

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: P1317439

Luminaire Tested: P3SQAS20R409830D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R409830D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

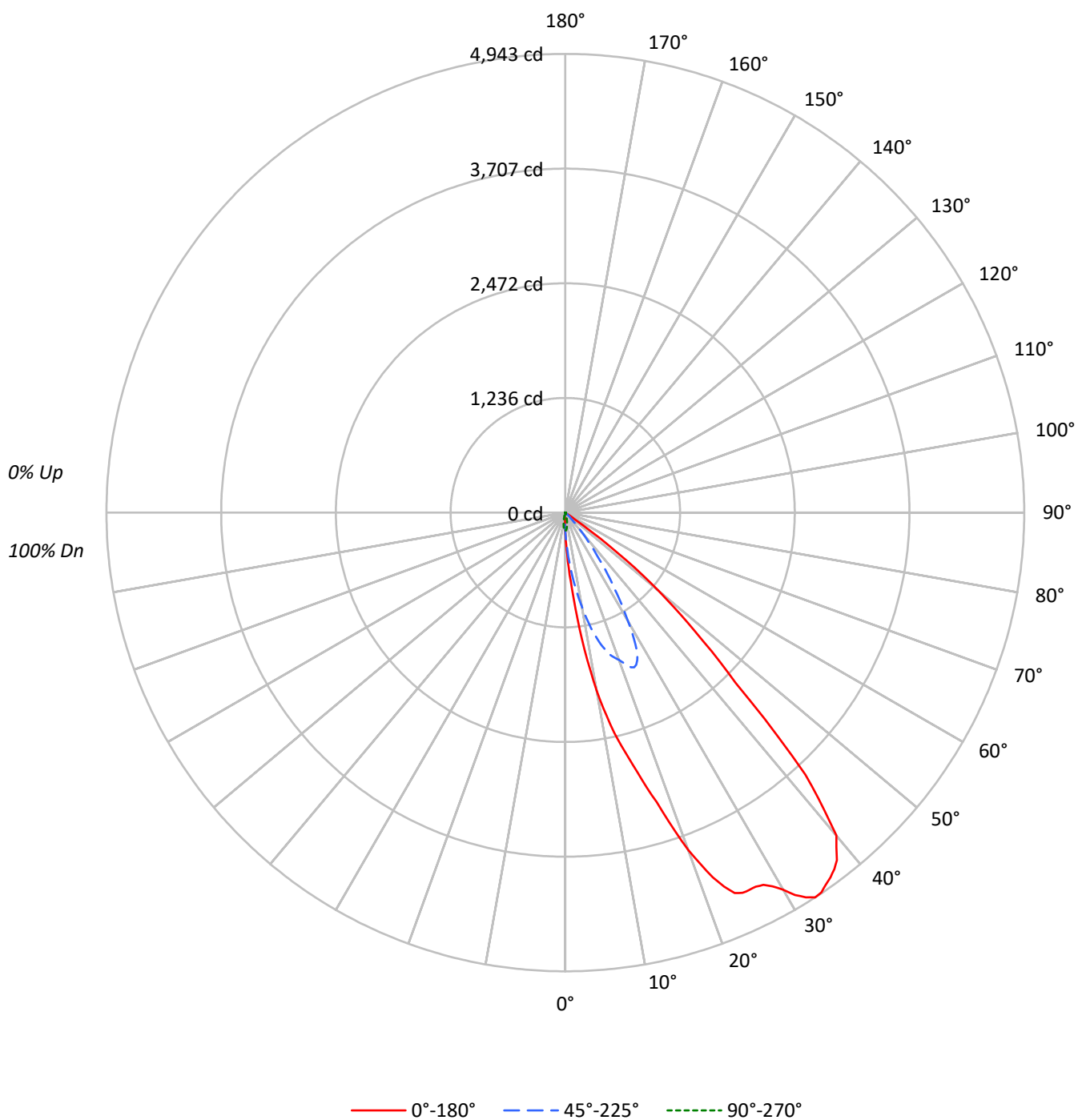
Lumens per Lamp: N/A
Luminaire Lumens: 1659.0 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33411	33411	33411	33411	33411
5°	141848	96675	29321	5290	2645
10°	340927	179811	18170	542	0
15°	501784	261242	7631	0	0
20°	709276	309699	2804	0	0
25°	859092	343758	0	0	0
30°	932779	268886	0	0	0
35°	1028561	157389	0	0	0
40°	1020866	63894	0	0	0
45°	632232	18608	0	0	0
50°	352034	402	0	0	0
55°	34410	0	0	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	755	1561	0	0
75°	0	998	2063	0	0
80°	0	1488	3075	0	0
85°	0	2964	6126	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 635203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	2.2
10°-20°	213.8	12.9
20°-30°	488.1	29.4
30°-40°	576.4	34.7
40°-50°	307.9	18.6
50°-60°	33.5	2.0
60°-70°	0.7	0.0
70°-80°	1.2	0.1
80°-90°	1.1	0.1
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°	738.3	44.5
0°-40°	1314.7	79.2
0°-60°	1656.1	99.8
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	194	194	194	194	194	
5°	820	559	170	31	15	115
15°	2814	1465	43	0	0	836
25°	4521	1809	0	0	0	2053
35°	4892	749	0	0	0	3022
45°	2596	76	0	0	0	2140
55°	115	0	0	0	0	321
65°	0	0	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	452.2	443.1	449.2	437.0	437.0	409.5	411.0	388.1	354.5	270.4	192.5
5°	820.5	857.1	828.1	789.9	768.5	741.0	704.3	666.1	559.2	337.7	169.6
7.5°	1373.5	1370.5	1321.6	1280.3	1233.0	1159.6	1090.9	997.7	796.0	386.5	140.6
10°	1949.5	1938.8	1883.8	1848.7	1758.5	1653.1	1512.6	1362.8	1028.2	403.4	103.9
12.5°	2429.3	2415.5	2369.7	2310.1	2210.8	2077.9	1926.6	1729.5	1272.7	385.0	67.2
15°	2814.3	2811.2	2766.9	2686.0	2582.1	2452.2	2281.1	2044.3	1465.2	337.7	42.8
17.5°	3271.1	3289.5	3210.0	3122.9	2973.2	2791.4	2582.1	2311.6	1607.3	279.6	27.5
20°	3870.0	3844.1	3770.7	3643.9	3500.3	3281.8	2985.4	2598.9	1689.8	217.0	15.3
21°	4053.4	4042.7	3966.3	3848.6	3689.7	3468.2	3162.6	2745.5	1728.0	194.0	12.2
22°	4239.8	4221.4	4161.8	4047.3	3897.5	3647.0	3310.8	2896.8	1776.9	169.6	7.6
23°	4378.8	4371.2	4325.3	4212.3	4058.0	3815.0	3471.3	3037.4	1810.5	146.7	4.6
24°	4485.8	4476.6	4430.8	4345.2	4212.3	3958.6	3633.2	3188.6	1824.2	126.8	1.5
