

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: P1312965

Luminaire Tested: P3SQAS02R509730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312965
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: P3SQAS02R509730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

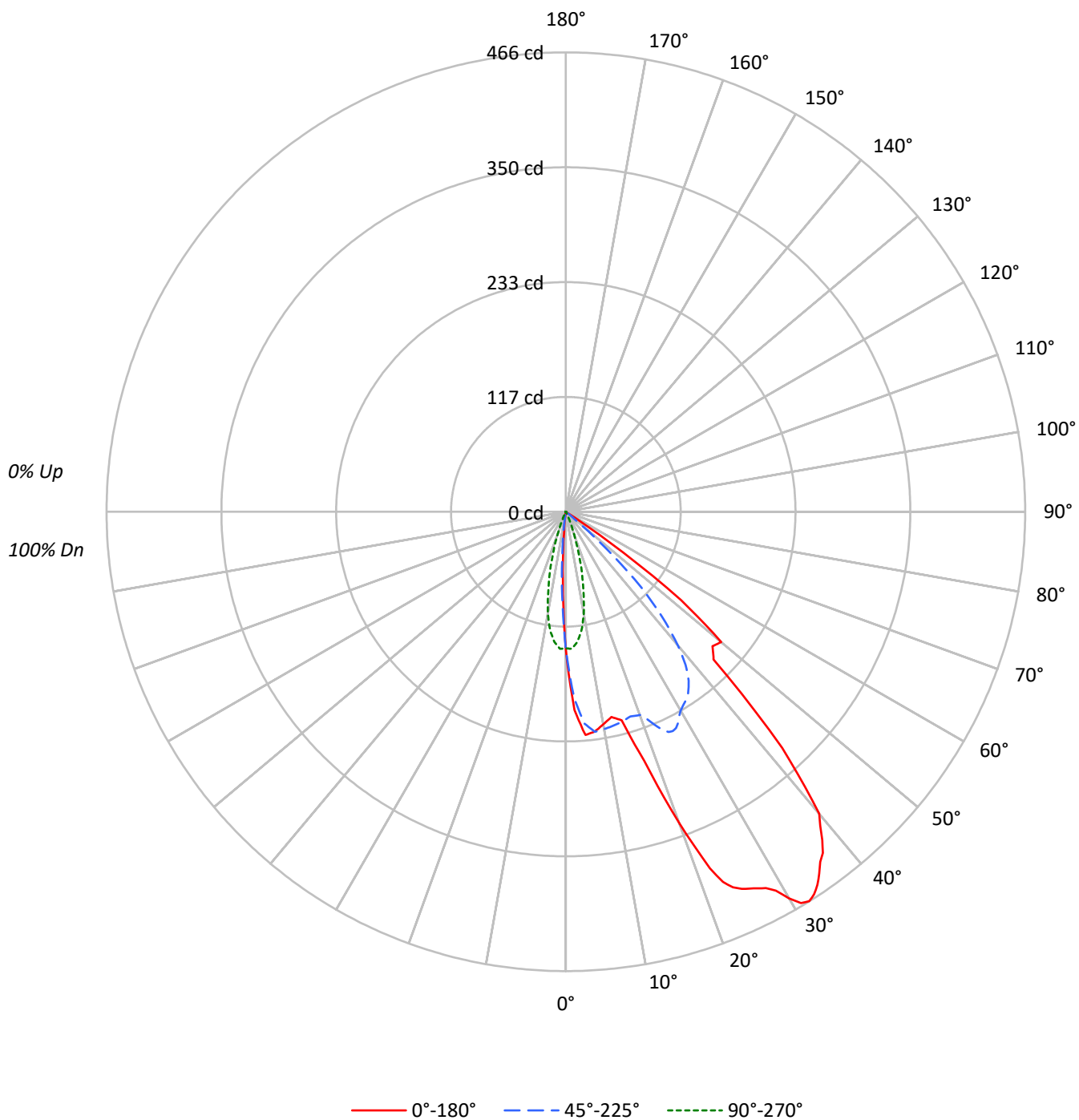
Lumens per Lamp: N/A
Luminaire Lumens: 223.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	23853	23853	23853	23853	23853
5°	39296	37290	22924	6811	3406
10°	38281	39138	18362	350	455
15°	39029	39279	11001	357	125
20°	61544	40211	4527	0	0
25°	80229	46842	1083	0	0
30°	90046	46316	40	0	0
35°	94232	45623	0	0	0
40°	89883	39636	0	0	0
45°	51635	26158	0	0	0
50°	55087	3001	0	0	0
55°	15704	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: 56993 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	5.2
10°-20°	29.3	13.1
20°-30°	56.3	25.2
30°-40°	65.5	29.4
40°-50°	46.9	21.0
50°-60°	13.0	5.9
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°	97.2	43.6
0°-40°	162.7	73.0
0°-60°	222.6	99.8
0°-90°	223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	138	138	138	138	138	
5°	227	216	133	39	20	21
15°	219	220	62	2	1	71
25°	422	246	6	0	0	192
35°	448	217	0	0	0	277
45°	212	107	0	0	0	199
55°	52	0	0	0	0	66
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°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5
2.5°	201.2	202.3	202.5	199.9	200.4	196.6	196.9	194.2	187.9	165.8	139.1
5°	227.3	226.6	227.3	226.4	227.3	225.1	223.8	222.7	215.7	184.4	132.6
7.5°	224.9	224.0	225.3	225.7	227.3	226.6	226.8	227.5	225.1	194.5	121.4
10°	218.9	218.7	219.4	219.4	221.1	221.4	222.2	223.5	223.8	198.0	105.0
12.5°	213.3	212.6	212.6	212.4	213.3	213.0	215.2	218.3	222.4	195.8	82.5
15°	218.9	218.3	217.4	215.0	213.3	211.3	211.5	213.5	220.3	190.1	61.7
17.5°	264.9	261.4	257.0	249.4	241.3	227.3	218.9	213.7	217.6	181.3	41.1
20°	335.8	334.2	327.2	314.8	301.6	281.1	255.5	234.9	219.4	170.4	24.7
21°	362.7	361.8	354.3	342.8	327.9	302.9	276.7	252.0	222.9	165.8	19.5
