

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: P1305471

Luminaire Tested: P3SQAS02R509024DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305471
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: P3SQAS02R509024DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

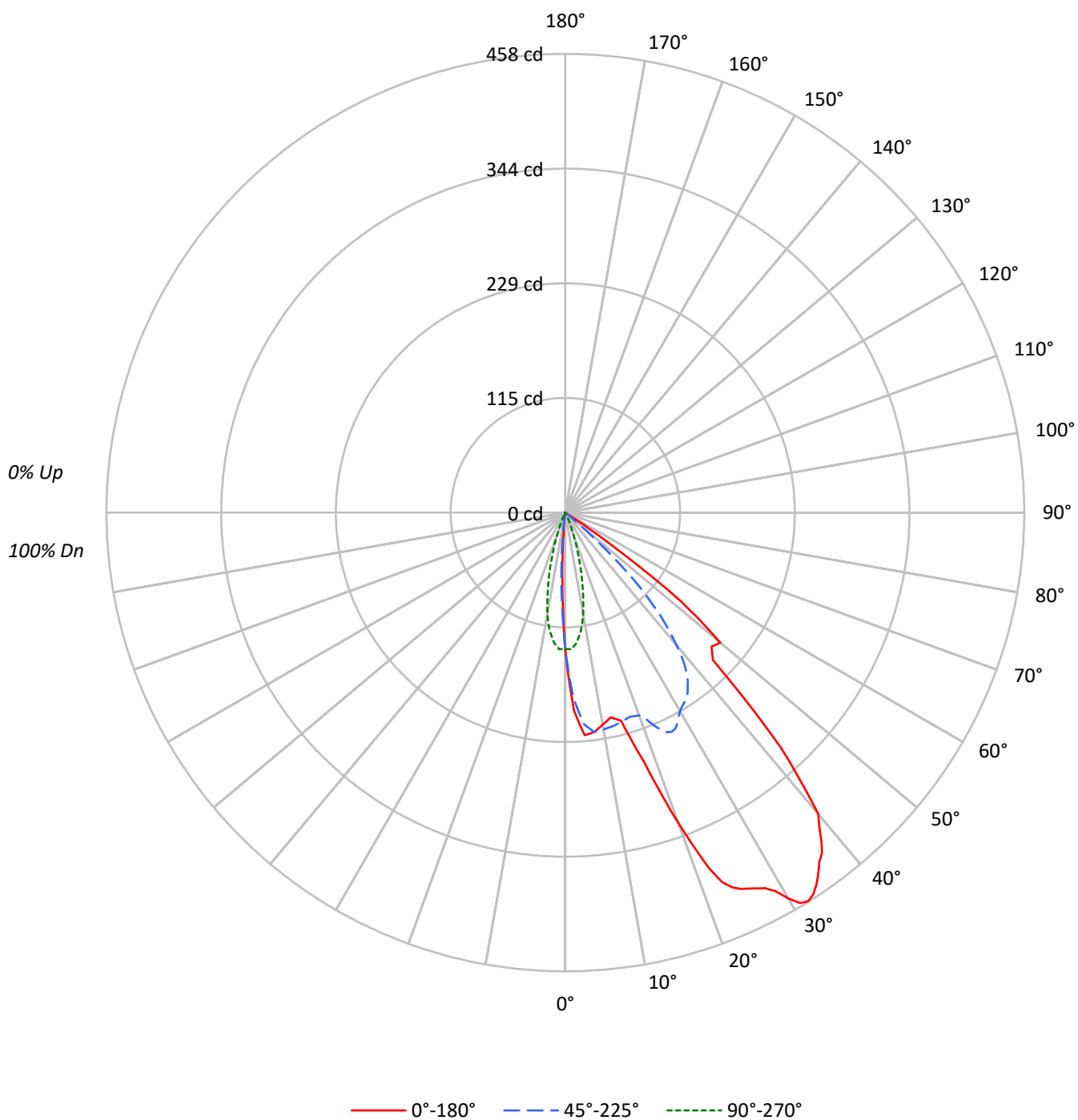
Lumens per Lamp: N/A
Luminaire Lumens: 219.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	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°	23422	23422	23422	23422	23422
5°	38587	36616	22509	6690	3337
10°	37599	38421	18030	332	455
15°	38334	38566	10805	339	107
20°	60426	39496	4454	0	0
25°	78785	46005	1064	0	0
30°	88436	45500	40	0	0
35°	92529	44803	0	0	0
40°	88287	38916	0	0	0
45°	50685	25696	0	0	0
50°	54095	2947	0	0	0
55°	15403	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: 55970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	5.2
10°-20°	28.8	13.1
20°-30°	55.3	25.2
30°-40°	64.3	29.4
40°-50°	46.0	21.0
50°-60°	12.8	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°	95.5	43.6
0°-40°	159.8	73.0
0°-60°	218.6	99.8
0°-90°	219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	136	136	136	136	136	
5°	223	212	130	39	19	20
15°	215	216	61	2	1	69
25°	415	242	6	0	0	189
35°	440	213	0	0	0	272
45°	208	106	0	0	0	196
55°	51	0	0	0	0	65
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°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
2.5°	197.6	198.7	198.9	196.3	196.8	193.1	193.3	190.7	184.5	162.8	136.6
5°	223.2	222.5	223.2	222.3	223.2	221.0	219.7	218.7	211.8	181.1	130.2
7.5°	220.8	220.0	221.3	221.7	223.2	222.5	222.8	223.4	221.0	191.0	119.2
10°	215.0	214.8	215.5	215.5	217.2	217.4	218.2	219.5	219.7	194.4	103.1
12.5°	209.4	208.8	208.8	208.6	209.4	209.2	211.4	214.4	218.5	192.3	81.0
15°	215.0	214.4	213.5	211.2	209.4	207.5	207.7	209.7	216.3	186.7	60.6
17.5°	260.1	256.7	252.4	244.9	236.9	223.2	215.0	209.9	213.7	178.1	40.4
20°	329.7	328.2	321.4	309.1	296.2	276.0	250.9	230.7	215.5	167.3	24.3
21°	356.2	355.3	348.0	336.6	322.0	297.5	271.7	247.5	218.9	162.8	19.1
