

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: P1307563

Luminaire Tested: P3SQAS02R509030DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509030DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

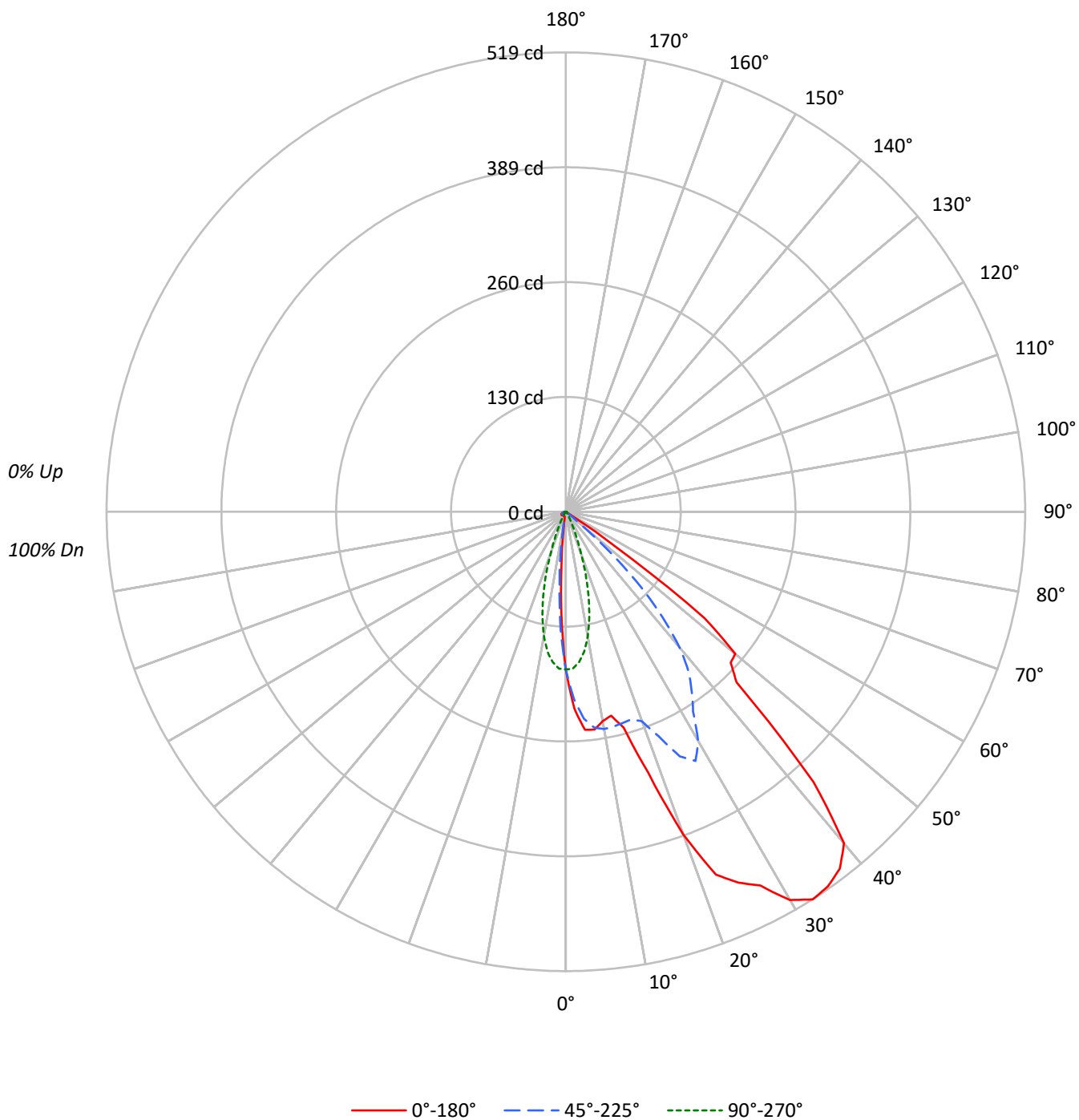
Lumens per Lamp: N/A
Luminaire Lumens: 277.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30673	30673	30673	30673	30673
5°	42771	40575	29476	14176	9197
10°	41989	43597	24920	2990	1277
15°	45020	44057	17616	1052	998
20°	71093	46149	9292	898	935
25°	87849	57939	3706	836	931
30°	100725	59421	1511	815	974
35°	108592	52162	673	862	1072
40°	109915	44919	495	989	1214
45°	66419	29105	487	1072	1364
50°	66929	5037	536	1232	1581
55°	19787	300	601	1381	1772
60°	344	344	586	1516	1929
65°	285	285	611	1589	2078
70°	352	352	604	1712	2316
75°	333	333	665	1797	2462
80°	198	496	694	1686	2678
85°	395	988	988	1976	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 75869 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	5.2
10°-20°	35.8	12.9
20°-30°	67.0	24.2
30°-40°	80.1	28.9
40°-50°	57.4	20.7
50°-60°	17.7	6.4
60°-70°	2.3	0.8
70°-80°	1.7	0.6
80°-90°	0.7	0.2
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°	117.1	42.3
0°-40°	197.2	71.2
0°-60°	272.3	98.3
0°-90°	277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	277.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	178	178	178	178	178	
5°	247	235	170	82	53	23
15°	252	247	99	6	6	81
25°	462	305	20	4	5	213
35°	516	248	3	4	5	320
45°	273	120	2	4	6	250
55°	66	1	2	5	6	85
65°	1	1	2	4	5	1
75°	0	0	1	3	4	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	222.7	223.2	224.0	222.0	220.8	219.8	218.1	217.6	213.5	211.8	210.0
5°	247.4	246.9	247.4	246.6	246.2	244.7	243.2	240.8	238.1	234.7	230.8
7.5°	248.1	247.6	248.6	248.6	249.6	249.6	249.6	249.8	248.3	245.9	242.5
10°	240.1	240.1	241.0	240.5	242.2	243.0	244.7	247.6	249.1	249.3	248.3
12.5°	235.9	235.9	236.1	235.2	235.7	236.4	238.3	241.8	245.2	248.6	250.5
15°	252.5	253.0	249.6	244.7	241.0	237.1	235.9	238.1	241.8	247.1	251.5
17.5°	308.8	309.6	305.9	294.2	283.0	266.9	252.5	245.4	241.5	245.9	251.8
20°	387.9	385.2	378.9	366.4	350.1	325.2	302.7	280.1	258.3	251.8	253.7
22.5°	443.8	442.8	437.7	423.8	409.6	386.4	357.9	326.2	294.7	274.7	264.2
25°	462.3	461.6	456.9	448.6	440.8	423.3	397.6	365.7	332.8	304.9	278.6
27.5°	476.2	475.2	467.9	458.6	450.6	432.8	409.4	385.2	355.0	317.4	276.9
