

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: P1306445

Luminaire Tested: P3SQAS02R509027DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509027DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

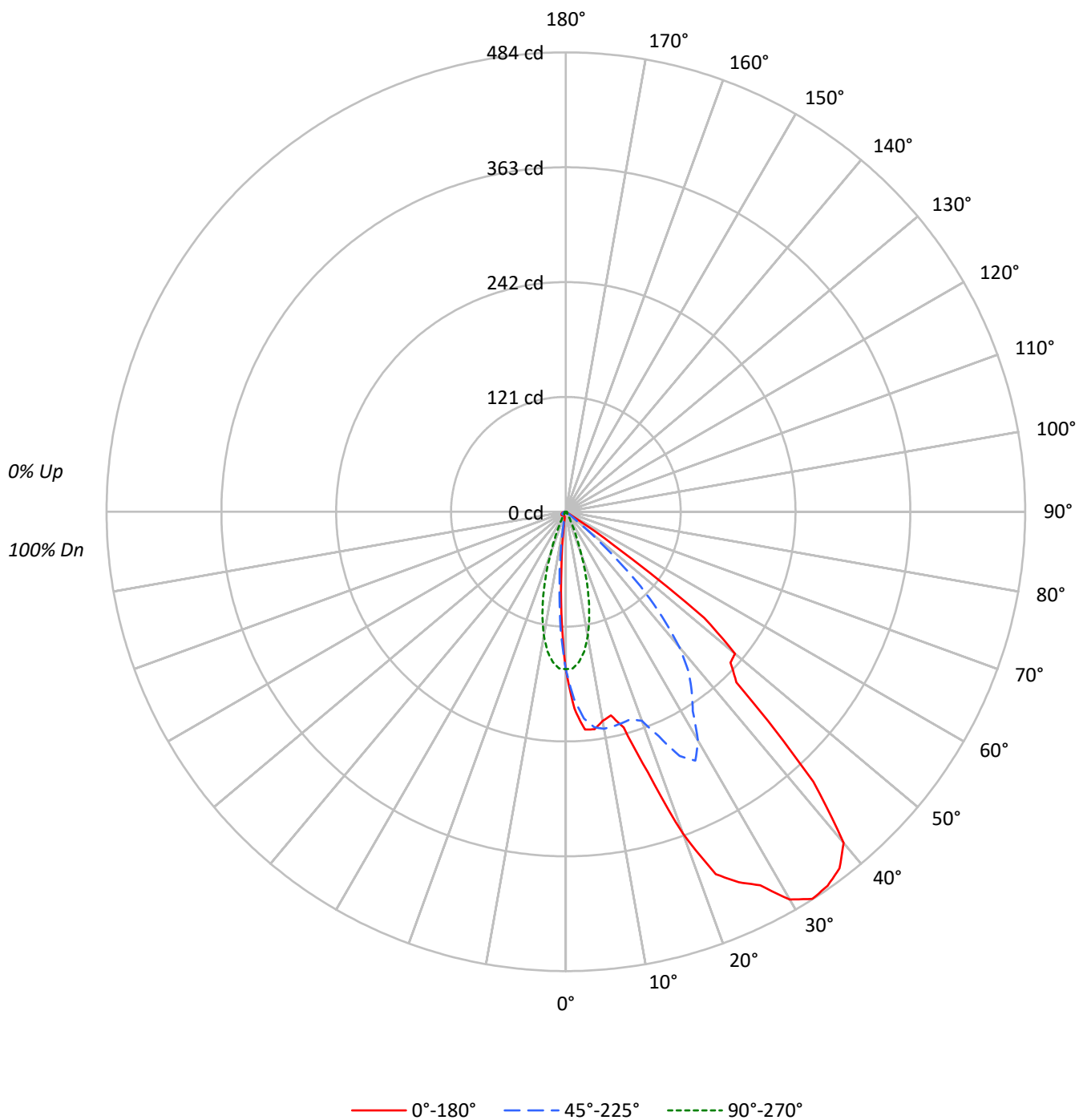
Lumens per Lamp: N/A
Luminaire Lumens: 258.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28572	28572	28572	28572	28572
5°	39832	37792	27453	13191	8558
10°	39103	40607	23207	2781	1189
15°	41936	41044	16403	981	927
20°	66217	42978	8669	825	880
25°	81825	53968	3458	779	855
30°	93805	55344	1392	776	895
35°	101128	48588	631	820	1009
40°	102383	41839	450	922	1124
45°	61864	27108	438	999	1267
50°	62348	4689	482	1152	1474
55°	18406	270	540	1291	1651
60°	310	310	551	1412	1791
65°	285	285	571	1467	1956
70°	352	352	554	1611	2165
75°	333	333	599	1664	2262
80°	198	496	694	1587	2479
85°	395	988	988	1778	2174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 70681 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	5.2
10°-20°	33.3	12.9
20°-30°	62.4	24.2
30°-40°	74.6	28.9
40°-50°	53.5	20.7
50°-60°	16.5	6.4
60°-70°	2.2	0.8
70°-80°	1.6	0.6
80°-90°	0.6	0.3
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°	109.1	42.3
0°-40°	183.7	71.2
0°-60°	253.7	98.3
0°-90°	258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	166	166	166	166	166	
5°	230	219	159	76	50	21
15°	235	230	92	6	5	75
25°	431	284	18	4	4	198
35°	481	231	3	4	5	298
45°	254	111	2	4	5	233
55°	61	1	2	4	6	79
65°	1	1	1	4	5	1
75°	0	0	1	2	3	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	207.5	207.9	208.6	206.8	205.6	204.7	203.1	202.7	198.8	197.2	195.6
5°	230.4	229.9	230.4	229.7	229.3	227.9	226.5	224.3	221.8	218.6	215.0
7.5°	231.1	230.6	231.5	231.5	232.4	232.4	232.4	232.7	231.3	229.0	225.9
10°	223.6	223.6	224.5	224.0	225.6	226.3	227.9	230.6	232.0	232.2	231.3
12.5°	219.7	219.7	220.0	219.0	219.5	220.2	222.0	225.2	228.4	231.5	233.4
15°	235.2	235.6	232.4	227.9	224.5	220.9	219.7	221.8	225.2	230.2	234.3
17.5°	287.7	288.3	284.9	274.0	263.6	248.6	235.2	228.6	224.9	229.0	234.5
20°	361.3	358.8	352.9	341.3	326.1	302.9	282.0	260.9	240.6	234.5	236.3
22.5°	413.3	412.4	407.6	394.7	381.5	359.9	333.3	303.8	274.5	255.9	246.1
25°	430.6	429.9	425.6	417.9	410.6	394.2	370.4	340.6	309.9	284.0	259.5
27.5°	443.5	442.6	435.8	427.2	419.7	403.1	381.3	358.8	330.6	295.6	257.9
