

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: P1308702

Luminaire Tested: P3SQAS02R609035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308702
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: P3SQAS02R609035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

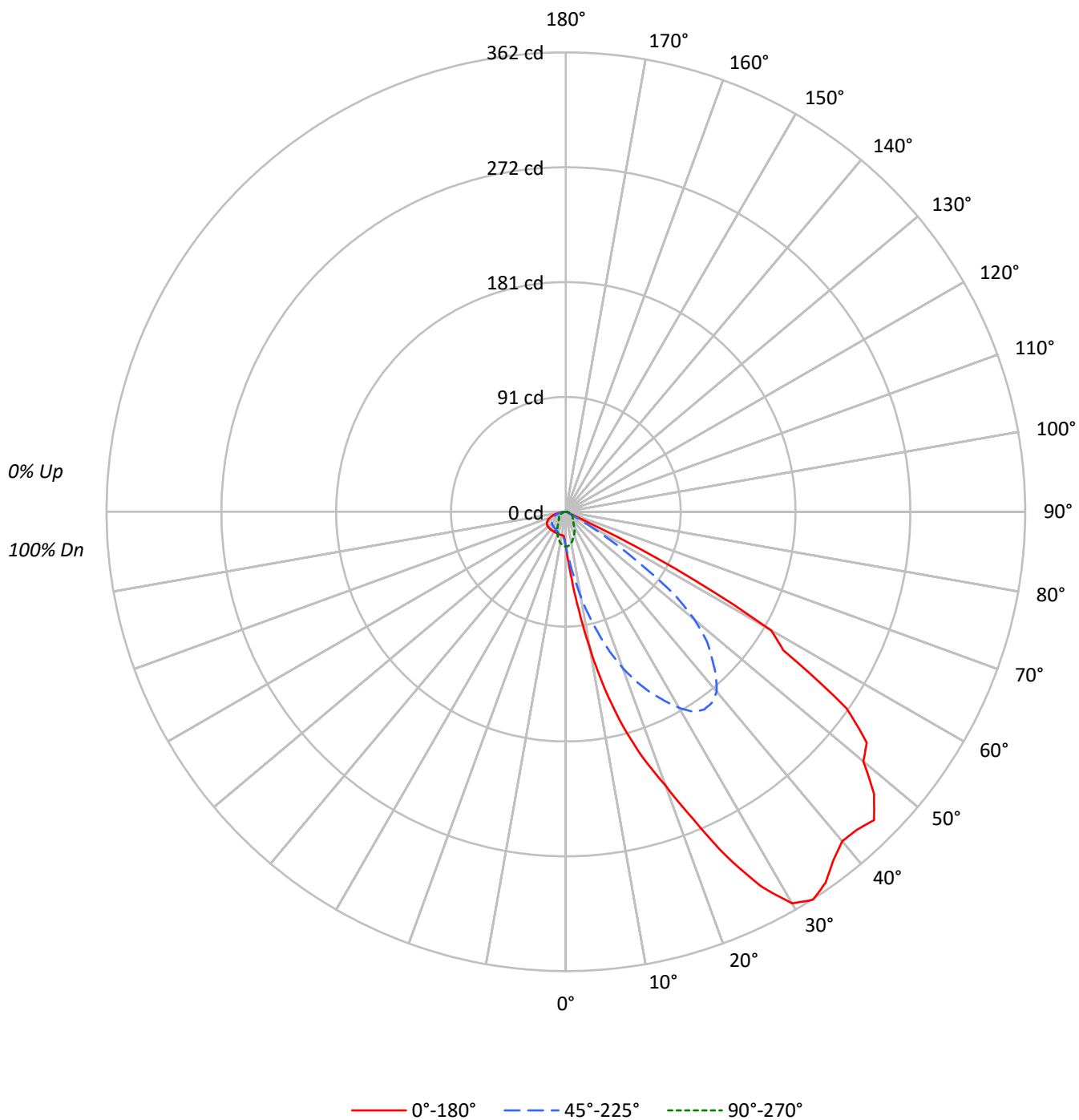
Lumens per Lamp: N/A
Luminaire Lumens: 276.1 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	4702	4702	4702	4702	4702
5°	9284	7244	4633	3509	3337
10°	19167	11804	4337	3200	3253
15°	31363	17723	3887	3227	3316
20°	42080	24009	3501	3226	3354
25°	56932	29796	3059	3192	3477
30°	70856	35478	2545	3202	3639
35°	75015	39989	2166	3280	3805
40°	76192	41569	1978	3395	4114
45°	83663	39603	1900	3605	4457
50°	82014	35501	1876	3831	4903
55°	81070	21769	1892	4144	5435
60°	64308	5201	1998	4409	5890
65°	4075	937	1956	4483	6357
70°	906	1007	1913	4683	6697
75°	865	998	1664	4525	6854
80°	793	992	1785	4463	6447
85°	593	988	1976	3952	6521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 88295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	1.2
10°-20°	17.2	6.2
20°-30°	39.9	14.5
30°-40°	62.0	22.5
40°-50°	70.7	25.6
50°-60°	59.5	21.6
60°-70°	17.3	6.3
70°-80°	4.4	1.6
80°-90°	1.5	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°	60.5	21.9
0°-40°	122.6	44.4
0°-60°	252.8	91.6
0°-90°	276.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	276.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	54	42	27	20	19	7
15°	176	99	22	18	19	51
25°	300	157	16	17	18	139
35°	357	190	10	16	18	222
45°	344	163	8	15	18	258
55°	270	72	6	14	18	227
65°	10	2	5	11	16	50
75°	1	2	2	7	10	1
85°	0	0	1	2	3	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°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	36.9	36.6	36.6	36.4	36.1	35.9	35.1	34.9	33.4	30.4	27.3
5°	53.7	53.4	52.7	52.4	51.2	49.4	47.7	45.9	41.9	33.4	26.8
7.5°	77.8	78.3	77.8	75.0	73.3	70.5	65.2	61.5	53.4	36.4	25.8
10°	109.6	109.6	108.9	104.6	100.9	95.6	88.8	82.3	67.5	39.1	24.8
12.5°	144.3	145.0	141.2	137.7	131.0	124.4	115.2	105.4	83.5	41.4	23.6
15°	175.9	175.4	171.6	167.1	160.1	151.0	141.2	128.7	99.4	42.9	21.8
17.5°	204.0	203.0	199.7	194.7	186.2	176.1	163.6	150.0	115.7	44.2	20.6
20°	229.6	226.0	222.3	217.0	208.7	198.2	185.2	169.9	131.0	44.2	19.1
22.5°	261.9	258.4	253.1	245.1	234.1	221.0	205.7	188.4	144.5	43.2	17.6
25°	299.6	296.8	287.8	277.5	263.2	247.6	229.8	206.5	156.8	41.6	16.1
27.5°	332.4	329.4	320.4	305.3	288.0	269.5	250.6	226.8	167.6	38.9	14.3
