

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: P1310348

Luminaire Tested: P3SQAS17R159040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310348
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: P3SQAS17R159040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

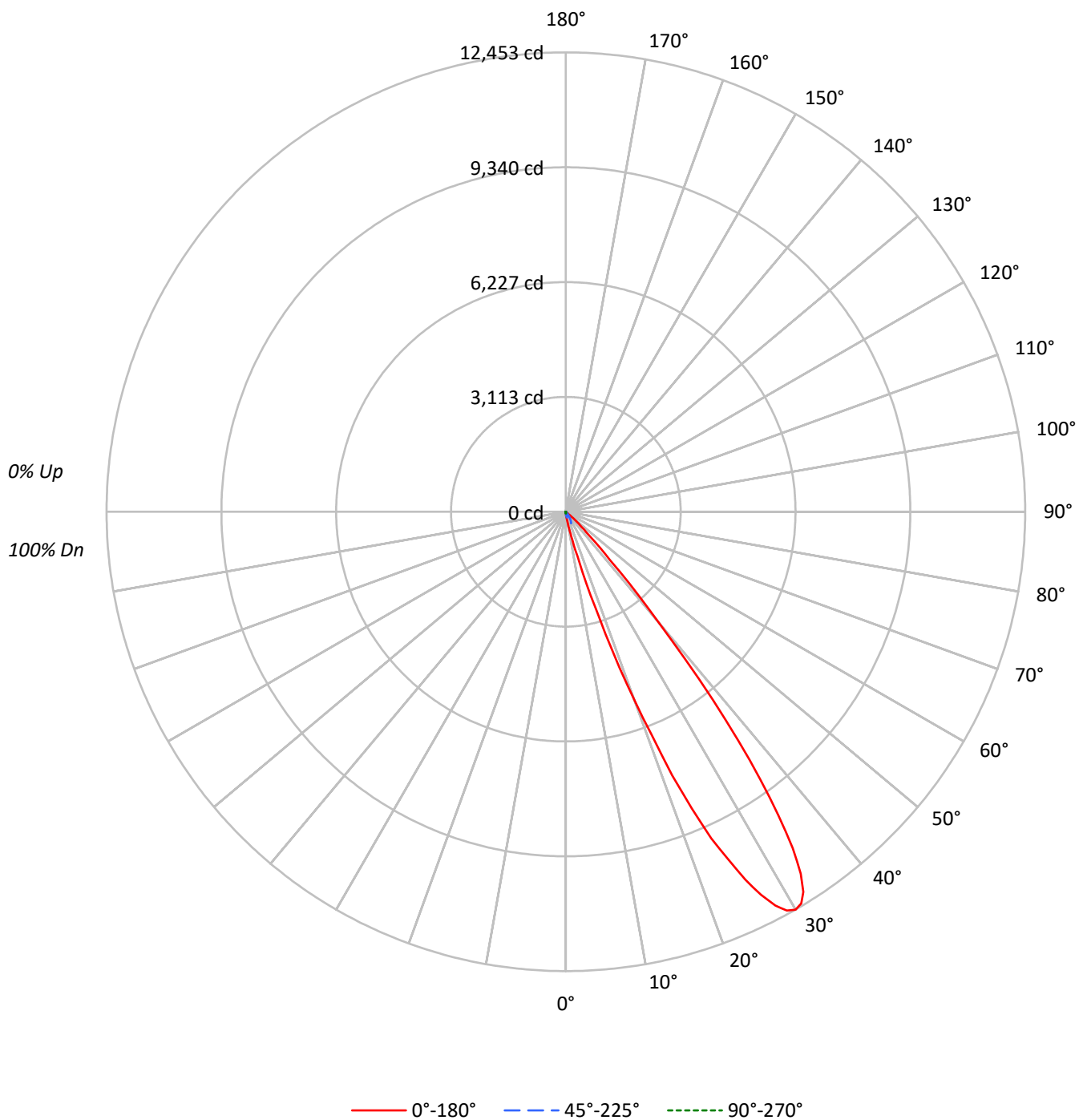
Lumens per Lamp: N/A
Luminaire Lumens: 1317.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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°	8112	8112	8112	8112	8112
5°	23460	17720	6950	2870	1919
10°	61033	26407	4599	0	0
15°	243965	43219	2461	0	0
20°	996744	63707	770	0	0
25°	1970329	63165	0	0	0
30°	2476473	49856	0	0	0
35°	2113005	30570	0	0	0
40°	869921	9645	0	0	0
45°	188223	4043	0	0	0
50°	24114	0	0	0	0
55°	2072	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2115	0	0
75°	0	932	2795	0	0
80°	0	1389	4166	0	0
85°	0	2766	8299	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 196991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.5
10°-20°	92.3	7.0
20°-30°	538.0	40.8
30°-40°	576.8	43.8
40°-50°	97.3	7.4
50°-60°	2.9	0.2
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	636.6	48.3
0°-40°	1213.4	92.1
0°-60°	1313.7	99.7
0°-90°	1317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	136	102	40	17	11	19
15°	1368	242	14	0	0	633
25°	10369	332	0	0	0	4691
35°	10050	145	0	0	0	5776
45°	773	17	0	0	0	913
55°	7	0	1	0	0	17
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	85.9	87.2	88.6	88.6	88.6	88.6	87.2	87.2	87.2	87.2	85.9
5°	135.7	135.7	135.7	135.7	135.7	135.7	134.3	134.3	134.3	134.3	134.3
7.5°	193.9	191.1	192.5	188.3	191.1	189.7	188.3	191.1	191.1	184.2	184.2
10°	349.0	347.6	333.8	336.5	339.3	337.9	337.9	329.6	328.2	322.7	317.1
12.5°	673.1	688.3	699.4	699.4	673.1	682.8	664.8	668.9	671.7	663.4	634.3
15°	1368.3	1393.2	1366.9	1391.8	1382.1	1346.1	1306.0	1251.9	1272.7	1235.3	1222.9
17.5°	2996.9	3053.7	3030.2	2915.2	2952.6	2864.0	2808.6	2787.8	2729.6	2556.5	2484.5
20°	5438.5	5507.7	5442.6	5308.3	5351.2	5183.7	5140.7	5100.6	4843.0	4748.8	4446.9
