

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: P1308684

Luminaire Tested: P3SQAS02R509035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

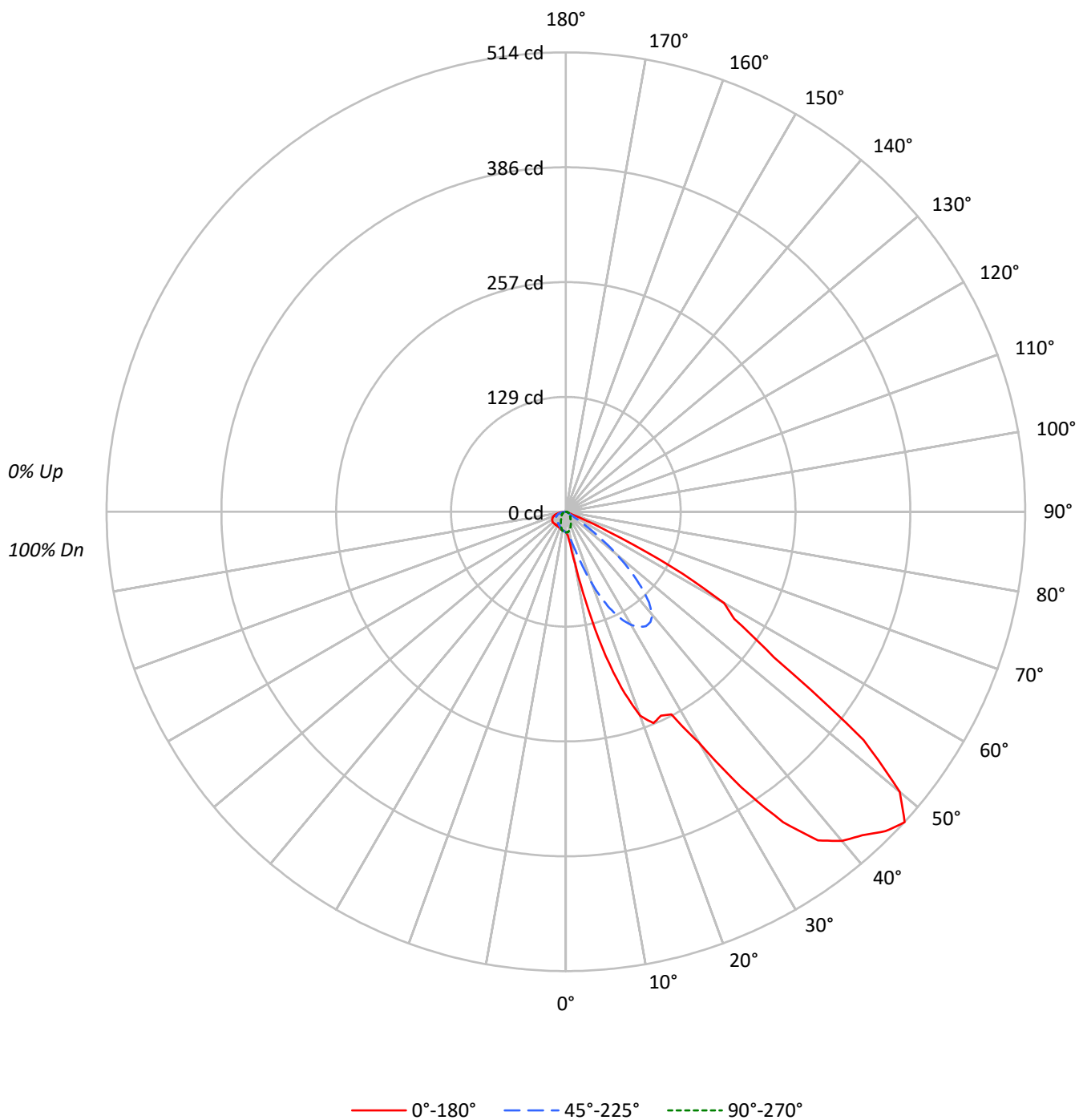
Lumens per Lamp: N/A
Luminaire Lumens: 290.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61			
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31			
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27			
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23			
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3961	3961	3961	3961	3961
5°	4720	4408	3942	3769	3717
10°	10160	5474	3760	3637	3672
15°	28135	8968	3388	3477	3619
20°	44481	15743	2932	3354	3537
25°	47830	23126	2527	3230	3573
30°	59381	29034	2188	3182	3679
35°	89102	32861	1892	3217	3890
40°	108071	33791	1686	3327	4114
45°	123119	28984	1656	3532	4506
50°	130670	19988	1688	3831	5037
55°	85364	8047	1651	4144	5555
60°	70405	1378	1653	4478	6131
65°	21231	734	1549	4809	6724
70°	906	755	1511	4935	7301
75°	865	865	1530	4991	7985
80°	793	793	1488	4959	8232
85°	593	988	1976	4940	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 131081 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.8
10°-20°	13.7	4.7
20°-30°	35.3	12.2
30°-40°	63.4	21.9
40°-50°	84.7	29.2
50°-60°	64.5	22.2
60°-70°	19.6	6.8
70°-80°	4.7	1.6
80°-90°	1.7	0.6
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°	51.4	17.7
0°-40°	114.8	39.6
0°-60°	264.0	91.0
0°-90°	290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	27	26	23	22	22	4
15°	158	50	19	20	20	46
25°	252	122	13	17	19	120
35°	424	156	9	15	18	260
45°	506	119	7	14	18	386
55°	284	27	6	14	18	283
65°	52	2	4	12	16	72
75°	1	1	2	8	12	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	24.5	24.5	24.5	24.5	24.5	24.5	24.3	24.3	24.3	23.8	23.3
5°	27.3	27.6	27.3	27.3	26.8	26.8	26.3	26.3	25.5	24.0	22.8
7.5°	35.8	35.6	35.3	34.3	33.6	31.8	31.1	29.8	27.6	24.0	22.3
10°	58.1	56.6	55.6	53.4	48.6	45.6	41.6	37.6	31.3	24.0	21.5
12.5°	100.9	100.7	97.7	90.2	83.4	74.1	64.4	54.6	38.6	23.5	20.5
15°	157.8	155.6	151.3	142.5	130.5	116.0	98.4	81.2	50.3	22.8	19.0
17.5°	206.4	203.6	200.4	191.6	177.8	159.6	138.5	114.7	66.4	21.8	17.5
20°	242.7	241.0	238.2	231.2	218.2	201.6	178.1	149.3	85.9	20.5	16.0
22.5°	256.0	255.7	256.2	253.7	247.2	234.2	211.7	181.6	105.2	19.0	14.5
25°	251.7	251.5	254.7	258.0	259.5	254.2	237.0	207.7	121.7	17.8	13.3
27.5°	255.7	255.0	253.5	254.0	258.2	261.3	253.2	227.7	136.0	16.0	12.0
30°	298.6	294.3	287.6	276.0	267.5	266.8	263.3	243.5	146.0	14.3	11.0
32.5°	365.5	360.2	347.9	326.6	306.3	290.8	279.8	256.7	153.0	12.5	9.8
35°	423.8	420.1	405.8	384.7	355.7	326.6	306.6	276.3	156.3	11.0	9.0
37.5°	463.4	461.9	447.9	425.3	395.8	361.4	334.9	296.3	155.6	9.3	8.3
40°	480.7	476.2	464.4	445.4	415.6	384.7	356.7	309.1	150.3	7.5	7.5
42.5°	490.9	485.9	473.2	455.1	425.8	393.0	359.2	303.6	137.8	6.0	7.3
45°	505.5	500.2	483.4	464.1	434.6	396.5	349.4	284.0	119.0	4.5	6.8
47.5°	514.2	510.7	498.2	478.9	443.1	391.5	326.9	265.8	98.2	3.5	6.5
50°	487.7	484.2	474.9	461.6	437.6	374.7	307.1	236.2	74.6	2.8	6.3
52.5°	419.8	422.8	424.6	428.3	410.8	337.2	277.5	212.7	50.3	2.3	5.8
55°	284.3	288.8	293.8	308.8	329.4	300.1	246.5	183.9	26.8	2.3	5.5
57.5°	223.4	221.9	220.4	219.4	235.5	247.5	216.7	147.0	11.5	2.3	5.0
60°	204.4	199.9	196.9	197.6	205.6	200.9	171.6	95.9	4.0	2.3	4.8
62.5°	134.0	137.5	144.3	155.8	150.3	129.0	99.7	38.1	2.0	2.3	4.3
65°	52.1	50.3	52.1	55.4	47.8	35.6	22.3	6.8	1.8	2.0	3.8
67.5°	7.0	6.3	4.8	3.0	2.8	2.5	2.0	1.8	1.8	2.0	3.5
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.8	3.0
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.5
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	2.3
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.0	1.3
85°	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8	0.8
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):