22°	390.2	386.9	381.0	368.1	352.6	327.7	298.3	271.0	229.9	159.9	14.9
23°	407.9	406.0	399.6	389.3	374.5	350.2	320.2	290.5	236.7	153.3	11.2
24°	417.1	416.5	411.4	404.2	391.5	366.8	338.4	307.8	242.4	145.7	8.1
25°	422.2	420.0	416.9	411.7	402.0	380.6	355.2	322.8	246.5	138.0	5.7
26°	425.2	423.9	419.1	414.5	405.3	387.8	366.2	332.0	247.6	128.6	3.9
27°	428.7	425.7	421.1	415.6	405.3	390.0	370.3	336.0	246.3	119.0	2.6
28°	432.4	430.2	423.9	416.9	404.7	390.0	368.8	330.7	242.4	109.8	1.5
29°	439.6	436.8	428.9	418.7	404.9	389.6	362.9	319.8	237.1	99.5	0.9
30°	452.8	446.9	437.2	422.8	406.4	388.7	353.0	303.4	232.9	87.9	0.2
31°	463.1	459.8	448.6	430.5	410.8	386.3	341.4	287.2	230.1	77.9	0.0
32°	465.9	463.5	455.4	438.3	418.2	384.3	328.3	271.4	227.9	66.7	0.0
33°	462.6	461.1	452.6	437.0	420.2	381.7	313.2	255.9	225.5	56.7	0.0
34°	456.5	454.5	447.1	431.3	415.2	370.3	298.8	244.1	222.0	47.2	0.0
35°	448.2	446.6	439.0	423.5	406.0	352.6	284.4	236.2	217.0	37.8	0.0
36°	439.2	438.8	428.9	413.6	394.2	335.5	266.9	230.3	212.0	30.0	0.0
37°	433.3	431.1	420.4	405.3	380.2	315.6	252.9	228.4	205.0	23.2	0.0
38°	422.6	423.0	410.8	397.0	365.9	298.3	241.5	226.8	197.1	16.8	0.0
39°	409.9	410.1	397.4	385.6	349.1	280.2	232.1	225.3	187.2	10.7	0.0
40°	399.8	399.6	385.2	372.5	330.9	263.1	227.0	223.1	176.3	6.1	0.0
42.5°	325.0	326.3	328.1	333.3	288.3	233.2	222.2	210.9	145.2	0.0	0.0
45°	212.0	217.0	218.3	234.0	233.8	220.9	210.9	189.0	107.4	0.0	0.0
47.5°	201.7	203.2	206.0	212.2	215.5	209.1	188.5	157.9	58.6	0.0	0.0
50°	205.6	205.4	206.0	206.0	200.1	183.7	154.6	116.6	11.2	0.0	0.0
52.5°	147.6	153.1	159.0	161.6	154.0	136.7	112.9	68.5	0.0	0.0	0.0
55°	52.3	50.5	49.2	53.8	52.7	59.3	49.0	16.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.9	2.0	2.6	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°	138.5	138.5	138.5	138.5
2.5°	110.9	85.1	68.9	70.0
5°	77.9	39.4	24.3	19.7
7.5°	46.6	12.0	2.4	2.0
10°	21.9	2.0	2.2	2.6
12.5°	6.6	1.7	2.4	2.2
15°	1.7	2.0	1.1	0.7
17.5°	0.7	0.9	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)