

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: P1306444

Luminaire Tested: P3SQAS02R509027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306444
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: P3SQAS02R509027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

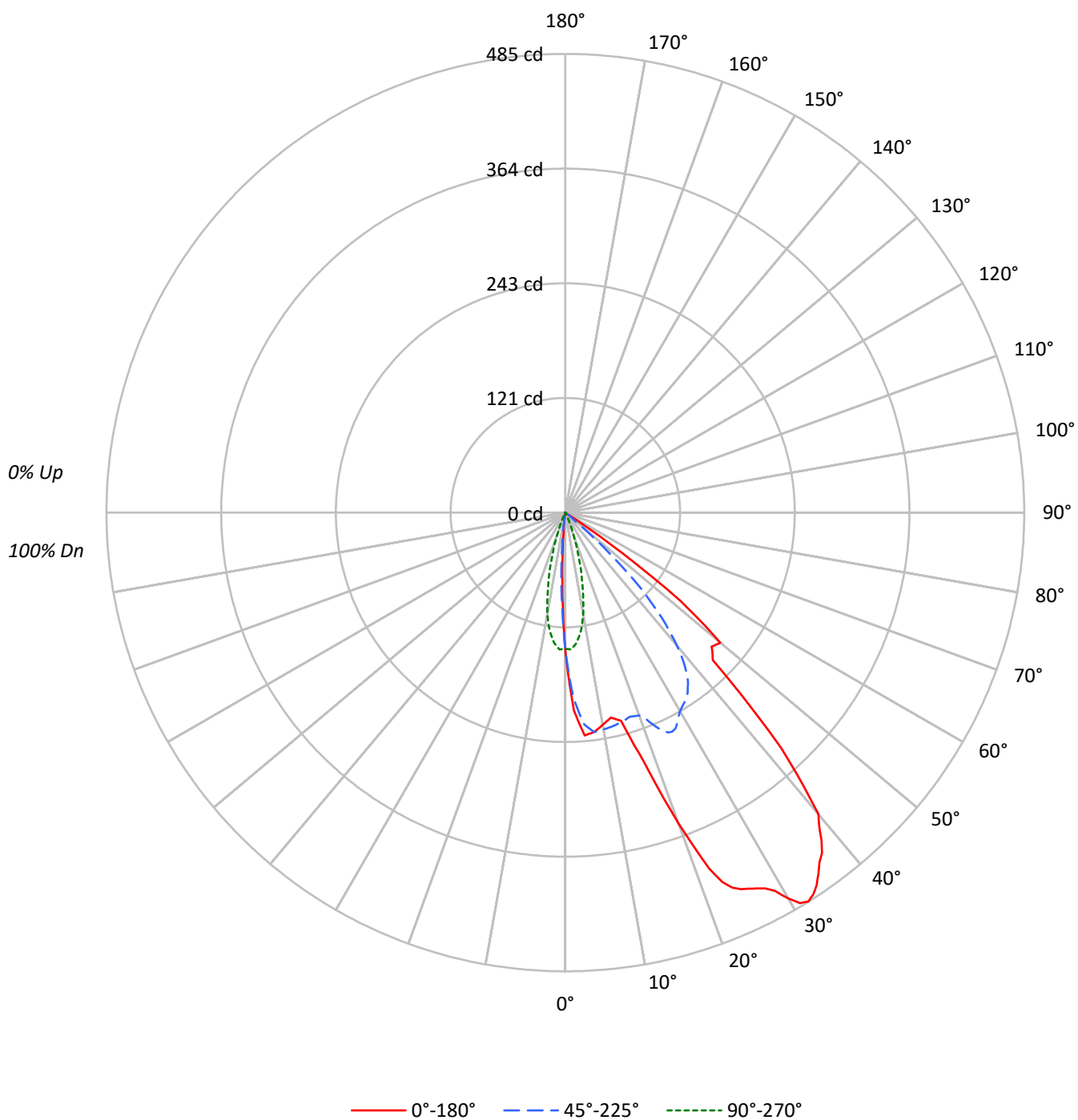
Lumens per Lamp: N/A
Luminaire Lumens: 232.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	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°	24800	24800	24800	24800	24800
5°	40869	38794	23840	7088	3544
10°	39838	40712	19097	350	472
15°	40616	40866	11447	357	125
20°	64018	41823	4710	0	0
25°	83460	48742	1121	0	0
30°	93666	48185	40	0	0
35°	98037	47452	0	0	0
40°	93525	41232	0	0	0
45°	53705	27206	0	0	0
50°	57310	3108	0	0	0
55°	16334	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: 59307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	5.2
10°-20°	30.5	13.1
20°-30°	58.5	25.2
30°-40°	68.1	29.4
40°-50°	48.8	21.0
50°-60°	13.6	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°	101.1	43.6
0°-40°	169.3	73.0
0°-60°	231.6	99.8
0°-90°	232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	144	144	144	144	144	
5°	236	224	138	41	20	22
15°	228	229	64	2	1	74
25°	439	256	6	0	0	200
35°	466	226	0	0	0	288
45°	220	112	0	0	0	207
55°	54	0	0	0	0	68
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°	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0
2.5°	209.4	210.5	210.7	208.0	208.4	204.6	204.8	202.1	195.5	172.5	144.7
5°	236.4	235.8	236.4	235.5	236.4	234.2	232.8	231.7	224.4	191.8	137.9
7.5°	233.9	233.0	234.4	234.8	236.4	235.8	236.0	236.7	234.2	202.3	126.3
10°	227.8	227.6	228.2	228.2	230.1	230.3	231.2	232.6	232.8	205.9	109.2
12.5°	221.9	221.2	221.2	221.0	221.9	221.6	223.9	227.1	231.4	203.7	85.8
15°	227.8	227.1	226.2	223.7	221.9	219.8	220.0	222.1	229.2	197.7	64.2
17.5°	275.6	271.9	267.4	259.4	251.0	236.4	227.8	222.3	226.4	188.6	42.8
20°	349.3	347.7	340.4	327.5	313.8	292.4	265.8	244.4	228.2	177.3	25.7
21°	377.3	376.4	368.6	356.6	341.1	315.2	287.9	262.1	231.9	172.5	20.3