	112.5°	135°	157.5°	180°
0°	23.0	23.0	23.0	23.0
2.5°	22.8	22.3	22.3	22.3
5°	22.3	21.8	21.8	21.5
7.5°	21.5	21.3	21.3	21.3
10°	21.0	20.8	21.0	21.0
12.5°	20.0	20.3	20.5	20.5
15°	19.0	19.5	20.0	20.3
17.5°	18.0	19.0	19.5	19.8
20°	17.0	18.3	19.0	19.3
22.5°	16.3	17.5	18.5	19.0
25°	15.3	17.0	18.3	18.8
27.5°	14.3	16.3	17.8	18.5
30°	13.5	16.0	17.8	18.5
32.5°	12.8	15.5	17.5	18.3
35°	12.3	15.3	17.5	18.5
37.5°	11.8	15.0	17.5	18.3
40°	11.5	14.8	17.5	18.3
42.5°	11.3	14.8	17.5	18.5
45°	10.8	14.5	17.5	18.5
47.5°	10.5	14.5	17.5	18.5
50°	10.3	14.3	17.5	18.8
52.5°	10.0	14.0	17.5	18.8
55°	9.5	13.8	17.3	18.5
57.5°	9.3	13.5	17.0	18.0
60°	8.8	13.0	16.5	17.8
62.5°	8.3	12.5	16.0	17.0
65°	7.5	11.8	15.3	16.5
67.5°	6.8	10.8	14.5	15.8
70°	6.0	9.8	13.5	14.5
72.5°	5.3	8.8	12.5	13.3
75°	4.5	7.5	11.0	12.0
77.5°	3.8	6.5	9.3	10.0
80°	2.8	5.0	7.5	8.3
82.5°	2.3	3.8	5.5	6.0
85°	1.5	2.5	3.5	4.0
87.5°	0.8	1.3	1.8	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)