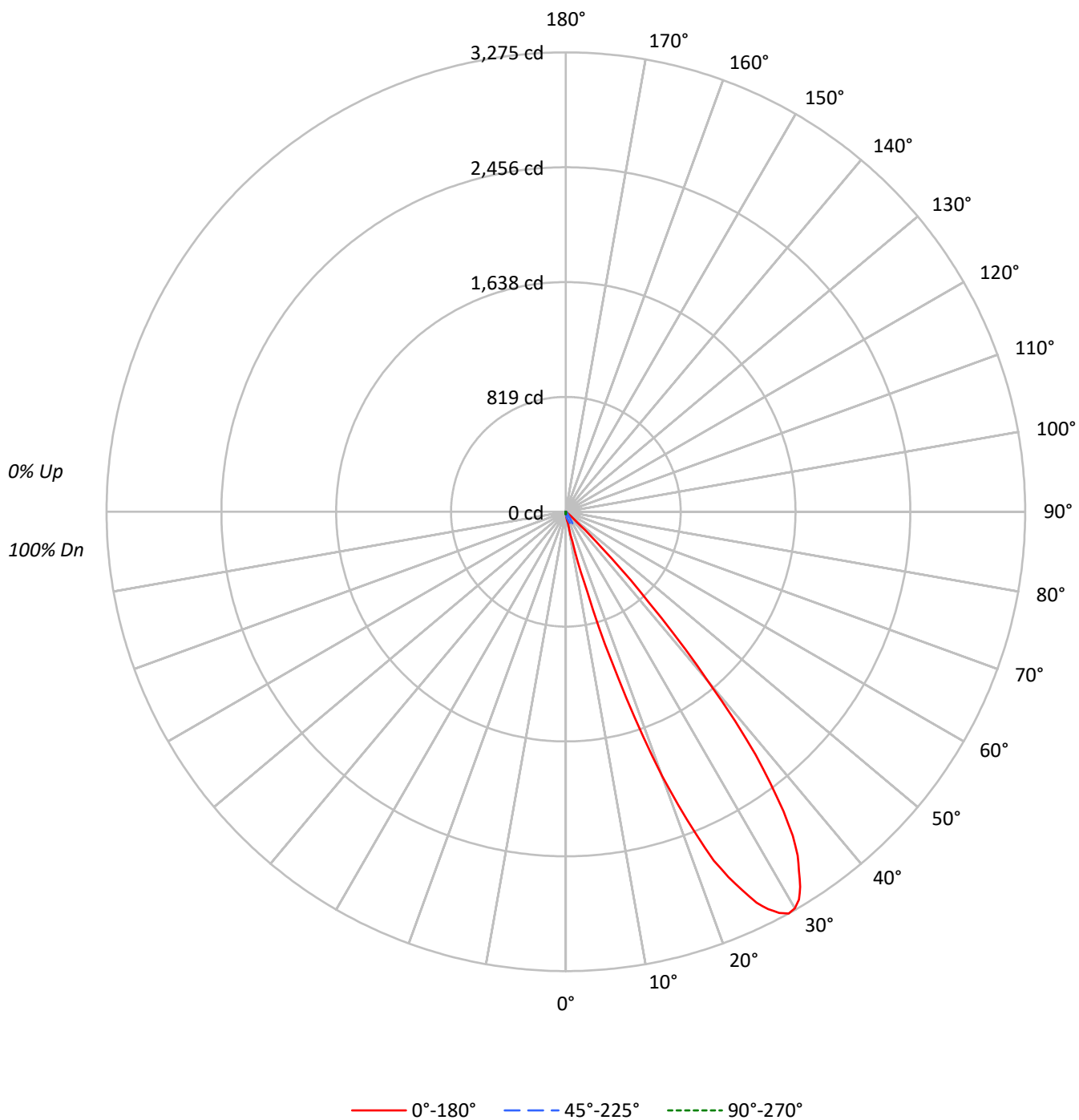
Lumens per Lamp: N/A
Luminaire Lumens: 451.9 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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				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	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°	2790	2790	2790	2790	2790
5°	6068	4270	2559	1158	847
10°	15092	7555	1801	227	0
15°	106194	10341	1034	0	0
20°	367046	17393	403	0	0
25°	565747	22214	171	0	0
30°	649376	17162	0	0	0
35°	593059	6518	0	0	0
40°	355531	3035	0	0	0
45°	87365	1413	0	0	0
50°	9646	348	0	0	0
55°	1351	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: 93162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	35.3	7.8
20°-30°	178.6	39.5
30°-40°	193.2	42.7
40°-50°	40.8	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°	215.7	47.7
0°-40°	408.9	90.5
0°-60°	450.9	99.8
0°-90°	451.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	451.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	35	25	15	7	5	5
15°	596	58	6	0	0	248
25°	2977	117	1	0	0	1346
35°	2821	31	0	0	0	1663
45°	359	6	0	0	0	395
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°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	22.0	21.6	22.0	21.6	22.0	22.0	22.0	21.6	21.6	21.6	21.6
5°	35.1	35.1	34.6	35.1	35.1	35.1	35.1	34.6	34.6	34.2	34.2
7.5°	55.3	55.3	54.8	54.8	55.3	55.7	53.9	54.8	54.8	54.8	54.4
10°	86.3	88.1	86.3	88.6	86.8	85.4	87.7	85.4	85.4	85.0	83.6
12.5°	217.6	212.6	209.5	201.8	209.5	203.6	205.0	203.6	199.1	193.3	189.7
15°	595.6	595.6	578.1	601.5	584.4	590.7	558.3	558.8	542.1	524.2	514.3
17.5°	1245.2	1256.4	1244.7	1237.6	1222.3	1200.2	1191.3	1168.3	1138.2	1103.1	1099.1
20°	2002.7	1955.5	1977.5	1957.3	1944.7	1917.7	1887.6	1868.7	1842.2	1797.7	1732.0
