

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: P1315850

Luminaire Tested: P3SQAS02R509827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315850
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: P3SQAS02R509827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

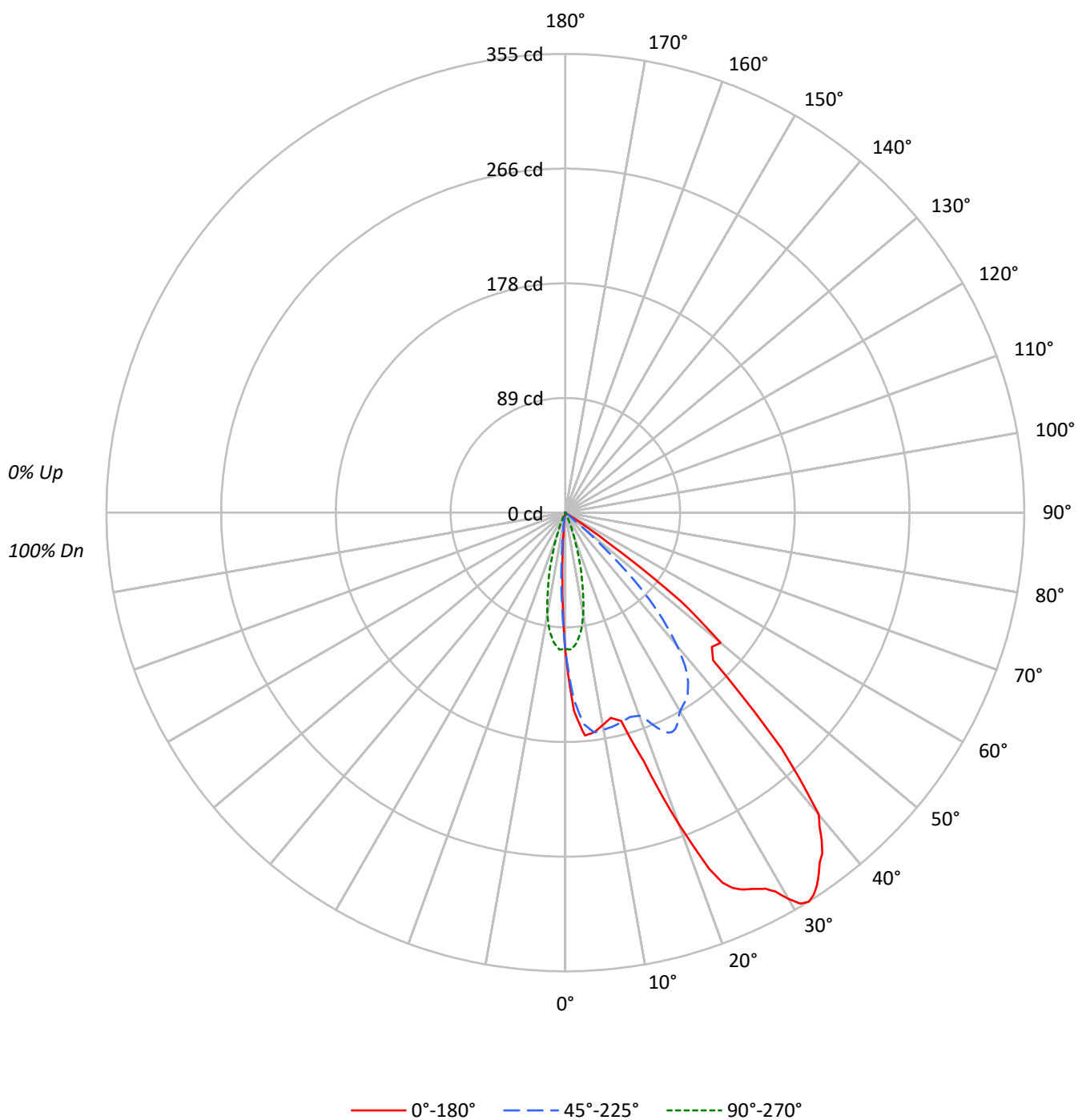
Lumens per Lamp: N/A
Luminaire Lumens: 170.0 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0		
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°	18169	18169	18169	18169	18169
5°	29943	28422	17461	5186	2593
10°	29187	29834	13990	262	350
15°	29758	29936	8380	267	89
20°	46919	30644	3446	0	0
25°	61151	35706	817	0	0
30°	68648	35319	40	0	0
35°	71841	34775	0	0	0
40°	68525	30216	0	0	0
45°	39359	19948	0	0	0
50°	41985	2277	0	0	0
55°	11980	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	298	198	0
85°	0	395	593	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 43451 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	5.2
10°-20°	22.3	13.1
20°-30°	42.9	25.2
30°-40°	49.9	29.4
40°-50°	35.7	21.0
50°-60°	9.9	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°	74.1	43.6
0°-40°	124.0	72.9
0°-60°	169.7	99.8
0°-90°	170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	170.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	173	164	101	30	15	16
15°	167	168	47	2	0	54
25°	322	188	4	0	0	146
35°	342	165	0	0	0	211
45°	162	82	0	0	0	152
55°	40	0	0	0	0	50
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°	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
2.5°	153.4	154.2	154.4	152.4	152.7	149.9	150.1	148.1	143.2	126.4	106.1
5°	173.2	172.7	173.2	172.6	173.2	171.6	170.6	169.7	164.4	140.6	101.0
7.5°	171.4	170.7	171.7	172.1	173.2	172.7	172.9	173.4	171.6	148.2	92.5
10°	166.9	166.7	167.2	167.2	168.6	168.7	169.4	170.4	170.6	150.9	80.0
12.5°	162.6	162.1	162.1	161.9	162.6	162.4	164.1	166.4	169.6	149.2	62.9
15°	166.9	166.4	165.7	163.9	162.6	161.1	161.2	162.7	167.9	144.9	47.0
17.5°	201.9	199.3	195.9	190.1	183.9	173.2	166.9	162.9	165.9	138.2	31.3
20°	256.0	254.8	249.5	239.9	229.9	214.3	194.8	179.1	167.2	129.9	18.8
21°	276.5	275.8	270.1	261.3	250.0	230.9	210.9	192.1	169.9	126.4	14.8
