

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: P1316773

Luminaire Tested: P3SQAS05R159830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R159830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

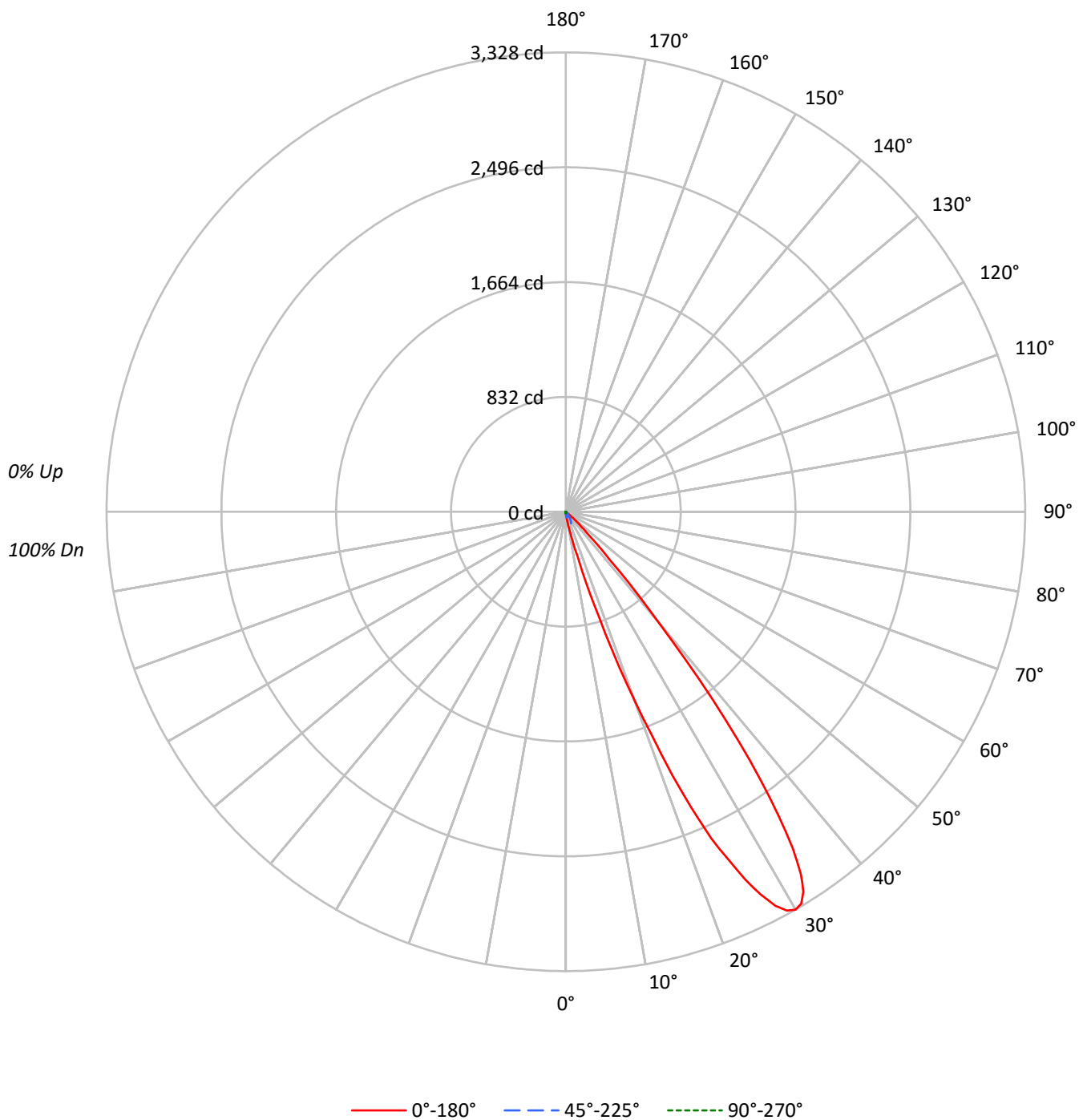
Lumens per Lamp: N/A
Luminaire Lumens: 352.0 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	94	92		
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
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°	2170	2170	2170	2170	2170
5°	6276	4737	1850	761	519
10°	16316	7048	1224	0	0
15°	65204	11554	660	0	0
20°	266409	17026	202	0	0
25°	526621	16874	0	0	0
30°	661904	13324	0	0	0
35°	564760	8179	0	0	0
40°	232510	2585	0	0	0
45°	50295	1072	0	0	0
50°	6457	0	0	0	0
55°	570	0	120	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	201	554	0	0
75°	0	266	732	0	0
80°	0	397	1091	0	0
85°	0	790	2174	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 52658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	24.7	7.0
20°-30°	143.8	40.8
30°-40°	154.2	43.8
40°-50°	26.0	7.4
50°-60°	0.8	0.2
60°-70°	0.2	0.1
70°-80°	0.3	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°	170.1	48.3
0°-40°	324.3	92.1
0°-60°	351.1	99.7
0°-90°	352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	352.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	36	27	11	4	3	5
15°	366	65	4	0	0	169
25°	2771	89	0	0	0	1254
35°	2686	39	0	0	0	1544
45°	206	4	0	0	0	244
55°	2	0	0	0	0	5
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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	22.9	23.3	23.7	23.7	23.7	23.7	23.3	23.3	23.3	23.3	22.9
5°	36.3	36.3	36.3	36.3	36.3	36.3	35.9	35.9	35.9	35.9	35.9
7.5°	51.8	51.1	51.5	50.3	51.1	50.7	50.3	51.1	51.1	49.2	49.2
10°	93.3	92.9	89.2	89.9	90.7	90.3	90.3	88.1	87.7	86.2	84.8
12.5°	179.9	184.0	186.9	186.9	179.9	182.5	177.7	178.8	179.5	177.3	169.5
15°	365.7	372.4	365.3	372.0	369.4	359.8	349.0	334.6	340.2	330.2	326.8
17.5°	801.0	816.2	809.9	779.2	789.2	765.5	750.7	745.1	729.6	683.3	664.0
