

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: P1315885

Luminaire Tested: P3SQAS02R709827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315885
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: P3SQAS02R709827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

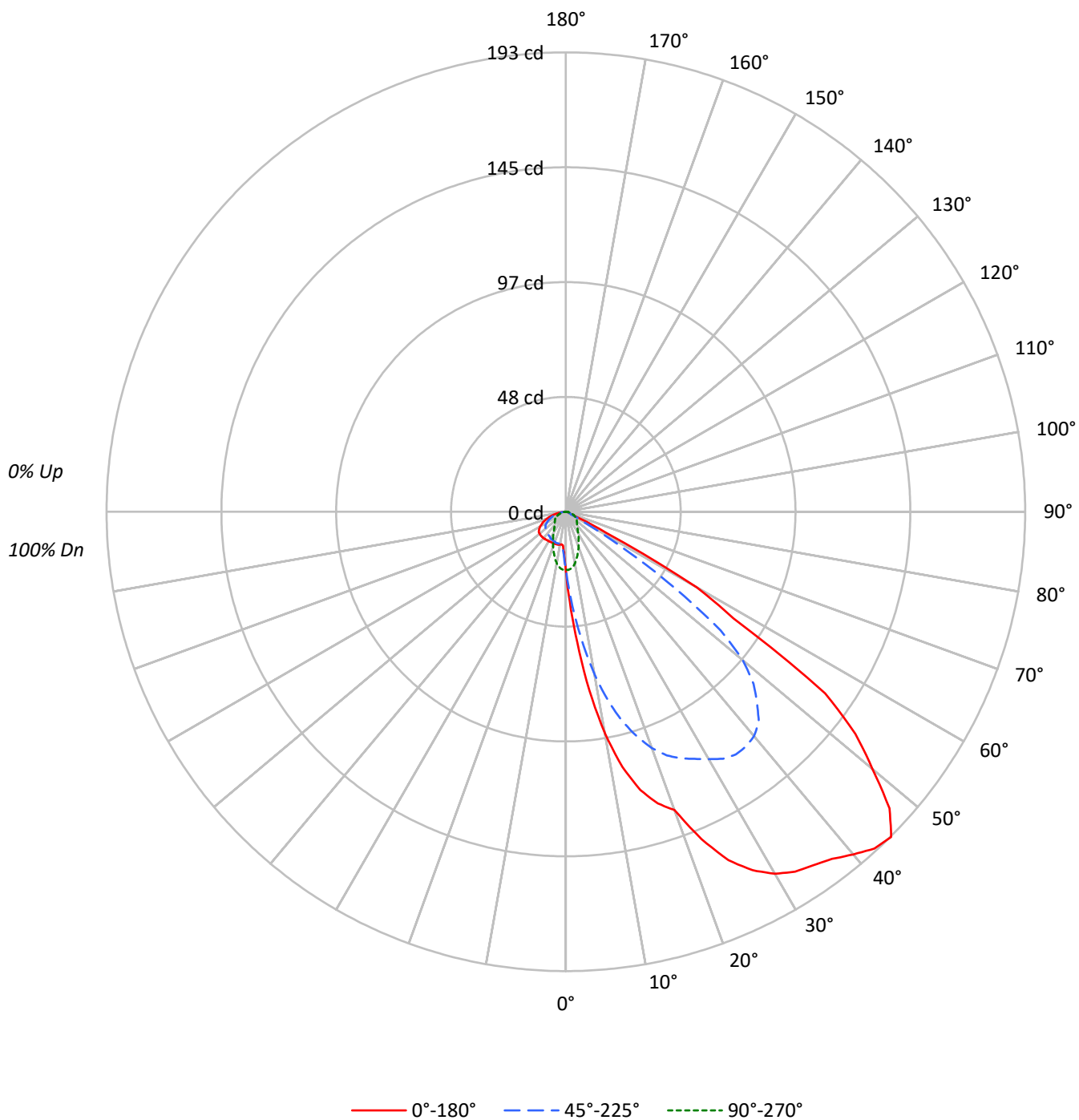
Lumens per Lamp: N/A
Luminaire Lumens: 167.0 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4185	4185	4185	4185	4185
5°	9526	7641	4149	2628	2455
10°	16526	12119	3847	2396	2448
15°	21574	16189	3352	2443	2532
20°	24431	19354	2877	2474	2621
25°	30689	21720	2413	2508	2698
30°	34921	23864	2048	2545	2844
35°	38117	26176	1787	2586	3007
40°	42244	27653	1641	2698	3260
45°	47080	27668	1632	2850	3532
50°	45093	26016	1608	3001	3831
55°	39935	16845	1651	3153	4144
60°	21872	3617	1653	3203	4306
65°	1549	897	1630	3179	4360
70°	755	856	1511	3021	4179
75°	665	865	1464	2861	3859
80°	694	793	1289	2678	3670
85°	593	988	1383	2371	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	1.9
10°-20°	13.6	8.1
20°-30°	26.0	15.6
30°-40°	36.8	22.0
40°-50°	41.7	24.9
50°-60°	33.0	19.8
60°-70°	8.9	5.3
70°-80°	3.0	1.8
80°-90°	0.9	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°	42.8	25.6
0°-40°	79.6	47.7
0°-60°	154.3	92.4
0°-90°	167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	55	44	24	15	14	7
15°	121	91	19	14	14	34
25°	162	114	13	13	14	74
35°	181	124	8	12	14	114
45°	193	114	7	12	14	145
55°	133	56	6	10	14	108
65°	4	2	4	8	11	14
75°	1	1	2	4	6	1
85°	0	0	1	1	2	0
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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	37.8	37.8	37.7	37.0	36.7	35.8	35.2	33.3	28.8	24.5	21.0
5°	55.1	56.0	54.8	54.7	53.7	52.2	51.2	44.2	33.3	24.0	18.0
7.5°	75.6	76.0	75.6	74.0	72.5	70.0	67.6	56.6	37.8	23.2	15.8
10°	94.5	94.0	93.0	91.8	89.6	87.0	83.0	69.3	42.2	22.0	14.5
12.5°	109.8	109.6	108.5	107.3	104.6	101.1	97.1	80.8	45.8	20.5	13.8
15°	121.0	121.0	119.8	118.5	116.0	113.1	108.6	90.8	48.8	18.8	13.2
17.5°	128.5	128.1	127.3	126.3	124.3	121.5	118.0	98.8	50.8	17.2	13.0
20°	133.3	133.1	132.5	131.0	129.3	127.1	124.0	105.6	51.7	15.7	12.8
22.5°	148.8	147.5	145.0	141.8	137.8	132.6	128.3	110.8	51.3	14.0	12.5
25°	161.5	161.0	158.3	154.5	149.1	142.5	135.3	114.3	49.7	12.7	12.2
27.5°	169.8	168.9	166.4	162.3	156.6	150.1	143.5	117.0	47.3	11.5	11.7
30°	175.6	175.1	172.6	167.9	162.1	155.0	148.1	120.0	44.2	10.3	11.2
32.5°	179.3	178.8	176.3	172.1	166.4	159.0	151.1	123.0	40.3	9.3	10.7
35°	181.3	180.8	177.9	174.3	168.9	161.6	153.3	124.5	35.7	8.5	10.2
37.5°	183.8	182.8	178.9	174.4	169.1	162.3	154.0	124.3	31.0	7.8	9.8
40°	187.9	185.3	179.8	173.8	168.3	161.5	153.5	123.0	25.8	7.3	9.5
42.5°	191.9	188.1	179.9	172.8	166.6	160.0	151.6	120.0	20.2	7.0	9.3
45°	193.3	187.6	177.6	170.4	164.6	157.8	149.1	113.6	13.7	6.7	9.0
47.5°	184.4	180.3	171.9	166.6	161.1	154.5	145.5	107.0	7.8	6.3	8.7
50°	168.3	165.6	161.0	157.6	154.6	150.0	141.1	97.1	4.7	6.0	8.3
52.5°	153.3	152.5	149.1	146.5	144.8	142.6	134.6	82.0	3.8	5.8	8.0
55°	133.0	130.3	129.5	128.5	132.0	131.8	121.0	56.1	3.7	5.5	7.7
57.5°	83.5	84.6	89.0	97.0	106.5	112.0	111.6	30.0	3.5	5.2	7.2
60°	63.5	63.3	64.6	68.0	75.0	82.8	90.1	10.5	3.3	4.8	6.8
62.5°	19.0	19.5	23.5	34.5	41.3	51.0	46.5	2.5	3.2	4.3	6.2
65°	3.8	4.0	4.0	4.5	5.5	8.3	10.2	2.2	3.0	4.0	5.7
67.5°	1.7	1.7	1.7	1.8	1.8	2.2	1.8	2.0	2.7	3.5	5.0
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.7	2.3	3.0	4.3
72.5°	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.5	2.0	2.5	3.7
75°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.3	1.7	2.2	3.0
77.5°	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.3	1.7	2.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.3	1.8
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.8	1.0	1.3
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.7	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5
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):