22°	406.0	402.6	396.4	383.0	366.8	340.9	310.4	281.9	239.2	166.3	15.5
23°	424.4	422.3	415.7	405.1	389.6	364.3	333.1	302.2	246.2	159.5	11.6
24°	434.0	433.3	428.0	420.5	407.3	381.6	352.0	320.2	252.1	151.6	8.4
25°	439.2	436.9	433.7	428.3	418.3	396.0	369.6	335.9	256.5	143.6	5.9
26°	442.4	441.0	436.0	431.2	421.7	403.5	380.9	345.4	257.6	133.8	4.1
27°	446.0	442.8	438.1	432.4	421.7	405.7	385.3	349.5	256.2	123.8	2.7
28°	449.9	447.6	441.0	433.7	421.0	405.7	383.7	344.1	252.1	114.2	1.6
29°	457.4	454.4	446.2	435.5	421.2	405.3	377.5	332.7	246.7	103.5	0.9
30°	471.0	464.9	454.9	439.9	422.8	404.4	367.3	315.6	242.3	91.5	0.2
31°	481.7	478.3	466.7	447.8	427.4	401.9	355.2	298.8	239.4	81.0	0.0
32°	484.7	482.2	473.8	456.0	435.1	399.8	341.6	282.4	237.1	69.4	0.0
33°	481.3	479.7	470.8	454.7	437.1	397.1	325.9	266.2	234.6	58.9	0.0
34°	474.9	472.9	465.1	448.7	431.9	385.3	310.8	254.0	231.0	49.2	0.0
35°	466.3	464.7	456.7	440.6	422.3	366.8	295.8	245.8	225.7	39.4	0.0
36°	456.9	456.5	446.2	430.3	410.1	349.1	277.6	239.6	220.5	31.2	0.0
37°	450.8	448.5	437.4	421.7	395.5	328.4	263.1	237.6	213.2	24.1	0.0
38°	439.6	440.1	427.4	413.0	380.7	310.4	251.2	236.0	205.0	17.5	0.0
39°	426.4	426.7	413.5	401.2	363.2	291.5	241.4	234.4	194.8	11.2	0.0
40°	416.0	415.7	400.7	387.5	344.3	273.8	236.2	232.1	183.4	6.4	0.0
42.5°	338.2	339.5	341.3	346.8	299.9	242.6	231.2	219.4	151.1	0.0	0.0
45°	220.5	225.7	227.1	243.5	243.3	229.8	219.4	196.6	111.7	0.0	0.0
47.5°	209.8	211.4	214.4	220.7	224.1	217.5	196.2	164.3	61.0	0.0	0.0
50°	213.9	213.7	214.4	214.4	208.2	191.1	160.9	121.3	11.6	0.0	0.0
52.5°	153.6	159.3	165.4	168.2	160.2	142.2	117.4	71.2	0.0	0.0	0.0
55°	54.4	52.6	51.2	56.0	54.8	61.7	51.0	16.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.9	2.0	2.7	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°	144.0	144.0	144.0	144.0
2.5°	115.4	88.5	71.7	72.8
5°	81.0	41.0	25.3	20.5
7.5°	48.5	12.5	2.5	2.0
10°	22.8	2.0	2.3	2.7
12.5°	6.8	1.8	2.5	2.3
15°	1.8	2.0	1.1	0.7
17.5°	0.7	0.9	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)