20°	1453.6	1472.1	1454.7	1418.8	1430.2	1385.5	1374.0	1363.3	1294.4	1269.2	1188.5
21°	1728.2	1743.4	1750.1	1712.7	1689.7	1654.2	1624.6	1615.0	1573.1	1524.6	1441.7
22°	2059.9	2042.1	2002.1	2007.3	1973.3	1944.0	1902.9	1864.1	1817.4	1749.7	1681.2
23°	2334.5	2313.8	2294.9	2272.0	2235.3	2214.6	2155.7	2113.2	2052.5	1979.9	1914.0
24°	2590.3	2558.5	2546.6	2505.9	2495.5	2448.9	2401.1	2345.6	2272.3	2195.0	2122.1
25°	2771.3	2776.1	2765.7	2760.9	2708.0	2660.2	2612.9	2527.4	2464.8	2396.3	2284.2
26°	2965.2	2967.5	2962.3	2926.8	2879.0	2832.4	2771.3	2696.9	2606.2	2530.3	2428.9
27°	3113.7	3104.8	3097.4	3055.2	3016.0	2957.1	2901.6	2813.5	2725.0	2634.7	2517.0
28°	3232.1	3215.5	3206.2	3169.9	3124.0	3051.9	2983.8	2901.6	2813.1	2716.1	2588.8
29°	3303.6	3285.8	3275.4	3235.5	3182.5	3119.2	3050.4	2960.1	2864.9	2756.9	2628.8
30°	3328.4	3318.0	3301.7	3260.3	3205.5	3139.6	3068.9	2970.8	2871.2	2760.6	2625.1
31°	3312.1	3298.8	3283.2	3238.4	3179.2	3116.3	3034.1	2931.2	2826.4	2721.0	2577.3
32°	3247.3	3239.2	3220.3	3160.3	3112.2	3030.8	2949.7	2853.5	2739.1	2625.8	2495.9
33°	3125.9	3112.6	3096.3	3041.5	2980.1	2902.0	2821.3	2722.8	2609.2	2489.6	2346.7
34°	2940.8	2923.8	2903.4	2866.8	2788.3	2720.6	2627.3	2512.2	2418.2	2303.4	2174.2
35°	2686.2	2661.4	2636.9	2609.2	2521.1	2458.5	2395.6	2295.3	2204.6	2096.5	1950.3
36°	2400.4	2390.8	2370.8	2297.5	2269.0	2183.9	2133.2	2018.0	1944.8	1838.9	1718.2
37°	2077.3	2020.6	2049.5	2008.4	1922.5	1895.9	1835.6	1736.7	1657.5	1545.7	1458.4
38°	1730.8	1693.8	1714.2	1672.7	1627.9	1566.5	1520.6	1448.4	1359.6	1271.8	1188.9
39°	1371.8	1341.8	1364.0	1335.9	1267.8	1242.2	1201.5	1146.3	1074.9	1006.4	928.0
40°	1034.2	995.7	1025.3	985.3	954.2	912.4	891.7	841.0	796.6	755.5	705.5
42.5°	472.3	468.2	461.6	447.1	443.8	444.2	418.6	402.0	379.4	353.1	337.2
45°	206.5	211.7	216.2	208.0	207.7	203.2	201.7	190.6	186.2	177.7	167.3
47.5°	101.8	103.6	102.5	104.8	102.9	99.9	99.2	97.7	93.3	92.9	88.1
