

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: P1316237

Luminaire Tested: P3SQAS13R309827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R309827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

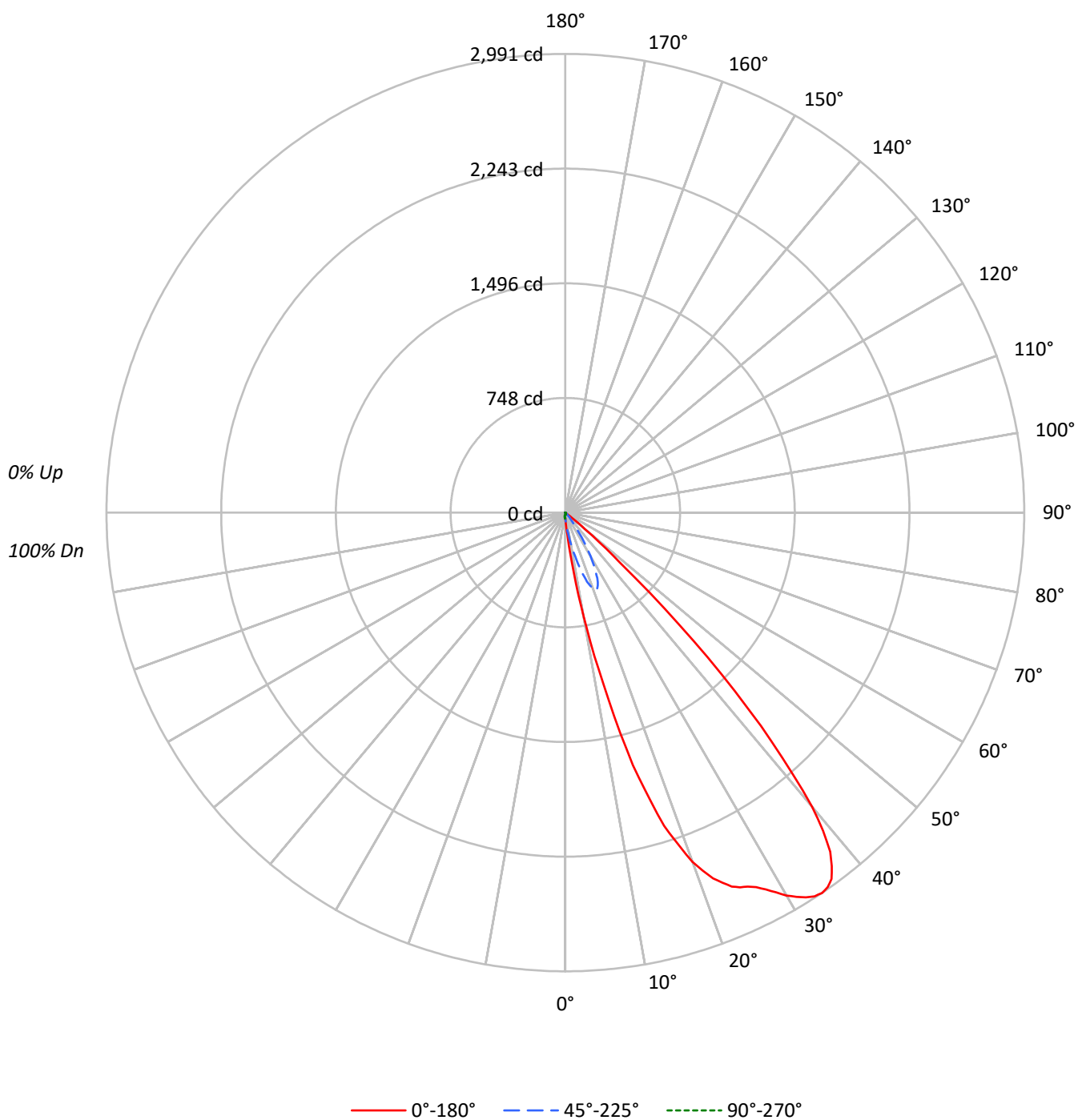
Lumens per Lamp: N/A
Luminaire Lumens: 720.0 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	78	73	91	83	77	72	81	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6631	6631	6631	6631	6631
5°	24065	14954	6068	2455	1746
10°	119110	35798	4722	472	0
15°	303838	68181	3013	0	0
20°	443948	96971	1246	0	0
25°	512179	95146	266	0	0
30°	573230	65307	0	0	0
35°	626909	28131	0	0	0
40°	562659	10926	0	0	0
45°	287327	4433	0	0	0
50°	44343	536	0	0	0
55°	2642	0	210	0	0
60°	0	0	241	0	0
65°	0	0	571	0	0
70°	0	352	705	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 287327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	1.1
10°-20°	95.9	13.3
20°-30°	237.1	32.9
30°-40°	272.6	37.9
40°-50°	101.1	14.0
50°-60°	3.7	0.5
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	341.0	47.4
0°-40°	613.7	85.2
0°-60°	718.5	99.8
0°-90°	720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	139	86	35	14	10	30
15°	1704	382	17	0	0	490
25°	2695	501	1	0	0	1245
35°	2982	134	0	0	0	1808
45°	1180	18	0	0	0	919
55°	9	0	1	0	0	30
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
2.5°	68.2	68.9	68.9	66.9	66.2	65.5	63.5	57.4	48.0	38.5	31.1
5°	139.2	139.9	139.9	135.8	127.7	119.6	112.8	86.5	55.4	35.1	23.0
7.5°	328.4	329.1	314.9	298.7	266.2	249.3	218.2	133.1	62.8	31.8	14.9
10°	681.1	666.2	629.1	581.8	531.8	466.9	401.4	204.7	68.2	27.0	9.5
12.5°	1138.5	1124.3	1076.4	1008.8	910.8	783.8	659.5	287.8	68.9	21.6	5.4
15°	1704.1	1664.2	1606.8	1494.6	1350.0	1153.4	948.0	382.4	66.2	16.9	1.4
17.5°	2142.6	2106.1	2033.1	1902.0	1722.3	1504.1	1252.0	472.3	58.8	10.8	0.0
20°	2422.3	2383.8	2315.6	2200.0	2008.8	1752.7	1464.2	529.1	48.6	6.8	0.0
21°	2502.0	2464.9	2398.0	2283.1	2092.6	1837.2	1516.2	541.2	43.9	5.4	0.0
22°	2572.3	2543.3	2481.1	2356.1	2162.2	1899.3	1568.9	542.6	40.5	4.1	0.0
