

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: P1316759

Luminaire Tested: P3SQAS02R709830DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316759
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: P3SQAS02R709830DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

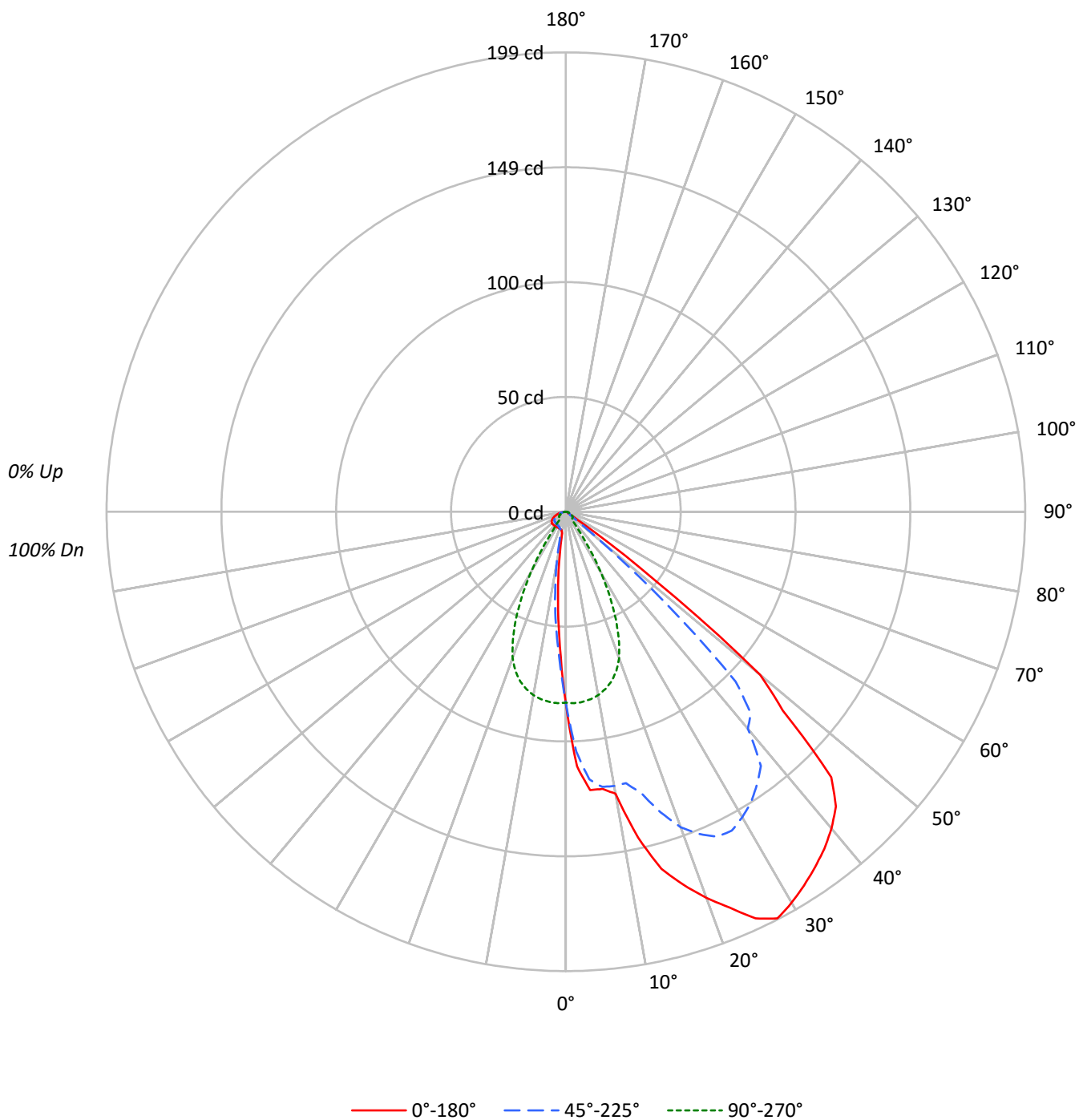
Lumens per Lamp: N/A
Luminaire Lumens: 157.0 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14243	14243	14243	14243	14243
5°	20919	20106	14297	8523	6690
10°	21685	21090	14113	4075	1644
15°	28563	22483	13586	1462	1426
20°	32623	26648	12371	1411	1430
25°	36941	29511	9710	1349	1425
30°	38898	30387	6026	1352	1531
35°	39547	30338	1976	1388	1619
40°	40243	27585	967	1484	1754
45°	39603	25330	999	1559	1900
50°	29446	4689	991	1715	2090
55°	2342	631	1081	1832	2252
60°	482	689	1033	1826	2342
65°	489	652	1019	1834	2404
70°	453	604	1007	1712	2316
75°	333	599	799	1664	2262
80°	397	496	893	1587	2083
85°	395	790	988	1383	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 40090 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	4.8
10°-20°	21.2	13.5
20°-30°	35.5	22.6
30°-40°	42.7	27.2
40°-50°	33.9	21.6
50°-60°	10.8	6.9
60°-70°	3.0	1.9
70°-80°	1.8	1.1
80°-90°	0.6	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°	64.2	40.9
0°-40°	106.9	68.1
0°-60°	151.6	96.6
0°-90°	157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	157.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	121	116	83	49	39	11
15°	160	126	76	8	8	45
25°	194	155	51	7	8	89
35°	188	144	9	7	8	118
45°	163	104	4	6	8	117
55°	8	2	4	6	8	25
65°	1	2	2	4	6	1
75°	0	1	1	2	3	1
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°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	110.3	111.0	111.0	110.1	110.5	109.0	108.0	106.4	106.0	104.0	101.5
