

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: P1308128

Luminaire Tested: P3SQAS17R209030DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R209030DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

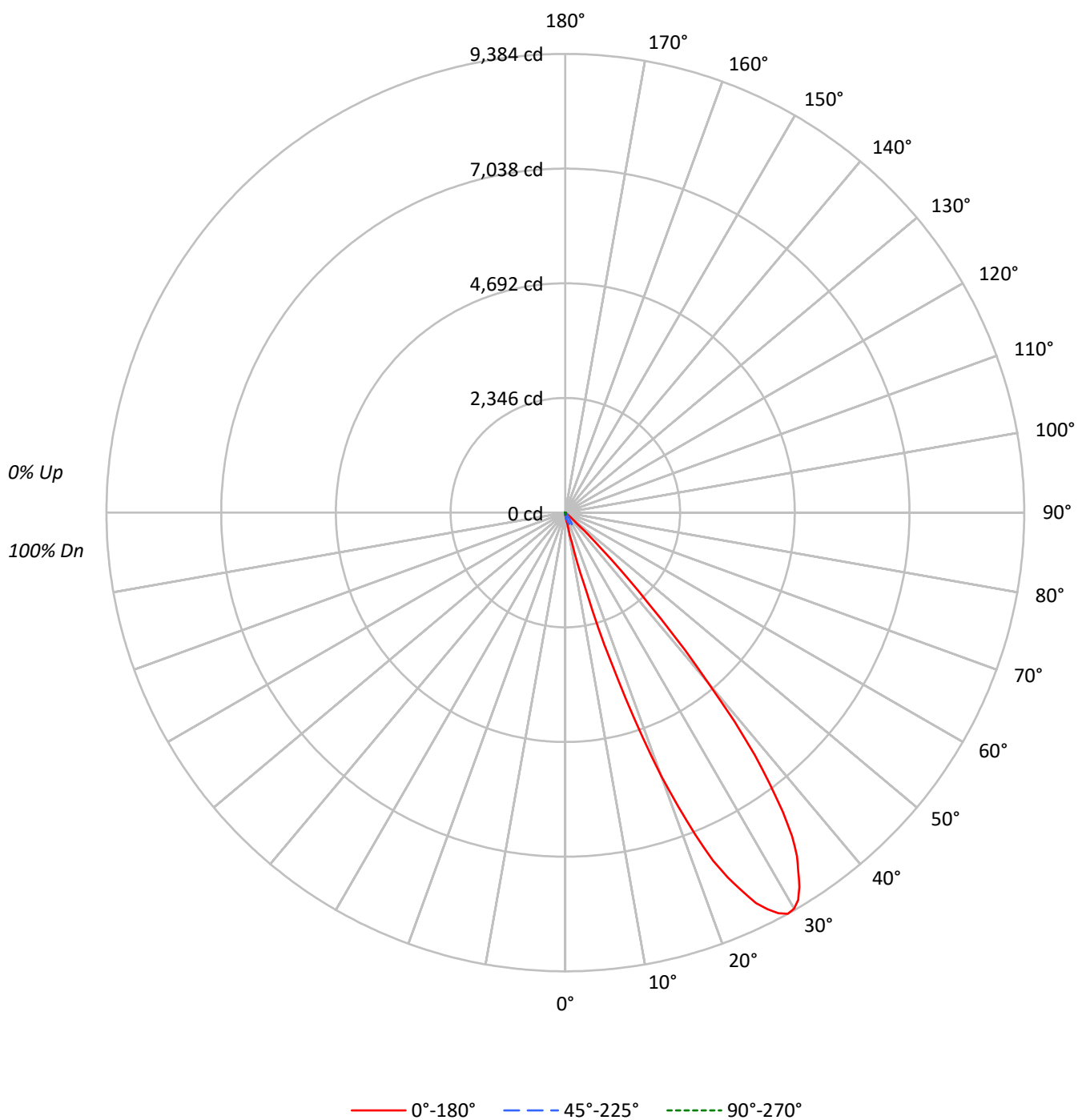
Lumens per Lamp: N/A
Luminaire Lumens: 1295.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7991	7991	7991	7991	7991
5°	17374	12240	7347	3337	2455
10°	43248	21615	5176	682	0
15°	304266	29615	2978	0	0
20°	1051580	49814	1173	0	0
25°	1620908	63640	494	0	0
30°	1860487	49179	0	0	0
35°	1699137	18691	0	0	0
40°	1018640	8678	0	0	0
45°	250331	4067	0	0	0
50°	27597	1045	0	0	0
55°	3873	0	390	0	0
60°	0	0	896	0	0
65°	0	0	1060	0	0
70°	0	655	1964	0	0
75°	0	865	2595	0	0
80°	0	1289	3868	0	0
85°	0	2569	7707	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 266941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.4
10°-20°	101.1	7.8
20°-30°	511.6	39.5
30°-40°	553.5	42.7
40°-50°	116.9	9.0
50°-60°	3.5	0.3
60°-70°	0.9	0.1
70°-80°	1.2	0.1
80°-90°	1.1	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°	618.0	47.7
0°-40°	1171.5	90.5
0°-60°	1291.9	99.8
0°-90°	1295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	100	71	42	19	14	14
15°	1706	166	17	0	0	711
25°	8530	335	3	0	0	3856
35°	8082	89	0	0	0	4766
45°	1028	17	0	0	0	1131
55°	13	0	1	0	0	23
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°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	63.1	61.8	63.1	61.8	63.1	63.1	63.1	61.8	61.8	61.8	61.8
5°	100.5	100.5	99.2	100.5	100.5	100.5	100.5	99.2	99.2	97.9	97.9
7.5°	158.4	158.4	157.1	157.1	158.4	159.7	154.6	157.1	157.1	157.1	155.8
10°	247.3	252.4	247.3	253.7	248.6	244.7	251.1	244.7	244.7	243.4	239.6
12.5°	623.4	609.2	600.2	578.3	600.2	583.4	587.3	583.4	570.5	553.8	543.5
15°	1706.5	1706.5	1656.3	1723.2	1674.3	1692.3	1599.6	1600.9	1553.2	1501.7	1473.4
17.5°	3567.5	3599.7	3566.3	3545.7	3501.9	3438.8	3413.0	3347.3	3261.0	3160.6	3149.0
20°	5737.7	5602.5	5665.6	5607.6	5571.6	5494.3	5408.0	5353.9	5277.9	5150.4	4962.4
21°	6420.3	6415.1	6413.9	6412.6	6359.8	6233.5	6155.0	6046.8	5939.9	5808.5	5651.4
22°	7108.0	7132.5	7142.8	7068.1	6959.9	6903.3	6849.2	6701.1	6532.3	6464.1	6277.3