22°	383.2	380.0	374.2	361.5	346.3	321.8	293.0	266.1	225.8	157.0	14.6
23°	400.6	398.7	392.5	382.4	367.8	343.9	314.5	285.3	232.4	150.6	11.0
24°	409.6	409.0	404.1	397.0	384.5	360.2	332.3	302.2	238.0	143.1	7.9
25°	414.6	412.4	409.4	404.3	394.8	373.8	348.8	317.1	242.1	135.5	5.6
26°	417.6	416.3	411.6	407.1	398.0	380.9	359.6	326.1	243.2	126.3	3.9
27°	421.0	418.0	413.5	408.1	398.0	383.0	363.7	329.9	241.9	116.9	2.6
28°	424.7	422.5	416.3	409.4	397.4	383.0	362.2	324.8	238.0	107.8	1.5
29°	431.8	429.0	421.2	411.1	397.6	382.6	356.4	314.0	232.9	97.7	0.9
30°	444.7	438.9	429.4	415.2	399.1	381.7	346.7	297.9	228.8	86.4	0.2
31°	454.7	451.5	440.6	422.7	403.4	379.4	335.3	282.0	226.0	76.5	0.0
32°	457.5	455.2	447.2	430.5	410.7	377.4	322.4	266.6	223.8	65.5	0.0
33°	454.3	452.8	444.4	429.2	412.6	374.8	307.6	251.3	221.5	55.6	0.0
34°	448.3	446.4	439.1	423.6	407.7	363.7	293.4	239.7	218.0	46.4	0.0
35°	440.1	438.6	431.1	415.9	398.7	346.3	279.2	232.0	213.1	37.2	0.0
36°	431.3	430.9	421.2	406.2	387.1	329.5	262.1	226.2	208.1	29.4	0.0
37°	425.5	423.4	412.9	398.0	373.3	310.0	248.3	224.3	201.3	22.8	0.0
38°	415.0	415.4	403.4	389.9	359.4	293.0	237.1	222.8	193.5	16.5	0.0
39°	402.5	402.8	390.3	378.7	342.8	275.2	227.9	221.3	183.9	10.5	0.0
40°	392.7	392.5	378.3	365.8	325.0	258.4	223.0	219.1	173.1	6.0	0.0
42.5°	319.2	320.5	322.2	327.4	283.1	229.0	218.2	207.1	142.6	0.0	0.0
45°	208.1	213.1	214.4	229.8	229.6	217.0	207.1	185.6	105.5	0.0	0.0
47.5°	198.1	199.6	202.3	208.4	211.6	205.4	185.2	155.1	57.6	0.0	0.0
50°	201.9	201.7	202.3	202.3	196.5	180.4	151.9	114.5	11.0	0.0	0.0
52.5°	145.0	150.4	156.2	158.7	151.2	134.3	110.8	67.2	0.0	0.0	0.0
55°	51.3	49.6	48.3	52.8	51.8	58.2	48.1	15.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.9	1.9	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°	136.0	136.0	136.0	136.0
2.5°	108.9	83.6	67.7	68.7
5°	76.5	38.7	23.8	19.3
7.5°	45.8	11.8	2.4	1.9
10°	21.5	1.9	2.1	2.6
12.5°	6.4	1.7	2.4	2.1
15°	1.7	1.9	1.1	0.6
17.5°	0.6	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)