

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: P1311994

Luminaire Tested: P3SQAS02R509727DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311994
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: P3SQAS02R509727DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

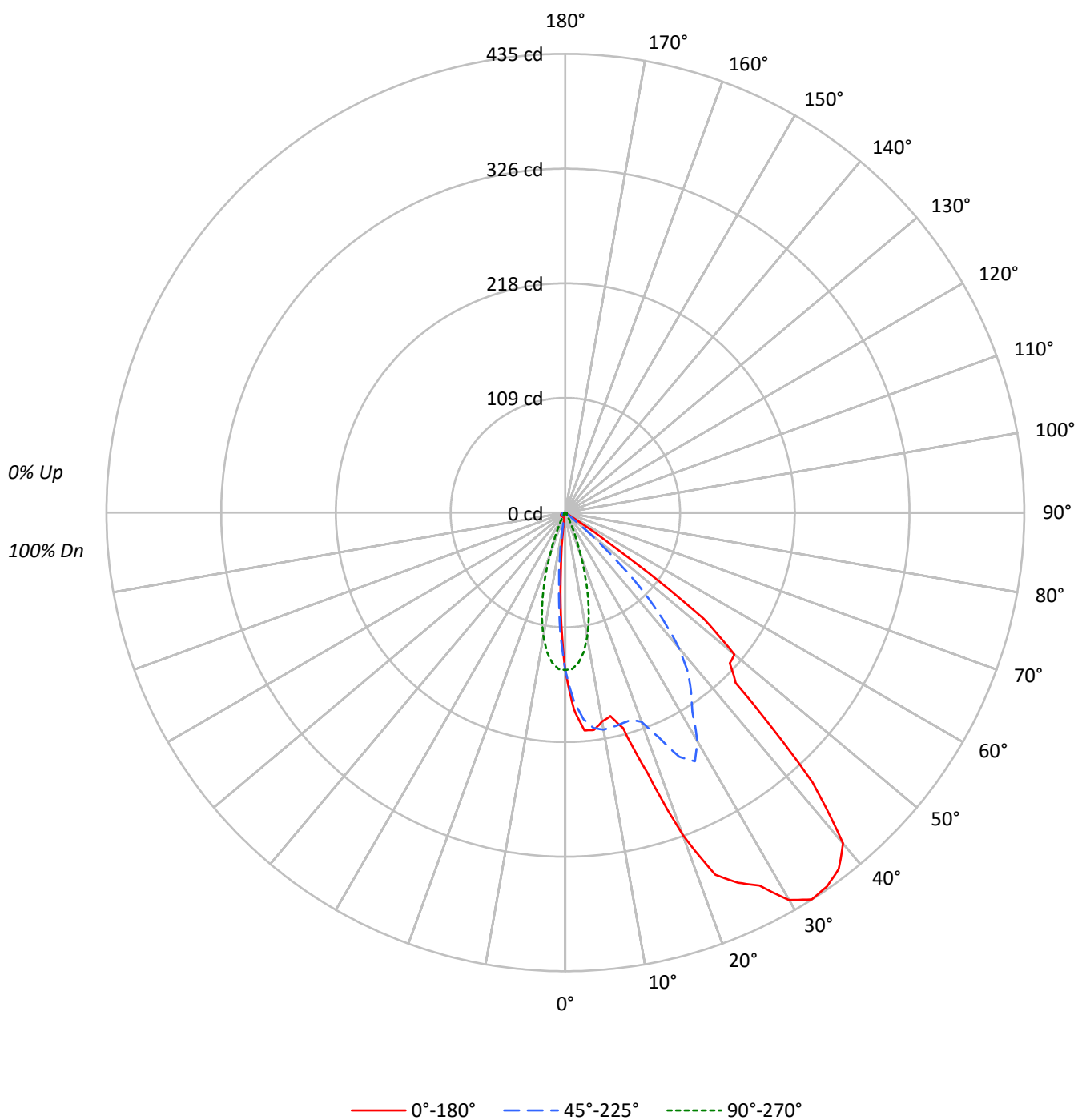
Lumens per Lamp: N/A
Luminaire Lumens: 232.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	93	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	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	51	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	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25696	25696	25696	25696	25696
5°	35821	33988	24687	11877	7693
10°	35168	36515	20863	2501	1067
15°	37710	36908	14763	874	838
20°	59546	38653	7789	751	788
25°	73578	48533	3097	703	779
30°	84359	49776	1253	696	815
35°	90952	43689	568	736	904
40°	92064	37613	405	832	1012
45°	55629	24380	390	901	1145
50°	56051	4207	429	1045	1313
55°	16574	240	480	1171	1471
60°	276	276	482	1274	1619
65°	245	245	489	1345	1752
70°	302	302	504	1460	1964
75°	266	266	532	1464	2063
80°	198	397	595	1389	2182
85°	395	790	790	1581	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 63545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	5.2
10°-20°	29.9	12.9
20°-30°	56.1	24.2
30°-40°	67.1	28.9
40°-50°	48.1	20.7
50°-60°	14.8	6.4
60°-70°	1.9	0.8
70°-80°	1.4	0.6
80°-90°	0.6	0.2
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°	98.1	42.3
0°-40°	165.2	71.2
0°-60°	228.1	98.3
0°-90°	232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	207	197	143	69	44	19
15°	212	207	83	5	5	68
25°	387	255	16	4	4	178
35°	433	208	3	4	4	268
45°	228	100	2	4	5	210
55°	55	1	2	4	5	71
65°	1	1	1	3	4	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°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2
2.5°	186.5	187.0	187.6	185.9	184.9	184.1	182.7	182.3	178.8	177.4	175.9
5°	207.2	206.8	207.2	206.6	206.2	204.9	203.7	201.7	199.4	196.6	193.3
7.5°	207.8	207.4	208.2	208.2	209.0	209.0	209.0	209.2	208.0	206.0	203.1
10°	201.1	201.1	201.9	201.5	202.9	203.5	204.9	207.4	208.6	208.8	208.0
12.5°	197.6	197.6	197.8	197.0	197.4	198.0	199.6	202.5	205.3	208.2	209.8
15°	211.5	211.9	209.0	204.9	201.9	198.6	197.6	199.4	202.5	207.0	210.7
17.5°	258.7	259.3	256.2	246.4	237.0	223.5	211.5	205.5	202.3	206.0	210.9
20°	324.9	322.6	317.3	306.9	293.2	272.4	253.6	234.6	216.4	210.9	212.5
22.5°	371.7	370.8	366.6	354.9	343.1	323.6	299.7	273.2	246.8	230.1	221.3
25°	387.2	386.6	382.7	375.8	369.2	354.5	333.0	306.3	278.7	255.4	233.3