5°	121.0	120.6	120.6	119.9	120.2	119.7	119.2	118.8	117.8	116.3	114.9
7.5°	121.1	121.5	121.7	121.5	122.2	121.7	121.7	121.7	121.0	120.2	118.8
10°	124.0	123.5	122.9	121.7	121.0	120.4	120.4	120.6	121.0	120.6	119.7
12.5°	144.5	142.5	141.6	138.6	136.3	132.4	127.9	124.5	121.5	120.4	119.7
15°	160.2	159.8	158.0	155.2	152.3	147.7	142.5	137.4	131.8	126.1	122.0
17.5°	169.4	168.7	166.9	163.9	160.5	156.2	152.1	148.2	142.9	136.5	129.9
20°	178.0	176.4	174.0	170.5	167.1	163.0	158.6	154.8	150.4	145.4	137.7
22.5°	185.6	184.2	180.5	175.7	172.3	168.3	164.4	160.9	156.8	151.1	144.1
25°	194.4	191.2	185.1	178.9	174.8	171.6	168.7	165.9	161.6	155.3	147.1
27.5°	198.6	194.2	187.6	181.4	177.4	174.0	171.0	168.2	163.4	155.7	146.3
30°	195.6	193.1	188.5	183.7	180.5	177.3	173.7	169.4	161.8	152.8	144.1
32.5°	192.0	190.8	188.7	185.8	183.8	180.6	175.7	168.7	158.0	149.3	139.8
35°	188.1	187.6	186.9	185.6	184.4	181.4	175.1	165.0	154.3	144.3	135.2
37.5°	184.0	183.5	184.0	183.8	182.8	178.9	169.4	160.0	148.9	138.8	121.1
40°	179.0	178.7	179.6	180.5	179.2	174.0	163.9	152.5	142.7	122.7	116.7
42.5°	173.2	173.0	174.6	175.3	173.5	165.9	153.9	145.5	124.9	118.5	104.2
45°	162.6	163.0	163.7	164.6	163.5	155.2	144.3	129.0	119.9	104.0	59.3
47.5°	127.4	127.7	131.3	138.8	143.9	141.1	131.8	120.4	107.2	59.5	18.7
50°	109.9	109.6	109.7	111.5	115.6	119.5	116.7	110.5	64.0	17.5	2.3
52.5°	48.3	53.6	59.3	75.4	85.7	96.6	98.7	69.1	20.8	2.3	2.3
55°	7.8	8.2	10.3	15.1	27.3	41.2	49.9	23.2	2.1	2.1	2.1
57.5°	1.6	1.6	1.6	1.8	2.7	5.7	6.6	2.0	2.0	2.0	2.1
60°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.8	1.8	2.0	2.0
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.8	1.8	2.0
65°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.6	1.6	1.8
67.5°	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.4	1.4	1.4	1.6
