

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: P1312022

Luminaire Tested: P3SQAS02R659727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R659727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

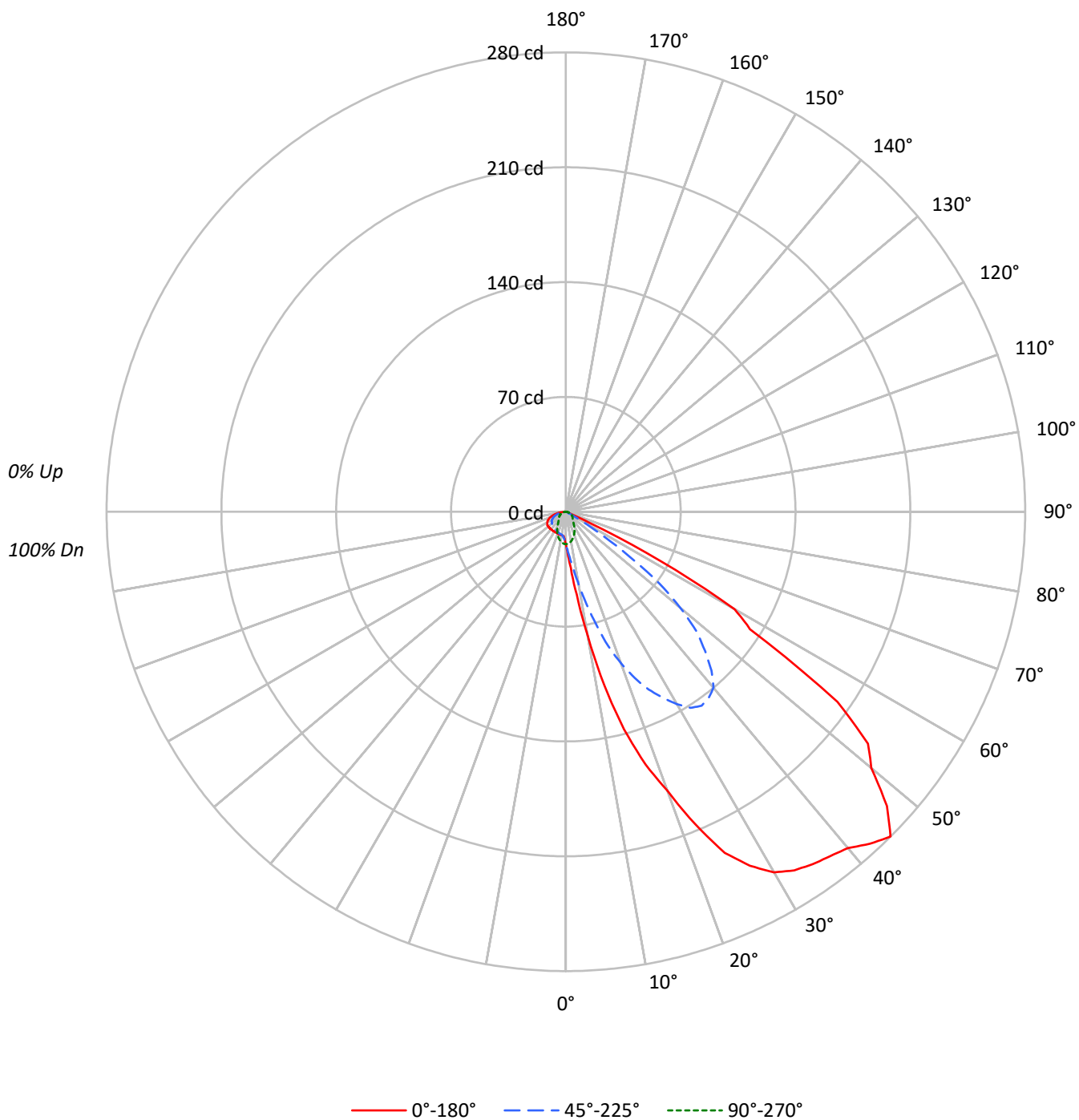
Lumens per Lamp: N/A
Luminaire Lumens: 202.9 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1312022

CATALOG NUMBER: P3SQAS02R659727DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312022

CATALOG NUMBER: P3SQAS02R659727DE010 E3SQCA451MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3393	3393	3393	3393	3393
5°	5947	4858	3337	2714	2610
10°	13448	7835	3200	2483	2536
15°	24462	12588	2978	2496	2585
20°	33155	17979	2694	2493	2603
25°	43592	22708	2356	2432	2660
30°	50472	26926	2028	2426	2784
35°	55126	30338	1703	2481	2943
40°	60140	31475	1506	2608	3147
45°	68172	29203	1437	2777	3410
50°	65107	24382	1420	2947	3751
55°	60683	13692	1471	3183	4144
60°	40886	2928	1481	3376	4478
65°	6316	734	1426	3464	4890
70°	705	705	1309	3575	5237
75°	665	665	1198	3527	5257
80°	595	793	1190	3273	5256
85°	395	790	1186	3162	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68172 cd/sqm

