

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: P1317053

Luminaire Tested: P3SQAS09R709830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

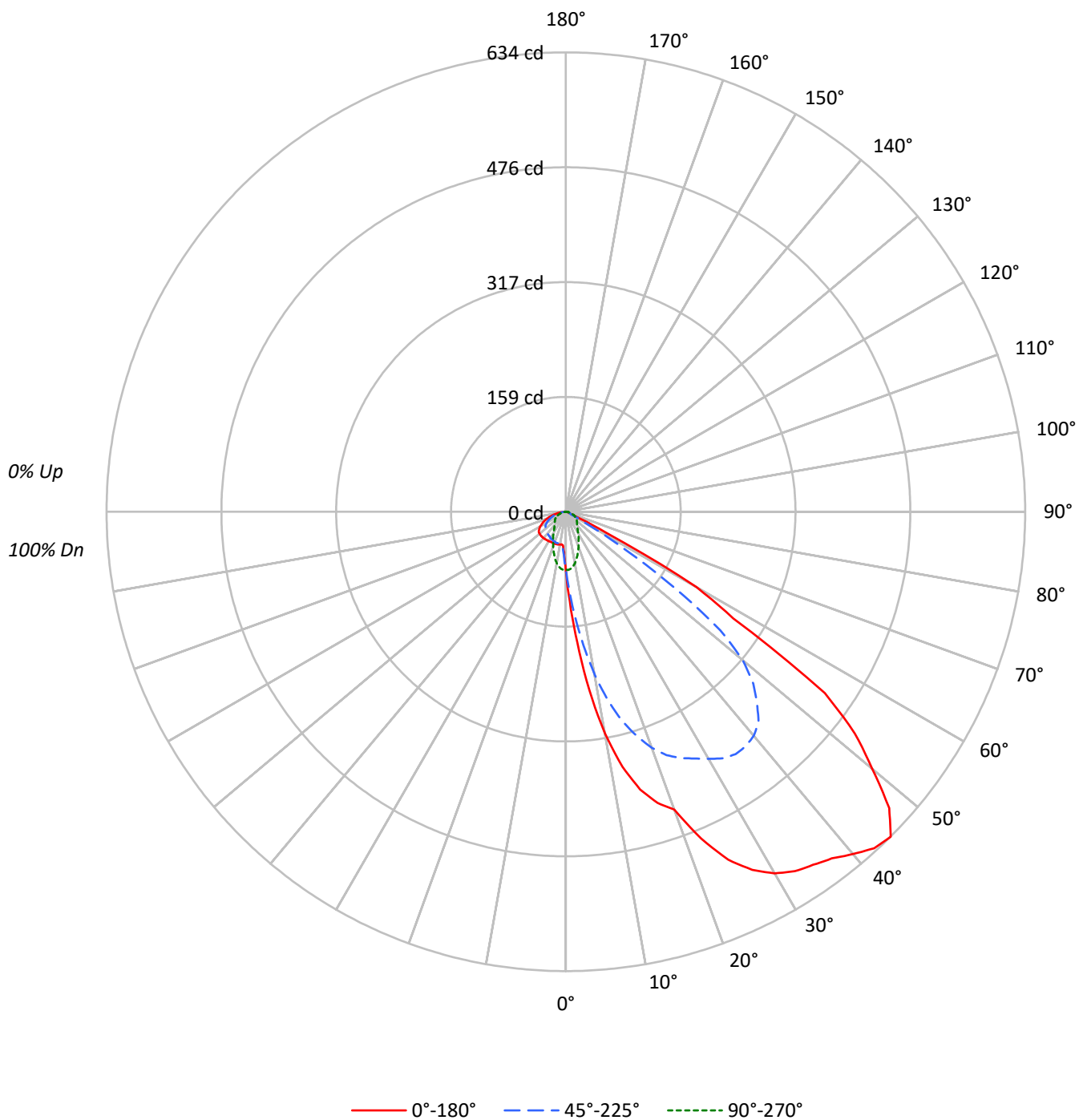
Lumens per Lamp: N/A
Luminaire Lumens: 548.0 lumens
Efficiency: N/A
Efficacy: 49.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13743	13743	13743	13743	13743
5°	31291	25050	13606	8609	8039
10°	54213	39768	12626	7835	8027
15°	70766	53133	11019	7988	8291
20°	80165	63523	9420	8119	8614
25°	100676	71279	7905	8209	8836
30°	114606	78293	6742	8372	9347
35°	125075	85864	5866	8515	9882
40°	138647	90715	5418	8858	10701
45°	154465	90823	5334	9328	11593
50°	147951	85390	5278	9806	12593
55°	131004	55338	5405	10329	13632
60°	71748	11849	5477	10540	14122
65°	5135	2893	5338	10473	14263
70°	2467	2769	4935	9920	13747
75°	2196	2928	4724	9449	12709
80°	2182	2678	4364	8629	11901
85°	2174	3162	4347	7509	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 154465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	1.9
10°-20°	44.5	8.1
20°-30°	85.4	15.6
30°-40°	120.8	22.1
40°-50°	136.7	24.9
50°-60°	108.2	19.8
60°-70°	29.2	5.3
70°-80°	9.7	1.8
80°-90°	3.0	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°	140.4	25.6
0°-40°	261.2	47.7
0°-60°	506.2	92.4
0°-90°	548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	181	145	79	50	46	21
15°	397	298	62	45	46	112
25°	530	375	42	43	46	243
35°	595	408	28	40	47	375
45°	634	373	22	38	48	474
55°	436	184	18	34	45	354
65°	13	7	13	26	35	45
75°	3	4	7	14	19	4
85°	1	2	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
2.5°	124.1	124.1	123.6	121.4	120.3	117.5	115.4	109.3	94.6	80.4	68.9
5°	181.0	183.7	179.9	179.3	176.1	171.1	167.8	144.9	109.3	78.7	59.0
7.5°	248.2	249.3	248.2	242.8	237.8	229.6	222.0	185.9	124.1	76.0	51.9
10°	310.0	308.4	305.1	301.3	294.1	285.4	272.3	227.4	138.3	72.2	47.6
12.5°	360.3	359.8	355.9	352.1	343.4	331.9	318.7	265.2	150.4	67.2	45.4
15°	396.9	396.9	393.1	388.7	380.5	371.2	356.5	298.0	160.2	61.8	43.2
17.5°	421.5	420.4	417.7	414.4	407.9	398.6	387.1	324.2	166.8	56.3	42.6
20°	437.4	436.8	434.7	429.7	424.3	417.2	406.8	346.6	169.5	51.4	42.1
22.5°	488.2	483.9	475.7	465.3	452.2	435.2	421.0	363.6	168.4	45.9	41.0
25°	529.8	528.2	519.4	506.8	489.3	467.5	444.0	375.1	162.9	41.6	39.9
27.5°	557.1	554.4	546.2	532.5	513.9	492.6	470.7	383.8	155.3	37.7	38.3
30°	576.3	574.6	566.4	551.1	532.0	508.5	486.1	393.7	144.9	33.9	36.6
32.5°	588.3	586.7	578.5	564.8	546.2	521.6	495.9	403.5	132.3	30.6	35.0
35°	594.9	593.2	583.9	571.9	554.4	530.3	503.0	408.4	117.0	27.9	33.4
37.5°	603.1	599.8	587.2	572.4	554.9	532.5	505.2	407.9	101.7	25.7	32.3
40°	616.7	608.0	589.9	570.3	552.2	529.8	503.5	403.5	84.7	24.1	31.2
42.5°	629.8	617.3	590.5	567.0	546.7	524.9	497.5	393.7	66.2	23.0	30.6
45°	634.2	615.6	582.8	559.3	540.2	517.8	489.3	372.9	44.8	21.9	29.5
47.5°	605.2	591.6	564.2	546.7	528.7	506.8	477.3	351.0	25.7	20.8	28.4
50°	552.2	543.5	528.2	517.2	507.4	492.1	463.1	318.7	15.3	19.7	27.3
52.5°	503.0	500.3	489.3	480.6	475.1	468.0	441.8	269.0	12.6	19.1	26.2
55°	436.3	427.6	424.8	421.5	433.0	432.5	396.9	184.3	12.0	18.0	25.2
57.5°	273.9	277.7	292.0	318.2	349.4	367.4	366.3	98.4	11.5	16.9	23.5
60°	208.3	207.8	212.1	223.1	246.0	271.7	295.8	34.4	10.9	15.9	22.4
62.5°	62.3	64.0	77.1	113.2	135.6	167.3	152.5	8.2	10.4	14.2	20.2
65°	12.6	13.1	13.1	14.8	18.0	27.3	33.4	7.1	9.8	13.1	18.6
67.5°	5.5	5.5	5.5	6.0	6.0	7.1	6.0	6.6	8.7	11.5	16.4
70°	4.9	4.9	4.9	4.9	4.9	4.9	5.5	5.5	7.7	9.8	14.2
72.5°	3.8	3.8	3.8	4.4	4.4	4.4	4.4	4.9	6.6	8.2	12.0
75°	3.3	3.3	3.3	3.3	3.8	3.8	3.8	4.4	5.5	7.1	9.8
77.5°	2.7	2.7	2.7	2.7	2.7	3.3	3.3	3.3	4.4	5.5	8.2
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.3	4.4	6.0
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.7	3.3	4.4
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.2	2.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6
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):