23°	7739.1	7715.9	7649.0	7614.2	7530.5	7513.7	7352.8	7258.7	7093.9	7019.2	6797.7
24°	8169.3	8157.7	8126.8	8075.3	8008.3	7905.3	7808.7	7660.6	7525.3	7403.0	7196.9
25°	8529.9	8540.2	8483.5	8448.8	8376.7	8260.7	8142.2	7980.0	7853.8	7710.8	7472.5
26°	8886.7	8814.5	8769.5	8718.0	8639.4	8506.7	8392.1	8246.6	8093.3	7933.6	7700.5
27°	9106.9	9042.5	8974.2	8924.0	8833.9	8707.6	8585.3	8424.3	8253.0	8092.0	7852.5
28°	9280.8	9209.9	9143.0	9082.4	8979.4	8844.2	8697.3	8533.8	8356.0	8189.9	7945.2
29°	9383.8	9300.1	9228.0	9159.7	9065.7	8918.9	8770.8	8595.6	8424.3	8250.4	8000.6
30°	9355.5	9283.3	9213.8	9144.3	9048.9	8911.1	8764.3	8596.9	8424.3	8253.0	7999.3
31°	9244.7	9155.8	9105.6	9036.1	8953.6	8813.3	8687.0	8504.2	8348.3	8162.9	7909.1
32°	9032.2	8975.5	8908.6	8854.5	8774.6	8625.2	8501.6	8352.2	8168.0	8016.0	7749.4
33°	8743.7	8690.9	8657.4	8594.3	8517.0	8414.0	8265.9	8129.4	7922.0	7766.2	7499.6
34°	8468.1	8401.1	8317.4	8299.4	8232.4	8099.7	7965.8	7826.7	7641.2	7442.9	7173.7
35°	8081.7	8012.2	7934.9	7941.3	7861.5	7706.9	7570.4	7414.6	7238.1	7005.0	6750.0
36°	7565.3	7518.9	7507.3	7476.4	7385.0	7200.8	7070.7	6874.9	6726.8	6442.2	6223.2
37°	6935.5	6952.2	6868.5	6828.6	6721.7	6592.9	6519.5	6268.3	6095.7	5881.9	5585.7
38°	6299.2	6274.8	6175.6	6200.1	6053.2	5919.3	5711.9	5562.5	5369.4	5171.0	4934.0
39°	5504.6	5444.1	5325.6	5330.7	5220.0	5069.3	4868.3	4691.9	4576.0	4385.4	4158.7
40°	4530.9	4505.2	4463.9	4395.7	4250.1	4184.5	4005.4	3814.8	3716.9	3452.9	3342.2
42.5°	2514.0	2479.3	2409.7	2385.2	2308.0	2230.7	2126.4	1998.9	1937.0	1858.5	1683.3
45°	1027.8	1096.0	1079.3	1060.0	1000.7	1004.6	929.9	938.9	870.6	824.3	792.1
47.5°	226.7	246.0	247.3	238.3	247.3	239.6	235.7	229.3	230.5	234.4	225.4
50°	103.0	101.7	104.3	103.0	101.7	100.5	99.2	95.3	97.9	95.3	92.7
52.5°	39.9	41.2	41.2	38.6	39.9	39.9	39.9	38.6	38.6	38.6	38.6
55°	12.9	12.9	12.9	11.6	11.6	12.9	12.9	12.9	12.9	12.9	11.6
57.5°	1.3	2.6	1.3	2.6	1.3	1.3	1.3	1.3	1.3	2.6	2.6
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°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	59.2	54.1	50.2	46.4	38.6	32.2	29.6	29.6
