

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: P1308712

Luminaire Tested: P3SQAS02R709035DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308712
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: P3SQAS02R709035DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

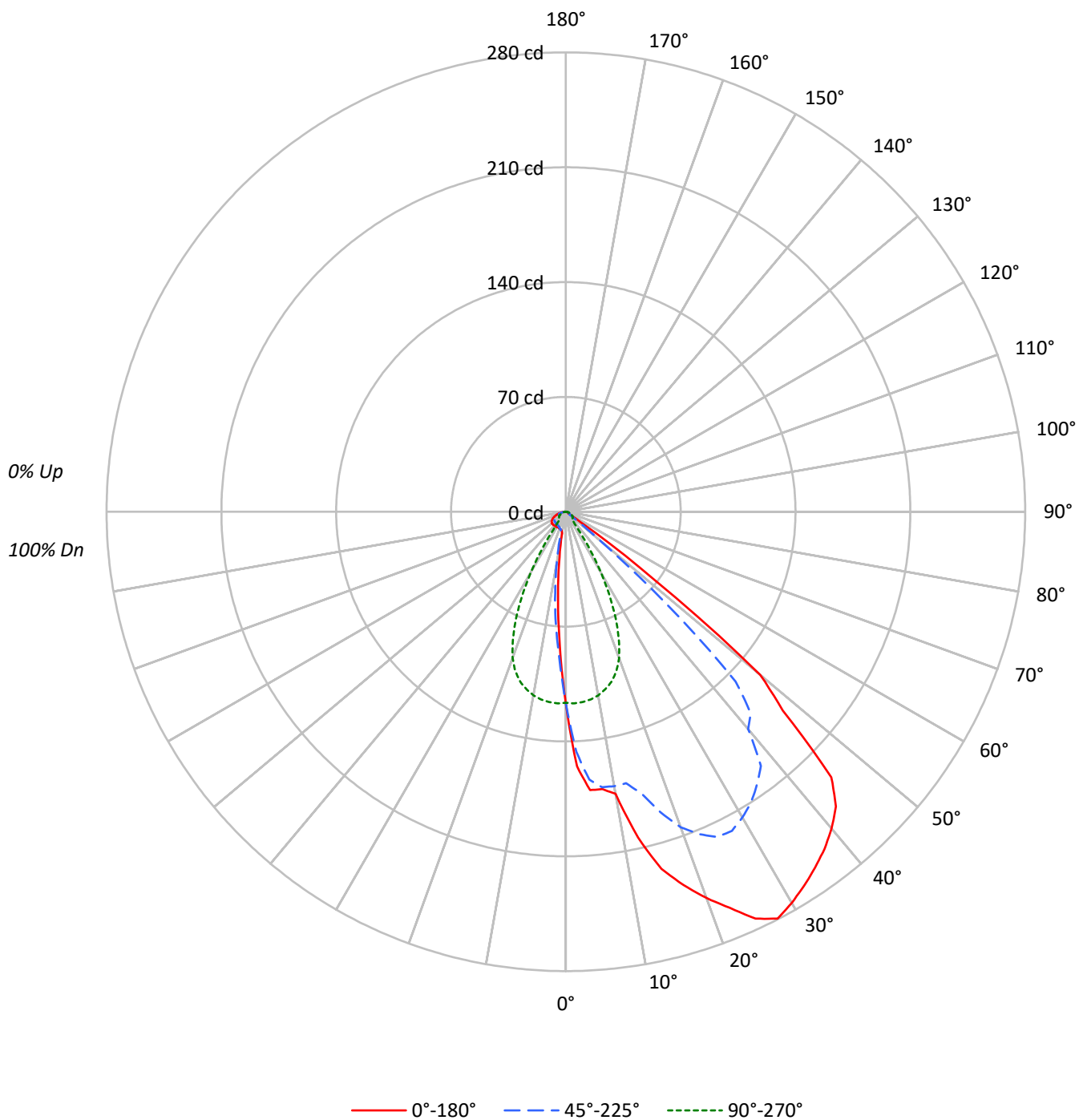
Lumens per Lamp: N/A
Luminaire Lumens: 221.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20047	20047	20047	20047	20047
5°	29442	28318	20123	12015	9405
10°	30516	29695	19866	5754	2326
15°	40188	31648	19131	2050	2015
20°	45911	37498	17411	1979	2016
25°	51991	41559	13682	1900	1995
30°	54748	42796	8472	1889	2148
35°	55673	42701	2796	1955	2271
40°	56655	38849	1349	2091	2473
45°	55751	35657	1413	2192	2679
50°	41449	6591	1420	2411	2947
55°	3303	901	1501	2552	3153
60°	689	964	1481	2583	3272
65°	734	937	1426	2567	3382
70°	655	906	1410	2417	3273
75°	532	865	1198	2329	3194
80°	496	793	1289	2281	2975
85°	593	988	1581	1976	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 56433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	4.8
10°-20°	29.8	13.5
20°-30°	50.0	22.6
30°-40°	60.1	27.2
40°-50°	47.7	21.6
50°-60°	15.3	6.9
60°-70°	4.3	1.9
70°-80°	2.6	1.2
80°-90°	0.8	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°	90.4	40.9
0°-40°	150.5	68.1
0°-60°	213.4	96.5
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	170	164	116	70	54	16
15°	225	178	107	12	11	63
25°	274	219	72	10	10	125
35°	265	203	13	9	11	166
45°	229	146	6	9	11	164
55°	11	3	5	8	10	35
65°	2	2	4	6	8	2
75°	1	1	2	4	5	1
85°	0	0	1	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°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4
2.5°	155.2	156.2	156.2	155.0	155.5	153.5	152.0	149.7	149.2	146.4	142.9
