

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: P1306472

Luminaire Tested: P3SQAS02R659027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R659027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

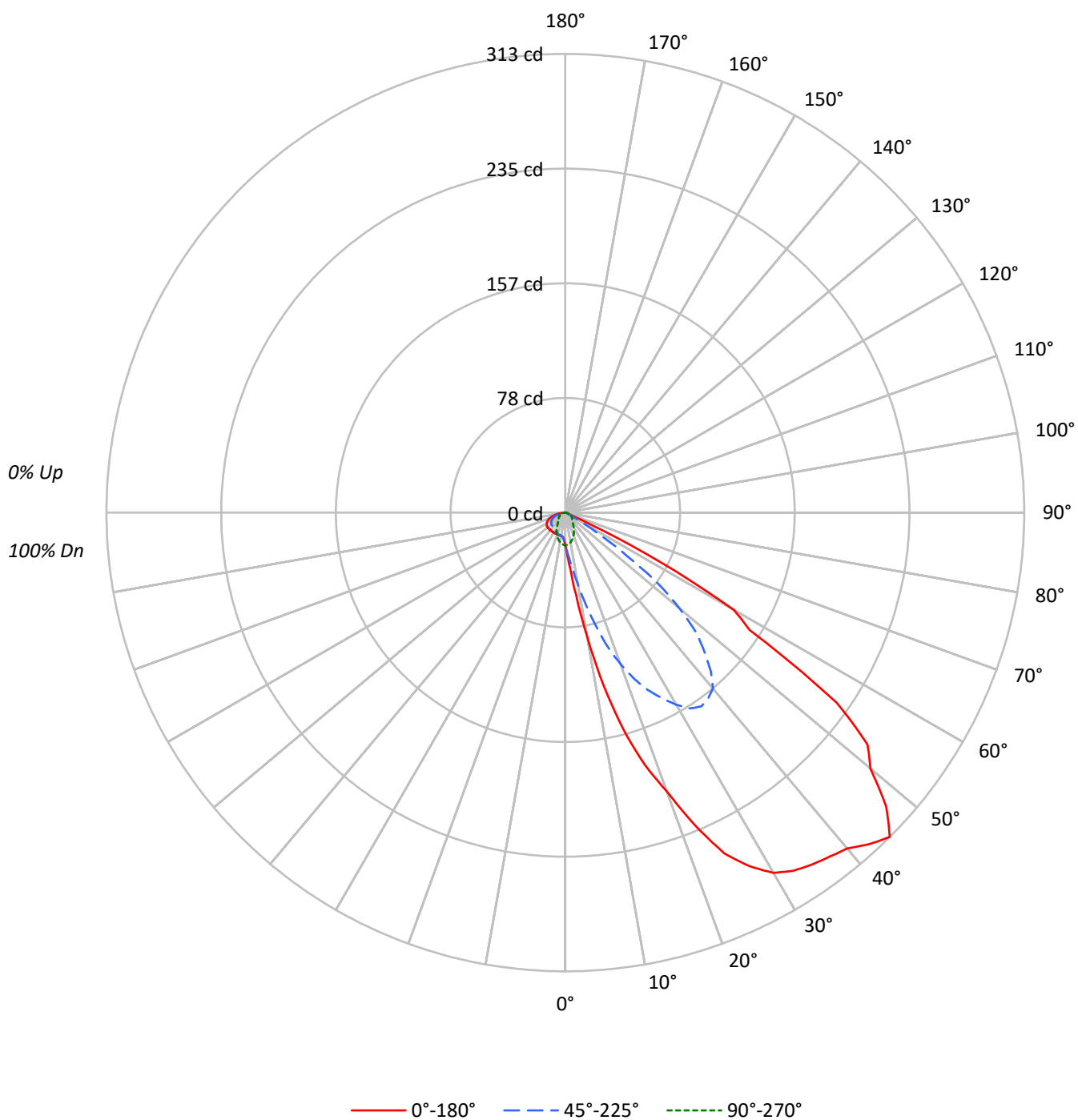
Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3806	3806	3806	3806	3806
5°	6656	5428	3734	3025	2904
10°	15040	8761	3585	2781	2833
15°	27351	14086	3334	2799	2888
20°	37077	20105	3006	2786	2914
25°	48742	25388	2641	2717	2983
30°	56438	30108	2267	2724	3122
35°	61644	33934	1913	2775	3301
40°	67244	35207	1686	2923	3530
45°	76234	32661	1607	3093	3824
50°	72824	27249	1581	3296	4207
55°	67859	15313	1651	3543	4654
60°	45708	3307	1653	3754	5029
65°	7050	815	1589	3912	5461
70°	806	806	1511	4028	5841
75°	732	732	1331	3926	5922
80°	694	893	1389	3570	5852
85°	395	988	1383	3557	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 76234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	1.2
10°-20°	14.4	6.4
20°-30°	33.9	14.9
30°-40°	51.2	22.6
40°-50°	58.9	25.9
50°-60°	46.8	20.6
60°-70°	14.0	6.2
70°-80°	3.8	1.7
80°-90°	1.3	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°	51.0	22.5
0°-40°	102.3	45.0
0°-60°	207.9	91.6
0°-90°	227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	38	31	22	18	17	5
15°	153	79	19	16	16	44
25°	256	134	14	14	16	117
35°	293	161	9	13	16	184
45°	313	134	7	13	16	232
55°	226	51	6	12	16	186
65°	17	2	4	10	13	39
75°	1	1	2	6	9	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°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	28.0	28.2	28.0	28.0	27.8	27.5	25.9	24.1	22.1	20.5	19.3
5°	38.5	38.7	38.0	38.0	37.6	36.9	31.4	26.2	21.6	19.1	17.5
7.5°	56.9	57.8	56.7	55.3	52.8	52.3	39.1	28.2	21.2	17.8	16.4
10°	86.0	85.4	84.2	81.5	77.2	75.1	50.1	30.3	20.5	16.8	15.9
12.5°	121.3	119.5	118.1	113.1	107.2	103.8	63.7	32.1	19.6	15.9	15.7
15°	153.4	152.0	148.9	144.1	136.8	134.1	79.0	33.2	18.7	15.2	15.7
17.5°	180.5	179.1	177.3	172.5	165.0	160.9	96.0	33.9	17.5	14.8	15.5
20°	202.3	201.4	198.9	195.1	187.5	183.7	109.7	33.9	16.4	14.3	15.2
22.5°	230.6	228.5	225.3	219.6	210.3	204.4	122.7	33.2	15.2	13.9	14.8
25°	256.5	255.1	251.0	244.2	234.2	228.3	133.6	31.9	13.9	13.2	14.3