27.5°	398.8	398.0	391.9	384.1	377.4	362.5	342.9	322.6	297.3	265.8	231.9
30°	424.2	421.9	413.3	399.5	386.6	365.9	344.3	319.2	284.8	250.3	217.2
32.5°	434.8	433.6	426.2	415.0	400.9	373.9	341.0	298.9	253.8	223.9	199.8
35°	432.6	430.7	423.2	410.3	393.1	367.2	323.2	265.4	228.6	207.8	180.6
37.5°	425.8	423.2	414.2	399.0	378.2	344.3	286.9	238.2	214.5	191.0	154.5
40°	409.5	405.2	394.8	379.0	358.2	313.6	253.8	221.9	199.8	167.3	125.3
42.5°	346.9	344.7	349.8	347.1	328.8	276.2	230.3	207.0	176.5	135.3	90.7
45°	228.4	232.3	241.5	257.2	260.9	237.6	211.1	182.5	145.3	100.1	52.3
47.5°	211.5	210.7	212.9	216.0	216.6	206.8	182.7	150.8	107.9	57.2	14.5
50°	209.2	208.0	206.2	202.5	194.7	175.7	148.3	109.9	62.3	15.7	1.0
52.5°	165.3	164.1	164.1	158.8	148.7	130.4	102.4	60.5	17.4	1.0	0.8
55°	55.2	58.8	58.2	58.0	62.5	57.6	44.1	15.5	1.4	0.8	0.8
57.5°	1.0	1.0	1.0	1.8	2.9	4.1	2.5	1.2	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
77.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
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°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2
2.5°	172.7	169.8	164.3	148.5	131.2	111.4	97.9	96.2
5°	188.2	183.9	174.9	142.8	103.2	68.7	51.1	44.5
7.5°	198.4	192.7	181.6	133.4	75.2	36.2	19.4	15.5
10°	204.5	199.2	185.1	119.3	47.8	14.3	6.5	6.1
12.5°	207.8	202.7	186.3	102.4	27.0	6.5	5.1	5.1
15°	210.0	204.5	184.5	82.8	13.5	4.9	4.7	4.7
17.5°	211.1	204.3	179.2	62.3	7.2	4.5	4.5	4.5
20°	211.7	202.1	169.4	42.5	4.9	4.1	4.3	4.3
22.5°	212.3	196.6	156.5	27.0	3.9	3.9	4.1	4.1
25°	211.1	187.0	138.3	16.3	3.5	3.7	3.9	4.1
27.5°	202.3	172.4	116.3	10.0	3.1	3.5	3.9	4.1
30°	187.2	151.2	90.7	6.3	2.9	3.5	3.9	4.1
32.5°	167.5	126.9	64.8	3.9	2.9	3.5	3.9	4.1
35°	141.2	97.1	42.1	2.7	2.9	3.5	4.1	4.3
37.5°	111.6	67.8	22.7	2.0	2.9	3.5	4.1	4.3
40°	80.3	40.7	8.2	1.8	2.7	3.7	4.3	4.5
42.5°	47.0	15.1	1.4	1.6	2.7	3.7	4.3	4.5
45°	13.5	1.6	0.8	1.6	2.7	3.7	4.5	4.7
47.5°	1.0	0.6	0.8	1.6	2.7	3.7	4.5	4.9
50°	0.6	0.6	0.6	1.6	2.7	3.9	4.7	4.9
52.5°	0.8	0.8	0.8	1.6	2.7	3.9	4.7	4.9
55°	0.8	0.8	0.8	1.6	2.7	3.9	4.7	4.9
57.5°	0.8	0.8	0.8	1.6	2.7	3.7	4.7	4.9
60°	0.8	0.8	0.8	1.4	2.5	3.7	4.5	4.7
62.5°	0.8	0.8	0.8	1.4	2.5	3.5	4.5	4.5
65°	0.8	0.8	0.8	1.2	2.2	3.3	4.1	4.3
67.5°	0.8	0.8	0.8	1.2	2.0	3.1	3.9	4.1
70°	0.6	0.8	0.8	1.0	1.8	2.9	3.7	3.9
72.5°	0.6	0.6	0.8	1.0	1.6	2.5	3.3	3.5
75°	0.6	0.6	0.6	0.8	1.4	2.2	2.9	3.1
77.5°	0.6	0.6	0.6	0.8	1.2	1.8	2.7	2.7
80°	0.4	0.6	0.6	0.6	1.0	1.4	2.0	2.2
82.5°	0.4	0.4	0.4	0.6	0.8	1.2	1.6	1.6
85°	0.4	0.4	0.4	0.4	0.6	0.8	1.0	1.0
87.5°	0.2	0.4	0.4	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)