

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: P1309798

Luminaire Tested: P3SQAS02R509040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309798
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: P3SQAS02R509040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

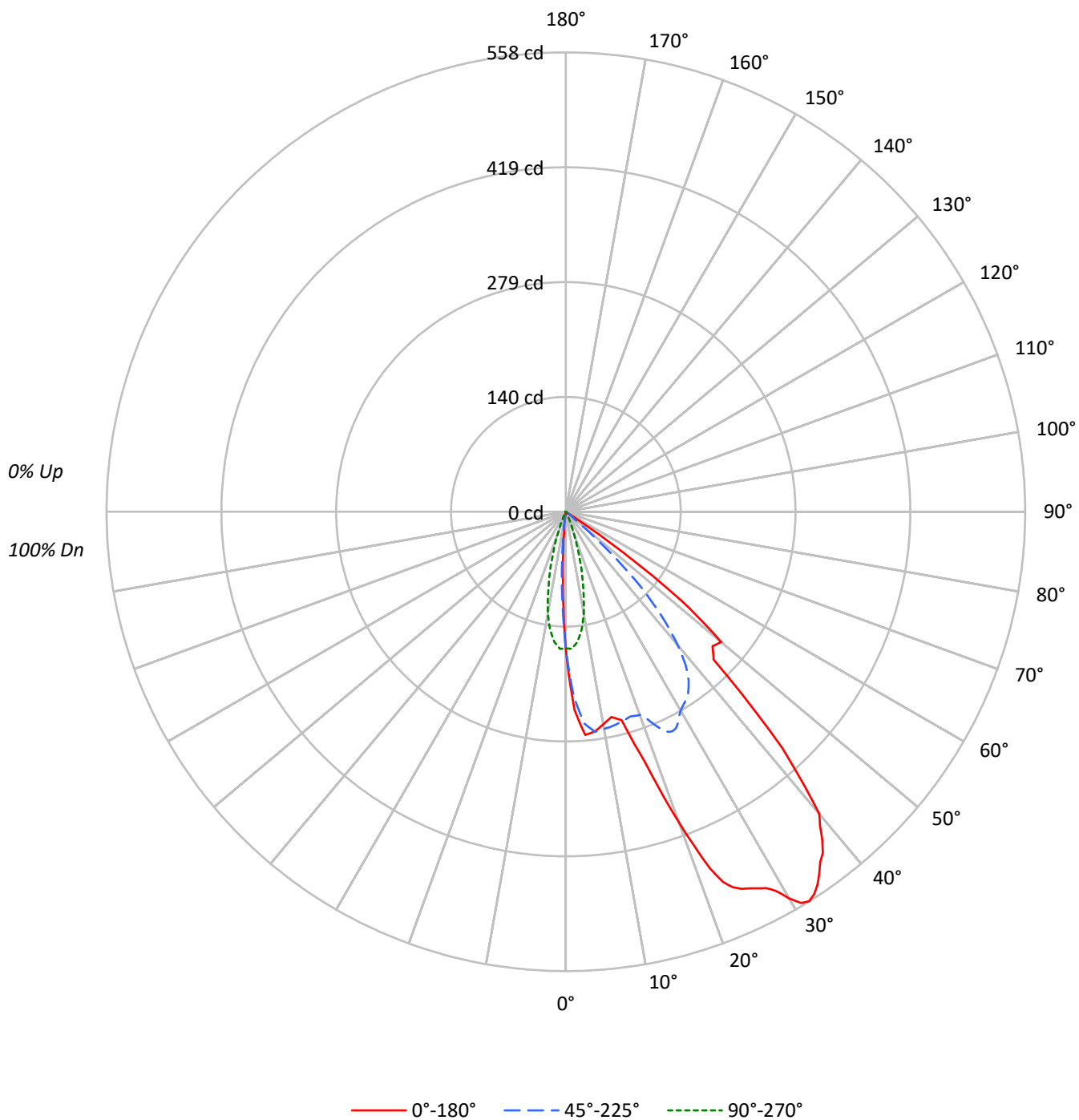
Lumens per Lamp: N/A
Luminaire Lumens: 267.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	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°	28555	28555	28555	28555	28555
5°	47041	44638	27436	8143	4080
10°	45853	46850	21982	420	542
15°	46750	47017	13176	428	143
20°	73677	48146	5425	0	0
25°	96039	56077	1292	0	0
30°	107805	55464	60	0	0
35°	112817	54622	0	0	0
40°	107622	47460	0	0	0
45°	61815	31322	0	0	0
50°	65965	3590	0	0	0
55°	18796	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: 68245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	5.2
10°-20°	35.1	13.1
20°-30°	67.4	25.2
30°-40°	78.4	29.4
40°-50°	56.1	21.0
50°-60°	15.6	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°	116.4	43.6
0°-40°	194.8	72.9
0°-60°	266.5	99.8
0°-90°	267.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	267.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	166	166	166	166	166	
5°	272	258	159	47	24	25
15°	262	264	74	2	1	85
25°	505	295	7	0	0	230
35°	537	260	0	0	0	332
45°	254	129	0	0	0	239
55°	63	0	0	0	0	79
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°	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8
2.5°	240.9	242.2	242.5	239.4	239.9	235.4	235.7	232.6	225.0	198.5	166.6
5°	272.1	271.3	272.1	271.1	272.1	269.5	267.9	266.6	258.2	220.8	158.7
7.5°	269.2	268.2	269.7	270.3	272.1	271.3	271.6	272.4	269.5	232.8	145.3
10°	262.2	261.9	262.7	262.7	264.8	265.0	266.1	267.7	267.9	237.0	125.7
12.5°	255.3	254.6	254.6	254.3	255.3	255.1	257.7	261.4	266.3	234.4	98.7
15°	262.2	261.4	260.3	257.4	255.3	253.0	253.2	255.6	263.7	227.6	73.9
17.5°	317.1	313.0	307.7	298.6	288.9	272.1	262.2	255.9	260.6	217.1	49.2
20°	402.0	400.2	391.8	376.9	361.1	336.5	305.9	281.3	262.7	204.0	29.6