23°	2621.6	2600.7	2538.5	2423.7	2230.4	1950.0	1597.3	534.5	36.5	2.7	0.0
24°	2668.9	2643.3	2589.9	2483.1	2284.5	1992.6	1623.0	519.6	32.4	2.0	0.0
25°	2695.3	2665.6	2624.3	2524.3	2329.1	2019.6	1638.5	500.7	28.4	1.4	0.0
26°	2713.5	2690.6	2645.3	2548.7	2348.0	2037.2	1640.6	473.0	25.7	0.7	0.0
27°	2741.2	2718.3	2674.3	2570.3	2356.1	2034.5	1628.4	441.2	22.3	0.0	0.0
28°	2783.1	2752.7	2708.8	2593.3	2359.5	2023.0	1601.4	406.8	18.9	0.0	0.0
29°	2831.1	2800.0	2752.0	2623.7	2360.2	2000.0	1558.8	368.9	16.9	0.0	0.0
30°	2882.5	2855.4	2806.8	2653.4	2367.6	1970.3	1509.5	328.4	13.5	0.0	0.0
31°	2923.0	2898.7	2846.6	2680.4	2373.7	1944.6	1448.7	287.8	11.5	0.0	0.0
32°	2958.1	2936.5	2872.3	2686.5	2361.5	1908.1	1383.8	248.7	9.5	0.0	0.0
33°	2982.5	2955.4	2880.4	2671.0	2326.4	1848.0	1311.5	211.5	7.4	0.0	0.0
34°	2991.2	2958.8	2868.3	2630.4	2255.4	1756.8	1217.6	173.0	6.1	0.0	0.0
35°	2981.8	2941.9	2824.3	2560.8	2159.5	1648.0	1104.7	133.8	4.7	0.0	0.0
36°	2951.4	2900.7	2761.5	2461.5	2022.3	1519.6	991.9	104.1	3.4	0.0	0.0
37°	2885.8	2829.8	2654.1	2330.4	1886.5	1372.3	863.5	81.1	2.0	0.0	0.0
38°	2805.4	2724.3	2510.8	2164.9	1710.8	1206.8	736.5	66.9	1.4	0.0	0.0
39°	2668.3	2579.1	2340.6	1974.3	1538.5	1049.3	612.8	58.1	0.7	0.0	0.0
40°	2502.7	2396.6	2146.0	1770.3	1335.1	884.5	511.5	48.6	0.7	0.0	0.0
42.5°	1887.9	1798.0	1528.4	1204.1	816.2	521.6	283.8	31.8	0.0	0.0	0.0
45°	1179.7	1085.8	903.4	660.1	441.9	270.3	136.5	18.2	0.0	0.0	0.0
47.5°	481.8	441.9	363.5	279.7	200.0	127.0	56.8	8.1	0.0	0.0	0.0
50°	165.5	147.3	123.6	90.5	64.2	43.9	29.7	2.0	0.0	0.0	0.0
52.5°	48.0	48.6	42.6	36.5	28.4	20.3	14.9	0.0	0.0	0.0	0.0
55°	8.8	7.4	8.8	8.1	8.8	7.4	5.4	0.0	0.0	0.7	0.0
57.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.0	0.7	0.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.0	0.7
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):

	135°	157.5°	180°
0°	38.5	38.5	38.5
2.5°	25.0	22.3	20.9
5°	14.2	10.8	10.1
7.5°	7.4	4.7	4.1
10°	2.7	0.7	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)