

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: P1308679

Luminaire Tested: P3SQAS02R509035DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308679
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: P3SQAS02R509035DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

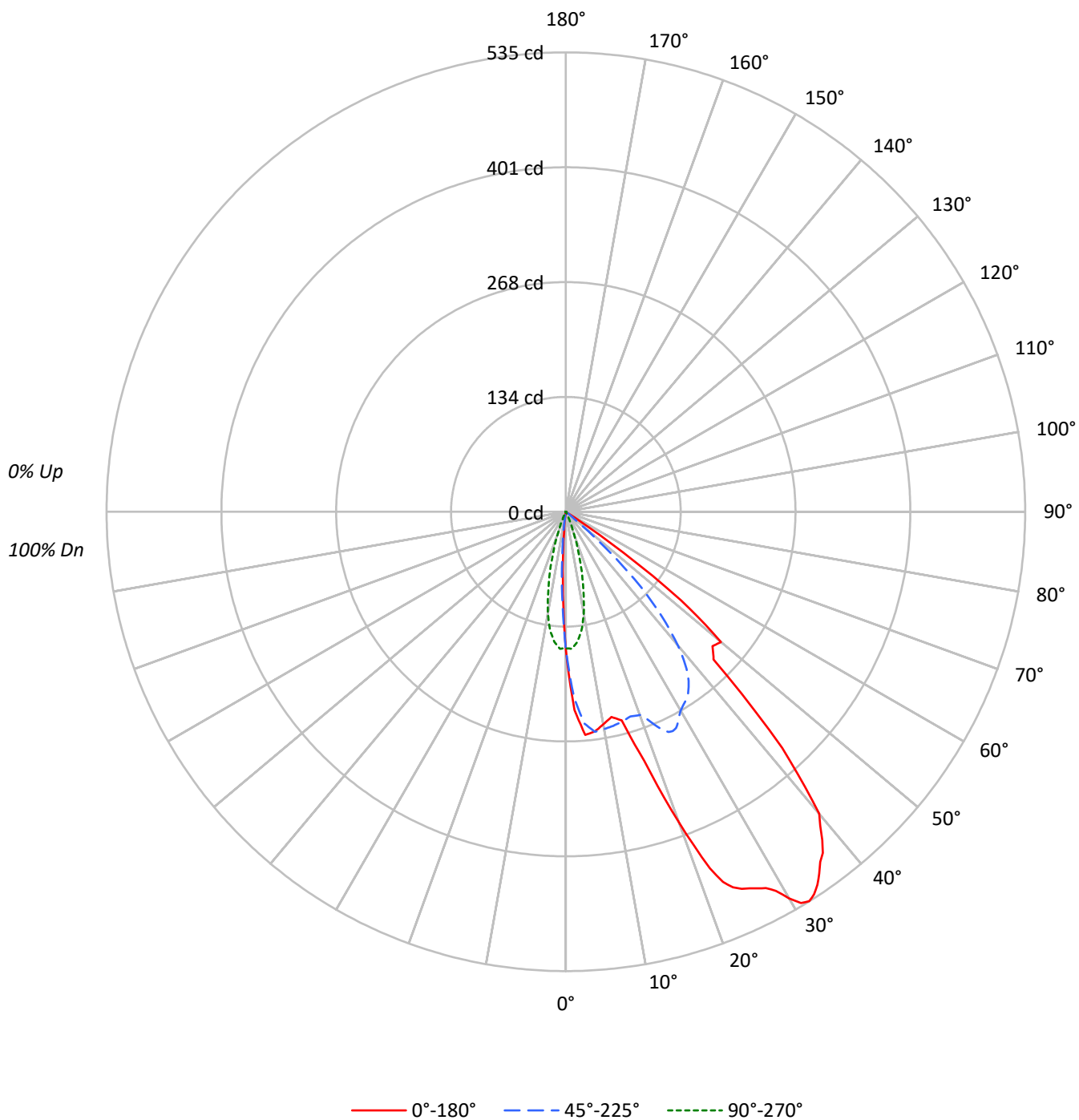
Lumens per Lamp: N/A
Luminaire Lumens: 256.1 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	99	95	91	103	98	93	90	94	91	88	91	88	86	88	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	61	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°	27366	27366	27366	27366	27366
5°	45105	42805	26312	7814	3907
10°	43965	44927	21073	402	525
15°	44824	45092	12623	410	143
20°	70634	46167	5205	0	0
25°	92087	53778	1235	0	0
30°	103370	53177	60	0	0
35°	108171	52372	0	0	0
40°	103193	45504	0	0	0
45°	59258	30031	0	0	0
50°	63232	3430	0	0	0
55°	18016	0	0	0	0
60°	0	0	103	0	0
65°	0	122	122	0	0
70°	0	151	151	0	0
75°	0	200	200	0	0
80°	0	298	496	298	0
85°	0	593	988	593	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 65444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	5.2
10°-20°	33.6	13.1
20°-30°	64.6	25.2
30°-40°	75.2	29.4
40°-50°	53.8	21.0
50°-60°	15.0	5.8
60°-70°	0.1	0.0
70°-80°	0.2	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°	111.6	43.6
0°-40°	186.8	72.9
0°-60°	255.6	99.8
0°-90°	256.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	256.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	159	159	159	159	159	
5°	261	248	152	45	23	24
15°	251	253	71	2	1	81
25°	485	283	6	0	0	220
35°	514	249	0	0	0	318
45°	243	123	0	0	0	229
55°	60	0	0	0	0	76
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°	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9
2.5°	231.0	232.3	232.5	229.5	230.0	225.7	226.0	223.0	215.7	190.3	159.7
5°	260.9	260.1	260.9	259.9	260.9	258.4	256.9	255.6	247.6	211.7	152.2
7.5°	258.1	257.1	258.6	259.1	260.9	260.1	260.4	261.1	258.4	223.2	139.4
10°	251.4	251.1	251.9	251.9	253.9	254.1	255.1	256.6	256.9	227.2	120.5
12.5°	244.8	244.1	244.1	243.8	244.8	244.6	247.1	250.6	255.4	224.7	94.7
15°	251.4	250.6	249.6	246.8	244.8	242.6	242.8	245.1	252.9	218.2	70.8
17.5°	304.1	300.1	295.0	286.3	277.0	260.9	251.4	245.3	249.8	208.2	47.2
20°	385.4	383.7	375.6	361.3	346.3	322.7	293.3	269.7	251.9	195.6	28.4
21°	416.3	415.3	406.8	393.5	376.4	347.8	317.6	289.3	255.9	190.3	22.3
22°	448.0	444.2	437.4	422.6	404.8	376.1	342.5	311.1	263.9	183.6	17.1
23°	468.3	466.0	458.8	447.0	429.9	402.0	367.6	333.5	271.7	176.0	12.8
