

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: P1317665

Luminaire Tested: P3SQAS05R209835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317665
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: P3SQAS05R209835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

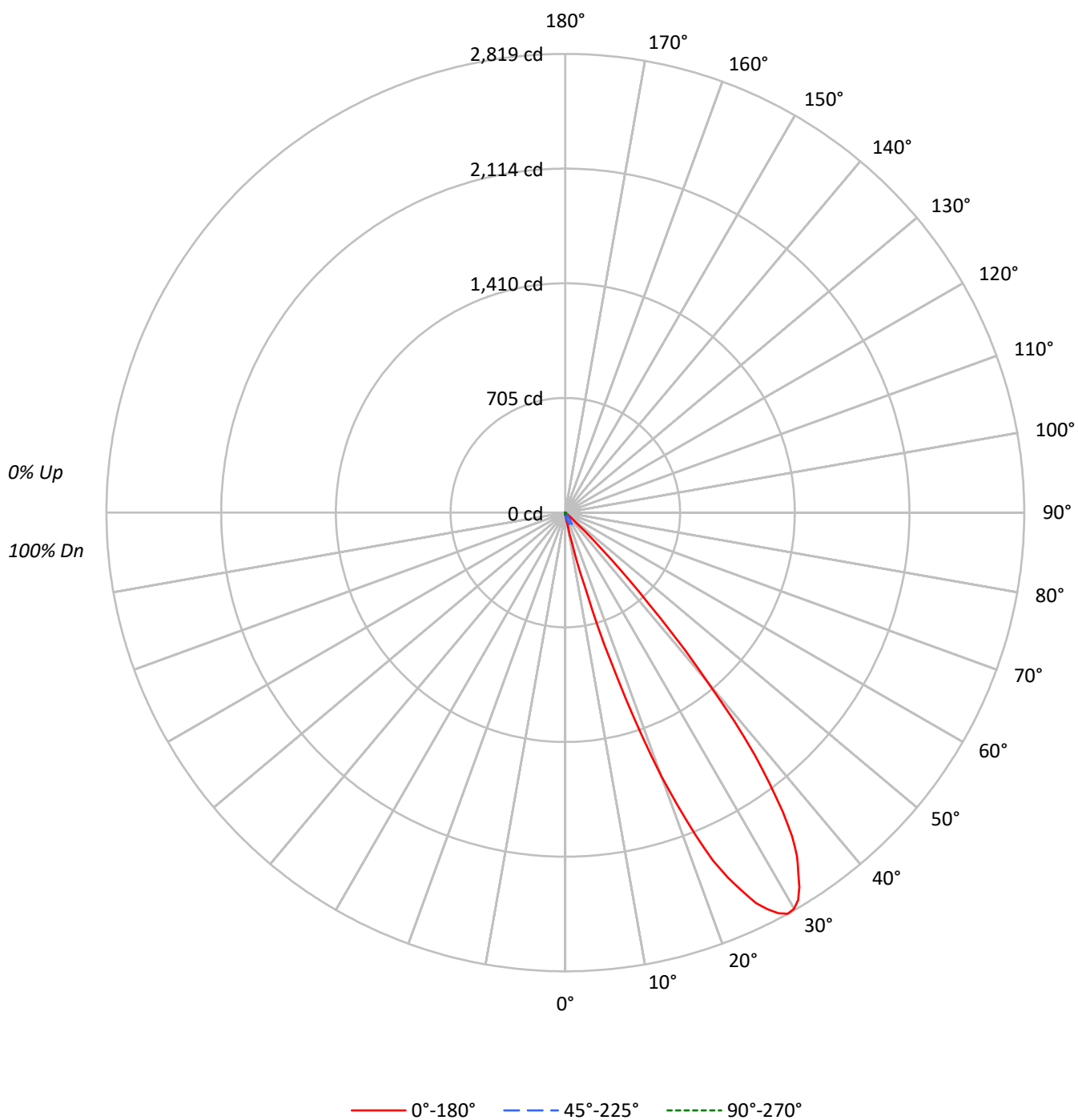
Lumens per Lamp: N/A
Luminaire Lumens: 389.0 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	79	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	49		
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°	2394	2394	2394	2394	2394
5°	5221	3682	2213	1003	743
10°	12994	6488	1556	210	0
15°	91396	8897	891	0	0
20°	315875	14955	348	0	0
25°	486905	19117	152	0	0
30°	558872	14776	0	0	0
35°	510391	5614	0	0	0
40°	305981	2608	0	0	0
45°	75187	1218	0	0	0
50°	8279	322	0	0	0
55°	1171	0	120	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	201	604	0	0
75°	0	266	799	0	0
80°	0	397	1190	0	0
85°	0	790	2371	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 80180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	30.4	7.8
20°-30°	153.7	39.5
30°-40°	166.3	42.7
40°-50°	35.1	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°	185.6	47.7
0°-40°	351.9	90.5
0°-60°	388.1	99.8
0°-90°	389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	30	21	13	6	4	4
15°	513	50	5	0	0	214
25°	2562	101	1	0	0	1158
35°	2428	27	0	0	0	1432
45°	309	5	0	0	0	340
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°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	19.0	18.6	19.0	18.6	19.0	19.0	19.0	18.6	18.6	18.6	18.6
5°	30.2	30.2	29.8	30.2	30.2	30.2	30.2	29.8	29.8	29.4	29.4
7.5°	47.6	47.6	47.2	47.2	47.6	48.0	46.4	47.2	47.2	47.2	46.8
10°	74.3	75.8	74.3	76.2	74.7	73.5	75.4	73.5	73.5	73.1	72.0
12.5°	187.2	183.0	180.3	173.7	180.3	175.3	176.4	175.3	171.4	166.4	163.3
15°	512.6	512.6	497.5	517.6	502.9	508.4	480.5	480.9	466.6	451.1	442.6
17.5°	1071.6	1081.3	1071.3	1065.1	1051.9	1033.0	1025.2	1005.5	979.6	949.4	945.9