5°	170.3	169.8	169.8	168.8	169.3	168.5	167.8	167.3	165.8	163.8	161.7
7.5°	170.5	171.0	171.3	171.0	172.0	171.3	171.3	171.3	170.3	169.3	167.3
10°	174.5	173.8	173.0	171.3	170.3	169.5	169.5	169.8	170.3	169.8	168.5
12.5°	203.4	200.6	199.4	195.1	191.8	186.3	180.1	175.3	171.0	169.5	168.5
15°	225.4	224.9	222.4	218.4	214.4	207.9	200.6	193.3	185.6	177.5	171.8
17.5°	238.5	237.5	235.0	230.7	225.9	219.9	214.2	208.6	201.1	192.1	182.8
20°	250.5	248.3	245.0	240.0	235.2	229.5	223.2	217.9	211.6	204.6	193.8
22.5°	261.3	259.3	254.0	247.3	242.5	237.0	231.5	226.4	220.7	212.7	202.9
25°	273.6	269.1	260.5	251.8	246.0	241.5	237.5	233.5	227.4	218.7	207.1
27.5°	279.6	273.3	264.1	255.3	249.8	245.0	240.7	236.7	230.0	219.2	205.9
30°	275.3	271.8	265.3	258.5	254.0	249.5	244.5	238.5	227.7	215.2	202.9
32.5°	270.3	268.6	265.6	261.5	258.8	254.3	247.3	237.5	222.4	210.1	196.9
35°	264.8	264.1	263.1	261.3	259.5	255.3	246.5	232.2	217.2	203.1	190.3
37.5°	259.0	258.3	259.0	258.8	257.3	251.8	238.5	225.2	209.6	195.3	170.5
40°	252.0	251.5	252.8	254.0	252.3	245.0	230.7	214.7	200.9	172.8	164.3
42.5°	243.7	243.5	245.8	246.8	244.2	233.5	216.7	204.9	175.8	166.8	146.7
45°	228.9	229.5	230.5	231.7	230.2	218.4	203.1	181.6	168.8	146.4	83.5
47.5°	179.3	179.8	184.8	195.3	202.6	198.6	185.6	169.5	151.0	83.8	26.3
50°	154.7	154.2	154.5	157.0	162.7	168.3	164.3	155.5	90.0	24.6	3.3
52.5°	68.0	75.5	83.5	106.1	120.6	135.9	138.9	97.3	29.3	3.3	3.3
55°	11.0	11.5	14.5	21.3	38.4	57.9	70.2	32.6	3.0	3.0	3.0
57.5°	2.3	2.3	2.3	2.5	3.8	8.0	9.3	2.8	2.8	2.8	3.0
60°	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.5	2.5	2.8	2.8
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	2.5	2.5	2.8
65°	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.3	2.3	2.5
67.5°	1.5	1.5	1.5	1.5	1.8	1.8	1.8	2.0	2.0	2.0	2.3