	135°	157.5°	180°
0°	24.3	24.3	24.3
2.5°	18.5	17.5	17.0
5°	15.2	14.3	14.2
7.5°	14.0	13.8	13.8
10°	13.7	13.8	14.0
12.5°	13.7	14.0	14.2
15°	13.7	14.0	14.2
17.5°	13.7	14.0	14.2
20°	13.5	14.0	14.3
22.5°	13.3	14.0	14.2
25°	13.2	14.0	14.2
27.5°	13.0	13.8	14.2
30°	12.8	13.8	14.3
32.5°	12.5	13.8	14.3
35°	12.3	13.8	14.3
37.5°	12.2	13.8	14.5
40°	12.0	13.8	14.5
42.5°	11.8	13.8	14.5
45°	11.7	13.7	14.5
47.5°	11.3	13.7	14.5
50°	11.2	13.5	14.3
52.5°	10.8	13.3	14.3
55°	10.5	13.0	13.8
57.5°	10.0	12.5	13.2
60°	9.3	11.8	12.5
62.5°	8.5	11.0	11.5
65°	7.8	10.0	10.7
67.5°	6.8	8.8	9.5
70°	6.0	7.7	8.3
72.5°	5.2	6.5	7.2
75°	4.3	5.3	5.8
77.5°	3.3	4.3	4.7
80°	2.7	3.3	3.7
82.5°	1.8	2.3	2.5
85°	1.2	1.5	1.7
87.5°	0.5	0.7	0.7
90°	0.0	0.0	0.0

(END OF REPORT)