

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: P1307566

Luminaire Tested: P3SQAS02R509030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307566
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: P3SQAS02R509030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

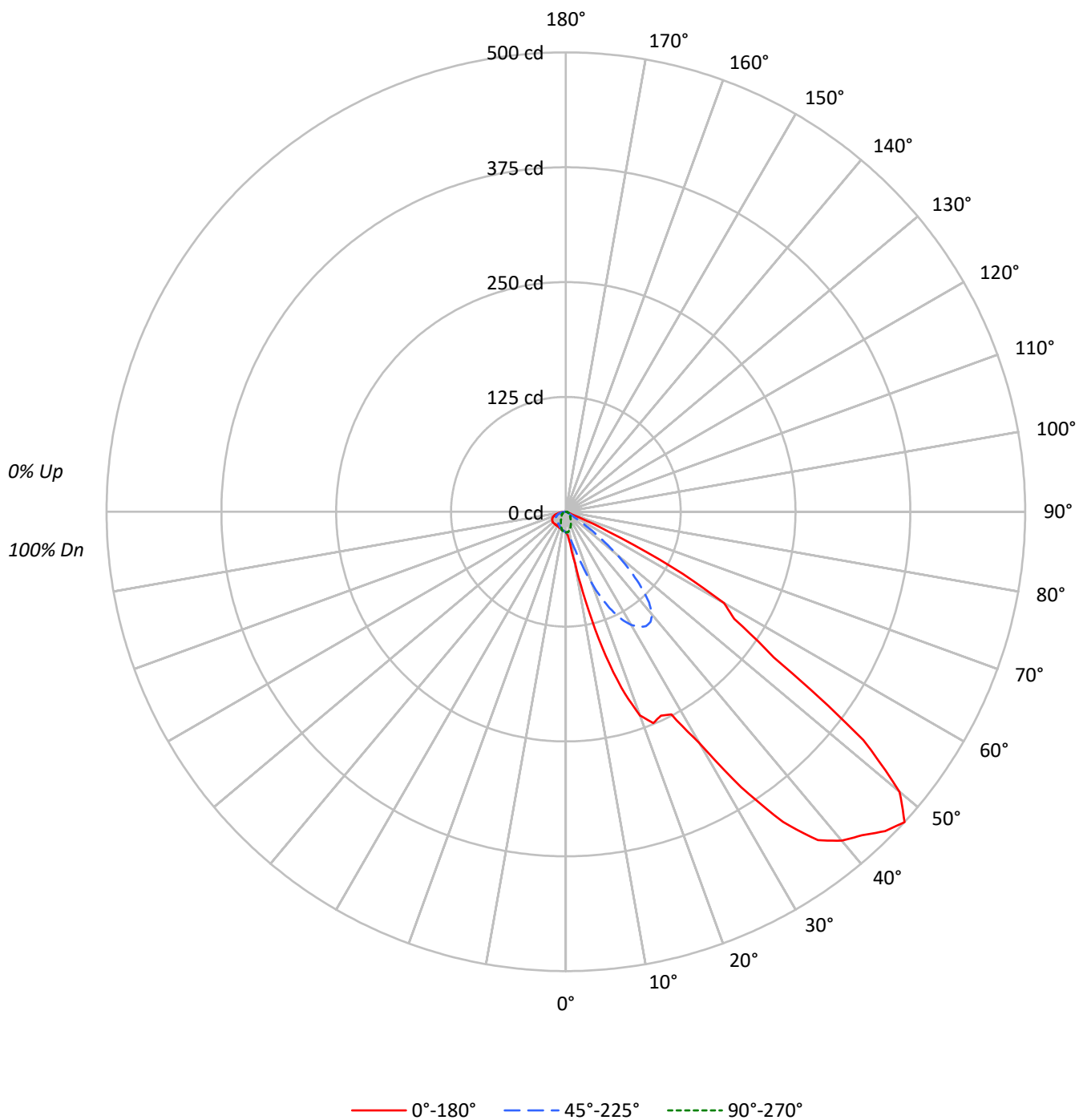
Lumens per Lamp: N/A
Luminaire Lumens: 282.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3858	3858	3858	3858	3858
5°	4581	4287	3838	3665	3613
10°	9881	5316	3655	3533	3585
15°	27369	8737	3299	3388	3512
20°	43253	15304	2859	3262	3446
25°	46519	22499	2451	3154	3477
30°	57731	28239	2128	3102	3580
35°	86642	31957	1850	3133	3784
40°	105081	32846	1641	3237	4002
45°	119710	28180	1607	3434	4384
50°	127053	19452	1634	3724	4903
55°	83022	7837	1621	4023	5405
60°	68476	1343	1584	4374	5959
65°	20661	693	1508	4646	6561
70°	856	755	1460	4784	7100
75°	799	799	1464	4858	7785
80°	694	694	1488	4860	7934
85°	395	988	1976	4742	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 127486 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.8
10°-20°	13.4	4.7
20°-30°	34.3	12.2
30°-40°	61.7	21.9
40°-50°	82.4	29.2
50°-60°	62.7	22.2
60°-70°	19.0	6.7
70°-80°	4.6	1.6
80°-90°	1.6	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°	50.0	17.7
0°-40°	111.7	39.6
0°-60°	256.8	91.1
0°-90°	282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	26	25	22	21	21	3
15°	154	49	18	19	20	45
25°	245	118	13	17	18	117
35°	412	152	9	15	18	253
45°	492	116	7	14	18	376
55°	276	26	5	13	18	275
65°	51	2	4	11	16	70
75°	1	1	2	7	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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	23.9	23.9	23.9	23.9	23.9	23.9	23.6	23.6	23.6	23.1	22.7
5°	26.5	26.8	26.5	26.5	26.1	26.1	25.6	25.6	24.8	23.4	22.2
7.5°	34.8	34.6	34.3	33.4	32.6	30.9	30.2	29.0	26.8	23.4	21.7
10°	56.5	55.0	54.1	51.9	47.3	44.3	40.4	36.5	30.4	23.4	20.9
12.5°	98.2	97.9	95.0	87.7	81.1	72.1	62.6	53.1	37.5	22.9	20.0
15°	153.5	151.3	147.1	138.6	126.9	112.8	95.7	78.9	49.0	22.2	18.5
17.5°	200.7	198.0	194.9	186.3	172.9	155.2	134.7	111.6	64.5	21.2	17.1
20°	236.0	234.3	231.6	224.8	212.2	196.1	173.2	145.2	83.5	20.0	15.6
22.5°	248.9	248.7	249.2	246.7	240.4	227.7	205.8	176.6	102.3	18.5	14.1
25°	244.8	244.5	247.7	250.9	252.3	247.2	230.4	201.9	118.4	17.3	12.9
27.5°	248.7	248.0	246.5	247.0	251.1	254.0	246.3	221.4	132.3	15.6	11.7
