

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: P1312987

Luminaire Tested: P3SQAS02R609730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312987
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: P3SQAS02R609730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

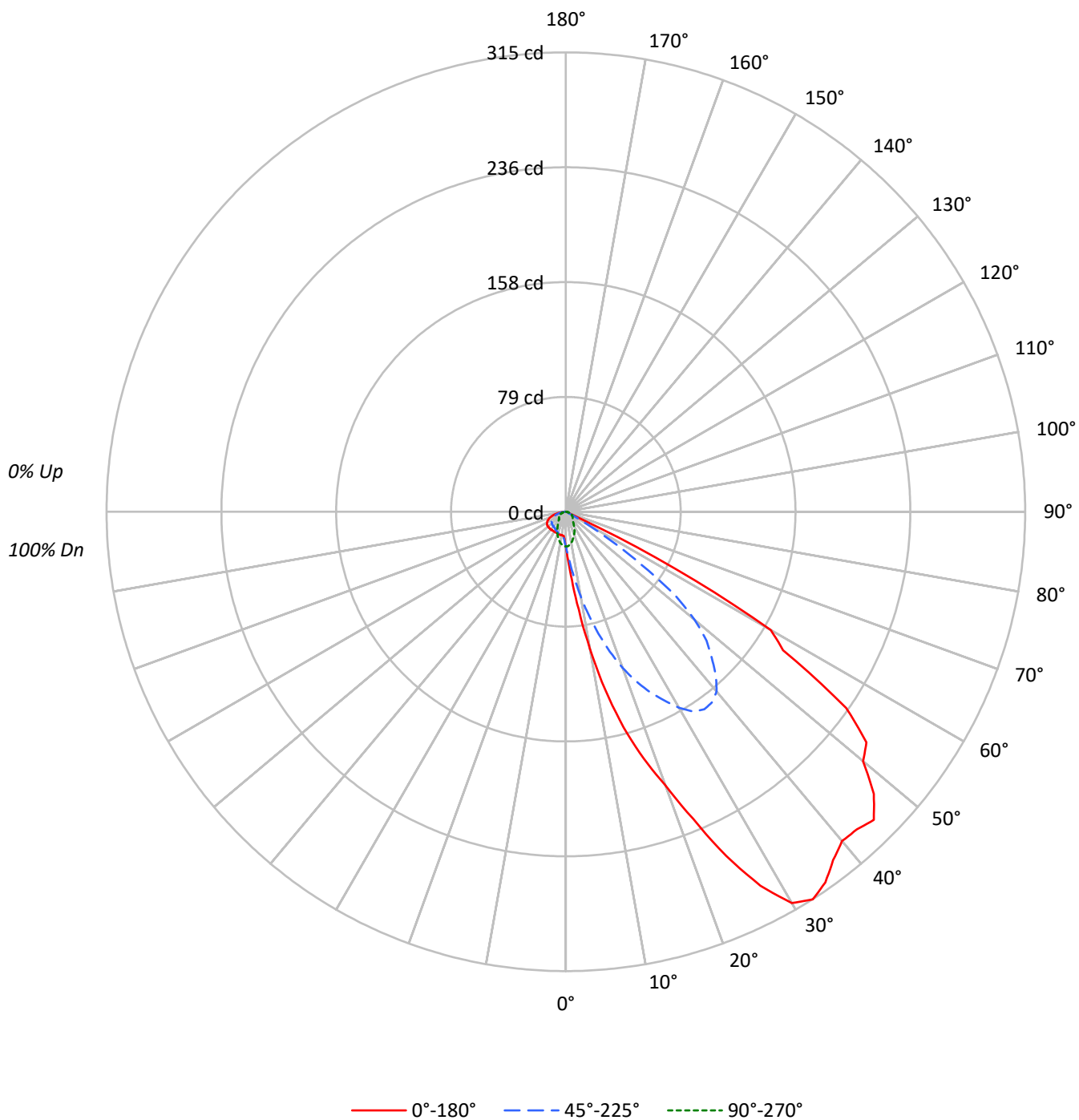
Lumens per Lamp: N/A
Luminaire Lumens: 240.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312987

CATALOG NUMBER: P3SQAS02R609730DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312987

CATALOG NUMBER: P3SQAS02R609730DE010 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	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	93	91	92	90	89	87		
2	101	93	87	82	98	91	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°	4099	4099	4099	4099	4099
5°	8074	6293	4028	3060	2904
10°	16666	10265	3777	2781	2816
15°	27262	15405	3388	2799	2871
20°	36582	20875	3042	2804	2914
25°	49502	25920	2660	2774	3021
30°	61609	30844	2207	2784	3162
35°	65218	34775	1871	2838	3301
40°	66255	36151	1709	2945	3575
45°	72751	34439	1656	3142	3873
50°	71323	30866	1634	3322	4260
55°	70471	18916	1651	3603	4714
60°	55903	4512	1722	3823	5098
65°	3545	815	1671	3912	5501
70°	755	856	1662	4079	5841
75°	732	865	1464	3926	5922
80°	694	893	1488	3868	5653
85°	395	790	1778	3359	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 76781 cd/sqm

TEST NUMBER: P1312987

CATALOG NUMBER: P3SQAS02R609730DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	1.2
10°-20°	15.0	6.2
20°-30°	34.7	14.5
30°-40°	53.9	22.5
40°-50°	61.5	25.6
50°-60°	51.8	21.6
60°-70°	15.0	6.3
70°-80°	3.9	1.6
80°-90°	1.3	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°	52.6	21.9
0°-40°	106.6	44.4
0°-60°	219.8	91.6
0°-90°	240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	240.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	47	36	23	18	17	6
15°	153	86	19	16	16	44
25°	260	136	14	15	16	121
35°	310	165	9	14	16	193
45°	299	141	7	13	16	225
55°	235	63	6	12	16	197
65°	9	2	4	10	14	43
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1312987