70°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.8	1.8	1.8
72.5°	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.5	1.5	1.5
75°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8
82.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4
2.5°	140.7	137.2	132.4	116.9	102.6	89.5	83.0	82.3
5°	158.5	155.2	147.2	116.4	89.0	69.5	57.7	54.4
7.5°	165.3	162.5	155.5	115.4	76.2	49.9	36.6	31.6
10°	167.0	165.3	159.2	113.6	62.9	32.9	17.3	13.3
12.5°	167.8	166.5	160.7	110.8	49.7	17.1	11.8	11.8
15°	169.0	167.8	162.2	107.3	36.6	11.5	11.3	11.3
17.5°	174.5	170.5	164.3	102.1	24.1	11.0	11.0	11.0
20°	183.6	174.8	165.3	95.0	15.0	10.8	10.8	11.0
22.5°	191.1	179.3	165.0	84.5	11.0	10.3	10.5	10.8
25°	194.3	181.3	162.7	72.0	9.5	10.0	10.5	10.5
27.5°	193.8	182.1	160.7	57.7	9.0	9.8	10.3	10.8
30°	191.1	180.1	156.2	42.6	8.5	9.5	10.3	10.8
32.5°	186.3	172.3	147.2	27.6	8.3	9.5	10.3	10.8
35°	170.8	159.7	134.2	13.3	8.0	9.3	10.5	10.8
37.5°	161.7	146.4	102.3	6.5	7.8	9.3	10.5	10.8
40°	147.2	109.3	46.1	6.0	7.8	9.3	10.5	11.0
42.5°	92.5	44.9	7.5	5.8	7.5	9.3	10.5	11.0
45°	33.9	6.0	4.0	5.8	7.5	9.0	10.5	11.0
47.5°	3.5	3.5	3.8	5.5	7.3	9.0	10.5	11.0
50°	3.3	3.5	3.8	5.3	7.0	9.0	10.3	11.0
52.5°	3.3	3.5	3.8	5.3	6.8	8.8	10.3	11.0
55°	3.3	3.5	3.5	5.0	6.5	8.5	10.0	10.5
57.5°	3.0	3.3	3.5	4.8	6.3	8.0	9.8	10.3
60°	3.0	3.3	3.5	4.3	6.0	7.5	9.3	9.5
62.5°	2.8	3.0	3.3	4.0	5.5	7.0	8.5	9.0
65°	2.8	2.8	3.0	3.5	5.0	6.3	7.8	8.3
67.5°	2.3	2.5	2.5	3.0	4.3	5.5	7.0	7.5
70°	2.0	2.0	2.3	2.8	3.8	4.8	6.0	6.5
72.5°	1.8	1.8	1.8	2.3	3.3	4.3	5.3	5.8
75°	1.5	1.5	1.5	1.8	2.8	3.5	4.5	4.8
77.5°	1.3	1.3	1.3	1.5	2.3	3.0	3.5	4.0
80°	1.0	1.0	1.0	1.3	1.8	2.3	2.8	3.0
82.5°	0.8	0.8	0.8	1.0	1.3	1.5	2.0	2.0
85°	0.5	0.5	0.5	0.8	0.8	1.0	1.3	1.3
87.5°	0.3	0.3	0.3	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)