

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: P1306184

Luminaire Tested: P3SQAS20R209024D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R209024D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

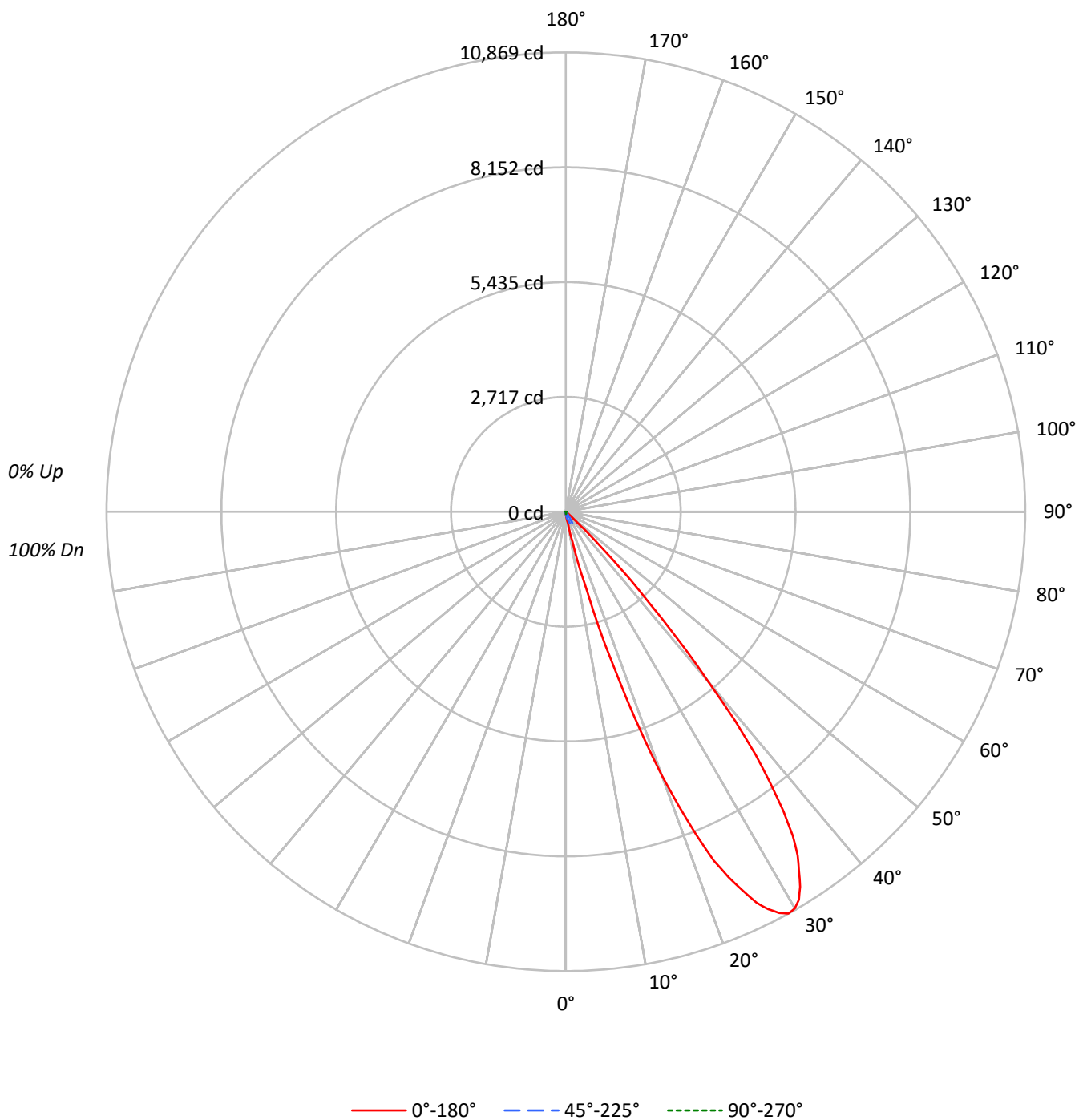
Lumens per Lamp: N/A
Luminaire Lumens: 1500.0 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60	55	51	50
8	71	59	52	47	69	59	52	47	57	51	47		56	51	46		55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9248	9248	9248	9248	9248
5°	20123	14176	8506	3873	2835
10°	50085	25043	5998	787	0
15°	352424	34305	3459	0	0
20°	1218049	57695	1375	0	0
25°	1877501	73711	570	0	0
30°	2155007	56955	0	0	0
35°	1968125	21634	0	0	0
40°	1179904	10072	0	0	0
45°	289958	4725	0	0	0
50°	31964	1206	0	0	0
55°	4474	0	450	0	0
60°	0	0	1033	0	0
65°	0	0	1223	0	0
70°	0	755	2266	0	0
75°	0	998	2994	0	0
80°	0	1488	4463	0	0
85°	0	2964	8892	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 309199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.4
10°-20°	117.2	7.8
20°-30°	592.6	39.5
30°-40°	641.1	42.7
40°-50°	135.4	9.0
50°-60°	4.1	0.3
60°-70°	1.0	0.1
70°-80°	1.4	0.1
80°-90°	1.3	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°	715.8	47.7
0°-40°	1356.9	90.5
0°-60°	1496.4	99.8
0°-90°	1500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	116	82	49	22	16	16
15°	1977	192	19	0	0	824
25°	9880	388	3	0	0	4466
35°	9361	103	0	0	0	5520
45°	1190	19	0	0	0	1310
55°	15	0	2	0	0	26
65°	0	0	3	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	73.1	71.6	73.1	71.6	73.1	73.1	73.1	71.6	71.6	71.6	71.6
5°	116.4	116.4	114.9	116.4	116.4	116.4	116.4	114.9	114.9	113.4	113.4
7.5°	183.5	183.5	182.0	182.0	183.5	185.0	179.0	182.0	182.0	182.0	180.5
10°	286.4	292.4	286.4	293.9	287.9	283.4	290.9	283.4	283.4	282.0	277.5
12.5°	722.0	705.6	695.2	669.8	695.2	675.8	680.3	675.8	660.9	641.5	629.5
15°	1976.6	1976.6	1918.5	1996.0	1939.3	1960.2	1852.8	1854.3	1799.1	1739.4	1706.6
17.5°	4132.3	4169.6	4130.8	4106.9	4056.2	3983.1	3953.3	3877.2	3777.2	3660.9	3647.5
20°	6646.0	6489.3	6562.4	6495.3	6453.5	6364.0	6264.1	6201.4	6113.4	5965.7	5747.9
