

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: P1306456

Luminaire Tested: P3SQAS02R559027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R559027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

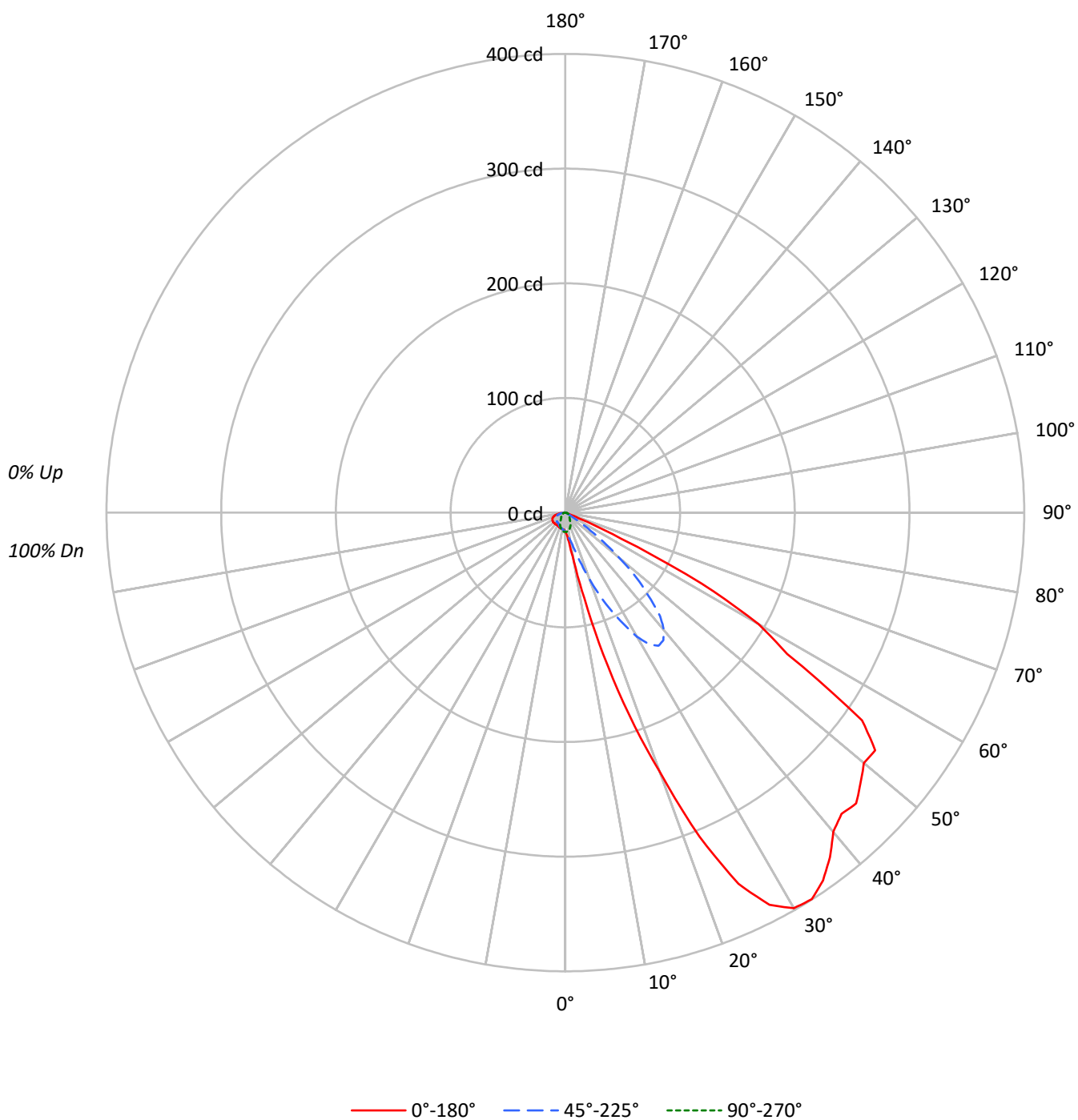
Lumens per Lamp: N/A
Luminaire Lumens: 257.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2859	2859	2859	2859	2859
5°	3648	3337	2870	2662	2593
10°	7432	4250	2781	2536	2536
15°	22786	6526	2585	2478	2550
20°	44078	11400	2328	2419	2548
25°	67840	17729	2033	2337	2546
30°	79208	24799	1670	2307	2625
35°	82311	29792	1388	2292	2712
40°	81677	30059	1281	2406	2968
45°	87340	24892	1218	2606	3215
50°	91016	16424	1206	2786	3590
55°	94762	7146	1231	3063	3963
60°	66960	1653	1240	3376	4443
65°	21843	571	1223	3627	5012
70°	705	554	1259	3877	5740
75°	599	599	1065	4059	6321
80°	496	694	1091	4066	6744
85°	395	988	1383	3952	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 96301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.7
10°-20°	10.9	4.2
20°-30°	36.6	14.2
30°-40°	60.1	23.4
40°-50°	67.0	26.1
50°-60°	56.4	21.9
60°-70°	19.1	7.4
70°-80°	3.7	1.5
80°-90°	1.4	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°	49.2	19.2
0°-40°	109.3	42.5
0°-60°	232.7	90.6
0°-90°	257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	257.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	21	19	17	15	15	3
15°	128	37	14	14	14	41
25°	357	93	11	12	13	160
35°	392	142	7	11	13	243
45°	359	102	5	11	13	274
55°	316	24	4	10	13	257
65°	54	1	3	9	12	73
75°	1	1	2	6	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°	22.5°	45°	67.5°	90°	112.5°	135°
0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	18.2	18.2	18.2	18.2	18.2	18.2	17.9	17.3	16.8	16.1	15.9
5°	21.1	21.1	21.1	20.9	20.9	20.4	19.3	17.7	16.6	15.7	15.4
7.5°	27.2	27.0	26.6	26.3	25.7	25.4	21.3	18.2	16.3	15.2	15.0
10°	42.5	42.0	41.3	38.8	36.6	35.0	24.3	18.4	15.9	14.8	14.5
12.5°	76.5	75.6	72.2	67.0	60.6	57.4	29.1	18.6	15.2	14.3	14.3
15°	127.8	126.7	120.3	113.1	101.5	95.1	36.6	18.4	14.5	13.6	13.9
17.5°	184.6	181.4	174.8	165.3	149.6	142.1	47.7	17.9	13.6	13.2	13.6
20°	240.5	239.6	228.7	215.7	196.4	186.4	62.2	17.3	12.7	12.5	13.2
22.5°	305.9	302.0	290.4	276.6	250.0	236.8	77.9	16.3	11.8	11.8	12.7