27.5°	272.0	271.1	267.2	260.2	249.0	244.4	142.7	29.8	12.5	12.5	14.1
30°	283.8	282.0	278.1	271.3	259.9	254.5	151.4	27.3	11.4	11.8	13.7
32.5°	289.7	289.1	285.6	279.7	268.6	262.4	158.4	24.1	10.0	11.4	13.4
35°	293.2	292.5	289.7	284.1	273.6	267.7	161.4	21.2	9.1	10.9	13.2
37.5°	295.9	295.2	291.8	286.1	275.6	269.5	160.0	18.0	8.2	10.5	13.0
40°	299.1	296.6	291.3	285.6	276.1	270.2	156.6	15.0	7.5	10.2	13.0
42.5°	306.8	298.2	290.0	284.7	275.6	268.8	146.8	11.8	6.8	9.8	12.7
45°	313.0	297.7	287.2	283.1	273.8	266.1	134.1	8.6	6.6	9.6	12.7
47.5°	296.8	287.5	282.7	280.4	270.4	262.0	120.9	5.9	6.4	9.3	12.5
50°	271.8	270.6	268.8	269.0	259.9	253.1	101.7	4.1	5.9	9.1	12.3
52.5°	259.7	258.3	255.1	252.9	243.8	237.8	80.6	3.2	5.7	8.9	12.1
55°	226.0	226.9	223.5	224.9	222.1	219.2	51.0	3.0	5.5	8.4	11.8
57.5°	148.9	153.4	161.4	170.9	179.6	185.5	27.5	3.0	5.0	8.2	11.4
60°	132.7	131.6	131.3	133.1	137.0	140.2	9.6	2.7	4.8	7.5	10.9
62.5°	72.6	72.2	79.0	90.6	97.4	98.1	2.7	2.7	4.3	7.1	10.2
65°	17.3	18.0	20.0	25.0	29.6	32.5	2.0	2.5	3.9	6.6	9.6
67.5°	2.7	3.0	3.0	3.6	4.1	4.1	1.8	2.3	3.4	5.9	8.9
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	3.0	5.2	8.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.8	2.5	4.6	6.8
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.0	3.6	5.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.4	1.8	3.0	4.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	2.3	3.6
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.8	2.7
85°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7	0.7	1.1	1.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	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°	22.1	22.1
2.5°	18.7	18.4
5°	16.8	16.8
7.5°	16.2	16.2
10°	15.9	16.2
12.5°	15.9	16.2
15°	15.9	16.2
17.5°	15.9	16.2
20°	15.7	15.9
22.5°	15.5	15.7
25°	15.2	15.7
27.5°	15.0	15.7
30°	15.0	15.7
32.5°	15.0	15.7
35°	14.8	15.7
37.5°	14.8	15.7
40°	14.8	15.7
42.5°	14.8	15.7
45°	14.8	15.7
47.5°	14.8	15.7
50°	14.8	15.7
52.5°	14.6	15.7
55°	14.6	15.5
57.5°	14.1	15.0
60°	13.7	14.6
62.5°	13.2	14.1
65°	12.5	13.4
67.5°	11.8	12.5
70°	10.7	11.6
72.5°	9.6	10.2
75°	8.2	8.9
77.5°	6.8	7.5
80°	5.5	5.9
82.5°	3.9	4.3
85°	2.5	2.7
87.5°	1.1	1.1
90°	0.0	0.0

(END OF REPORT)