

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: P1313190

Luminaire Tested: P3SQAS09R159730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313190
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: P3SQAS09R159730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

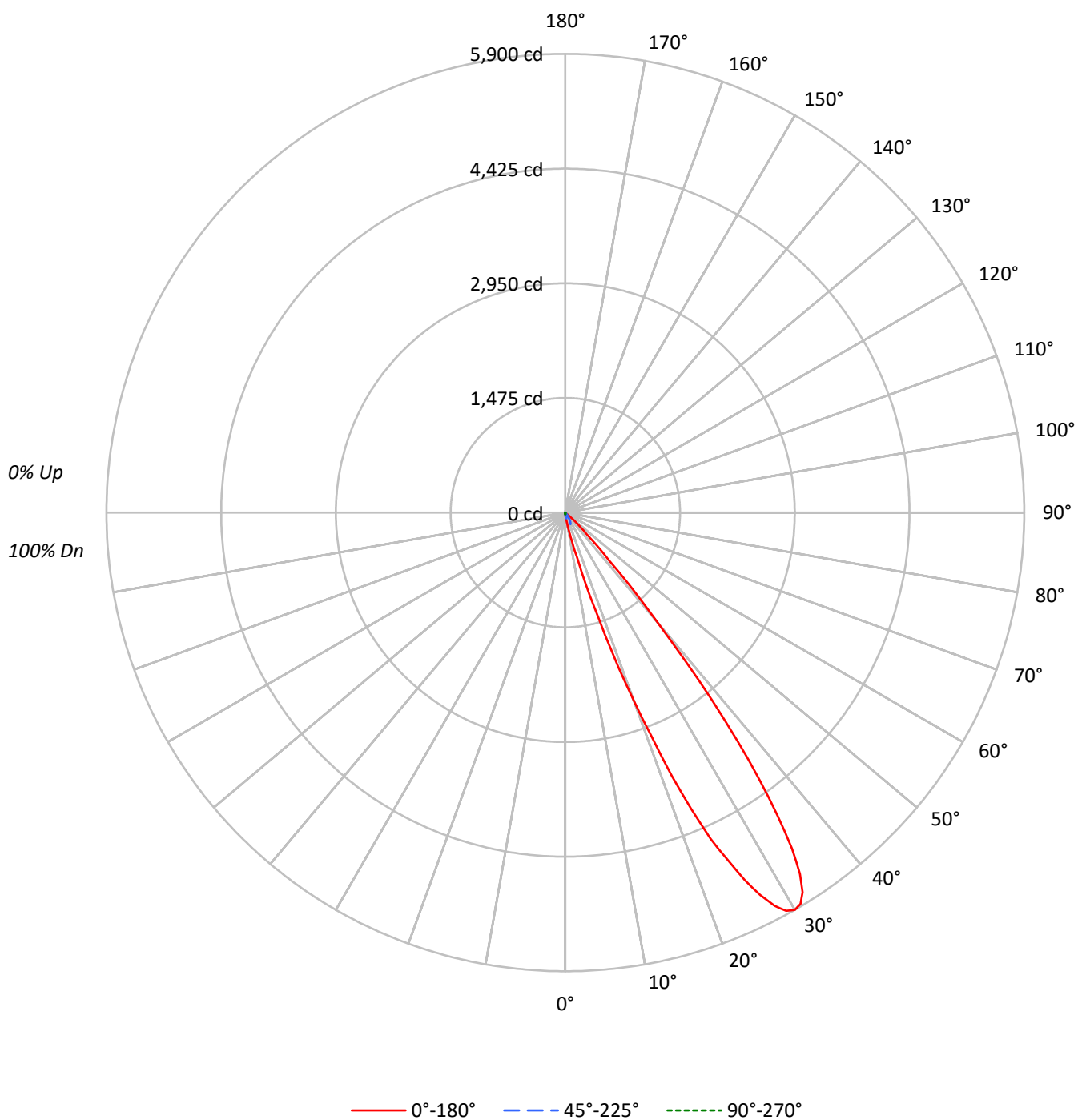
Lumens per Lamp: N/A
Luminaire Lumens: 624.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	3841	3841	3841	3841	3841
5°	11116	8402	3285	1366	899
10°	28925	12504	2186	0	0
15°	115591	20469	1177	0	0
20°	472264	30185	367	0	0
25°	933544	29929	0	0	0
30°	1173367	23625	0	0	0
35°	1001145	14486	0	0	0
40°	412164	4564	0	0	0
45°	89167	1924	0	0	0
50°	11441	0	0	0	0
55°	991	0	210	0	0
60°	0	0	448	0	0
65°	0	0	530	0	0
70°	0	352	1007	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: 2°

