

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: P1316727

Luminaire Tested: P3SQAS02R509830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

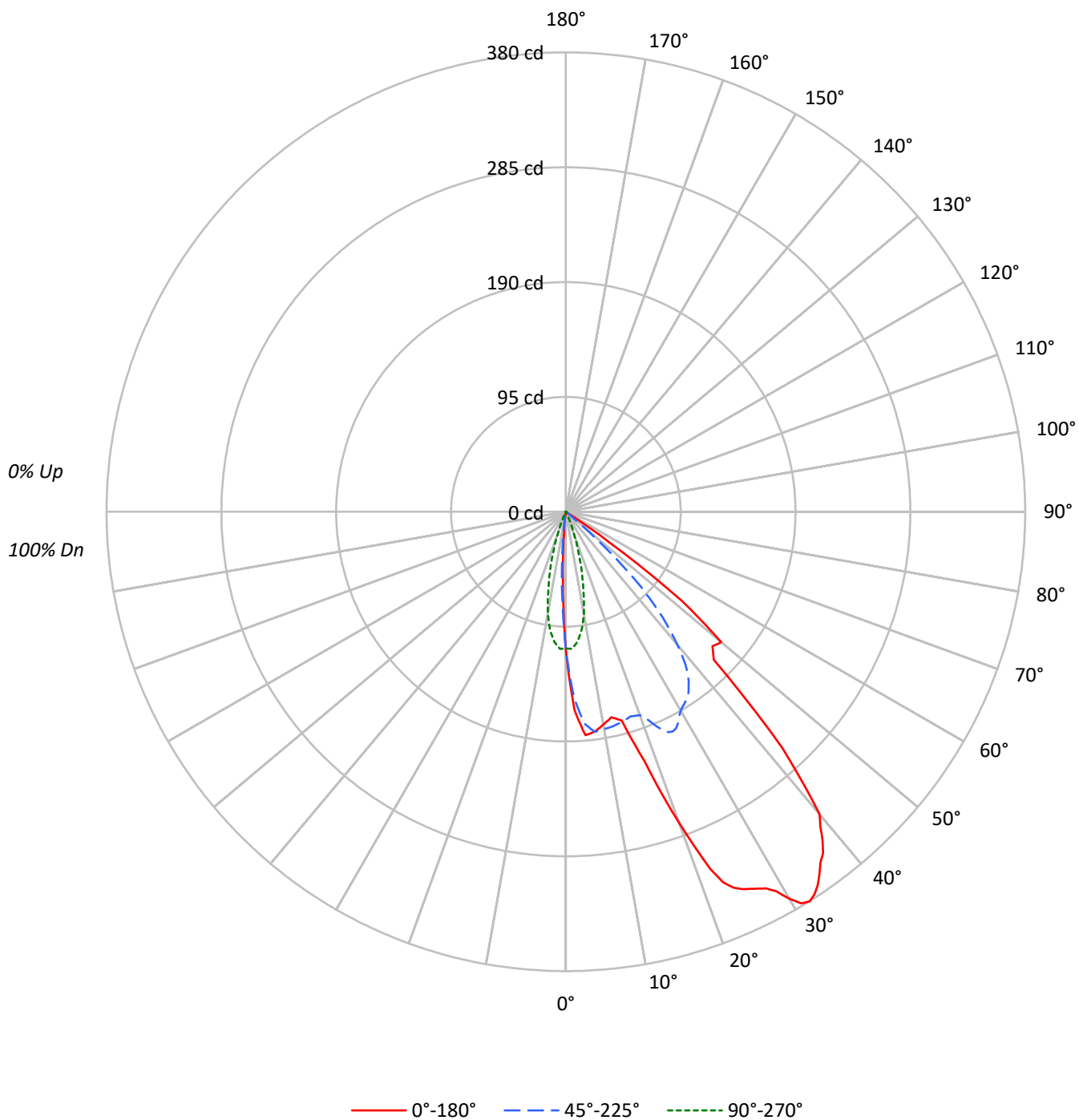
Lumens per Lamp: N/A
Luminaire Lumens: 182.0 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
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°	19461	19461	19461	19461	19461
5°	32069	30427	18706	5549	2783
10°	31251	31933	14987	280	367
15°	31862	32058	8968	285	89
20°	50217	32825	3702	0	0
25°	65464	38233	874	0	0
30°	73481	37804	40	0	0
35°	76908	37234	0	0	0
40°	73359	32352	0	0	0
45°	42136	21360	0	0	0
50°	44959	2438	0	0	0
55°	12821	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	397	198	0
85°	0	395	790	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 46520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	5.2
10°-20°	23.9	13.1
20°-30°	45.9	25.2
30°-40°	53.5	29.4
40°-50°	38.3	21.0
50°-60°	10.6	5.8
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.1	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°	79.3	43.6
0°-40°	132.8	72.9
0°-60°	181.7	99.8
0°-90°	182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	182.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	113	113	113	113	113	
5°	186	176	108	32	16	17
15°	179	180	50	2	0	58
25°	344	201	5	0	0	157
35°	366	177	0	0	0	226
45°	173	88	0	0	0	163
55°	43	0	0	0	0	54
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
2.5°	164.2	165.1	165.3	163.2	163.5	160.5	160.7	158.5	153.3	135.3	113.5
5°	185.5	184.9	185.5	184.8	185.5	183.7	182.6	181.7	176.0	150.5	108.2
7.5°	183.5	182.8	183.9	184.2	185.5	184.9	185.1	185.7	183.7	158.7	99.1
10°	178.7	178.5	179.1	179.1	180.5	180.7	181.4	182.4	182.6	161.6	85.7
12.5°	174.1	173.5	173.5	173.3	174.1	173.9	175.7	178.2	181.6	159.8	67.3
15°	178.7	178.2	177.4	175.5	174.1	172.4	172.6	174.2	179.8	155.1	50.3
17.5°	216.2	213.3	209.8	203.5	196.9	185.5	178.7	174.4	177.6	148.0	33.6
20°	274.0	272.8	267.1	256.9	246.2	229.4	208.5	191.7	179.1	139.1	20.2
21°	296.0	295.3	289.2	279.7	267.6	247.2	225.8	205.7	181.9	135.3	15.9
22°	318.5	315.8	311.0	300.4	287.8	267.4	243.5	221.2	187.6	130.5	12.1
23°	332.9	331.3	326.1	317.8	305.6	285.8	261.3	237.1	193.2	125.1	9.1