21°	2240.9	2239.1	2238.7	2238.2	2219.8	2175.7	2148.3	2110.5	2073.2	2027.4	1972.5
22°	2481.0	2489.5	2493.1	2467.0	2429.3	2409.5	2390.6	2338.9	2280.0	2256.2	2191.0
23°	2701.2	2693.1	2669.8	2657.6	2628.4	2622.6	2566.4	2533.6	2476.0	2449.9	2372.6
24°	2851.4	2847.3	2836.5	2818.6	2795.2	2759.2	2725.5	2673.8	2626.6	2583.9	2512.0
25°	2977.2	2980.8	2961.1	2948.9	2923.7	2883.3	2841.9	2785.3	2741.2	2691.3	2608.2
26°	3101.8	3076.6	3060.8	3042.9	3015.4	2969.1	2929.1	2878.3	2824.8	2769.1	2687.7
27°	3178.6	3156.1	3132.3	3114.8	3083.3	3039.3	2996.6	2940.4	2880.6	2824.4	2740.8
28°	3239.3	3214.6	3191.2	3170.1	3134.1	3086.9	3035.7	2978.6	2916.5	2858.6	2773.1
29°	3275.3	3246.1	3220.9	3197.1	3164.2	3113.0	3061.3	3000.2	2940.4	2879.7	2792.5
30°	3265.4	3240.2	3215.9	3191.7	3158.4	3110.3	3059.1	3000.6	2940.4	2880.6	2792.0
31°	3226.7	3195.7	3178.2	3153.9	3125.1	3076.1	3032.1	2968.2	2913.9	2849.1	2760.6
32°	3152.6	3132.8	3109.4	3090.5	3062.6	3010.5	2967.3	2915.2	2850.9	2797.9	2704.8
33°	3051.9	3033.4	3021.7	2999.7	2972.7	2936.8	2885.1	2837.4	2765.1	2710.7	2617.6
34°	2955.7	2932.3	2903.1	2896.8	2873.4	2827.1	2780.3	2731.8	2667.1	2597.8	2503.9
35°	2820.8	2796.5	2769.6	2771.8	2743.9	2690.0	2642.3	2587.9	2526.4	2445.0	2356.0
36°	2640.5	2624.4	2620.3	2609.5	2577.6	2513.3	2467.9	2399.6	2347.9	2248.5	2172.1
37°	2420.7	2426.6	2397.3	2383.4	2346.1	2301.1	2275.5	2187.9	2127.6	2053.0	1949.6
38°	2198.7	2190.1	2155.5	2164.0	2112.8	2066.0	1993.7	1941.5	1874.1	1804.9	1722.1
39°	1921.3	1900.2	1858.8	1860.6	1821.9	1769.3	1699.2	1637.6	1597.2	1530.6	1451.5
40°	1581.4	1572.5	1558.1	1534.2	1483.4	1460.5	1398.0	1331.5	1297.3	1205.2	1166.5
42.5°	877.5	865.3	841.1	832.5	805.6	778.6	742.2	697.7	676.1	648.7	587.5
45°	358.7	382.5	376.7	370.0	349.3	350.6	324.6	327.7	303.9	287.7	276.5