70°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.2	1.2	1.2
72.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	1.1	1.1	1.1
75°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
82.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	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°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	99.9	97.4	94.1	83.0	72.9	63.6	59.0	58.4
5°	112.6	110.3	104.6	82.7	63.2	49.3	41.0	38.7
7.5°	117.4	115.4	110.5	81.9	54.2	35.5	26.0	22.4
10°	118.6	117.4	113.1	80.7	44.7	23.3	12.3	9.4
12.5°	119.2	118.3	114.2	78.7	35.3	12.1	8.4	8.4
15°	120.1	119.2	115.3	76.2	26.0	8.2	8.0	8.0
17.5°	124.0	121.1	116.7	72.5	17.1	7.8	7.8	7.8
20°	130.4	124.2	117.4	67.5	10.7	7.7	7.7	7.8
22.5°	135.7	127.4	117.2	60.0	7.8	7.3	7.5	7.7
25°	138.1	128.8	115.6	51.1	6.8	7.1	7.5	7.5
27.5°	137.7	129.3	114.2	41.0	6.4	6.9	7.3	7.7
30°	135.7	127.9	111.0	30.3	6.1	6.8	7.3	7.7
32.5°	132.4	122.4	104.6	19.6	5.9	6.8	7.3	7.7
35°	121.3	113.5	95.3	9.4	5.7	6.6	7.5	7.7
37.5°	114.9	104.0	72.7	4.6	5.5	6.6	7.5	7.7
40°	104.6	77.7	32.8	4.3	5.5	6.6	7.5	7.8
42.5°	65.7	31.9	5.3	4.1	5.3	6.6	7.5	7.8
45°	24.0	4.3	2.9	4.1	5.3	6.4	7.5	7.8
47.5°	2.5	2.5	2.7	3.9	5.2	6.4	7.5	7.8
50°	2.3	2.5	2.7	3.7	5.0	6.4	7.3	7.8
52.5°	2.3	2.5	2.7	3.7	4.8	6.2	7.3	7.8
55°	2.3	2.5	2.5	3.6	4.6	6.1	7.1	7.5
57.5°	2.1	2.3	2.5	3.4	4.5	5.7	6.9	7.3
60°	2.1	2.3	2.5	3.0	4.3	5.3	6.6	6.8
62.5°	2.0	2.1	2.3	2.9	3.9	5.0	6.1	6.4
65°	2.0	2.0	2.1	2.5	3.6	4.5	5.5	5.9
67.5°	1.6	1.8	1.8	2.1	3.0	3.9	5.0	5.3
70°	1.4	1.4	1.6	2.0	2.7	3.4	4.3	4.6
72.5°	1.2	1.2	1.2	1.6	2.3	3.0	3.7	4.1
75°	1.1	1.1	1.1	1.2	2.0	2.5	3.2	3.4
77.5°	0.9	0.9	0.9	1.1	1.6	2.1	2.5	2.9
80°	0.7	0.7	0.7	0.9	1.2	1.6	2.0	2.1
82.5°	0.5	0.5	0.5	0.7	0.9	1.1	1.4	1.4
85°	0.4	0.4	0.4	0.5	0.5	0.7	0.9	0.9
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)