

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: P1308870

Luminaire Tested: P3SQAS05R609035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308870
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: P3SQAS05R609035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

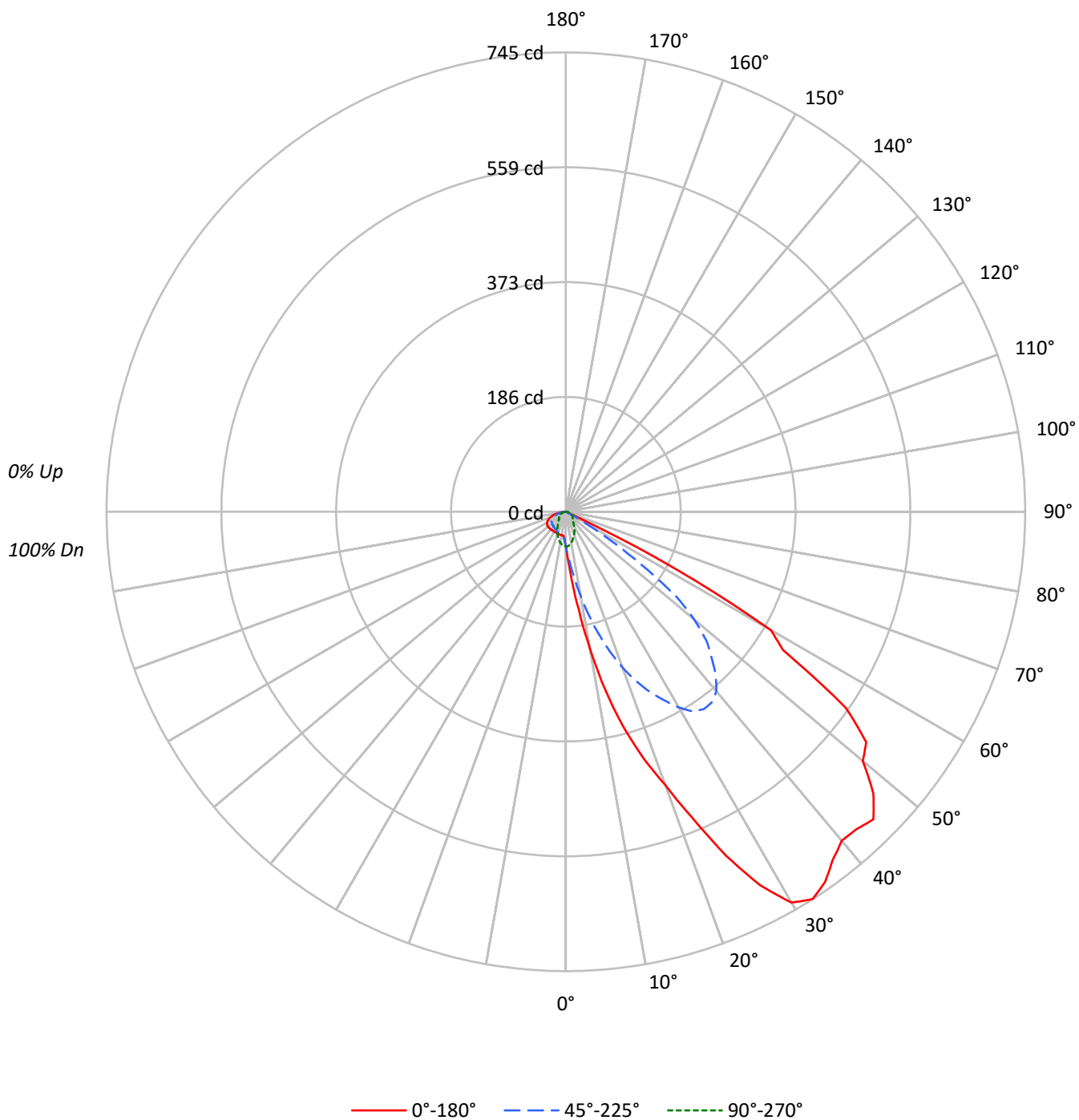
Lumens per Lamp: N/A
Luminaire Lumens: 567.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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			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	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°	9679	9679	9679	9679	9679
5°	19069	14885	9526	7209	6863
10°	39383	24238	8919	6575	6663
15°	64419	36391	7988	6615	6793
20°	86433	49301	7184	6616	6891
25°	116942	61208	6271	6556	7145
30°	145550	72884	5230	6563	7477
35°	154089	82143	4436	6728	7800
40°	156543	85409	4047	6947	8453
45°	171856	81349	3897	7404	9158
50°	168475	72904	3858	7877	10074
55°	166525	44739	3873	8497	11140
60°	132095	10643	4099	9059	12056
65°	8395	1875	3994	9251	13040
70°	1813	2065	3877	9618	13747
75°	1730	2063	3460	9249	14040
80°	1488	2083	3570	9224	13290
85°	988	1976	4150	8102	13239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 181400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	1.2
10°-20°	35.3	6.2
20°-30°	82.0	14.5
30°-40°	127.5	22.5
40°-50°	145.2	25.6
50°-60°	122.3	21.6
60°-70°	35.5	6.3
70°-80°	9.1	1.6
80°-90°	3.1	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°	124.4	21.9
0°-40°	251.8	44.4
0°-60°	519.3	91.6
0°-90°	567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	110	86	55	42	40	14
15°	361	204	45	37	38	105
25°	615	322	33	34	38	286
35°	733	391	21	32	37	455
45°	706	334	16	30	38	530
55°	555	149	13	28	37	467
65°	21	5	10	23	32	102
75°	3	3	5	14	21	3
85°	0	1	2	4	7	1
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°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	75.8	75.2	75.2	74.7	74.2	73.7	72.2	71.6	68.5	62.4	56.2
5°	110.3	109.8	108.2	107.7	105.1	101.5	97.9	94.3	86.1	68.5	55.1
7.5°	159.8	160.8	159.8	154.1	150.5	144.8	134.0	126.3	109.8	74.7	53.1
10°	225.2	225.2	223.7	214.9	207.2	196.4	182.5	169.1	138.6	80.4	51.0
12.5°	296.4	297.9	290.2	283.0	269.0	255.6	236.6	216.5	171.6	85.0	48.4
15°	361.3	360.3	352.5	343.3	328.8	310.3	290.2	264.4	204.1	88.1	44.8
17.5°	419.0	417.0	410.3	400.0	382.4	361.8	336.0	308.2	237.6	90.7	42.3
20°	471.6	464.4	456.7	445.8	428.8	407.2	380.4	348.9	269.0	90.7	39.2
22.5°	538.1	530.9	520.0	503.6	480.9	454.1	422.6	387.1	296.9	88.7	36.1
25°	615.4	609.7	591.2	570.0	540.7	508.7	472.1	424.2	322.1	85.6	33.0
