

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: P1313555

Luminaire Tested: P3SQAS17R309730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R309730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

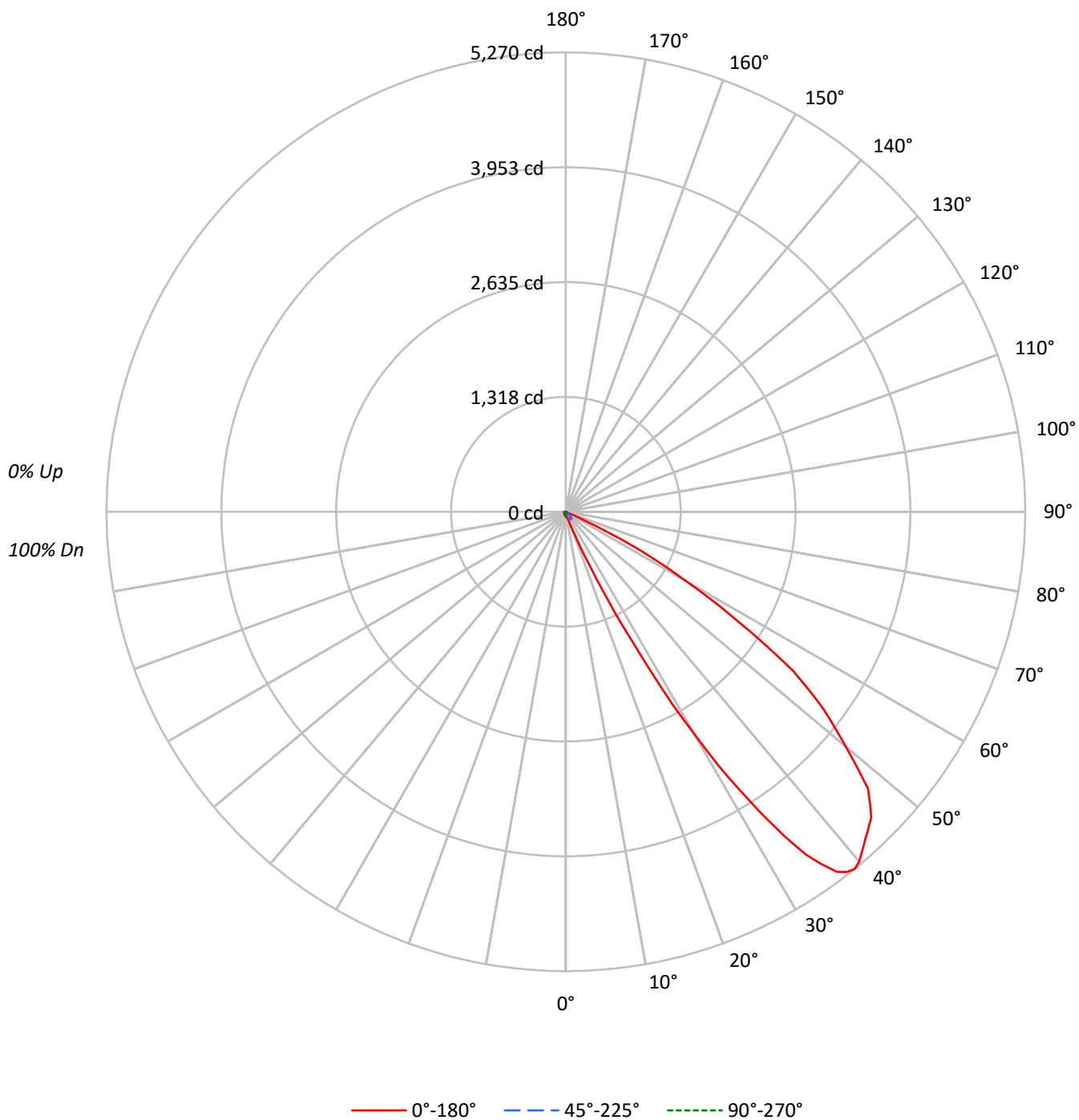
Lumens per Lamp: N/A
Luminaire Lumens: 1370.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9145	9145	9145	9145	9145
5°	9768	9578	8972	8177	7987
10°	10703	9478	7870	7065	6855
15°	15637	9468	6579	5973	6169
20°	39331	10355	5077	5077	5718
25°	182673	12941	3953	4599	5264
30°	581543	17898	2983	4355	5270
35°	1009092	21844	2418	4121	5340
40°	1176869	21785	1821	4159	5441
45°	1206935	15466	1973	4506	5894
50°	1122389	8654	1554	4635	6805
55°	953929	4504	1742	5195	7627
60°	550940	1206	1998	5580	8336
65°	112392	0	2364	6602	9414
70°	1762	604	2921	7553	11028
75°	1530	799	3061	7652	13042
80°	1190	1190	4562	9124	14877
85°	0	2371	9090	9090	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1206935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.4
10°-20°	13.8	1.0
20°-30°	79.0	5.8
30°-40°	369.0	26.9
40°-50°	521.8	38.1
50°-60°	321.0	23.4
60°-70°	48.9	3.6
70°-80°	7.7	0.6
80°-90°	3.9	0.3
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°	97.6	7.1
0°-40°	466.6	34.1
0°-60°	1309.5	95.6
0°-90°	1370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1370.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	56	55	52	47	46	6
15°	88	53	37	34	35	31
25°	961	68	21	24	28	592
35°	4800	104	12	20	25	2881
45°	4955	64	8	18	24	3757
55°	3177	15	6	17	25	2703
65°	276	0	6	16	23	499
75°	2	1	5	12	20	2
85°	0	1	5	5	9	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°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
2.5°	54.2	54.2	55.4	55.4	54.2	55.4	55.4	55.4	53.1	51.9	49.6
5°	56.5	56.5	56.5	57.7	56.5	56.5	55.4	54.2	51.9	48.5	47.3
7.5°	58.9	58.9	57.7	58.9	57.7	57.7	55.4	53.1	49.6	46.2	43.9