CATALOG NUMBER: P3SQAS02R609730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	32.1	31.9	31.9	31.6	31.4	31.2	30.5	30.3	29.0	26.4	23.8
5°	46.7	46.5	45.8	45.6	44.5	43.0	41.5	39.9	36.4	29.0	23.3
7.5°	67.6	68.1	67.6	65.2	63.7	61.3	56.7	53.4	46.5	31.6	22.5
10°	95.3	95.3	94.7	91.0	87.7	83.1	77.2	71.6	58.7	34.0	21.6
12.5°	125.4	126.1	122.8	119.8	113.9	108.2	100.1	91.6	72.6	36.0	20.5
15°	152.9	152.5	149.2	145.3	139.2	131.3	122.8	111.9	86.4	37.3	19.0
17.5°	177.4	176.5	173.7	169.3	161.9	153.2	142.2	130.5	100.6	38.4	17.9
20°	199.6	196.6	193.3	188.7	181.5	172.3	161.0	147.7	113.9	38.4	16.6
22.5°	227.8	224.7	220.1	213.1	203.5	192.2	178.9	163.8	125.7	37.5	15.3
25°	260.5	258.1	250.2	241.3	228.9	215.3	199.8	179.5	136.4	36.2	14.0
27.5°	289.1	286.4	278.6	265.5	250.5	234.3	217.9	197.2	145.7	33.8	12.4
30°	309.8	306.5	300.4	288.0	269.6	250.0	230.6	210.7	155.1	31.0	11.1
32.5°	315.2	314.8	310.2	301.1	284.7	263.1	240.0	218.4	162.5	27.3	10.0
35°	310.2	310.9	310.0	305.4	293.4	272.3	246.1	222.5	165.4	23.6	8.9
37.5°	301.1	301.9	303.5	304.1	296.5	277.7	249.6	224.3	164.7	19.9	8.3
40°	294.7	294.3	294.3	298.7	297.1	280.1	250.0	223.0	160.8	15.9	7.6
42.5°	295.4	290.6	287.3	294.3	296.5	279.0	247.2	219.5	152.3	12.2	7.0
45°	298.7	288.4	282.7	291.7	295.2	275.3	241.9	214.2	141.4	8.5	6.8
47.5°	286.4	279.7	278.8	291.5	292.8	269.0	233.9	205.9	130.9	5.9	6.3
50°	266.2	265.1	269.6	282.7	283.0	258.5	224.7	190.9	115.2	4.1	6.1
52.5°	259.8	260.5	264.6	271.4	265.1	240.9	208.1	178.2	95.3	3.3	5.9
55°	234.7	235.8	239.8	243.9	239.3	219.3	188.1	163.0	63.0	3.1	5.5
57.5°	176.7	179.5	186.7	190.5	190.9	178.7	170.4	140.5	35.6	3.1	5.2
60°	162.3	158.6	155.3	147.7	140.7	139.2	140.1	105.4	13.1	2.8	5.0
62.5°	84.9	83.1	88.1	91.4	92.3	97.1	90.8	55.6	2.8	2.8	4.6
65°	8.7	8.7	10.7	14.2	23.6	31.4	29.9	16.1	2.0	2.6	4.1
67.5°	2.6	2.6	2.6	3.1	3.9	3.9	3.3	2.4	2.0	2.4	3.7
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.5	1.7	2.2	3.3
72.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	2.0	2.8
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.5	2.2
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.3	1.7
80°	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	1.1	1.5
82.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.9	1.1
85°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	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

TEST NUMBER: P1312987

CATALOG NUMBER: P3SQAS02R609730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	23.8	23.8	23.8	23.8
2.5°	21.6	20.1	19.2	18.8
5°	19.6	17.7	17.0	16.8
7.5°	17.9	16.6	16.4	16.4
10°	16.8	15.9	16.1	16.1
12.5°	16.1	15.9	16.1	16.4
15°	15.5	15.7	16.1	16.1
17.5°	15.1	15.5	15.9	16.1
20°	14.4	15.3	15.9	15.9
22.5°	14.0	15.1	15.7	15.9
25°	13.5	14.6	15.5	15.9
27.5°	12.9	14.4	15.5	15.7
30°	12.2	14.0	15.3	15.9
32.5°	11.6	13.7	15.3	15.7
35°	11.1	13.5	15.3	15.7
37.5°	10.7	13.3	15.3	15.9
40°	10.5	13.1	15.1	15.9
42.5°	10.0	13.1	15.1	15.9
45°	9.8	12.9	15.1	15.9
47.5°	9.6	12.7	15.1	15.9
50°	9.2	12.4	14.8	15.9
52.5°	8.9	12.2	14.8	15.9
55°	8.5	12.0	14.6	15.7
57.5°	8.3	11.6	14.4	15.3
60°	7.9	11.1	14.0	14.8
62.5°	7.2	10.5	13.3	14.4
65°	6.5	9.6	12.7	13.5
67.5°	5.9	8.9	11.8	12.7
70°	5.2	8.1	10.7	11.6
72.5°	4.6	7.0	9.6	10.3
75°	3.9	5.9	8.1	8.9
77.5°	3.1	4.8	6.8	7.4
80°	2.4	3.9	5.2	5.7
82.5°	2.0	2.8	3.9	4.1
85°	1.3	1.7	2.4	2.8
87.5°	0.7	0.9	1.1	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)