50°	24.1	23.7	23.7	24.1	23.7	23.7	23.3	22.6	22.2	22.6	21.5
52.5°	7.8	8.1	7.8	7.4	7.8	8.1	7.8	7.8	7.8	7.8	7.8
55°	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.5	1.9	1.9	1.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	22.6	19.2	15.9	12.6	9.3	7.4	7.0	6.7
5°	34.1	27.4	18.1	10.7	6.3	4.4	3.3	3.0
7.5°	45.9	34.1	20.0	8.9	4.4	1.9	0.7	0.4
10°	65.9	40.3	20.7	7.0	2.2	0.0	0.0	0.0
12.5°	129.2	46.3	20.4	5.6	0.4	0.0	0.0	0.0
15°	214.7	64.8	18.9	3.7	0.0	0.0	0.0	0.0
17.5°	351.6	83.7	16.3	2.6	0.0	0.0	0.0	0.0
20°	545.2	92.9	12.6	1.1	0.0	0.0	0.0	0.0
21°	639.2	93.6	11.1	0.7	0.0	0.0	0.0	0.0
22°	720.7	93.6	9.6	0.4	0.0	0.0	0.0	0.0
23°	796.2	92.5	8.5	0.0	0.0	0.0	0.0	0.0
24°	858.4	91.1	7.8	0.0	0.0	0.0	0.0	0.0
25°	905.0	88.8	7.0	0.0	0.0	0.0	0.0	0.0
26°	926.5	85.9	5.9	0.0	0.0	0.0	0.0	0.0
27°	937.2	81.8	5.2	0.0	0.0	0.0	0.0	0.0
28°	929.8	77.4	4.4	0.0	0.0	0.0	0.0	0.0
29°	911.3	72.5	3.3	0.0	0.0	0.0	0.0	0.0
30°	887.2	67.0	2.6	0.0	0.0	0.0	0.0	0.0
31°	852.1	61.4	1.9	0.0	0.0	0.0	0.0	0.0
32°	804.0	55.9	1.5	0.0	0.0	0.0	0.0	0.0
33°	739.6	50.0	0.7	0.0	0.0	0.0	0.0	0.0
34°	660.0	44.0	0.4	0.0	0.0	0.0	0.0	0.0
35°	570.8	38.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	494.1	33.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	417.2	26.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	349.4	21.1	0.0	0.0	0.0	0.0	0.0	0.0
39°	289.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	239.5	11.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	132.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	80.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	46.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.7	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.7	0.7	0.4	0.0	0.0	0.0
67.5°	0.0	0.0	0.7	1.1	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.7	1.1	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	0.7	1.1	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.7	1.1	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)