24°	340.4	339.9	335.8	329.9	319.5	299.4	276.2	251.2	197.8	118.9	6.6
25°	344.5	342.8	340.3	336.0	328.1	310.6	289.9	263.5	201.2	112.6	4.6
26°	347.0	346.0	342.0	338.3	330.8	316.5	298.8	271.0	202.1	105.0	3.2
27°	349.9	347.4	343.6	339.2	330.8	318.3	302.2	274.2	201.0	97.1	2.1
28°	352.9	351.1	346.0	340.3	330.3	318.3	301.0	269.9	197.8	89.6	1.2
29°	358.8	356.5	350.1	341.7	330.4	317.9	296.2	261.0	193.5	81.2	0.7
30°	369.5	364.7	356.9	345.1	331.7	317.2	288.1	247.6	190.1	71.8	0.2
31°	377.9	375.2	366.1	351.3	335.3	315.3	278.7	234.4	187.8	63.6	0.0
32°	380.2	378.3	371.7	357.7	341.3	313.7	268.0	221.5	186.0	54.4	0.0
33°	377.6	376.3	369.3	356.7	342.9	311.5	255.6	208.9	184.0	46.2	0.0
34°	372.6	371.0	364.9	352.0	338.8	302.2	243.9	199.2	181.2	38.6	0.0
35°	365.8	364.5	358.3	345.6	331.3	287.8	232.1	192.8	177.1	30.9	0.0
36°	358.5	358.1	350.1	337.6	321.7	273.8	217.8	188.0	173.0	24.5	0.0
37°	353.6	351.9	343.1	330.8	310.3	257.6	206.4	186.4	167.3	18.9	0.0
38°	344.9	345.2	335.3	324.0	298.7	243.5	197.1	185.1	160.8	13.7	0.0
39°	334.5	334.7	324.4	314.7	284.9	228.7	189.4	183.9	152.8	8.7	0.0
40°	326.3	326.1	314.4	304.0	270.1	214.8	185.3	182.1	143.9	5.0	0.0
42.5°	265.3	266.3	267.8	272.1	235.3	190.3	181.4	172.1	118.5	0.0	0.0
45°	173.0	177.1	178.2	191.0	190.8	180.3	172.1	154.2	87.7	0.0	0.0
47.5°	164.6	165.8	168.2	173.2	175.8	170.7	153.9	128.9	47.8	0.0	0.0
50°	167.8	167.6	168.2	168.2	163.3	150.0	126.2	95.1	9.1	0.0	0.0
52.5°	120.5	125.0	129.8	131.9	125.7	111.6	92.1	55.9	0.0	0.0	0.0
55°	42.7	41.2	40.2	43.9	43.0	48.4	40.0	13.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.7	1.6	2.1	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	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
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):

	112.5°	135°	157.5°	180°
0°	113.0	113.0	113.0	113.0
2.5°	90.5	69.4	56.2	57.1
5°	63.6	32.1	19.8	16.1
7.5°	38.0	9.8	2.0	1.6
10°	17.9	1.6	1.8	2.1
12.5°	5.4	1.4	2.0	1.8
15°	1.4	1.6	0.9	0.5
17.5°	0.5	0.7	0.0	0.0
20°	0.4	0.0	0.0	0.0
21°	0.4	0.0	0.0	0.0
22°	0.2	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0
67.5°	0.2	0.0	0.0	0.0
70°	0.2	0.0	0.0	0.0
72.5°	0.2	0.0	0.0	0.0
75°	0.2	0.0	0.0	0.0
77.5°	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)