27.5°	682.9	676.7	658.2	627.3	591.7	553.6	514.9	465.9	344.3	79.9	29.4
30°	731.9	724.2	709.7	680.3	637.0	590.7	544.8	497.9	366.5	73.2	26.3
32.5°	744.8	743.7	732.9	711.3	672.6	621.6	567.0	515.9	384.0	64.4	23.7
35°	732.9	734.5	732.4	721.6	693.2	643.2	581.4	525.7	390.7	55.7	21.1
37.5°	711.3	713.3	716.9	718.5	700.4	656.1	589.6	529.8	389.1	46.9	19.6
40°	696.3	695.3	695.3	705.6	702.0	661.8	590.7	526.7	379.9	37.6	18.0
42.5°	697.9	686.5	678.8	695.3	700.4	659.2	584.0	518.5	359.8	28.9	16.5
45°	705.6	681.4	668.0	689.1	697.4	650.4	571.6	506.1	334.0	20.1	16.0
47.5°	676.7	660.8	658.7	688.6	691.7	635.5	552.5	486.5	309.2	13.9	14.9
50°	628.8	626.2	637.0	668.0	668.5	610.8	530.9	451.0	272.1	9.8	14.4
52.5°	613.9	615.4	625.2	641.2	626.2	569.0	491.7	421.1	225.2	7.7	13.9
55°	554.6	557.2	566.4	576.2	565.4	518.0	444.3	385.0	149.0	7.2	12.9
57.5°	417.5	424.2	441.2	450.0	451.0	422.1	402.5	331.9	84.0	7.2	12.4
60°	383.5	374.7	367.0	348.9	332.4	328.8	330.9	248.9	30.9	6.7	11.9
62.5°	200.5	196.4	208.2	216.0	218.0	229.4	214.4	131.4	6.7	6.7	10.8
65°	20.6	20.6	25.3	33.5	55.7	74.2	70.6	38.1	4.6	6.2	9.8
67.5°	6.2	6.2	6.2	7.2	9.3	9.3	7.7	5.7	4.6	5.7	8.8
70°	3.6	3.6	3.6	3.6	3.6	3.6	4.1	3.6	4.1	5.2	7.7
72.5°	3.1	3.1	3.1	3.1	3.6	3.6	3.6	3.6	3.6	4.6	6.7
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	3.1	3.6	5.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.6	2.6	3.1	4.1
80°	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1	2.1	2.6	3.6
82.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.1	2.6
85°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5
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°	56.2	56.2	56.2	56.2
2.5°	51.0	47.4	45.4	44.3
5°	46.4	41.7	40.2	39.7
7.5°	42.3	39.2	38.7	38.7
10°	39.7	37.6	38.1	38.1
12.5°	38.1	37.6	38.1	38.7
15°	36.6	37.1	38.1	38.1
17.5°	35.6	36.6	37.6	38.1
20°	34.0	36.1	37.6	37.6
22.5°	33.0	35.6	37.1	37.6
25°	32.0	34.5	36.6	37.6
27.5°	30.4	34.0	36.6	37.1
30°	28.9	33.0	36.1	37.6
32.5°	27.3	32.5	36.1	37.1
35°	26.3	32.0	36.1	37.1
37.5°	25.3	31.4	36.1	37.6
40°	24.7	30.9	35.6	37.6
42.5°	23.7	30.9	35.6	37.6
45°	23.2	30.4	35.6	37.6
47.5°	22.7	29.9	35.6	37.6
50°	21.6	29.4	35.0	37.6
52.5°	21.1	28.9	35.0	37.6
55°	20.1	28.3	34.5	37.1
57.5°	19.6	27.3	34.0	36.1
60°	18.6	26.3	33.0	35.0
62.5°	17.0	24.7	31.4	34.0
65°	15.5	22.7	29.9	32.0
67.5°	13.9	21.1	27.8	29.9
70°	12.4	19.1	25.3	27.3
72.5°	10.8	16.5	22.7	24.2
75°	9.3	13.9	19.1	21.1
77.5°	7.2	11.3	16.0	17.5
80°	5.7	9.3	12.4	13.4
82.5°	4.6	6.7	9.3	9.8
85°	3.1	4.1	5.7	6.7
87.5°	1.5	2.1	2.6	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)