10°	61.2	61.2	60.0	60.0	58.9	58.9	54.2	50.8	45.0	41.5	40.4
12.5°	68.1	68.1	66.9	65.8	63.5	62.3	53.1	47.3	40.4	36.9	35.8
15°	87.7	86.6	84.2	80.8	75.0	73.9	53.1	43.9	36.9	33.5	33.5
17.5°	120.0	118.9	115.4	106.2	95.8	92.3	53.1	39.2	32.3	30.0	30.0
20°	214.6	205.4	188.1	165.0	140.8	128.1	56.5	34.6	27.7	26.5	27.7
21°	280.4	271.2	249.3	211.2	168.5	154.6	58.9	33.5	26.5	25.4	27.7
22°	382.0	371.6	326.6	274.7	213.5	189.3	60.0	31.2	24.2	24.2	26.5
23°	533.2	515.9	439.7	356.6	266.6	232.0	62.3	30.0	23.1	24.2	25.4
24°	698.2	683.2	596.6	472.0	340.4	290.8	64.6	28.9	21.9	21.9	24.2
25°	961.3	944.0	790.5	595.5	431.6	349.7	68.1	26.5	20.8	20.8	24.2
26°	1301.7	1222.1	1017.9	767.4	532.0	438.5	71.5	25.4	19.6	20.8	23.1
27°	1624.9	1559.1	1329.4	984.4	657.8	538.9	76.2	24.2	18.5	19.6	23.1
28°	2049.6	1957.2	1667.6	1245.2	828.6	652.0	80.8	23.1	17.3	19.6	21.9
29°	2525.0	2395.8	2046.1	1538.3	1021.3	779.0	85.4	21.9	16.2	18.5	21.9
30°	2924.3	2803.1	2453.5	1885.7	1242.9	946.3	90.0	20.8	15.0	18.5	21.9
31°	3392.8	3209.4	2785.8	2180.0	1433.3	1113.6	94.6	18.5	13.8	17.3	20.8
32°	3772.5	3644.4	3194.4	2512.3	1683.7	1298.3	98.1	17.3	13.8	17.3	20.8
33°	4139.5	3967.6	3532.5	2830.8	1909.9	1487.5	101.6	16.2	12.7	16.2	20.8
34°	4490.3	4332.2	3852.2	3088.2	2123.4	1667.6	103.9	13.8	12.7	16.2	19.6
35°	4799.6	4616.1	4133.7	3339.8	2342.7	1831.4	103.9	12.7	11.5	15.0	19.6
36°	5000.4	4868.9	4378.4	3587.9	2541.2	1987.2	103.9	11.5	10.4	15.0	18.5
37°	5172.4	5018.9	4574.6	3778.3	2687.7	2111.9	103.9	10.4	10.4	15.0	18.5
38°	5242.8	5111.2	4709.6	3946.8	2825.1	2238.8	102.7	9.2	9.2	13.8	18.5
39°	5270.5	5152.7	4811.2	4068.0	2926.6	2324.2	100.4	8.1	9.2	13.8	18.5
40°	5234.7	5145.8	4863.1	4146.4	3007.4	2386.5	96.9	6.9	8.1	13.8	18.5
42.5°	5087.0	5028.1	4851.5	4224.9	3076.6	2432.7	84.2	4.6	8.1	12.7	18.5
45°	4955.4	4890.8	4735.0	4143.0	2986.6	2341.5	63.5	2.3	8.1	12.7	18.5