47.5°	79.1	85.9	86.3	83.2	86.3	83.6	82.3	80.0	80.5	81.8	78.7
50°	36.0	35.5	36.4	36.0	35.5	35.1	34.6	33.3	34.2	33.3	32.4
52.5°	13.9	14.4	14.4	13.5	13.9	13.9	13.9	13.5	13.5	13.5	13.5
55°	4.5	4.5	4.5	4.0	4.0	4.5	4.5	4.5	4.5	4.5	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°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	20.7	18.9	17.5	16.2	13.5	11.2	10.3	10.3
5°	31.9	24.7	18.4	14.8	10.3	6.7	5.4	4.9
7.5°	48.1	33.3	19.3	12.6	6.7	3.6	2.2	1.8
10°	69.7	43.2	20.2	10.3	4.0	1.3	0.0	0.0
12.5°	121.8	51.7	20.2	8.1	1.8	0.0	0.0	0.0
15°	279.2	58.0	19.3	5.8	0.4	0.0	0.0	0.0
17.5°	579.9	72.8	17.1	4.0	0.0	0.0	0.0	0.0
20°	926.0	94.9	13.5	2.2	0.0	0.0	0.0	0.0
21°	1068.5	102.5	12.1	1.8	0.0	0.0	0.0	0.0
22°	1171.0	109.7	10.8	1.3	0.0	0.0	0.0	0.0
23°	1283.9	114.2	9.4	0.9	0.0	0.0	0.0	0.0
24°	1367.0	116.9	8.1	0.9	0.0	0.0	0.0	0.0
25°	1418.7	116.9	7.2	0.9	0.0	0.0	0.0	0.0
26°	1449.3	114.2	6.3	0.4	0.0	0.0	0.0	0.0
27°	1456.5	109.7	5.4	0.4	0.0	0.0	0.0	0.0
28°	1447.5	103.8	4.5	0.0	0.0	0.0	0.0	0.0
29°	1419.2	95.3	4.0	0.0	0.0	0.0	0.0	0.0
30°	1388.6	86.3	3.1	0.0	0.0	0.0	0.0	0.0
31°	1336.5	74.2	2.7	0.0	0.0	0.0	0.0	0.0
32°	1276.2	61.6	2.2	0.0	0.0	0.0	0.0	0.0
33°	1195.7	48.5	1.8	0.0	0.0	0.0	0.0	0.0
34°	1077.1	38.2	1.8	0.0	0.0	0.0	0.0	0.0
35°	970.5	31.0	1.3	0.0	0.0	0.0	0.0	0.0
36°	831.2	24.7	1.3	0.0	0.0	0.0	0.0	0.0
37°	712.1	20.7	1.3	0.0	0.0	0.0	0.0	0.0
38°	596.1	17.5	0.9	0.0	0.0	0.0	0.0	0.0
39°	483.7	15.3	0.9	0.0	0.0	0.0	0.0	0.0
40°	385.7	13.5	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	208.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	115.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	50.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	17.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.5	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)