

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: P1310023

Luminaire Tested: P3SQAS09R159040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310023
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: P3SQAS09R159040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

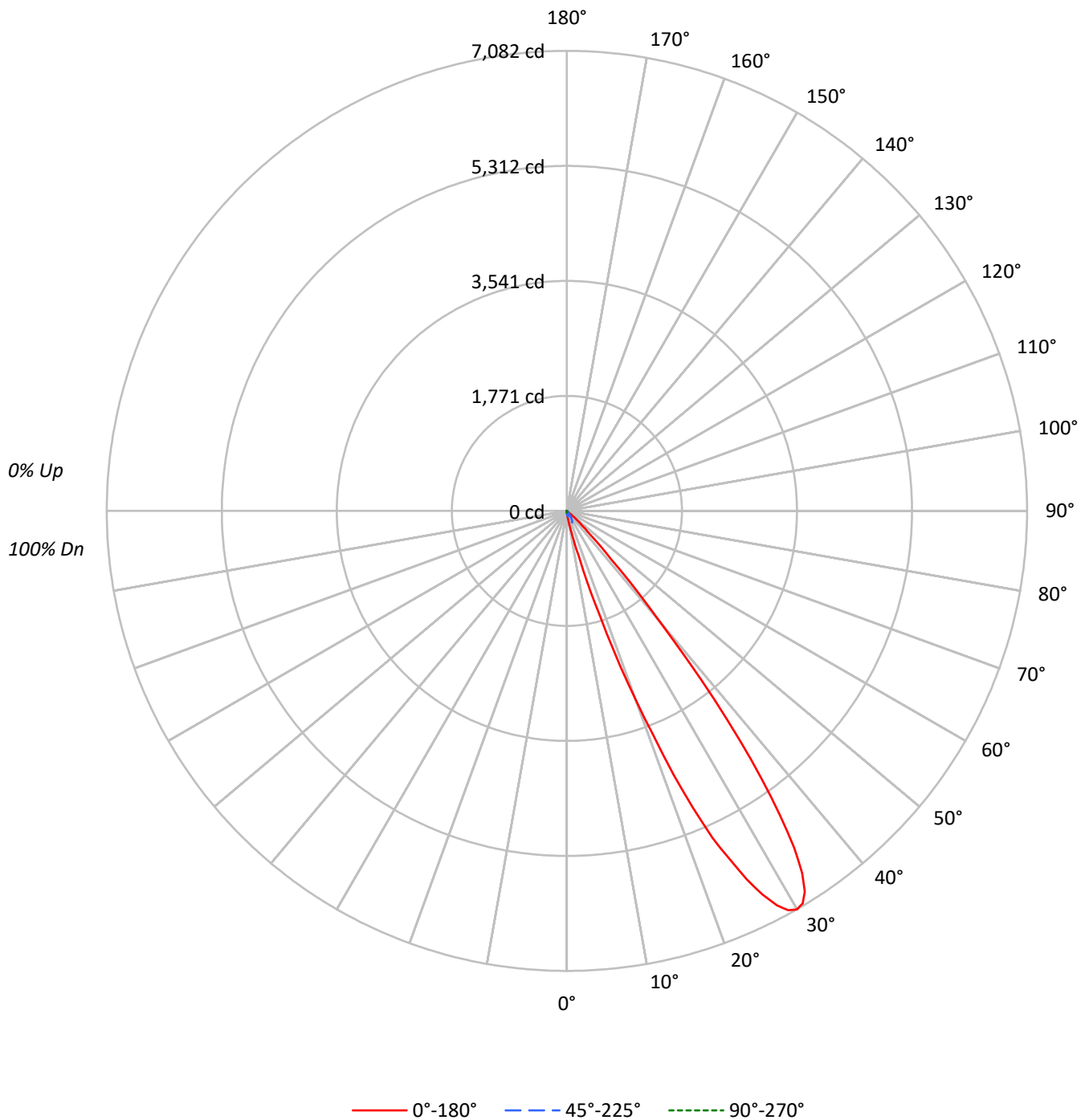
Lumens per Lamp: N/A
Luminaire Lumens: 749.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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			0
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	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°	4616	4616	4616	4616	4616
5°	13346	10079	3942	1642	1089
10°	34714	15005	2623	0	0
15°	138752	24569	1409	0	0
20°	566871	36234	440	0	0
25°	1120568	35915	0	0	0
30°	1408406	28358	0	0	0
35°	1201697	17387	0	0	0
40°	494740	5486	0	0	0
45°	107044	2314	0	0	0
50°	13718	0	0	0	0
55°	1171	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1209	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 112037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.5
10°-20°	52.5	7.0
20°-30°	306.0	40.8
30°-40°	328.0	43.8
40°-50°	55.4	7.4
50°-60°	1.7	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	362.0	48.3
0°-40°	690.1	92.1
0°-60°	747.1	99.7
0°-90°	749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	749.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	77	58	23	10	6	11
15°	778	138	8	0	0	360
25°	5897	189	0	0	0	2668
35°	5716	83	0	0	0	3285
45°	440	10	0	0	0	519
55°	4	0	1	0	0	10
65°	0	0	2	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°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
2.5°	48.8	49.6	50.4	50.4	50.4	50.4	49.6	49.6	49.6	49.6	48.8
5°	77.2	77.2	77.2	77.2	77.2	77.2	76.4	76.4	76.4	76.4	76.4
7.5°	110.3	108.7	109.5	107.1	108.7	107.9	107.1	108.7	108.7	104.8	104.8
10°	198.5	197.7	189.8	191.4	193.0	192.2	192.2	187.5	186.7	183.5	180.4
12.5°	382.8	391.4	397.7	397.7	382.8	388.3	378.1	380.4	382.0	377.3	360.7
15°	778.2	792.3	777.4	791.6	786.0	765.6	742.7	712.0	723.8	702.6	695.5
