

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: P1307561

Luminaire Tested: P3SQAS02R509030DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307561
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: P3SQAS02R509030DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

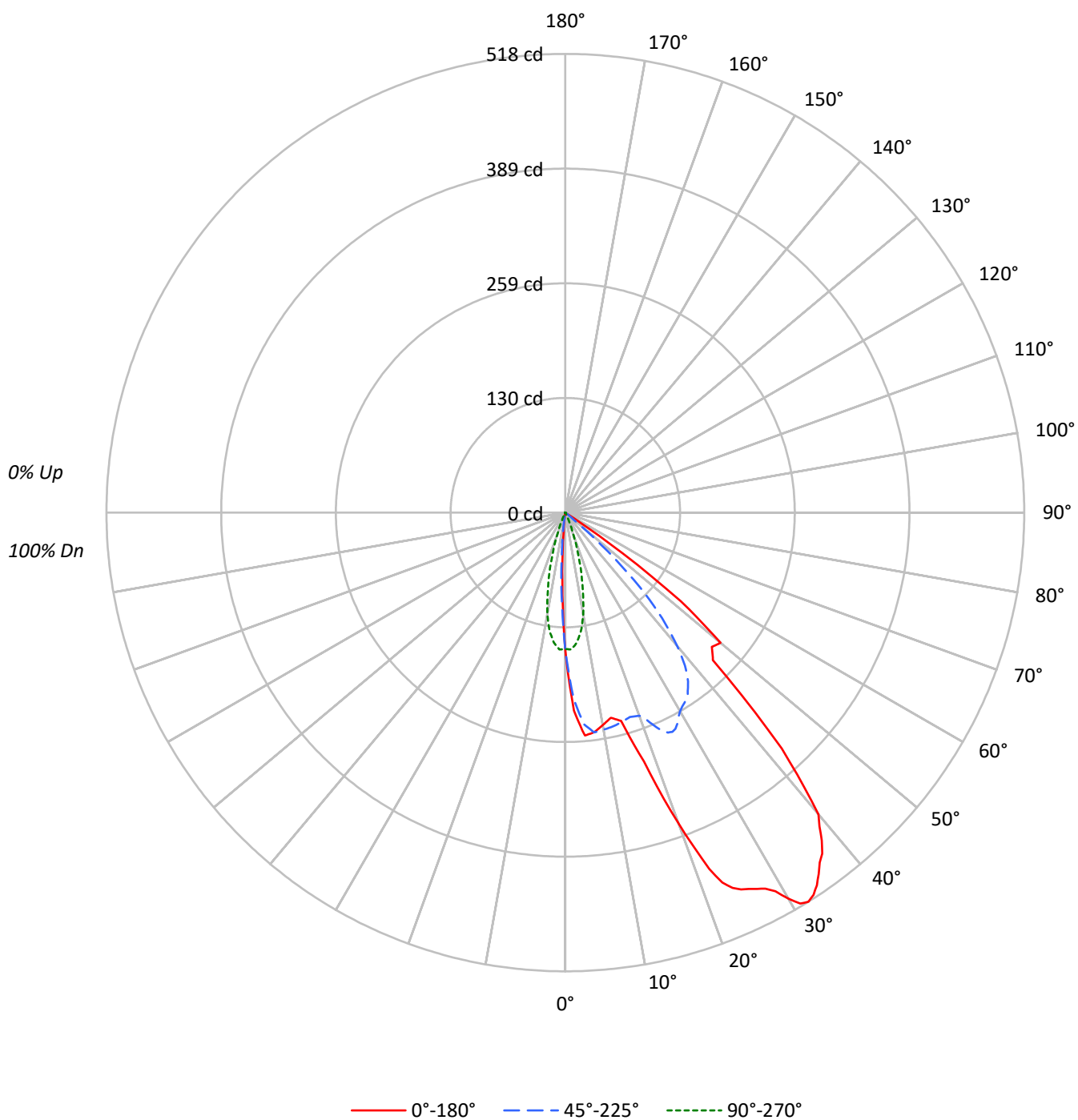
Lumens per Lamp: N/A
Luminaire Lumens: 247.9 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	75	75	74
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	68	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	55	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	50	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	46	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	42	42	40
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°	26522	26522	26522	26522	26522
5°	43687	41457	25483	7572	3786
10°	42583	43510	20426	385	507
15°	43416	43683	12231	392	125
20°	68435	44719	5040	0	0
25°	89218	52086	1197	0	0
30°	100129	51526	40	0	0
35°	104786	50732	0	0	0
40°	99978	44087	0	0	0
45°	57407	29081	0	0	0
50°	61276	3322	0	0	0
55°	17445	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	496	198	0
85°	0	395	988	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 63399 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	5.2
10°-20°	32.6	13.1
20°-30°	62.6	25.2
30°-40°	72.8	29.4
40°-50°	52.1	21.0
50°-60°	14.5	5.9
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.2	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°	108.1	43.6
0°-40°	180.9	73.0
0°-60°	247.6	99.9
0°-90°	247.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	247.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	154	154	154	154	154	
5°	253	240	147	44	22	23
15°	244	245	69	2	1	79
25°	470	274	6	0	0	214
35°	498	241	0	0	0	308
45°	236	119	0	0	0	222
55°	58	0	0	0	0	73
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°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
2.5°	223.8	225.0	225.3	222.3	222.8	218.7	218.9	216.0	209.0	184.4	154.7
5°	252.7	252.0	252.7	251.8	252.7	250.3	248.8	247.6	239.8	205.1	147.4
7.5°	250.1	249.1	250.5	251.0	252.7	252.0	252.3	253.0	250.3	216.3	135.0
10°	243.5	243.3	244.0	244.0	245.9	246.2	247.1	248.6	248.8	220.1	116.8
12.5°	237.2	236.4	236.4	236.2	237.2	236.9	239.4	242.8	247.4	217.7	91.7
15°	243.5	242.8	241.8	239.1	237.2	235.0	235.2	237.4	245.0	211.4	68.6
