

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: P1312015

Luminaire Tested: P3SQAS02R609727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R609727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

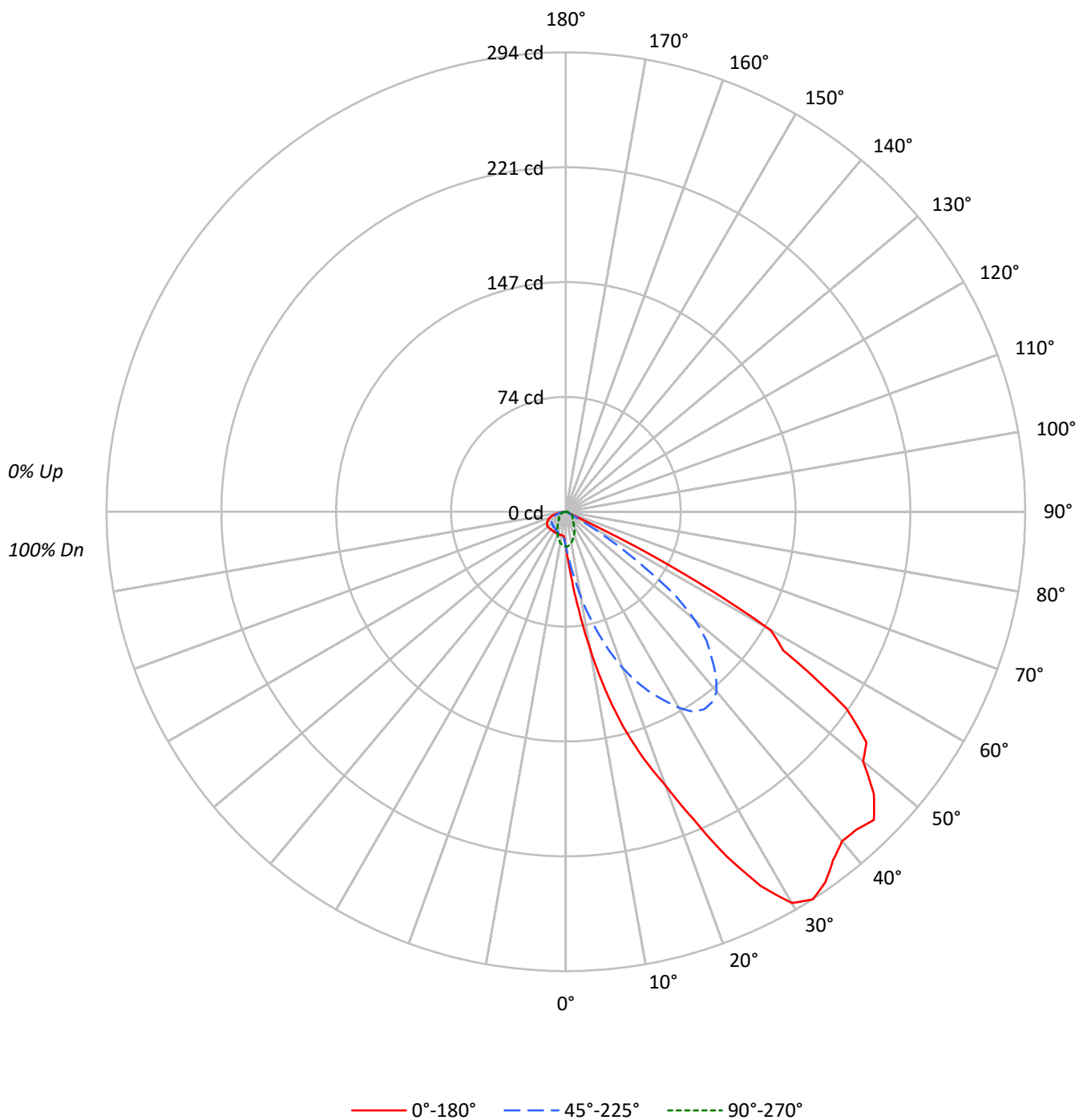
Lumens per Lamp: N/A
Luminaire Lumens: 224.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312015

CATALOG NUMBER: P3SQAS02R609727DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312015

CATALOG NUMBER: P3SQAS02R609727DE010 E3SQCA451MW

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3823	3823	3823	3823	3823
5°	7538	5878	3769	2853	2714
10°	15564	9583	3533	2606	2641
15°	25443	14371	3156	2621	2692
20°	34144	19482	2841	2621	2731
25°	46195	24190	2470	2584	2831
30°	57492	28796	2068	2585	2963
35°	60866	32441	1745	2649	3091
40°	61848	33746	1596	2743	3350
45°	67904	32126	1534	2923	3629
50°	66554	28803	1527	3108	3992
55°	65787	17655	1531	3363	4414
60°	52183	4202	1619	3582	4753
65°	3301	734	1589	3668	5135
70°	705	806	1561	3777	5438
75°	665	799	1331	3660	5523
80°	595	793	1389	3670	5256
85°	395	790	1581	3162	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 71660 cd/sqm

TEST NUMBER: P1312015

CATALOG NUMBER: P3SQAS02R609727DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	1.2
10°-20°	14.0	6.2
20°-30°	32.4	14.5
30°-40°	50.4	22.5
40°-50°	57.4	25.6
50°-60°	48.3	21.6
60°-70°	14.0	6.3
70°-80°	3.6	1.6
80°-90°	1.2	0.5
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°	49.1	21.9
0°-40°	99.5	44.4
0°-60°	205.2	91.6
0°-90°	224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	44	34	22	16	16	6
15°	143	81	18	15	15	41
25°	243	127	13	14	15	113
35°	290	154	8	13	15	180
45°	279	132	6	12	15	210
55°	219	59	5	11	15	184
65°	8	2	4	9	13	40
75°	1	1	2	6	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1312015