TEST NUMBER: P1312022

CATALOG NUMBER: P3SQAS02R659727DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	1.2
10°-20°	12.9	6.4
20°-30°	30.3	14.9
30°-40°	45.8	22.6
40°-50°	52.7	25.9
50°-60°	41.8	20.6
60°-70°	12.5	6.2
70°-80°	3.4	1.7
80°-90°	1.1	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°	45.6	22.5
0°-40°	91.4	45.1
0°-60°	185.9	91.6
0°-90°	202.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	202.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	34	28	19	16	15	5
15°	137	71	17	14	14	39
25°	229	120	12	13	14	105
35°	262	144	8	12	14	165
45°	280	120	6	11	14	208
55°	202	46	5	11	14	167
65°	16	2	4	8	12	35
75°	1	1	2	5	8	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1312022

CATALOG NUMBER: P3SQAS02R659727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	25.0	25.2	25.0	25.0	24.8	24.6	23.2	21.6	19.7	18.3	17.3
5°	34.4	34.6	34.0	34.0	33.6	33.0	28.1	23.4	19.3	17.1	15.7
7.5°	50.9	51.7	50.7	49.5	47.2	46.8	35.0	25.2	18.9	15.9	14.7
10°	76.9	76.3	75.3	72.9	69.0	67.2	44.8	27.1	18.3	15.1	14.2
12.5°	108.5	106.9	105.6	101.2	95.9	92.8	57.0	28.7	17.5	14.2	14.0
15°	137.2	136.0	133.1	128.8	122.3	119.9	70.6	29.7	16.7	13.6	14.0
17.5°	161.4	160.2	158.6	154.3	147.6	143.9	85.9	30.3	15.7	13.2	13.8
20°	180.9	180.1	177.9	174.4	167.7	164.3	98.1	30.3	14.7	12.8	13.6
22.5°	206.2	204.4	201.5	196.4	188.1	182.8	109.7	29.7	13.6	12.4	13.2
25°	229.4	228.2	224.5	218.4	209.4	204.2	119.5	28.5	12.4	11.8	12.8
27.5°	243.2	242.4	239.0	232.6	222.7	218.6	127.6	26.7	11.2	11.2	12.6
30°	253.8	252.2	248.7	242.6	232.4	227.6	135.4	24.4	10.2	10.6	12.2
32.5°	259.1	258.5	255.4	250.2	240.2	234.7	141.7	21.6	9.0	10.2	12.0
35°	262.2	261.6	259.1	254.0	244.7	239.4	144.3	18.9	8.1	9.8	11.8
37.5°	264.6	264.0	260.9	255.9	246.5	241.0	143.1	16.1	7.3	9.4	11.6
40°	267.5	265.2	260.5	255.4	246.9	241.6	140.0	13.4	6.7	9.2	11.6
42.5°	274.4	266.6	259.3	254.6	246.5	240.4	131.3	10.6	6.1	8.8	11.4
45°	279.9	266.2	256.9	253.2	244.9	237.9	119.9	7.7	5.9	8.5	11.4
47.5°	265.4	257.1	252.8	250.8	241.8	234.3	108.1	5.3	5.7	8.3	11.2
50°	243.0	242.0	240.4	240.6	232.4	226.3	91.0	3.7	5.3	8.1	11.0
52.5°	232.2	231.0	228.2	226.1	218.0	212.7	72.1	2.8	5.1	7.9	10.8
55°	202.1	202.9	199.9	201.1	198.7	196.0	45.6	2.6	4.9	7.5	10.6
57.5°	133.1	137.2	144.3	152.9	160.6	165.9	24.6	2.6	4.5	7.3	10.2
60°	118.7	117.6	117.4	119.1	122.5	125.4	8.5	2.4	4.3	6.7	9.8
62.5°	64.9	64.5	70.6	81.0	87.1	87.7	2.4	2.4	3.9	6.3	9.2
65°	15.5	16.1	17.9	22.4	26.5	29.1	1.8	2.2	3.5	5.9	8.5
67.5°	2.4	2.6	2.6	3.3	3.7	3.7	1.6	2.0	3.1	5.3	7.9
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.6	4.7	7.1
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.6	2.2	4.1	6.1
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.8	3.3	5.3
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.2	1.6	2.6	4.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.0	1.2	2.0	3.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8	1.0	1.6	2.4
85°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.6	1.0	1.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	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

TEST NUMBER: P1312022

CATALOG NUMBER: P3SQAS02R659727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	19.7	19.7
2.5°	16.7	16.5
5°	15.1	15.1
7.5°	14.5	14.5
10°	14.2	14.5
12.5°	14.2	14.5
15°	14.2	14.5
17.5°	14.2	14.5
20°	14.0	14.2
22.5°	13.8	14.0
25°	13.6	14.0
27.5°	13.4	14.0
30°	13.4	14.0
32.5°	13.4	14.0
35°	13.2	14.0
37.5°	13.2	14.0
40°	13.2	14.0
42.5°	13.2	14.0
45°	13.2	14.0
47.5°	13.2	14.0
50°	13.2	14.0
52.5°	13.0	14.0
55°	13.0	13.8
57.5°	12.6	13.4
60°	12.2	13.0
62.5°	11.8	12.6
65°	11.2	12.0
67.5°	10.6	11.2
70°	9.6	10.4
72.5°	8.5	9.2
75°	7.3	7.9
77.5°	6.1	6.7
80°	4.9	5.3
82.5°	3.5	3.9
85°	2.2	2.4
87.5°	1.0	1.0
90°	0.0	0.0

(END OF REPORT)