24°	478.8	478.1	472.3	464.0	449.5	421.1	388.5	353.3	278.2	167.2	9.3
25°	484.6	482.1	478.6	472.6	461.5	436.9	407.8	370.6	283.0	158.4	6.5
26°	488.1	486.6	481.1	475.8	465.3	445.2	420.3	381.2	284.2	147.6	4.5
27°	492.2	488.6	483.4	477.1	465.3	447.7	425.1	385.7	282.7	136.6	3.0
28°	496.4	493.9	486.6	478.6	464.5	447.7	423.4	379.7	278.2	126.1	1.8
29°	504.7	501.4	492.4	480.6	464.8	447.2	416.6	367.1	272.2	114.3	1.0
30°	519.8	513.0	501.9	485.4	466.5	446.2	405.3	348.3	267.4	100.9	0.3
31°	531.6	527.8	515.0	494.2	471.6	443.4	392.0	329.7	264.2	89.4	0.0
32°	534.8	532.1	522.8	503.2	480.1	441.2	376.9	311.6	261.6	76.6	0.0
33°	531.1	529.3	519.5	501.7	482.4	438.2	359.6	293.8	258.9	65.0	0.0
34°	524.0	521.8	513.2	495.2	476.6	425.1	343.0	280.2	254.9	54.2	0.0
35°	514.5	512.7	504.0	486.1	466.0	404.8	326.4	271.2	249.1	43.4	0.0
36°	504.2	503.7	492.4	474.8	452.5	385.2	306.3	264.4	243.3	34.4	0.0
37°	497.4	494.9	482.6	465.3	436.4	362.3	290.3	262.1	235.3	26.6	0.0
38°	485.1	485.6	471.6	455.7	420.1	342.5	277.2	260.4	226.2	19.3	0.0
39°	470.6	470.8	456.2	442.7	400.8	321.7	266.4	258.6	214.9	12.3	0.0
40°	459.0	458.8	442.2	427.6	379.9	302.1	260.6	256.1	202.4	7.0	0.0
42.5°	373.1	374.6	376.6	382.7	330.9	267.7	255.1	242.1	166.7	0.0	0.0
45°	243.3	249.1	250.6	268.7	268.4	253.6	242.1	216.9	123.3	0.0	0.0
47.5°	231.5	233.3	236.5	243.6	247.3	240.1	216.4	181.3	67.3	0.0	0.0
50°	236.0	235.8	236.5	236.5	229.8	210.9	177.5	133.8	12.8	0.0	0.0
52.5°	169.5	175.8	182.5	185.6	176.8	156.9	129.6	78.6	0.0	0.0	0.0
55°	60.0	58.0	56.5	61.8	60.5	68.0	56.2	18.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	1.0	2.3	3.0	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	0.3	0.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	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	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	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°	158.9	158.9	158.9	158.9
2.5°	127.3	97.7	79.1	80.4
5°	89.4	45.2	27.9	22.6
7.5°	53.5	13.8	2.8	2.3
10°	25.1	2.3	2.5	3.0
12.5°	7.5	2.0	2.8	2.5
15°	2.0	2.3	1.3	0.8
17.5°	0.8	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°	0.3	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°	0.3	0.0	0.0	0.0
67.5°	0.3	0.0	0.0	0.0
70°	0.3	0.0	0.0	0.0
72.5°	0.3	0.0	0.0	0.0
75°	0.3	0.0	0.0	0.0
77.5°	0.3	0.0	0.0	0.0
80°	0.3	0.3	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.3	0.3	0.0	0.0
85°	0.3	0.3	0.0	0.0
87.5°	0.3	0.3	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)