

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: P1308905

Luminaire Tested: P3SQAS09R159035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308905
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: P3SQAS09R159035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

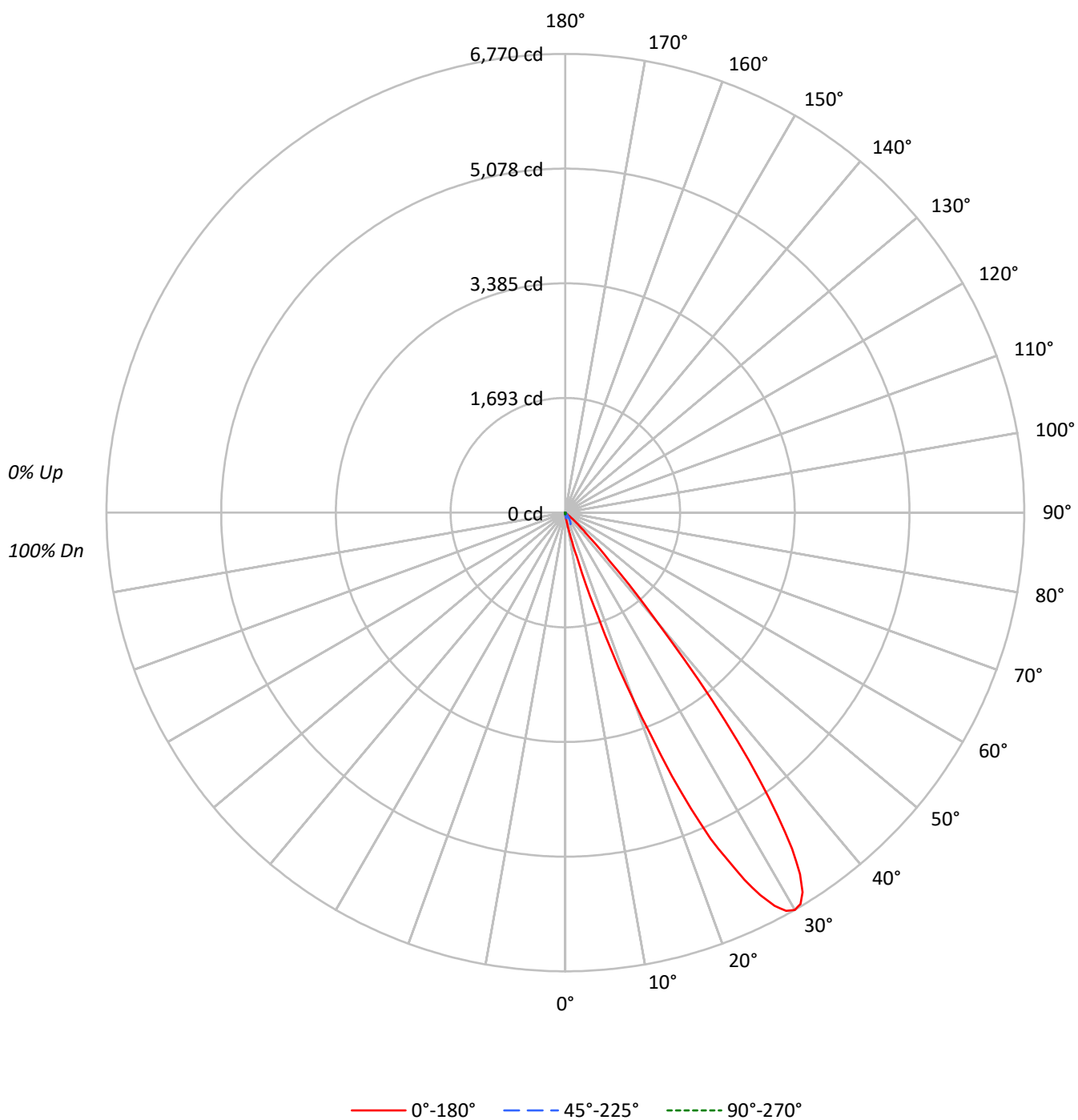
Lumens per Lamp: N/A
Luminaire Lumens: 716.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4409	4409	4409	4409	4409
5°	12759	9629	3769	1556	1037
10°	33175	14358	2501	0	0
15°	132636	23500	1337	0	0
20°	541891	34639	422	0	0
25°	1071199	34338	0	0	0
30°	1346360	27105	0	0	0
35°	1148758	16630	0	0	0
40°	472933	5238	0	0	0
45°	102319	2192	0	0	0
50°	13102	0	0	0	0
55°	1141	0	240	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 107093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	50.2	7.0
20°-30°	292.5	40.8
30°-40°	313.6	43.8
40°-50°	52.9	7.4
50°-60°	1.6	0.2
60°-70°	0.5	0.1
70°-80°	0.7	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°	346.1	48.3
0°-40°	659.7	92.1
0°-60°	714.2	99.7
0°-90°	716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	74	56	22	9	6	10
15°	744	132	8	0	0	344
25°	5637	181	0	0	0	2550
35°	5464	79	0	0	0	3140
45°	420	9	0	0	0	496
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°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
2.5°	46.7	47.4	48.2	48.2	48.2	48.2	47.4	47.4	47.4	47.4	46.7
5°	73.8	73.8	73.8	73.8	73.8	73.8	73.0	73.0	73.0	73.0	73.0
7.5°	105.4	103.9	104.7	102.4	103.9	103.1	102.4	103.9	103.9	100.1	100.1
10°	189.7	189.0	181.5	183.0	184.5	183.7	183.7	179.2	178.4	175.4	172.4
12.5°	365.9	374.2	380.2	380.2	365.9	371.2	361.4	363.7	365.2	360.6	344.8
15°	743.9	757.4	743.1	756.7	751.4	731.8	710.0	680.6	691.9	671.6	664.8
17.5°	1629.3	1660.2	1647.4	1584.9	1605.2	1557.0	1526.9	1515.6	1484.0	1389.9	1350.7
20°	2956.7	2994.3	2958.9	2885.9	2909.3	2818.2	2794.8	2773.0	2632.9	2581.7	2417.6
21°	3515.3	3546.2	3559.8	3483.7	3437.0	3364.8	3304.5	3285.0	3199.9	3101.2	2932.6