30°	506.5	503.8	493.5	476.9	461.6	436.9	411.1	381.1	340.1	298.8	259.3
32.5°	519.1	517.7	508.9	495.5	478.6	446.4	407.2	356.9	303.0	267.4	238.6
35°	516.5	514.3	505.2	489.9	469.4	438.4	385.9	316.9	273.0	248.1	215.7
37.5°	508.4	505.2	494.5	476.4	451.6	411.1	342.5	284.5	256.2	228.1	184.4
40°	488.9	483.8	471.3	452.5	427.7	374.5	303.0	264.9	238.6	199.8	149.5
42.5°	414.2	411.6	417.7	414.5	392.5	329.8	274.9	247.1	210.8	161.5	108.3
45°	272.7	277.4	288.4	307.1	311.5	283.7	252.0	217.9	173.5	119.5	62.5
47.5°	252.5	251.5	254.2	257.9	258.6	246.9	218.1	180.0	128.8	68.3	17.3
50°	249.8	248.3	246.2	241.8	232.5	209.8	177.1	131.2	74.4	18.8	1.2
52.5°	197.4	195.9	195.9	189.6	177.6	155.6	122.2	72.2	20.7	1.2	1.0
55°	65.9	70.3	69.5	69.3	74.7	68.8	52.7	18.5	1.7	1.0	1.0
57.5°	1.2	1.2	1.2	2.2	3.4	4.9	2.9	1.5	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
77.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	178.1	178.1	178.1	178.1	178.1	178.1	178.1	178.1
2.5°	206.1	202.7	196.1	177.4	156.6	133.0	116.9	114.9
5°	224.7	219.6	208.8	170.5	123.2	82.0	61.0	53.2
7.5°	236.9	230.0	216.9	159.3	89.8	43.2	23.2	18.5
10°	244.2	237.9	221.0	142.5	57.1	17.1	7.8	7.3
12.5°	248.1	242.0	222.5	122.2	32.2	7.8	6.1	6.1
15°	250.8	244.2	220.3	98.8	16.1	5.9	5.6	5.6
17.5°	252.0	244.0	213.9	74.4	8.5	5.4	5.4	5.4
20°	252.7	241.3	202.2	50.7	5.9	4.9	5.1	5.1
22.5°	253.5	234.7	186.9	32.2	4.6	4.6	4.9	4.9
25°	252.0	223.2	165.2	19.5	4.1	4.4	4.6	4.9
27.5°	241.5	205.9	138.8	12.0	3.7	4.1	4.6	4.9
30°	223.5	180.5	108.3	7.6	3.4	4.1	4.6	4.9
32.5°	200.0	151.5	77.3	4.6	3.4	4.1	4.6	4.9
35°	168.6	115.9	50.3	3.2	3.4	4.1	4.9	5.1
37.5°	133.2	81.0	27.1	2.4	3.4	4.1	4.9	5.1
40°	95.9	48.5	9.8	2.2	3.2	4.4	5.1	5.4
42.5°	56.1	18.1	1.7	2.0	3.2	4.4	5.1	5.4
45°	16.1	2.0	1.0	2.0	3.2	4.4	5.4	5.6
47.5°	1.2	0.7	1.0	2.0	3.2	4.4	5.4	5.9
50°	0.7	0.7	0.7	2.0	3.2	4.6	5.6	5.9
52.5°	1.0	1.0	1.0	2.0	3.2	4.6	5.6	5.9
55°	1.0	1.0	1.0	2.0	3.2	4.6	5.6	5.9
57.5°	1.0	1.0	1.0	2.0	3.2	4.4	5.6	5.9
60°	1.0	1.0	1.0	1.7	2.9	4.4	5.4	5.6
62.5°	1.0	1.0	1.0	1.7	2.9	4.1	5.4	5.4
65°	1.0	1.0	1.0	1.5	2.7	3.9	4.9	5.1
67.5°	1.0	1.0	1.0	1.5	2.4	3.7	4.6	4.9
70°	0.7	1.0	1.0	1.2	2.2	3.4	4.4	4.6
72.5°	0.7	0.7	1.0	1.2	2.0	2.9	3.9	4.1
75°	0.7	0.7	0.7	1.0	1.7	2.7	3.4	3.7
77.5°	0.7	0.7	0.7	1.0	1.5	2.2	3.2	3.2
80°	0.5	0.7	0.7	0.7	1.2	1.7	2.4	2.7
82.5°	0.5	0.5	0.5	0.7	1.0	1.5	2.0	2.0
85°	0.5	0.5	0.5	0.5	0.7	1.0	1.2	1.2
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)