21°	7436.6	7430.7	7429.2	7427.7	7366.5	7220.3	7129.3	7004.0	6880.2	6728.0	6546.0
22°	8233.3	8261.6	8273.5	8187.0	8061.7	7996.1	7933.4	7761.8	7566.4	7487.4	7271.0
23°	8964.2	8937.4	8859.8	8819.5	8722.6	8703.2	8516.7	8407.8	8216.8	8130.3	7873.7
24°	9462.5	9449.1	9413.3	9353.6	9276.0	9156.7	9044.8	8873.2	8716.6	8574.9	8336.2
25°	9880.2	9892.1	9826.5	9786.2	9702.7	9568.4	9431.2	9243.2	9097.0	8931.4	8655.4
26°	10293.4	10209.9	10157.7	10098.0	10007.0	9853.4	9720.6	9552.0	9374.5	9189.5	8919.5
27°	10548.5	10473.9	10394.9	10336.7	10232.3	10086.1	9944.4	9757.9	9559.5	9373.0	9095.5
28°	10749.9	10667.9	10590.3	10520.2	10400.8	10244.2	10074.1	9884.7	9678.8	9486.4	9202.9
29°	10869.3	10772.3	10688.8	10609.7	10500.8	10330.7	10159.2	9956.3	9757.9	9556.5	9267.1
30°	10836.5	10752.9	10672.4	10591.8	10481.4	10321.8	10151.7	9957.8	9757.9	9559.5	9265.6
31°	10708.2	10605.2	10547.0	10466.5	10371.0	10208.4	10062.2	9850.4	9669.9	9455.0	9161.2
32°	10462.0	10396.4	10318.8	10256.1	10163.7	9990.6	9847.4	9674.3	9461.0	9285.0	8976.2
33°	10127.8	10066.7	10027.9	9954.8	9865.3	9745.9	9574.4	9416.3	9176.1	8995.6	8686.8
34°	9808.6	9731.0	9634.1	9613.2	9535.6	9381.9	9226.8	9065.7	8850.9	8621.1	8309.3
35°	9361.1	9280.5	9191.0	9198.5	9106.0	8926.9	8768.8	8588.3	8383.9	8113.9	7818.5
36°	8762.8	8709.1	8695.7	8659.9	8554.0	8340.7	8190.0	7963.2	7791.7	7462.0	7208.4
37°	8033.4	8052.8	7955.8	7909.5	7785.7	7636.5	7551.5	7260.6	7060.7	6813.1	6469.9
38°	7296.4	7268.1	7153.2	7181.5	7011.5	6856.3	6616.1	6443.1	6219.3	5989.6	5715.1
39°	6376.0	6305.9	6168.6	6174.6	6046.3	5871.7	5639.0	5434.6	5300.4	5079.6	4817.0
40°	5248.2	5218.3	5170.6	5091.5	4922.9	4846.9	4639.5	4418.7	4305.3	3999.5	3871.2
42.5°	2912.0	2871.7	2791.2	2762.8	2673.3	2583.8	2463.0	2315.3	2243.7	2152.7	1949.8
45°	1190.5	1269.5	1250.1	1227.8	1159.1	1163.6	1077.1	1087.5	1008.5	954.8	917.5
47.5°	262.6	284.9	286.4	276.0	286.4	277.5	273.0	265.5	267.0	271.5	261.1
50°	119.3	117.9	120.8	119.3	117.9	116.4	114.9	110.4	113.4	110.4	107.4
52.5°	46.2	47.7	47.7	44.8	46.2	46.2	46.2	44.8	44.8	44.8	44.8
55°	14.9	14.9	14.9	13.4	13.4	14.9	14.9	14.9	14.9	14.9	13.4