30°	356.3	352.5	345.5	331.2	310.1	287.5	265.2	242.4	178.4	35.6	12.8
32.5°	362.5	362.0	356.8	346.2	327.4	302.6	276.0	251.1	186.9	31.4	11.5
35°	356.8	357.5	356.5	351.2	337.4	313.1	283.0	255.9	190.2	27.1	10.3
37.5°	346.2	347.2	349.0	349.7	341.0	319.4	287.0	257.9	189.4	22.8	9.5
40°	338.9	338.4	338.4	343.5	341.7	322.1	287.5	256.4	184.9	18.3	8.8
42.5°	339.7	334.2	330.4	338.4	341.0	320.9	284.3	252.4	175.1	14.0	8.0
45°	343.5	331.7	325.2	335.4	339.5	316.6	278.2	246.4	162.6	9.8	7.8
47.5°	329.4	321.6	320.6	335.2	336.7	309.3	269.0	236.8	150.5	6.8	7.3
50°	306.1	304.8	310.1	325.2	325.4	297.3	258.4	219.5	132.5	4.8	7.0
52.5°	298.8	299.6	304.3	312.1	304.8	277.0	239.3	205.0	109.6	3.8	6.8
55°	270.0	271.2	275.7	280.5	275.2	252.1	216.3	187.4	72.5	3.5	6.3
57.5°	203.2	206.5	214.8	219.0	219.5	205.5	195.9	161.6	40.9	3.5	6.0
60°	186.7	182.4	178.6	169.9	161.8	160.1	161.1	121.2	15.1	3.3	5.8
62.5°	97.6	95.6	101.4	105.1	106.1	111.6	104.4	64.0	3.3	3.3	5.3
65°	10.0	10.0	12.3	16.3	27.1	36.1	34.4	18.6	2.3	3.0	4.8
67.5°	3.0	3.0	3.0	3.5	4.5	4.5	3.8	2.8	2.3	2.8	4.3
70°	1.8	1.8	1.8	1.8	1.8	1.8	2.0	1.8	2.0	2.5	3.8
72.5°	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	2.3	3.3
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.8	2.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.5	2.0
80°	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.3	1.8
82.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	1.0	1.3
85°	0.3	0.5	0.5	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	0.5	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°	27.3	27.3	27.3	27.3
2.5°	24.8	23.1	22.1	21.6
5°	22.6	20.3	19.6	19.3
7.5°	20.6	19.1	18.8	18.8
10°	19.3	18.3	18.6	18.6
12.5°	18.6	18.3	18.6	18.8
15°	17.8	18.1	18.6	18.6
17.5°	17.3	17.8	18.3	18.6
20°	16.6	17.6	18.3	18.3
22.5°	16.1	17.3	18.1	18.3
25°	15.6	16.8	17.8	18.3
27.5°	14.8	16.6	17.8	18.1
30°	14.0	16.1	17.6	18.3
32.5°	13.3	15.8	17.6	18.1
35°	12.8	15.6	17.6	18.1
37.5°	12.3	15.3	17.6	18.3
40°	12.0	15.1	17.3	18.3
42.5°	11.5	15.1	17.3	18.3
45°	11.3	14.8	17.3	18.3
47.5°	11.0	14.6	17.3	18.3
50°	10.5	14.3	17.1	18.3
52.5°	10.3	14.0	17.1	18.3
55°	9.8	13.8	16.8	18.1
57.5°	9.5	13.3	16.6	17.6
60°	9.0	12.8	16.1	17.1
62.5°	8.3	12.0	15.3	16.6
65°	7.5	11.0	14.6	15.6
67.5°	6.8	10.3	13.5	14.6
70°	6.0	9.3	12.3	13.3
72.5°	5.3	8.0	11.0	11.8
75°	4.5	6.8	9.3	10.3
77.5°	3.5	5.5	7.8	8.5
80°	2.8	4.5	6.0	6.5
82.5°	2.3	3.3	4.5	4.8
85°	1.5	2.0	2.8	3.3
87.5°	0.8	1.0	1.3	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)