	135°	157.5°	180°
0°	79.8	79.8	79.8
2.5°	60.7	57.4	55.8
5°	49.8	47.0	46.5
7.5°	45.9	45.4	45.4
10°	44.8	45.4	45.9
12.5°	44.8	45.9	46.5
15°	44.8	45.9	46.5
17.5°	44.8	45.9	46.5
20°	44.3	45.9	47.0
22.5°	43.7	45.9	46.5
25°	43.2	45.9	46.5
27.5°	42.6	45.4	46.5
30°	42.1	45.4	47.0
32.5°	41.0	45.4	47.0
35°	40.5	45.4	47.0
37.5°	39.9	45.4	47.6
40°	39.4	45.4	47.6
42.5°	38.8	45.4	47.6
45°	38.3	44.8	47.6
47.5°	37.2	44.8	47.6
50°	36.6	44.3	47.0
52.5°	35.5	43.7	47.0
55°	34.4	42.6	45.4
57.5°	32.8	41.0	43.2
60°	30.6	38.8	41.0
62.5°	27.9	36.1	37.7
65°	25.7	32.8	35.0
67.5°	22.4	29.0	31.2
70°	19.7	25.2	27.3
72.5°	16.9	21.3	23.5
75°	14.2	17.5	19.1
77.5°	10.9	14.2	15.3
80°	8.7	10.9	12.0
82.5°	6.0	7.7	8.2
85°	3.8	4.9	5.5
87.5°	1.6	2.2	2.2
90°	0.0	0.0	0.0

(END OF REPORT)