

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: P1306644

Luminaire Tested: P3SQAS05R709027DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709027DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

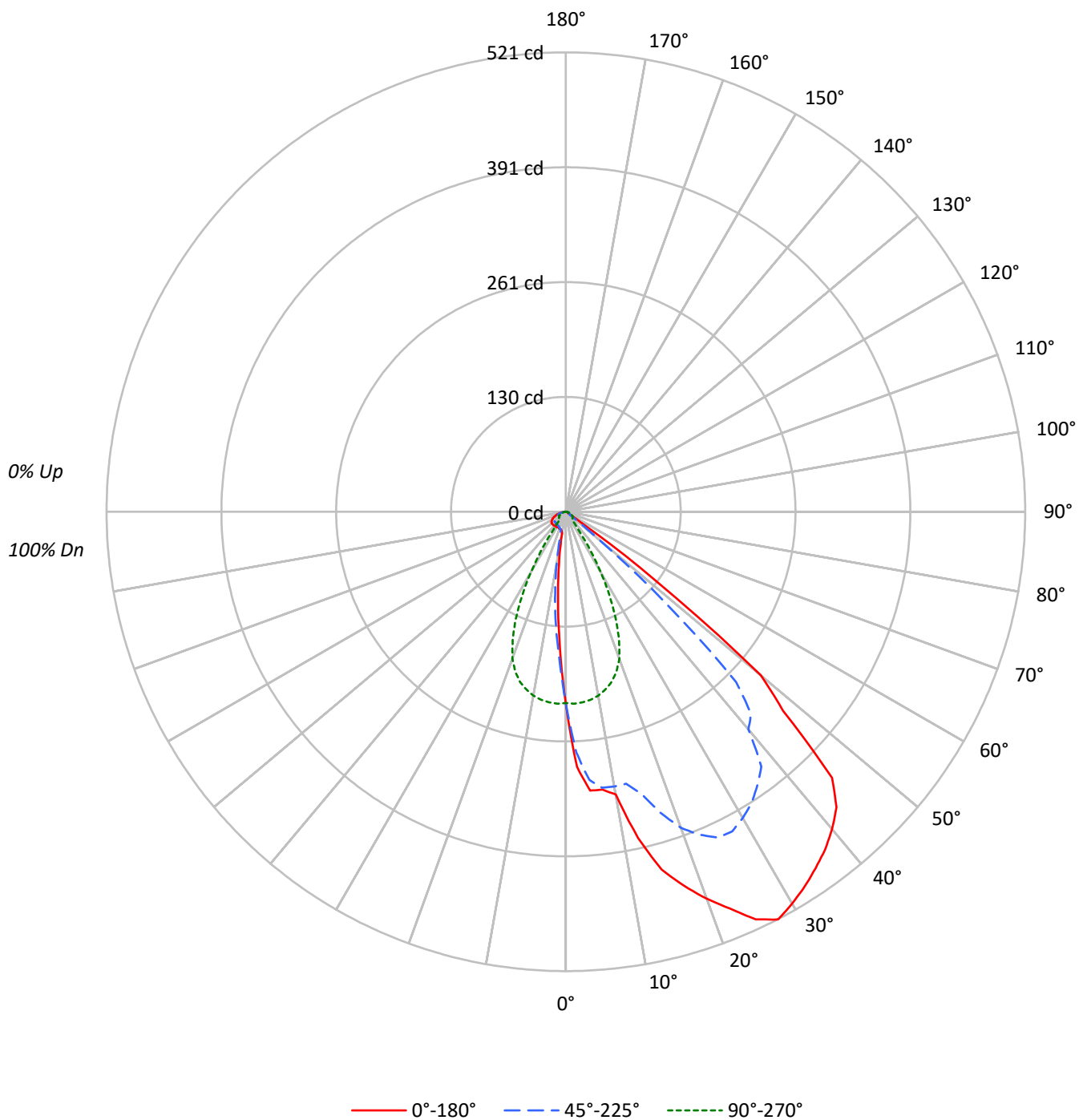
Lumens per Lamp: N/A
Luminaire Lumens: 412.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	37355	37355	37355	37355	37355
5°	54872	52780	37498	22388	17530
10°	56906	55349	37039	10703	4337
15°	74939	59017	35677	3833	3744
20°	85590	69920	32476	3684	3775
25°	96914	77474	25502	3553	3725
30°	102078	79765	15810	3540	3997
35°	103798	79620	5214	3637	4226
40°	105621	72415	2518	3889	4631
45°	103951	66492	2630	4092	5017
50°	77271	12271	2626	4501	5519
55°	6185	1681	2792	4774	5885
60°	1274	1757	2721	4822	6131
65°	1345	1712	2649	4768	6276
70°	1158	1662	2568	4482	6143
75°	932	1530	2196	4325	5922
80°	893	1389	2281	4166	5554
85°	988	1778	2766	3754	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 105218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	4.8
10°-20°	55.5	13.5
20°-30°	93.2	22.6
30°-40°	112.1	27.2
40°-50°	88.9	21.6
50°-60°	28.4	6.9
60°-70°	7.9	1.9
70°-80°	4.7	1.1
80°-90°	1.5	0.4
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°	168.5	40.9
0°-40°	280.6	68.1
0°-60°	397.8	96.6
0°-90°	412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	217	217	217	217	217	
5°	317	305	217	130	101	30
15°	420	331	200	22	21	118
25°	510	408	134	19	20	233
35°	494	379	25	17	20	309
45°	427	273	11	17	21	307
55°	21	6	9	16	20	64
65°	3	4	6	12	15	3
75°	1	2	3	6	9	2
85°	0	1	1	2	2	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°	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9
2.5°	289.4	291.2	291.2	288.9	289.8	286.1	283.3	279.1	278.2	273.0	266.5
5°	317.4	316.5	316.5	314.6	315.6	314.2	312.8	311.8	309.0	305.3	301.5