30°	471.7	469.2	459.7	444.2	429.9	407.0	382.9	354.9	316.7	278.3	241.5
32.5°	483.5	482.2	474.0	461.5	445.8	415.8	379.2	332.4	282.2	249.0	222.2
35°	481.0	479.0	470.6	456.3	437.2	408.3	359.5	295.2	254.3	231.1	200.9
37.5°	473.5	470.6	460.6	443.8	420.6	382.9	319.0	264.9	238.6	212.5	171.8
40°	455.4	450.6	439.0	421.5	398.3	348.8	282.2	246.8	222.2	186.1	139.3
42.5°	385.8	383.3	389.0	386.1	365.6	307.2	256.1	230.2	196.3	150.4	100.9
45°	254.0	258.4	268.6	286.1	290.2	264.3	234.7	202.9	161.6	111.3	58.2
47.5°	235.2	234.3	236.8	240.2	240.9	229.9	203.1	167.7	120.0	63.6	16.1
50°	232.7	231.3	229.3	225.2	216.5	195.4	165.0	122.2	69.3	17.5	1.1
52.5°	183.8	182.5	182.5	176.6	165.4	145.0	113.8	67.3	19.3	1.1	0.9
55°	61.3	65.4	64.8	64.5	69.5	64.1	49.1	17.3	1.6	0.9	0.9
57.5°	1.1	1.1	1.1	2.0	3.2	4.5	2.7	1.4	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
77.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	192.0	188.8	182.7	165.2	145.9	123.8	108.8	107.0
5°	209.3	204.5	194.5	158.8	114.7	76.3	56.8	49.5
7.5°	220.6	214.3	202.0	148.4	83.6	40.2	21.6	17.3
10°	227.4	221.5	205.9	132.7	53.2	15.9	7.3	6.8
12.5°	231.1	225.4	207.2	113.8	30.0	7.3	5.7	5.7
15°	233.6	227.4	205.2	92.0	15.0	5.5	5.2	5.2
17.5°	234.7	227.2	199.3	69.3	8.0	5.0	5.0	5.0
20°	235.4	224.7	188.4	47.3	5.5	4.5	4.8	4.8
22.5°	236.1	218.6	174.1	30.0	4.3	4.3	4.5	4.5
25°	234.7	207.9	153.8	18.2	3.9	4.1	4.3	4.5
27.5°	224.9	191.8	129.3	11.1	3.4	3.9	4.3	4.5
30°	208.1	168.1	100.9	7.0	3.2	3.9	4.3	4.5
32.5°	186.3	141.1	72.0	4.3	3.2	3.9	4.3	4.5
35°	157.0	107.9	46.8	3.0	3.2	3.9	4.5	4.8
37.5°	124.1	75.4	25.2	2.3	3.2	3.9	4.5	4.8
40°	89.3	45.2	9.1	2.0	3.0	4.1	4.8	5.0
42.5°	52.3	16.8	1.6	1.8	3.0	4.1	4.8	5.0
45°	15.0	1.8	0.9	1.8	3.0	4.1	5.0	5.2
47.5°	1.1	0.7	0.9	1.8	3.0	4.1	5.0	5.5
50°	0.7	0.7	0.7	1.8	3.0	4.3	5.2	5.5
52.5°	0.9	0.9	0.9	1.8	3.0	4.3	5.2	5.5
55°	0.9	0.9	0.9	1.8	3.0	4.3	5.2	5.5
57.5°	0.9	0.9	0.9	1.8	3.0	4.1	5.2	5.5
60°	0.9	0.9	0.9	1.6	2.7	4.1	5.0	5.2
62.5°	0.9	0.9	0.9	1.6	2.7	3.9	5.0	5.0
65°	0.9	0.9	0.9	1.4	2.5	3.6	4.5	4.8
67.5°	0.9	0.9	0.9	1.4	2.3	3.4	4.3	4.5
70°	0.7	0.9	0.9	1.1	2.0	3.2	4.1	4.3
72.5°	0.7	0.7	0.9	1.1	1.8	2.7	3.6	3.9
75°	0.7	0.7	0.7	0.9	1.6	2.5	3.2	3.4
77.5°	0.7	0.7	0.7	0.9	1.4	2.0	3.0	3.0
80°	0.5	0.7	0.7	0.7	1.1	1.6	2.3	2.5
82.5°	0.5	0.5	0.5	0.7	0.9	1.4	1.8	1.8
85°	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.1
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)