17.5°	1704.4	1736.7	1723.3	1657.9	1679.2	1628.8	1597.3	1585.5	1552.4	1453.9	1413.0
20°	3093.0	3132.3	3095.3	3018.9	3043.3	2948.0	2923.6	2900.8	2754.3	2700.7	2529.0
21°	3677.4	3709.7	3723.8	3644.3	3595.5	3519.8	3456.8	3436.4	3347.4	3244.2	3067.8
22°	4383.1	4345.3	4260.2	4271.2	4198.8	4136.5	4049.1	3966.4	3867.2	3723.1	3577.3
23°	4967.5	4923.4	4883.2	4834.4	4756.4	4712.3	4587.1	4496.5	4367.3	4212.9	4072.8
24°	5511.7	5444.0	5418.8	5332.1	5310.1	5210.9	5109.3	4991.1	4835.2	4670.6	4515.4
25°	5896.9	5907.1	5885.1	5874.8	5762.2	5660.6	5559.8	5377.8	5244.7	5099.0	4860.4
26°	6309.6	6314.3	6303.3	6227.7	6126.1	6026.8	5896.9	5738.6	5545.6	5384.1	5168.3
27°	6625.4	6606.5	6590.8	6501.0	6417.5	6292.2	6174.1	5986.7	5798.4	5606.2	5355.8
28°	6877.4	6842.0	6822.3	6745.1	6647.5	6493.9	6349.0	6174.1	5985.9	5779.5	5508.6
29°	7029.5	6991.6	6969.6	6884.5	6771.9	6637.2	6490.7	6298.5	6096.1	5866.1	5593.6
30°	7082.2	7060.2	7025.5	6937.3	6820.7	6680.5	6530.1	6321.4	6109.5	5874.0	5585.8
31°	7047.6	7019.2	6986.1	6890.8	6764.8	6630.9	6456.1	6237.1	6014.2	5789.8	5484.2
32°	6909.7	6892.4	6852.2	6724.6	6622.3	6449.0	6276.5	6071.7	5828.3	5587.3	5310.9
33°	6651.4	6623.0	6588.4	6471.8	6341.1	6174.9	6003.2	5793.7	5551.9	5297.5	4993.5
34°	6257.6	6221.4	6178.0	6100.1	5933.1	5789.0	5590.5	5345.5	5145.5	4901.3	4626.4
35°	5715.7	5662.9	5611.0	5551.9	5364.4	5231.3	5097.4	4884.0	4691.0	4461.0	4149.9
36°	5107.7	5087.2	5044.7	4888.7	4828.1	4646.9	4539.0	4294.1	4138.1	3912.9	3656.1
37°	4420.1	4299.6	4361.0	4273.6	4090.9	4034.2	3905.8	3695.5	3526.9	3289.1	3103.2
38°	3682.9	3604.1	3647.4	3559.2	3463.9	3333.2	3235.5	3081.9	2892.9	2706.2	2529.8
39°	2918.9	2855.1	2902.4	2842.5	2697.6	2643.2	2556.6	2439.2	2287.2	2141.5	1974.5
40°	2200.6	2118.7	2181.7	2096.6	2030.5	1941.5	1897.4	1789.5	1694.9	1607.5	1501.2
42.5°	1005.0	996.3	982.2	951.4	944.3	945.1	890.8	855.3	807.3	751.4	717.5
45°	439.5	450.5	460.0	442.6	441.9	432.4	429.2	405.6	396.2	378.1	356.0
47.5°	216.6	220.5	218.2	222.9	219.0	212.7	211.1	207.9	198.5	197.7	187.5