21°	6466.1	6522.9	6547.8	6407.9	6322.1	6189.1	6078.3	6042.3	5885.8	5704.4	5394.2
22°	7707.0	7640.5	7490.9	7510.3	7382.9	7273.5	7119.8	6974.3	6799.8	6546.4	6290.2
23°	8734.5	8657.0	8586.4	8500.5	8363.4	8285.8	8065.6	7906.4	7679.3	7407.8	7161.3
24°	9691.5	9572.4	9528.1	9375.8	9337.0	9162.5	8983.8	8776.1	8501.9	8212.4	7939.6
25°	10368.7	10386.7	10347.9	10329.9	10131.9	9953.3	9776.0	9456.1	9222.0	8965.8	8546.2
26°	11094.4	11102.7	11083.3	10950.4	10771.7	10597.2	10368.7	10090.4	9751.1	9467.2	9087.7
27°	11649.8	11616.5	11588.8	11430.9	11284.1	11063.9	10856.2	10526.6	10195.6	9857.7	9417.3
28°	12092.9	12030.6	11996.0	11860.3	11688.5	11418.5	11163.7	10856.2	10525.2	10162.4	9686.0
29°	12360.2	12293.7	12255.0	12105.4	11907.3	11670.5	11412.9	11075.0	10719.1	10314.7	9835.5
30°	12453.0	12414.2	12353.3	12198.2	11993.2	11746.7	11482.2	11115.2	10742.6	10328.6	9821.7
31°	12392.1	12342.2	12284.0	12116.5	11894.9	11659.4	11352.0	10967.0	10575.1	10180.4	9643.0
32°	12149.7	12119.2	12048.6	11824.2	11644.2	11339.5	11036.2	10676.2	10248.2	9824.5	9338.4
33°	11695.5	11645.6	11584.7	11379.7	11149.8	10857.6	10555.7	10187.3	9762.1	9314.8	8780.2
34°	11003.0	10939.3	10863.1	10726.0	10432.4	10179.0	9830.0	9399.3	9047.5	8618.2	8134.9
35°	10050.2	9957.4	9866.0	9762.1	9432.5	9198.5	8963.1	8587.7	8248.4	7844.1	7297.0
36°	8981.1	8945.0	8870.3	8596.1	8489.4	8170.9	7981.2	7550.5	7276.2	6880.2	6428.7
37°	7772.0	7560.2	7668.2	7514.4	7193.2	7093.4	6867.7	6497.9	6201.6	5783.3	5456.5
38°	6475.8	6337.3	6413.5	6258.3	6090.8	5860.9	5689.2	5419.1	5086.7	4758.5	4448.3
39°	5132.4	5020.3	5103.3	4998.1	4743.3	4647.7	4495.4	4289.0	4021.7	3765.5	3471.9
40°	3869.4	3725.4	3836.2	3686.6	3570.3	3413.8	3336.2	3146.5	2980.3	2826.6	2639.6
42.5°	1767.1	1751.9	1727.0	1673.0	1660.5	1661.9	1566.3	1504.0	1419.5	1321.2	1261.6
45°	772.8	792.2	808.8	778.3	776.9	760.3	754.8	713.2	696.6	664.8	626.0
47.5°	380.8	387.8	383.6	391.9	385.0	373.9	371.2	365.6	349.0	347.6	329.6
50°	90.0	88.6	88.6	90.0	88.6	88.6	87.2	84.5	83.1	84.5	80.3
52.5°	29.1	30.5	29.1	27.7	29.1	30.5	29.1	29.1	29.1	29.1	29.1