17.5°	294.6	290.7	285.8	277.3	268.3	252.7	243.5	237.7	242.0	201.7	45.7
20°	373.4	371.7	363.9	350.0	335.4	312.6	284.1	261.3	244.0	189.5	27.5
21°	403.3	402.3	394.1	381.2	364.6	336.9	307.7	280.2	247.9	184.4	21.6
22°	434.0	430.3	423.7	409.4	392.1	364.4	331.8	301.4	255.7	177.8	16.5
23°	453.7	451.5	444.4	433.0	416.4	389.4	356.1	323.0	263.2	170.5	12.4
24°	463.9	463.2	457.6	449.5	435.4	407.9	376.3	342.3	269.5	162.0	9.0
25°	469.5	467.0	463.6	457.8	447.1	423.3	395.0	359.0	274.1	153.5	6.3
26°	472.9	471.4	466.1	461.0	450.7	431.3	407.2	369.3	275.4	143.0	4.4
27°	476.8	473.4	468.3	462.2	450.7	433.7	411.8	373.6	273.9	132.3	2.9
28°	480.9	478.5	471.4	463.6	450.0	433.7	410.1	367.8	269.5	122.1	1.7
29°	488.9	485.8	477.0	465.6	450.3	433.2	403.6	355.6	263.7	110.7	1.0
30°	503.5	497.0	486.3	470.2	452.0	432.3	392.6	337.4	259.1	97.8	0.2
31°	515.0	511.3	498.9	478.7	456.8	429.6	379.7	319.4	255.9	86.6	0.0
32°	518.1	515.5	506.5	487.5	465.1	427.4	365.1	301.9	253.5	74.2	0.0
33°	514.5	512.8	503.3	486.0	467.3	424.5	348.3	284.6	250.8	63.0	0.0
34°	507.7	505.5	497.2	479.7	461.7	411.8	332.3	271.5	246.9	52.5	0.0
35°	498.4	496.7	488.2	470.9	451.5	392.1	316.2	262.7	241.3	42.1	0.0
36°	488.5	488.0	477.0	460.0	438.3	373.1	296.8	256.1	235.7	33.3	0.0
37°	481.9	479.5	467.5	450.7	422.8	351.0	281.2	254.0	227.9	25.8	0.0
38°	470.0	470.5	456.8	441.5	407.0	331.8	268.6	252.3	219.2	18.7	0.0
39°	455.9	456.1	442.0	428.9	388.2	311.6	258.1	250.5	208.2	11.9	0.0
40°	444.7	444.4	428.4	414.3	368.0	292.6	252.5	248.1	196.1	6.8	0.0
42.5°	361.5	362.9	364.9	370.7	320.6	259.3	247.1	234.5	161.5	0.0	0.0
45°	235.7	241.3	242.8	260.3	260.0	245.7	234.5	210.2	119.4	0.0	0.0
47.5°	224.3	226.0	229.1	236.0	239.6	232.5	209.7	175.6	65.2	0.0	0.0
50°	228.7	228.4	229.1	229.1	222.6	204.3	172.0	129.7	12.4	0.0	0.0
52.5°	164.2	170.3	176.8	179.8	171.2	152.0	125.5	76.1	0.0	0.0	0.0
55°	58.1	56.2	54.7	59.8	58.6	65.9	54.5	17.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	1.0	2.2	2.9	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	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
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°	154.0	154.0	154.0	154.0
2.5°	123.3	94.6	76.6	77.8
5°	86.6	43.8	27.0	21.9
7.5°	51.8	13.4	2.7	2.2
10°	24.3	2.2	2.4	2.9
12.5°	7.3	1.9	2.7	2.4
15°	1.9	2.2	1.2	0.7
17.5°	0.7	1.0	0.0	0.0
20°	0.5	0.0	0.0	0.0
21°	0.5	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)