22°	4190.0	4153.8	4072.5	4083.0	4013.8	3954.3	3870.7	3791.7	3696.8	3559.0	3419.7
23°	4748.6	4706.5	4668.1	4621.4	4546.8	4504.7	4385.0	4298.4	4174.9	4027.3	3893.3
24°	5268.9	5204.1	5180.0	5097.2	5076.1	4981.3	4884.1	4771.2	4622.1	4464.8	4316.4
25°	5637.1	5646.8	5625.8	5616.0	5508.3	5411.2	5314.8	5140.9	5013.6	4874.4	4646.2
26°	6031.6	6036.1	6025.6	5953.3	5856.2	5761.3	5637.1	5485.7	5301.3	5146.9	4940.6
27°	6333.5	6315.4	6300.4	6214.5	6134.7	6015.0	5902.1	5722.9	5542.9	5359.2	5119.8
28°	6574.4	6540.6	6521.7	6447.9	6354.6	6207.8	6069.2	5902.1	5722.1	5524.9	5265.9
29°	6719.7	6683.6	6662.5	6581.2	6473.5	6344.8	6204.8	6021.0	5827.5	5607.7	5347.2
30°	6770.2	6749.1	6716.0	6631.7	6520.2	6386.2	6242.4	6042.9	5840.3	5615.2	5339.7
31°	6737.1	6710.0	6678.3	6587.2	6466.8	6338.8	6171.6	5962.3	5749.2	5534.7	5242.5
32°	6605.3	6588.7	6550.3	6428.4	6330.5	6164.8	6000.0	5804.2	5571.6	5341.2	5076.9
33°	6358.3	6331.2	6298.1	6186.7	6061.7	5902.8	5738.7	5538.4	5307.3	5064.1	4773.5
34°	5981.9	5947.3	5905.8	5831.3	5671.7	5533.9	5344.2	5110.0	4918.8	4685.4	4422.6
35°	5463.9	5413.4	5363.8	5307.3	5128.1	5000.8	4872.9	4668.8	4484.3	4264.5	3967.1
36°	4882.6	4863.1	4822.4	4673.3	4615.4	4442.2	4339.0	4104.9	3955.8	3740.5	3495.0
37°	4225.3	4110.2	4168.9	4085.3	3910.6	3856.4	3733.7	3532.7	3371.5	3144.2	2966.5
38°	3520.6	3445.3	3486.7	3402.4	3311.3	3186.3	3093.0	2946.1	2765.4	2587.0	2418.4
39°	2790.3	2729.3	2774.5	2717.3	2578.7	2526.8	2444.0	2331.8	2186.5	2047.2	1887.6
40°	2103.6	2025.3	2085.6	2004.3	1941.0	1855.9	1813.8	1710.6	1620.3	1536.7	1435.1
42.5°	960.7	952.4	938.9	909.5	902.7	903.5	851.5	817.7	771.7	718.3	685.9
45°	420.1	430.7	439.7	423.1	422.4	413.3	410.3	387.8	378.7	361.4	340.3
47.5°	207.1	210.8	208.6	213.1	209.3	203.3	201.8	198.8	189.7	189.0	179.2
50°	48.9	48.2	48.2	48.9	48.2	48.2	47.4	45.9	45.2	45.9	43.7
52.5°	15.8	16.6	15.8	15.1	15.8	16.6	15.8	15.8	15.8	15.8	15.8
55°	3.8	3.8	3.8	3.8	3.8	3.8	3.0	3.0	3.8	3.8	3.8