30°	290.3	286.2	279.6	268.4	260.1	259.4	256.0	236.8	142.0	13.9	10.7
32.5°	355.4	350.3	338.3	317.6	297.9	282.8	272.1	249.7	148.8	12.2	9.5
35°	412.1	408.5	394.6	374.1	345.9	317.6	298.1	268.7	152.0	10.7	8.8
37.5°	450.6	449.2	435.5	413.6	384.8	351.5	325.7	288.1	151.3	9.0	8.0
40°	467.4	463.0	451.6	433.1	404.1	374.1	346.9	300.6	146.1	7.3	7.3
42.5°	477.4	472.5	460.1	442.6	414.1	382.2	349.3	295.2	134.0	5.8	7.1
45°	491.5	486.4	470.1	451.3	422.6	385.6	339.8	276.2	115.7	4.4	6.6
47.5°	500.1	496.6	484.5	465.7	430.9	380.7	317.9	258.4	95.5	3.4	6.3
50°	474.2	470.8	461.8	448.9	425.5	364.4	298.6	229.7	72.6	2.7	6.1
52.5°	408.2	411.2	412.9	416.5	399.5	327.9	269.9	206.8	49.0	2.2	5.6
55°	276.5	280.8	285.7	300.3	320.3	291.8	239.7	178.8	26.1	2.2	5.4
57.5°	217.3	215.8	214.3	213.4	229.0	240.7	210.7	143.0	11.2	2.2	4.9
60°	198.8	194.4	191.4	192.2	200.0	195.3	166.8	93.3	3.9	2.2	4.6
62.5°	130.3	133.7	140.3	151.5	146.1	125.4	96.9	37.0	1.9	2.2	4.1
65°	50.7	49.0	50.7	53.8	46.5	34.6	21.7	6.6	1.7	1.9	3.7
67.5°	6.8	6.1	4.6	2.9	2.7	2.4	1.9	1.7	1.7	1.9	3.4
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.7	2.9
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	2.4
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	2.2
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	1.0	1.2
85°	0.2	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.7
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°	22.4	22.4	22.4	22.4
2.5°	22.2	21.7	21.7	21.7
5°	21.7	21.2	21.2	20.9
7.5°	20.9	20.7	20.7	20.7
10°	20.5	20.2	20.5	20.5
12.5°	19.5	19.7	20.0	20.0
15°	18.5	19.0	19.5	19.7
17.5°	17.5	18.5	19.0	19.2
20°	16.6	17.8	18.5	18.8
22.5°	15.8	17.1	18.0	18.5
25°	14.9	16.6	17.8	18.3
27.5°	13.9	15.8	17.3	18.0
30°	13.2	15.6	17.3	18.0
32.5°	12.4	15.1	17.1	17.8
35°	11.9	14.9	17.1	18.0
37.5°	11.4	14.6	17.1	17.8
40°	11.2	14.4	17.1	17.8
42.5°	11.0	14.4	17.1	18.0
45°	10.5	14.1	17.1	18.0
47.5°	10.2	14.1	17.1	18.0
50°	10.0	13.9	17.1	18.3
52.5°	9.7	13.6	17.1	18.3
55°	9.3	13.4	16.8	18.0
57.5°	9.0	13.2	16.6	17.5
60°	8.5	12.7	16.1	17.3
62.5°	8.0	12.2	15.6	16.6
65°	7.3	11.4	14.9	16.1
67.5°	6.6	10.5	14.1	15.3
70°	5.8	9.5	13.2	14.1
72.5°	5.1	8.5	12.2	12.9
75°	4.4	7.3	10.7	11.7
77.5°	3.7	6.3	9.0	9.7
80°	2.7	4.9	7.3	8.0
82.5°	2.2	3.7	5.4	5.8
85°	1.5	2.4	3.4	3.9
87.5°	0.7	1.2	1.7	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)