20°	1723.5	1682.9	1701.9	1684.5	1673.6	1650.4	1624.5	1608.2	1585.4	1547.1	1490.6
21°	1928.6	1927.0	1926.6	1926.2	1910.4	1872.5	1848.9	1816.4	1784.3	1744.8	1697.6
22°	2135.2	2142.5	2145.6	2123.2	2090.7	2073.6	2057.4	2012.9	1962.2	1941.7	1885.6
23°	2324.7	2317.8	2297.6	2287.2	2262.1	2257.0	2208.7	2180.4	2130.9	2108.5	2041.9
24°	2453.9	2450.5	2441.2	2425.7	2405.6	2374.6	2345.6	2301.1	2260.5	2223.8	2161.9
25°	2562.3	2565.4	2548.3	2537.9	2516.2	2481.4	2445.8	2397.1	2359.2	2316.2	2244.6
26°	2669.4	2647.8	2634.2	2618.8	2595.2	2555.3	2520.9	2477.2	2431.1	2383.1	2313.1
27°	2735.6	2716.2	2695.7	2680.7	2653.6	2615.7	2578.9	2530.5	2479.1	2430.7	2358.8
28°	2787.8	2766.5	2746.4	2728.2	2697.3	2656.7	2612.6	2563.4	2510.0	2460.1	2386.6
29°	2818.8	2793.6	2772.0	2751.4	2723.2	2679.1	2634.6	2582.0	2530.5	2478.3	2403.3
30°	2810.3	2788.6	2767.7	2746.8	2718.2	2676.8	2632.7	2582.4	2530.5	2479.1	2402.9
31°	2777.0	2750.3	2735.2	2714.3	2689.5	2647.4	2609.5	2554.5	2507.7	2452.0	2375.8
32°	2713.1	2696.1	2676.0	2659.8	2635.8	2590.9	2553.8	2508.9	2453.6	2407.9	2327.8
33°	2626.5	2610.6	2600.6	2581.6	2558.4	2527.4	2483.0	2441.9	2379.7	2332.9	2252.8
34°	2543.7	2523.6	2498.4	2493.0	2472.9	2433.1	2392.8	2351.0	2295.3	2235.7	2154.9
35°	2427.6	2406.7	2383.5	2385.5	2361.5	2315.1	2274.0	2227.2	2174.2	2104.2	2027.6
36°	2272.5	2258.6	2255.1	2245.8	2218.3	2163.0	2123.9	2065.1	2020.6	1935.1	1869.4
37°	2083.3	2088.3	2063.2	2051.2	2019.1	1980.4	1958.4	1882.9	1831.1	1766.9	1677.9
38°	1892.2	1884.9	1855.1	1862.4	1818.3	1778.1	1715.8	1670.9	1612.9	1553.3	1482.1
39°	1653.5	1635.3	1599.7	1601.3	1568.0	1522.7	1462.4	1409.4	1374.6	1317.3	1249.2
40°	1361.0	1353.3	1340.9	1320.4	1276.7	1257.0	1203.2	1145.9	1116.5	1037.2	1003.9
42.5°	755.2	744.7	723.8	716.5	693.3	670.1	638.7	600.4	581.9	558.3	505.6
45°	308.7	329.2	324.2	318.4	300.6	301.8	279.3	282.0	261.5	247.6	237.9
47.5°	68.1	73.9	74.3	71.6	74.3	72.0	70.8	68.9	69.3	70.4	67.7