22°	297.5	295.0	290.5	280.6	268.8	249.8	227.4	206.6	175.2	121.9	11.3
23°	311.0	309.5	304.6	296.8	285.5	267.0	244.1	221.4	180.4	116.9	8.5
24°	318.0	317.5	313.6	308.1	298.5	279.6	258.0	234.6	184.8	111.1	6.2
25°	321.8	320.2	317.8	313.8	306.5	290.1	270.8	246.1	187.9	105.2	4.3
26°	324.2	323.2	319.5	316.0	309.0	295.6	279.1	253.1	188.8	98.0	3.0
27°	326.8	324.5	321.0	316.8	309.0	297.3	282.3	256.1	187.8	90.7	2.0
28°	329.7	328.0	323.2	317.8	308.5	297.3	281.1	252.1	184.8	83.7	1.2
29°	335.2	333.0	327.0	319.2	308.6	297.0	276.6	243.8	180.8	75.9	0.7
30°	345.2	340.7	333.3	322.3	309.8	296.3	269.1	231.3	177.6	67.0	0.2
31°	353.0	350.5	342.0	328.2	313.1	294.5	260.3	218.9	175.4	59.4	0.0
32°	355.2	353.3	347.2	334.2	318.8	293.0	250.3	206.9	173.7	50.9	0.0
33°	352.7	351.5	345.0	333.2	320.3	291.0	238.8	195.1	171.9	43.2	0.0
34°	348.0	346.5	340.8	328.8	316.5	282.3	227.8	186.1	169.2	36.0	0.0
35°	341.7	340.5	334.7	322.8	309.5	268.8	216.8	180.1	165.4	28.8	0.0
36°	334.8	334.5	327.0	315.3	300.5	255.8	203.4	175.6	161.6	22.8	0.0
37°	330.3	328.7	320.5	309.0	289.8	240.6	192.8	174.1	156.2	17.7	0.0
38°	322.2	322.5	313.1	302.6	279.0	227.4	184.1	172.9	150.2	12.8	0.0
39°	312.5	312.6	303.0	294.0	266.1	213.6	176.9	171.7	142.7	8.2	0.0
40°	304.8	304.6	293.6	284.0	252.3	200.6	173.1	170.1	134.4	4.7	0.0
42.5°	247.8	248.8	250.1	254.1	219.8	177.8	169.4	160.7	110.7	0.0	0.0
45°	161.6	165.4	166.4	178.4	178.3	168.4	160.7	144.1	81.9	0.0	0.0
47.5°	153.7	154.9	157.1	161.7	164.2	159.4	143.7	120.4	44.7	0.0	0.0
50°	156.7	156.6	157.1	157.1	152.6	140.1	117.9	88.9	8.5	0.0	0.0
52.5°	112.6	116.7	121.2	123.2	117.4	104.2	86.0	52.2	0.0	0.0	0.0
55°	39.9	38.5	37.5	41.0	40.2	45.2	37.4	12.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.7	1.5	2.0	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	0.2	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	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3
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°	105.5	105.5	105.5	105.5
2.5°	84.5	64.9	52.5	53.4
5°	59.4	30.0	18.5	15.0
7.5°	35.5	9.2	1.8	1.5
10°	16.7	1.5	1.7	2.0
12.5°	5.0	1.3	1.8	1.7
15°	1.3	1.5	0.8	0.5
17.5°	0.5	0.7	0.0	0.0
20°	0.3	0.0	0.0	0.0
21°	0.3	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)