57.5°	1.5	3.0	1.5	3.0	1.5	1.5	1.5	1.5	1.5	3.0	3.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	68.6	62.7	58.2	53.7	44.8	37.3	34.3	34.3
5°	105.9	82.0	61.2	49.2	34.3	22.4	17.9	16.4
7.5°	159.6	110.4	64.1	41.8	22.4	11.9	7.5	6.0
10°	231.2	143.2	67.1	34.3	13.4	4.5	0.0	0.0
12.5°	404.3	171.6	67.1	26.9	6.0	0.0	0.0	0.0
15°	926.4	192.4	64.1	19.4	1.5	0.0	0.0	0.0
17.5°	1924.4	241.7	56.7	13.4	0.0	0.0	0.0	0.0
20°	3073.1	314.8	44.8	7.5	0.0	0.0	0.0	0.0
21°	3546.0	340.1	40.3	6.0	0.0	0.0	0.0	0.0
22°	3886.1	364.0	35.8	4.5	0.0	0.0	0.0	0.0
23°	4260.6	378.9	31.3	3.0	0.0	0.0	0.0	0.0
24°	4536.6	387.9	26.9	3.0	0.0	0.0	0.0	0.0
25°	4708.1	387.9	23.9	3.0	0.0	0.0	0.0	0.0
26°	4809.6	378.9	20.9	1.5	0.0	0.0	0.0	0.0
27°	4833.4	364.0	17.9	1.5	0.0	0.0	0.0	0.0
28°	4803.6	344.6	14.9	0.0	0.0	0.0	0.0	0.0
29°	4709.6	316.3	13.4	0.0	0.0	0.0	0.0	0.0
30°	4608.2	286.4	10.4	0.0	0.0	0.0	0.0	0.0
31°	4435.1	246.1	9.0	0.0	0.0	0.0	0.0	0.0
32°	4235.2	204.4	7.5	0.0	0.0	0.0	0.0	0.0
33°	3968.2	161.1	6.0	0.0	0.0	0.0	0.0	0.0
34°	3574.4	126.8	6.0	0.0	0.0	0.0	0.0	0.0
35°	3220.8	102.9	4.5	0.0	0.0	0.0	0.0	0.0
36°	2758.3	82.0	4.5	0.0	0.0	0.0	0.0	0.0
37°	2363.0	68.6	4.5	0.0	0.0	0.0	0.0	0.0
38°	1978.1	58.2	3.0	0.0	0.0	0.0	0.0	0.0
39°	1605.2	50.7	3.0	0.0	0.0	0.0	0.0	0.0
40°	1280.0	44.8	3.0	0.0	0.0	0.0	0.0	0.0
42.5°	690.7	29.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	381.9	19.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	168.6	10.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	56.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13.4	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.5	3.0	1.5	0.0	0.0	0.0
65°	0.0	0.0	3.0	3.0	1.5	0.0	0.0	0.0
67.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
70°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
72.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
75°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
77.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
80°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
85°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)