50°	30.9	30.6	31.3	30.9	30.6	30.2	29.8	28.6	29.4	28.6	27.9
52.5°	12.0	12.4	12.4	11.6	12.0	12.0	12.0	11.6	11.6	11.6	11.6
55°	3.9	3.9	3.9	3.5	3.5	3.9	3.9	3.9	3.9	3.9	3.5
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°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	17.8	16.2	15.1	13.9	11.6	9.7	8.9	8.9
5°	27.5	21.3	15.9	12.8	8.9	5.8	4.6	4.3
7.5°	41.4	28.6	16.6	10.8	5.8	3.1	1.9	1.5
10°	60.0	37.1	17.4	8.9	3.5	1.2	0.0	0.0
12.5°	104.8	44.5	17.4	7.0	1.5	0.0	0.0	0.0
15°	240.2	49.9	16.6	5.0	0.4	0.0	0.0	0.0
17.5°	499.1	62.7	14.7	3.5	0.0	0.0	0.0	0.0
20°	797.0	81.6	11.6	1.9	0.0	0.0	0.0	0.0
21°	919.6	88.2	10.4	1.5	0.0	0.0	0.0	0.0
22°	1007.8	94.4	9.3	1.2	0.0	0.0	0.0	0.0
23°	1104.9	98.3	8.1	0.8	0.0	0.0	0.0	0.0
24°	1176.5	100.6	7.0	0.8	0.0	0.0	0.0	0.0
25°	1221.0	100.6	6.2	0.8	0.0	0.0	0.0	0.0
26°	1247.3	98.3	5.4	0.4	0.0	0.0	0.0	0.0
27°	1253.5	94.4	4.6	0.4	0.0	0.0	0.0	0.0
28°	1245.7	89.4	3.9	0.0	0.0	0.0	0.0	0.0
29°	1221.4	82.0	3.5	0.0	0.0	0.0	0.0	0.0
30°	1195.1	74.3	2.7	0.0	0.0	0.0	0.0	0.0
31°	1150.2	63.8	2.3	0.0	0.0	0.0	0.0	0.0
32°	1098.3	53.0	1.9	0.0	0.0	0.0	0.0	0.0
33°	1029.1	41.8	1.5	0.0	0.0	0.0	0.0	0.0
34°	927.0	32.9	1.5	0.0	0.0	0.0	0.0	0.0
35°	835.3	26.7	1.2	0.0	0.0	0.0	0.0	0.0
36°	715.3	21.3	1.2	0.0	0.0	0.0	0.0	0.0
37°	612.8	17.8	1.2	0.0	0.0	0.0	0.0	0.0
38°	513.0	15.1	0.8	0.0	0.0	0.0	0.0	0.0
39°	416.3	13.2	0.8	0.0	0.0	0.0	0.0	0.0
40°	331.9	11.6	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	179.1	7.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	99.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	43.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	14.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.5	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	1.2	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.8	1.2	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	1.2	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.2	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)