5°	91.4	70.8	52.8	42.5	29.6	19.3	15.5	14.2
7.5°	137.8	95.3	55.4	36.1	19.3	10.3	6.4	5.2
10°	199.6	123.6	58.0	29.6	11.6	3.9	0.0	0.0
12.5°	349.0	148.1	58.0	23.2	5.2	0.0	0.0	0.0
15°	799.8	166.1	55.4	16.7	1.3	0.0	0.0	0.0
17.5°	1661.4	208.6	48.9	11.6	0.0	0.0	0.0	0.0
20°	2653.1	271.8	38.6	6.4	0.0	0.0	0.0	0.0
21°	3061.4	293.6	34.8	5.2	0.0	0.0	0.0	0.0
22°	3355.0	314.3	30.9	3.9	0.0	0.0	0.0	0.0
23°	3678.3	327.1	27.0	2.6	0.0	0.0	0.0	0.0
24°	3916.6	334.9	23.2	2.6	0.0	0.0	0.0	0.0
25°	4064.7	334.9	20.6	2.6	0.0	0.0	0.0	0.0
26°	4152.3	327.1	18.0	1.3	0.0	0.0	0.0	0.0
27°	4172.9	314.3	15.5	1.3	0.0	0.0	0.0	0.0
28°	4147.1	297.5	12.9	0.0	0.0	0.0	0.0	0.0
29°	4066.0	273.0	11.6	0.0	0.0	0.0	0.0	0.0
30°	3978.4	247.3	9.0	0.0	0.0	0.0	0.0	0.0
31°	3829.0	212.5	7.7	0.0	0.0	0.0	0.0	0.0
32°	3656.4	176.4	6.4	0.0	0.0	0.0	0.0	0.0
33°	3425.9	139.1	5.2	0.0	0.0	0.0	0.0	0.0
34°	3085.9	109.5	5.2	0.0	0.0	0.0	0.0	0.0
35°	2780.6	88.9	3.9	0.0	0.0	0.0	0.0	0.0
36°	2381.4	70.8	3.9	0.0	0.0	0.0	0.0	0.0
37°	2040.1	59.2	3.9	0.0	0.0	0.0	0.0	0.0
38°	1707.8	50.2	2.6	0.0	0.0	0.0	0.0	0.0
39°	1385.8	43.8	2.6	0.0	0.0	0.0	0.0	0.0
40°	1105.0	38.6	2.6	0.0	0.0	0.0	0.0	0.0
42.5°	596.3	25.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	329.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	145.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	48.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11.6	0.0	0.0	1.3	0.0	0.0	0.0	0.0
57.5°	2.6	0.0	0.0	1.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.3	2.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.3	2.6	1.3	0.0	0.0	0.0
65°	0.0	0.0	2.6	2.6	1.3	0.0	0.0	0.0
67.5°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
70°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
72.5°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
75°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
77.5°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
80°	0.0	1.3	2.6	3.9	1.3	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	1.3	2.6	3.9	1.3	0.0	0.0	0.0
85°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
87.5°	0.0	1.3	2.6	3.9	1.3	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)