Vertical Angle: 45°

Luminance: 93332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.5
10°-20°	43.7	7.0
20°-30°	254.9	40.8
30°-40°	273.3	43.8
40°-50°	46.1	7.4
50°-60°	1.4	0.2
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°	301.6	48.3
0°-40°	574.9	92.1
0°-60°	622.4	99.7
0°-90°	624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	64	49	19	8	5	9
15°	648	115	7	0	0	300
25°	4913	158	0	0	0	2223
35°	4762	69	0	0	0	2737
45°	366	8	0	0	0	433
55°	3	0	1	0	0	8
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°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	40.7	41.3	42.0	42.0	42.0	42.0	41.3	41.3	41.3	41.3	40.7
5°	64.3	64.3	64.3	64.3	64.3	64.3	63.6	63.6	63.6	63.6	63.6
7.5°	91.9	90.6	91.2	89.2	90.6	89.9	89.2	90.6	90.6	87.3	87.3
10°	165.4	164.7	158.1	159.4	160.8	160.1	160.1	156.2	155.5	152.9	150.3
12.5°	318.9	326.1	331.4	331.4	318.9	323.5	315.0	316.9	318.2	314.3	300.5
15°	648.3	660.1	647.6	659.5	654.9	637.8	618.8	593.2	603.0	585.3	579.4
17.5°	1420.0	1446.9	1435.7	1381.2	1399.0	1357.0	1330.7	1320.9	1293.3	1211.3	1177.2
20°	2576.8	2609.6	2578.7	2515.1	2535.4	2456.0	2435.7	2416.7	2294.6	2250.0	2107.0
21°	3063.7	3090.6	3102.4	3036.1	2995.4	2932.4	2879.9	2862.9	2788.7	2702.8	2555.8
22°	3651.6	3620.1	3549.2	3558.4	3498.0	3446.2	3373.4	3304.5	3221.8	3101.7	2980.3
23°	4138.5	4101.7	4068.3	4027.6	3962.6	3925.9	3821.5	3746.1	3638.5	3509.9	3393.1
24°	4591.9	4535.4	4514.4	4442.3	4423.9	4341.2	4256.6	4158.1	4028.2	3891.1	3761.8
25°	4912.7	4921.3	4902.9	4894.4	4800.5	4715.9	4631.9	4480.3	4369.4	4248.0	4049.2
26°	5256.6	5260.5	5251.3	5188.3	5103.7	5021.0	4912.7	4780.9	4620.1	4485.6	4305.8
27°	5519.7	5504.0	5490.8	5416.0	5346.5	5242.1	5143.7	4987.5	4830.7	4670.6	4462.0
28°	5729.7	5700.1	5683.7	5619.4	5538.1	5410.1	5289.4	5143.7	4986.9	4815.0	4589.3
29°	5856.3	5824.8	5806.4	5735.6	5641.7	5529.5	5407.5	5247.4	5078.8	4887.2	4660.1
30°	5900.3	5881.9	5853.0	5779.5	5682.4	5565.6	5440.3	5266.4	5089.9	4893.7	4653.6
31°	5871.4	5847.8	5820.2	5740.8	5635.8	5524.3	5378.6	5196.2	5010.5	4823.5	4568.9
32°	5756.6	5742.1	5708.7	5602.4	5517.1	5372.7	5229.0	5058.4	4855.7	4654.9	4424.6
33°	5541.4	5517.7	5488.9	5391.7	5282.8	5144.4	5001.3	4826.8	4625.3	4413.4	4160.1
34°	5213.3	5183.1	5147.0	5082.0	4942.9	4822.8	4657.5	4453.4	4286.8	4083.3	3854.3
35°	4761.8	4717.9	4674.6	4625.3	4469.2	4358.3	4246.7	4068.9	3908.1	3716.5	3457.4
36°	4255.3	4238.2	4202.8	4072.8	4022.3	3871.4	3781.5	3577.4	3447.5	3259.9	3045.9
37°	3682.4	3582.0	3633.2	3560.4	3408.1	3360.9	3253.9	3078.7	2938.3	2740.2	2585.3
38°	3068.2	3002.6	3038.7	2965.2	2885.8	2776.9	2695.5	2567.6	2410.1	2254.6	2107.6