7.5°	317.9	318.8	319.3	318.8	320.7	319.3	319.3	319.3	317.4	315.6	311.8
10°	325.4	324.0	322.6	319.3	317.4	316.0	316.0	316.5	317.4	316.5	314.2
12.5°	379.1	374.0	371.7	363.7	357.6	347.3	335.7	326.8	318.8	316.0	314.2
15°	420.3	419.3	414.7	407.2	399.7	387.6	374.0	360.4	345.9	331.0	320.2
17.5°	444.6	442.7	438.0	430.1	421.2	410.0	399.2	389.0	374.9	358.1	340.8
20°	467.0	462.8	456.7	447.4	438.5	427.8	416.1	406.3	394.6	381.5	361.4
22.5°	487.1	483.4	473.6	460.9	452.1	441.8	431.5	422.1	411.4	396.4	378.2
25°	510.0	501.6	485.7	469.4	458.6	450.2	442.7	435.2	424.0	407.7	386.1
27.5°	521.3	509.6	492.3	475.9	465.6	456.7	448.8	441.3	428.7	408.6	383.8
30°	513.3	506.8	494.6	482.0	473.6	465.2	455.8	444.6	424.5	401.1	378.2
32.5°	504.0	500.7	495.1	487.6	482.5	474.0	460.9	442.7	414.7	391.8	367.0
35°	493.7	492.3	490.4	487.1	483.9	475.9	459.5	432.9	404.8	378.7	354.8
37.5°	482.9	481.5	482.9	482.5	479.6	469.4	444.6	419.8	390.8	364.2	317.9
40°	469.8	468.9	471.2	473.6	470.3	456.7	430.1	400.2	374.5	322.1	306.2
42.5°	454.4	453.9	458.1	460.0	455.3	435.2	403.9	381.9	327.7	310.9	273.5
45°	426.8	427.8	429.6	432.0	429.2	407.2	378.7	338.5	314.6	273.0	155.7
47.5°	334.3	335.2	344.5	364.2	377.7	370.3	345.9	316.0	281.4	156.1	49.1
50°	288.4	287.5	288.0	292.7	303.4	313.7	306.2	289.8	167.8	45.8	6.1
52.5°	126.7	140.7	155.7	197.7	224.9	253.4	259.0	181.4	54.7	6.1	6.1
55°	20.6	21.5	27.1	39.7	71.5	108.0	130.9	60.8	5.6	5.6	5.6
57.5°	4.2	4.2	4.2	4.7	7.0	15.0	17.3	5.1	5.1	5.1	5.6
60°	3.7	3.7	3.7	3.7	4.2	4.2	4.2	4.7	4.7	5.1	5.1
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	4.2	4.2	4.7	4.7	5.1
65°	3.3	3.3	3.3	3.3	3.7	3.7	3.7	3.7	4.2	4.2	4.7
67.5°	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.7	3.7	3.7	4.2
70°	2.3	2.3	2.3	2.3	2.8	2.8	2.8	2.8	3.3	3.3	3.3
72.5°	1.9	1.9	1.9	1.9	2.3	2.3	2.3	2.3	2.8	2.8	2.8
75°	1.4	1.4	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4