25°	357.0	352.4	343.3	327.2	302.0	287.9	93.3	15.2	10.7	11.1	12.3
27.5°	385.6	380.4	373.5	359.7	340.2	327.7	108.8	13.9	9.5	10.4	11.8
30°	398.3	396.9	391.9	381.7	363.8	352.6	124.7	12.3	8.4	9.8	11.6
32.5°	399.7	400.3	398.3	391.7	378.1	368.5	136.5	10.9	7.5	9.3	11.1
35°	391.5	394.0	395.3	392.6	383.8	376.0	141.7	9.3	6.6	8.9	10.9
37.5°	378.8	383.3	387.8	388.5	383.1	378.1	140.3	7.9	6.1	8.6	10.9
40°	363.3	367.4	376.7	382.6	380.8	377.2	133.7	6.6	5.7	8.2	10.7
42.5°	356.3	357.2	367.2	377.2	376.7	373.8	122.2	5.2	5.2	8.2	10.7
45°	358.6	354.5	361.0	372.6	371.9	368.1	102.2	4.1	5.0	7.9	10.7
47.5°	349.0	343.3	354.5	368.1	365.6	359.9	84.5	3.0	4.8	7.7	10.4
50°	339.7	338.8	347.4	354.2	350.8	347.7	61.3	2.3	4.5	7.5	10.4
52.5°	340.4	338.8	339.7	339.5	332.7	329.3	42.0	1.8	4.3	7.3	10.4
55°	315.6	310.6	305.9	307.2	307.7	305.4	23.8	1.6	4.1	7.3	10.2
57.5°	229.3	228.0	233.2	248.0	259.5	260.9	11.6	1.6	3.9	7.0	10.0
60°	194.4	193.5	193.7	198.0	204.1	200.3	4.8	1.6	3.6	6.8	9.8
62.5°	134.0	142.8	146.5	156.5	152.4	146.9	1.8	1.8	3.4	6.4	9.5
65°	53.6	53.4	58.4	63.1	61.8	57.7	1.4	1.6	3.0	5.9	8.9
67.5°	12.5	11.4	9.8	8.4	7.0	5.7	1.4	1.6	2.7	5.4	8.4
70°	1.4	1.4	1.4	1.4	1.4	1.1	1.1	1.6	2.5	5.0	7.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	2.0	4.3	7.0
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.6	3.6	6.1
77.5°	0.7	0.7	0.7	0.9	0.7	0.9	0.9	1.1	1.4	3.0	5.2
80°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.9	1.1	2.5	4.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.8	3.0
85°	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	1.4	2.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	0.9
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):

	157.5°	180°
0°	16.6	16.6
2.5°	15.7	15.7
5°	15.2	15.0
7.5°	14.8	14.8
10°	14.5	14.5
12.5°	14.3	14.5
15°	14.3	14.3
17.5°	13.9	14.1
20°	13.6	13.9
22.5°	13.4	13.6
25°	13.2	13.4
27.5°	12.9	13.2
30°	12.7	13.2
32.5°	12.5	12.9
35°	12.5	12.9
37.5°	12.5	13.2
40°	12.5	13.2
42.5°	12.5	13.2
45°	12.5	13.2
47.5°	12.5	13.2
50°	12.5	13.4
52.5°	12.5	13.4
55°	12.5	13.2
57.5°	12.3	13.2
60°	12.3	12.9
62.5°	12.0	12.7
65°	11.6	12.3
67.5°	11.1	12.0
70°	10.4	11.4
72.5°	9.8	10.4
75°	8.9	9.5
77.5°	7.7	8.2
80°	6.1	6.8
82.5°	4.8	5.2
85°	3.2	3.4
87.5°	1.4	1.6
90°	0.0	0.0

(END OF REPORT)