50°	51.2	50.4	50.4	51.2	50.4	50.4	49.6	48.0	47.3	48.0	45.7
52.5°	16.5	17.3	16.5	15.8	16.5	17.3	16.5	16.5	16.5	16.5	16.5
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.2	3.2	3.9	3.9	3.9
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°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
2.5°	48.0	41.0	33.9	26.8	19.7	15.8	15.0	14.2
5°	72.5	58.3	38.6	22.8	13.4	9.5	7.1	6.3
7.5°	97.7	72.5	42.5	18.9	9.5	3.9	1.6	0.8
10°	140.2	85.8	44.1	15.0	4.7	0.0	0.0	0.0
12.5°	274.9	98.5	43.3	11.8	0.8	0.0	0.0	0.0
15°	456.8	137.8	40.2	7.9	0.0	0.0	0.0	0.0
17.5°	748.2	178.0	34.7	5.5	0.0	0.0	0.0	0.0
20°	1160.2	197.7	26.8	2.4	0.0	0.0	0.0	0.0
21°	1360.2	199.3	23.6	1.6	0.0	0.0	0.0	0.0
22°	1533.5	199.3	20.5	0.8	0.0	0.0	0.0	0.0
23°	1694.2	196.9	18.1	0.0	0.0	0.0	0.0	0.0
24°	1826.5	193.8	16.5	0.0	0.0	0.0	0.0	0.0
25°	1925.7	189.0	15.0	0.0	0.0	0.0	0.0	0.0
26°	1971.4	182.7	12.6	0.0	0.0	0.0	0.0	0.0
27°	1994.2	174.1	11.0	0.0	0.0	0.0	0.0	0.0
28°	1978.5	164.6	9.5	0.0	0.0	0.0	0.0	0.0
29°	1939.1	154.4	7.1	0.0	0.0	0.0	0.0	0.0
30°	1887.9	142.6	5.5	0.0	0.0	0.0	0.0	0.0
31°	1813.1	130.7	3.9	0.0	0.0	0.0	0.0	0.0
32°	1710.7	118.9	3.2	0.0	0.0	0.0	0.0	0.0
33°	1573.7	106.3	1.6	0.0	0.0	0.0	0.0	0.0
34°	1404.3	93.7	0.8	0.0	0.0	0.0	0.0	0.0
35°	1214.5	82.7	0.0	0.0	0.0	0.0	0.0	0.0
36°	1051.5	70.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	887.6	56.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	743.5	44.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	615.1	36.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	509.6	24.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	282.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	170.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	99.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.2	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.6	2.4	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	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	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)