47.5°	4700.4	4660.0	4537.6	3934.1	2789.3	2136.1	45.0	1.2	6.9	11.5	17.3
50°	4189.1	4151.0	3989.5	3415.9	2399.2	1806.1	32.3	1.2	5.8	11.5	17.3
52.5°	3731.0	3690.6	3458.6	2840.1	1843.0	1323.7	20.8	1.2	5.8	11.5	17.3
55°	3177.0	3106.6	2802.0	2155.7	1306.4	887.4	15.0	1.2	5.8	10.4	17.3
57.5°	2351.9	2249.2	1976.9	1470.2	752.4	481.2	8.1	1.2	5.8	10.4	17.3
60°	1599.5	1538.3	1237.1	775.5	320.8	203.1	3.5	1.2	5.8	10.4	16.2
62.5°	969.4	892.1	622.0	330.1	138.5	92.3	0.0	2.3	5.8	10.4	16.2
65°	275.8	244.7	162.7	75.0	39.2	30.0	0.0	2.3	5.8	10.4	16.2
67.5°	9.2	9.2	9.2	8.1	5.8	5.8	1.2	2.3	5.8	10.4	15.0
70°	3.5	3.5	3.5	2.3	2.3	1.2	1.2	2.3	5.8	9.2	15.0
72.5°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	2.3	4.6	8.1	13.8
75°	2.3	2.3	2.3	1.2	1.2	1.2	1.2	3.5	4.6	8.1	11.5
77.5°	2.3	2.3	2.3	1.2	1.2	1.2	1.2	3.5	4.6	6.9	11.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6	6.9	9.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.5	4.6	4.6	6.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.6	3.5	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	3.5	3.5	2.3
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°	53.1	53.1
2.5°	49.6	49.6
5°	46.2	46.2
7.5°	42.7	42.7
10°	39.2	39.2
12.5°	36.9	36.9
15°	33.5	34.6
17.5°	31.2	32.3
20°	30.0	31.2
21°	30.0	31.2
22°	28.9	30.0
23°	28.9	30.0
24°	27.7	28.9
25°	26.5	27.7
26°	26.5	27.7
27°	26.5	27.7
28°	25.4	27.7
29°	25.4	26.5
30°	25.4	26.5
31°	24.2	26.5
32°	24.2	26.5
33°	24.2	25.4
34°	23.1	25.4
35°	23.1	25.4
36°	23.1	25.4
37°	23.1	24.2
38°	23.1	25.4
39°	23.1	24.2
40°	23.1	24.2
42.5°	23.1	24.2
45°	23.1	24.2
47.5°	23.1	25.4
50°	23.1	25.4
52.5°	23.1	25.4
55°	23.1	25.4
57.5°	23.1	24.2
60°	23.1	24.2
62.5°	21.9	24.2
65°	21.9	23.1
67.5°	21.9	23.1
70°	20.8	21.9
72.5°	19.6	20.8
75°	17.3	19.6
77.5°	16.2	17.3
80°	13.8	15.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	11.5	11.5
85°	8.1	9.2
87.5°	4.6	4.6
90°	0.0	0.0

(END OF REPORT)