21°	434.2	433.2	424.3	410.4	392.6	362.7	331.3	301.7	266.9	198.5	23.3
22°	467.2	463.3	456.2	440.8	422.2	392.3	357.2	324.5	275.2	191.4	17.8
23°	488.4	486.1	478.5	466.2	448.4	419.3	383.4	347.8	283.4	183.6	13.4
24°	499.4	498.6	492.6	484.0	468.8	439.2	405.1	368.5	290.2	174.4	9.7
25°	505.4	502.8	499.2	492.9	481.4	455.7	425.3	386.5	295.1	165.3	6.8
26°	509.1	507.5	501.8	496.3	485.3	464.3	438.4	397.5	296.5	154.0	4.7
27°	513.3	509.6	504.1	497.6	485.3	466.9	443.4	402.3	294.9	142.5	3.1
28°	517.8	515.1	507.5	499.2	484.5	466.9	441.5	396.0	290.2	131.5	1.8
29°	526.4	523.0	513.6	501.3	484.8	466.4	434.5	382.9	283.9	119.2	1.0
30°	542.1	535.0	523.5	506.2	486.6	465.4	422.7	363.2	278.9	105.3	0.3
31°	554.4	550.5	537.1	515.4	491.8	462.5	408.8	343.9	275.5	93.2	0.0
32°	557.8	554.9	545.3	524.8	500.7	460.1	393.1	325.0	272.9	79.9	0.0
33°	553.9	552.1	541.8	523.3	503.1	457.0	375.0	306.4	270.0	67.8	0.0
34°	546.6	544.2	535.3	516.4	497.1	443.4	357.7	292.3	265.8	56.6	0.0
35°	536.6	534.8	525.6	507.0	486.1	422.2	340.5	282.8	259.8	45.3	0.0
36°	525.9	525.3	513.6	495.2	471.9	401.7	319.5	275.8	253.8	35.9	0.0
37°	518.8	516.2	503.3	485.3	455.2	377.9	302.7	273.4	245.4	27.8	0.0
38°	506.0	506.5	491.8	475.3	438.1	357.2	289.1	271.6	236.0	20.2	0.0
39°	490.8	491.0	475.9	461.7	418.0	335.5	277.9	269.7	224.2	12.8	0.0
40°	478.7	478.5	461.2	446.0	396.2	315.1	271.8	267.1	211.1	7.3	0.0
42.5°	389.2	390.7	392.8	399.1	345.2	279.2	266.1	252.5	173.9	0.0	0.0
45°	253.8	259.8	261.4	280.2	280.0	264.5	252.5	226.3	128.6	0.0	0.0
47.5°	241.5	243.3	246.7	254.0	258.0	250.4	225.7	189.1	70.2	0.0	0.0
50°	246.2	245.9	246.7	246.7	239.6	220.0	185.2	139.6	13.4	0.0	0.0
52.5°	176.8	183.3	190.4	193.5	184.4	163.7	135.1	82.0	0.0	0.0	0.0
55°	62.6	60.5	58.9	64.4	63.1	71.0	58.7	19.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	1.0	2.4	3.1	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°	165.8	165.8	165.8	165.8
2.5°	132.8	101.9	82.5	83.8
5°	93.2	47.1	29.1	23.6
7.5°	55.8	14.4	2.9	2.4
10°	26.2	2.4	2.6	3.1
12.5°	7.9	2.1	2.9	2.6
15°	2.1	2.4	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)