CATALOG NUMBER: P3SQAS02R609727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
2.5°	29.9	29.7	29.7	29.5	29.3	29.1	28.5	28.3	27.1	24.6	22.2
5°	43.6	43.4	42.8	42.6	41.5	40.1	38.7	37.3	34.0	27.1	21.8
7.5°	63.1	63.5	63.1	60.9	59.5	57.2	52.9	49.9	43.4	29.5	21.0
10°	89.0	89.0	88.4	84.9	81.9	77.6	72.1	66.8	54.8	31.8	20.2
12.5°	117.1	117.7	114.6	111.8	106.3	101.0	93.5	85.5	67.8	33.6	19.1
15°	142.7	142.3	139.3	135.6	129.9	122.6	114.6	104.5	80.6	34.8	17.7
17.5°	165.5	164.7	162.1	158.0	151.1	142.9	132.8	121.8	93.9	35.8	16.7
20°	186.3	183.5	180.4	176.1	169.4	160.9	150.3	137.9	106.3	35.8	15.5
22.5°	212.6	209.7	205.5	198.9	190.0	179.4	167.0	152.9	117.3	35.0	14.3
25°	243.1	240.9	233.6	225.2	213.6	201.0	186.5	167.6	127.3	33.8	13.0
27.5°	269.8	267.4	260.0	247.8	233.8	218.7	203.4	184.1	136.0	31.6	11.6
30°	289.1	286.1	280.4	268.8	251.7	233.3	215.2	196.7	144.8	28.9	10.4
32.5°	294.2	293.8	289.5	281.0	265.7	245.6	224.0	203.8	151.7	25.5	9.4
35°	289.5	290.2	289.3	285.1	273.9	254.1	229.7	207.7	154.3	22.0	8.3
37.5°	281.0	281.8	283.2	283.8	276.7	259.2	232.9	209.3	153.7	18.5	7.7
40°	275.1	274.7	274.7	278.8	277.3	261.4	233.3	208.1	150.1	14.9	7.1
42.5°	275.7	271.2	268.2	274.7	276.7	260.4	230.7	204.8	142.1	11.4	6.5
45°	278.8	269.2	263.9	272.2	275.5	257.0	225.8	200.0	131.9	7.9	6.3
47.5°	267.4	261.0	260.2	272.0	273.3	251.1	218.3	192.2	122.2	5.5	5.9
50°	248.4	247.4	251.7	263.9	264.1	241.3	209.7	178.2	107.5	3.9	5.7
52.5°	242.5	243.1	247.0	253.3	247.4	224.8	194.3	166.4	89.0	3.1	5.5
55°	219.1	220.1	223.8	227.6	223.4	204.6	175.5	152.1	58.8	2.9	5.1
57.5°	164.9	167.6	174.3	177.8	178.2	166.8	159.0	131.1	33.2	2.9	4.9
60°	151.5	148.0	145.0	137.9	131.3	129.9	130.7	98.3	12.2	2.6	4.7
62.5°	79.2	77.6	82.3	85.3	86.1	90.6	84.7	51.9	2.6	2.6	4.3
65°	8.1	8.1	10.0	13.2	22.0	29.3	27.9	15.1	1.8	2.4	3.9
67.5°	2.4	2.4	2.4	2.9	3.7	3.7	3.1	2.2	1.8	2.2	3.5
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.4	1.6	2.0	3.1
72.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.8	2.6
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.4	2.0
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.2	1.6
80°	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	1.0	1.4
82.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.8	1.0
85°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6
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: P1312015

CATALOG NUMBER: P3SQAS02R609727DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	22.2	22.2	22.2	22.2
2.5°	20.2	18.7	17.9	17.5
5°	18.3	16.5	15.9	15.7
7.5°	16.7	15.5	15.3	15.3
10°	15.7	14.9	15.1	15.1
12.5°	15.1	14.9	15.1	15.3
15°	14.5	14.7	15.1	15.1
17.5°	14.0	14.5	14.9	15.1
20°	13.4	14.3	14.9	14.9
22.5°	13.0	14.0	14.7	14.9
25°	12.6	13.6	14.5	14.9
27.5°	12.0	13.4	14.5	14.7
30°	11.4	13.0	14.3	14.9
32.5°	10.8	12.8	14.3	14.7
35°	10.4	12.6	14.3	14.7
37.5°	10.0	12.4	14.3	14.9
40°	9.8	12.2	14.0	14.9
42.5°	9.4	12.2	14.0	14.9
45°	9.2	12.0	14.0	14.9
47.5°	9.0	11.8	14.0	14.9
50°	8.6	11.6	13.8	14.9
52.5°	8.3	11.4	13.8	14.9
55°	7.9	11.2	13.6	14.7
57.5°	7.7	10.8	13.4	14.3
60°	7.3	10.4	13.0	13.8
62.5°	6.7	9.8	12.4	13.4
65°	6.1	9.0	11.8	12.6
67.5°	5.5	8.3	11.0	11.8
70°	4.9	7.5	10.0	10.8
72.5°	4.3	6.5	9.0	9.6
75°	3.7	5.5	7.5	8.3
77.5°	2.9	4.5	6.3	6.9
80°	2.2	3.7	4.9	5.3
82.5°	1.8	2.6	3.7	3.9
85°	1.2	1.6	2.2	2.6
87.5°	0.6	0.8	1.0	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)