55°	6.9	6.9	6.9	6.9	6.9	6.9	5.5	5.5	6.9	6.9	6.9
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°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	84.5	72.0	59.6	47.1	34.6	27.7	26.3	24.9
5°	127.4	102.5	67.9	40.2	23.5	16.6	12.5	11.1
7.5°	171.7	127.4	74.8	33.2	16.6	6.9	2.8	1.4
10°	246.5	151.0	77.6	26.3	8.3	0.0	0.0	0.0
12.5°	483.3	173.1	76.2	20.8	1.4	0.0	0.0	0.0
15°	803.2	242.4	70.6	13.8	0.0	0.0	0.0	0.0
17.5°	1315.7	313.0	60.9	9.7	0.0	0.0	0.0	0.0
20°	2040.0	347.6	47.1	4.2	0.0	0.0	0.0	0.0
21°	2391.7	350.4	41.5	2.8	0.0	0.0	0.0	0.0
22°	2696.4	350.4	36.0	1.4	0.0	0.0	0.0	0.0
23°	2978.9	346.2	31.9	0.0	0.0	0.0	0.0	0.0
24°	3211.6	340.7	29.1	0.0	0.0	0.0	0.0	0.0
25°	3386.1	332.4	26.3	0.0	0.0	0.0	0.0	0.0
26°	3466.4	321.3	22.2	0.0	0.0	0.0	0.0	0.0
27°	3506.6	306.1	19.4	0.0	0.0	0.0	0.0	0.0
28°	3478.9	289.4	16.6	0.0	0.0	0.0	0.0	0.0
29°	3409.6	271.4	12.5	0.0	0.0	0.0	0.0	0.0
30°	3319.6	250.7	9.7	0.0	0.0	0.0	0.0	0.0
31°	3188.0	229.9	6.9	0.0	0.0	0.0	0.0	0.0
32°	3008.0	209.1	5.5	0.0	0.0	0.0	0.0	0.0
33°	2767.0	187.0	2.8	0.0	0.0	0.0	0.0	0.0
34°	2469.3	164.8	1.4	0.0	0.0	0.0	0.0	0.0
35°	2135.5	145.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	1848.8	124.6	0.0	0.0	0.0	0.0	0.0	0.0
37°	1560.8	99.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	1307.3	78.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	1081.6	63.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	896.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	495.8	29.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	300.5	16.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	174.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	66.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.5	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	0.0	2.8	4.2	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.2	1.4	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	1.4	2.8	4.2	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.2	1.4	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)