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°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
2.5°	45.9	39.2	32.4	25.6	18.8	15.1	14.3	13.6
5°	69.3	55.7	36.9	21.8	12.8	9.0	6.8	6.0
7.5°	93.4	69.3	40.7	18.1	9.0	3.8	1.5	0.8
10°	134.0	82.1	42.2	14.3	4.5	0.0	0.0	0.0
12.5°	262.8	94.1	41.4	11.3	0.8	0.0	0.0	0.0
15°	436.7	131.8	38.4	7.5	0.0	0.0	0.0	0.0
17.5°	715.3	170.2	33.1	5.3	0.0	0.0	0.0	0.0
20°	1109.0	189.0	25.6	2.3	0.0	0.0	0.0	0.0
21°	1300.3	190.5	22.6	1.5	0.0	0.0	0.0	0.0
22°	1465.9	190.5	19.6	0.8	0.0	0.0	0.0	0.0
23°	1619.5	188.2	17.3	0.0	0.0	0.0	0.0	0.0
24°	1746.0	185.2	15.8	0.0	0.0	0.0	0.0	0.0
25°	1840.9	180.7	14.3	0.0	0.0	0.0	0.0	0.0
26°	1884.5	174.7	12.0	0.0	0.0	0.0	0.0	0.0
27°	1906.4	166.4	10.5	0.0	0.0	0.0	0.0	0.0
28°	1891.3	157.4	9.0	0.0	0.0	0.0	0.0	0.0
29°	1853.7	147.6	6.8	0.0	0.0	0.0	0.0	0.0
30°	1804.7	136.3	5.3	0.0	0.0	0.0	0.0	0.0
31°	1733.2	125.0	3.8	0.0	0.0	0.0	0.0	0.0
32°	1635.3	113.7	3.0	0.0	0.0	0.0	0.0	0.0
33°	1504.3	101.6	1.5	0.0	0.0	0.0	0.0	0.0
34°	1342.4	89.6	0.8	0.0	0.0	0.0	0.0	0.0
35°	1161.0	79.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	1005.1	67.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	848.5	54.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	710.7	42.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	588.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	487.1	23.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	269.5	15.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	163.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	94.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.0	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	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.5	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.5	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.5	2.3	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	1.5	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.5	2.3	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)