39°	2431.8	2378.6	2418.0	2368.1	2247.4	2202.1	2129.9	2032.2	1905.5	1784.1	1645.0
40°	1833.3	1765.1	1817.6	1746.7	1691.6	1617.5	1580.7	1490.8	1412.1	1339.2	1250.7
42.5°	837.3	830.1	818.2	792.7	786.7	787.4	742.1	712.6	672.6	626.0	597.8
45°	366.1	375.3	383.2	368.8	368.1	360.2	357.6	337.9	330.1	315.0	296.6
47.5°	180.4	183.7	181.8	185.7	182.4	177.2	175.9	173.2	165.4	164.7	156.2
50°	42.7	42.0	42.0	42.7	42.0	42.0	41.3	40.0	39.4	40.0	38.1
52.5°	13.8	14.4	13.8	13.1	13.8	14.4	13.8	13.8	13.8	13.8	13.8
55°	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	3.3	3.3	3.3
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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	40.0	34.1	28.2	22.3	16.4	13.1	12.5	11.8
5°	60.4	48.6	32.2	19.0	11.2	7.9	5.9	5.2
7.5°	81.4	60.4	35.4	15.7	7.9	3.3	1.3	0.7
10°	116.8	71.5	36.7	12.5	3.9	0.0	0.0	0.0
12.5°	229.0	82.0	36.1	9.8	0.7	0.0	0.0	0.0
15°	380.6	114.8	33.5	6.6	0.0	0.0	0.0	0.0
17.5°	623.4	148.3	28.9	4.6	0.0	0.0	0.0	0.0
20°	966.5	164.7	22.3	2.0	0.0	0.0	0.0	0.0
21°	1133.2	166.0	19.7	1.3	0.0	0.0	0.0	0.0
22°	1277.6	166.0	17.1	0.7	0.0	0.0	0.0	0.0
23°	1411.4	164.0	15.1	0.0	0.0	0.0	0.0	0.0
24°	1521.7	161.4	13.8	0.0	0.0	0.0	0.0	0.0
25°	1604.3	157.5	12.5	0.0	0.0	0.0	0.0	0.0
26°	1642.4	152.2	10.5	0.0	0.0	0.0	0.0	0.0
27°	1661.4	145.0	9.2	0.0	0.0	0.0	0.0	0.0
28°	1648.3	137.1	7.9	0.0	0.0	0.0	0.0	0.0
29°	1615.5	128.6	5.9	0.0	0.0	0.0	0.0	0.0
30°	1572.8	118.8	4.6	0.0	0.0	0.0	0.0	0.0
31°	1510.5	108.9	3.3	0.0	0.0	0.0	0.0	0.0
32°	1425.2	99.1	2.6	0.0	0.0	0.0	0.0	0.0
33°	1311.0	88.6	1.3	0.0	0.0	0.0	0.0	0.0
34°	1170.0	78.1	0.7	0.0	0.0	0.0	0.0	0.0
35°	1011.8	68.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	876.0	59.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	739.5	47.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	619.4	37.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	512.5	30.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	424.5	20.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	234.9	13.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	142.4	7.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	82.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.6	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.3	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.3	1.3	0.7	0.0	0.0	0.0
67.5°	0.0	0.0	1.3	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.3	2.0	0.7	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	0.7	1.3	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.3	2.0	0.7	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)