25°	4520.9	4525.5	4498.0	4430.8	4319.2	4065.6	3753.9	3307.8	1809.0	108.5	0.0
26°	4522.4	4536.2	4516.3	4478.1	4386.4	4151.2	3867.0	3378.1	1769.2	91.7	0.0
27°	4522.4	4536.2	4516.3	4487.3	4397.1	4200.0	3928.1	3385.7	1708.1	77.9	0.0
28°	4543.8	4551.5	4525.5	4490.3	4392.6	4215.3	3944.9	3339.9	1610.3	67.2	0.0
29°	4603.4	4595.8	4553.0	4505.6	4388.0	4215.3	3894.5	3252.8	1488.1	56.5	0.0
30°	4690.5	4690.5	4623.3	4548.4	4409.4	4213.8	3813.5	3095.4	1352.1	45.8	0.0
31°	4808.1	4797.4	4730.2	4618.7	4455.2	4213.8	3694.3	2921.2	1226.9	39.7	0.0
32°	4887.6	4881.5	4817.3	4685.9	4530.1	4213.8	3566.0	2728.7	1090.9	32.1	0.0
33°	4942.6	4930.4	4857.0	4721.0	4575.9	4192.4	3422.4	2522.5	968.7	26.0	0.0
34°	4934.9	4931.9	4855.5	4714.9	4566.7	4103.8	3255.8	2293.3	855.6	21.4	0.0
35°	4892.2	4892.2	4799.0	4653.8	4501.0	3973.9	3090.8	2097.7	748.6	15.3	0.0
36°	4860.1	4847.9	4742.4	4580.5	4391.0	3769.2	2846.4	1900.6	634.1	12.2	0.0
37°	4812.7	4789.8	4672.2	4498.0	4235.2	3547.7	2589.7	1724.9	536.3	7.6	0.0
38°	4751.6	4716.5	4572.8	4401.7	4064.1	3292.5	2328.4	1527.8	446.1	4.6	0.0
39°	4640.1	4611.0	4462.8	4278.0	3859.3	3023.6	2074.8	1343.0	360.6	1.5	0.0
40°	4540.8	4490.3	4322.3	4109.9	3619.5	2719.6	1822.7	1161.2	284.2	0.0	0.0
42.5°	3828.8	3775.3	3737.1	3526.3	2883.0	1952.6	1272.7	744.1	148.2	0.0	0.0
45°	2595.8	2608.0	2488.9	2346.8	1902.2	1272.7	796.0	414.0	76.4	0.0	0.0
47.5°	1893.0	1860.9	1699.0	1430.1	1115.3	744.1	415.6	200.1	30.6	0.0	0.0
50°	1313.9	1252.8	1106.2	904.5	606.6	354.5	183.3	93.2	1.5	0.0	0.0
52.5°	713.5	670.7	568.4	412.5	252.1	136.0	73.3	38.2	0.0	0.0	0.0
55°	114.6	79.4	82.5	70.3	55.0	39.7	22.9	4.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.5	1.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.1	3.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.1	3.1
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):

	112.5°	135°	157.5°	180°
0°	194.0	194.0	194.0	194.0
2.5°	129.9	88.6	67.2	58.1
5°	74.9	30.6	16.8	15.3
7.5°	36.7	10.7	6.1	6.1
10°	15.3	3.1	0.0	0.0
12.5°	4.6	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.5	0.0	0.0	0.0
67.5°	1.5	0.0	0.0	0.0
70°	1.5	0.0	0.0	0.0
72.5°	1.5	0.0	0.0	0.0
75°	1.5	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0
80°	1.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.5	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)