82.5°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	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	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°	216.9	216.9	216.9	216.9	216.9	216.9	216.9	216.9
2.5°	262.3	255.7	246.8	217.9	191.2	166.9	154.7	153.3
5°	295.5	289.4	274.4	216.9	166.0	129.5	107.5	101.4
7.5°	308.1	302.9	289.8	215.0	142.1	93.0	68.3	58.9
10°	311.3	308.1	296.9	211.8	117.3	61.2	32.3	24.8
12.5°	312.8	310.4	299.7	206.6	92.6	31.8	22.0	22.0
15°	315.1	312.8	302.5	200.1	68.3	21.5	21.0	21.0
17.5°	325.4	317.9	306.2	190.3	44.9	20.6	20.6	20.6
20°	342.2	325.8	308.1	177.2	28.0	20.1	20.1	20.6
22.5°	356.2	334.3	307.6	157.5	20.6	19.2	19.6	20.1
25°	362.3	338.0	303.4	134.2	17.8	18.7	19.6	19.6
27.5°	361.4	339.4	299.7	107.5	16.8	18.2	19.2	20.1
30°	356.2	335.7	291.2	79.5	15.9	17.8	19.2	20.1
32.5°	347.3	321.2	274.4	51.4	15.4	17.8	19.2	20.1
35°	318.4	297.8	250.1	24.8	15.0	17.3	19.6	20.1
37.5°	301.5	273.0	190.7	12.2	14.5	17.3	19.6	20.1
40°	274.4	203.8	86.0	11.2	14.5	17.3	19.6	20.6
42.5°	172.5	83.7	14.0	10.8	14.0	17.3	19.6	20.6
45°	63.1	11.2	7.5	10.8	14.0	16.8	19.6	20.6
47.5°	6.5	6.5	7.0	10.3	13.6	16.8	19.6	20.6
50°	6.1	6.5	7.0	9.8	13.1	16.8	19.2	20.6
52.5°	6.1	6.5	7.0	9.8	12.6	16.4	19.2	20.6
55°	6.1	6.5	6.5	9.3	12.2	15.9	18.7	19.6
57.5°	5.6	6.1	6.5	8.9	11.7	15.0	18.2	19.2
60°	5.6	6.1	6.5	7.9	11.2	14.0	17.3	17.8
62.5°	5.1	5.6	6.1	7.5	10.3	13.1	15.9	16.8
65°	5.1	5.1	5.6	6.5	9.3	11.7	14.5	15.4
67.5°	4.2	4.7	4.7	5.6	7.9	10.3	13.1	14.0
70°	3.7	3.7	4.2	5.1	7.0	8.9	11.2	12.2
72.5°	3.3	3.3	3.3	4.2	6.1	7.9	9.8	10.8
75°	2.8	2.8	2.8	3.3	5.1	6.5	8.4	8.9
77.5°	2.3	2.3	2.3	2.8	4.2	5.6	6.5	7.5
80°	1.9	1.9	1.9	2.3	3.3	4.2	5.1	5.6
82.5°	1.4	1.4	1.4	1.9	2.3	2.8	3.7	3.7
85°	0.9	0.9	0.9	1.4	1.4	1.9	2.3	2.3
87.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)