

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: P1307140

Luminaire Tested: P3SQAS20R159027D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R159027D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

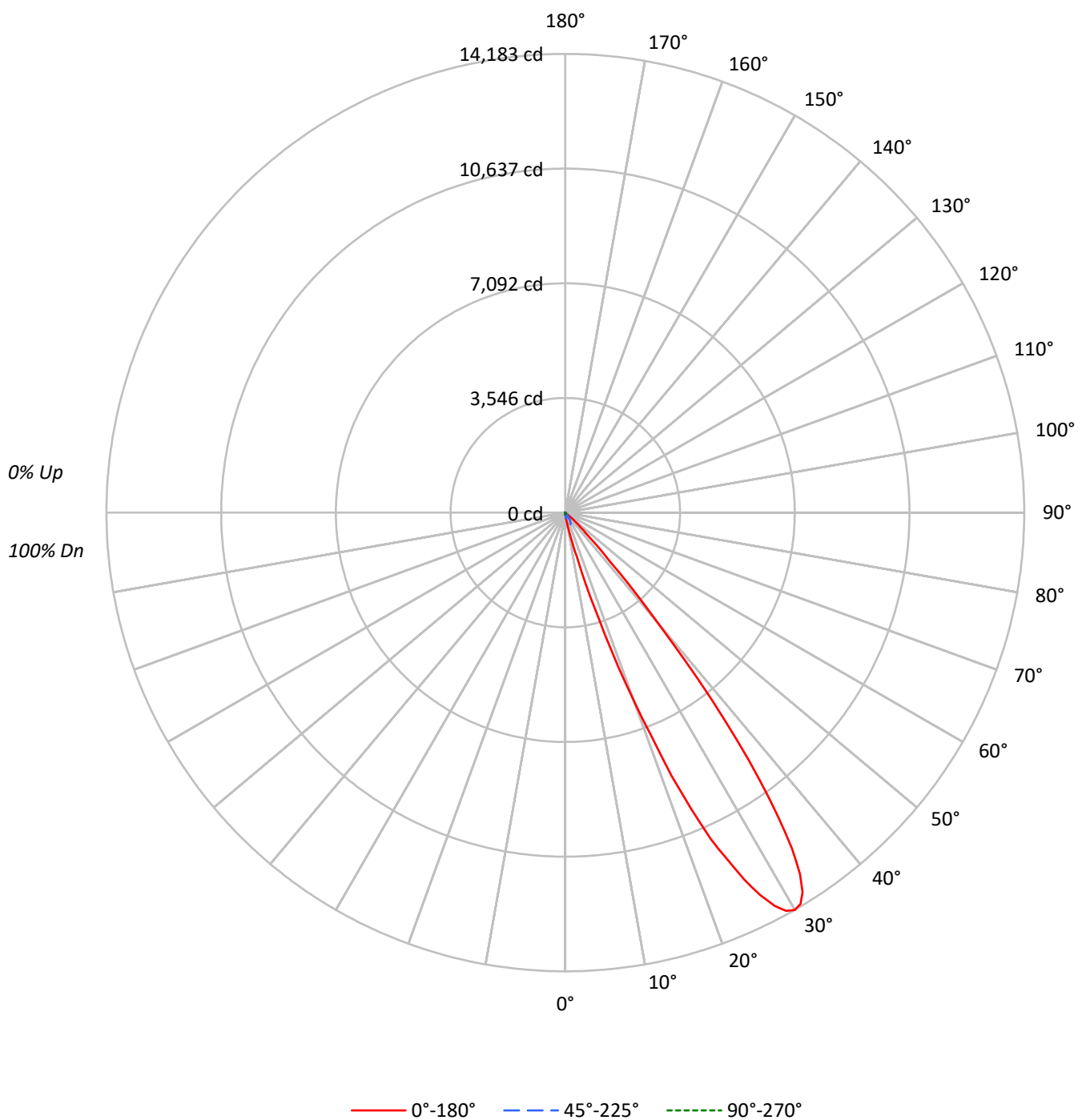
Lumens per Lamp: N/A
Luminaire Lumens: 1500.0 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9231	9231	9231	9231	9231
5°	26727	20175	7901	3267	2178
10°	69515	30062	5246	0	0
15°	277860	49210	2817	0	0
20°	1135245	72559	861	0	0
25°	2244120	71944	0	0	0
30°	2820590	56776	0	0	0
35°	2406612	34817	0	0	0
40°	990807	10994	0	0	0
45°	214381	4603	0	0	0
50°	27463	0	0	0	0
55°	2372	0	480	0	0
60°	0	0	1102	0	0
65°	0	0	1304	0	0
70°	0	806	2367	0	0
75°	0	1065	3127	0	0
80°	0	1587	4661	0	0
85°	0	3162	9287	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 224367 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.5
10°-20°	105.1	7.0
20°-30°	612.7	40.8
30°-40°	657.0	43.8
40°-50°	110.9	7.4
50°-60°	3.4	0.2
60°-70°	1.0	0.1
70°-80°	1.5	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°	725.0	48.3
0°-40°	1382.0	92.1
0°-60°	1496.2	99.7
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°	155	117	46	19	13	21
15°	1558	276	16	0	0	721
25°	11810	379	0	0	0	5343
35°	11447	166	0	0	0	6578
45°	880	19	0	0	0	1040
55°	8	0	2	0	0	20
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	97.8	99.4	100.9	100.9	100.9	100.9	99.4	99.4	99.4	99.4	97.8
5°	154.6	154.6	154.6	154.6	154.6	154.6	153.0	153.0	153.0	153.0	153.0
7.5°	220.8	217.7	219.2	214.5	217.7	216.1	214.5	217.7	217.7	209.8	209.8
10°	397.5	395.9	380.1	383.3	386.4	384.9	384.9	375.4	373.8	367.5	361.2
12.5°	766.6	783.9	796.6	796.6	766.6	777.6	757.1	761.9	765.0	755.5	722.4
15°	1558.4	1586.8	1556.8	1585.2	1574.2	1533.2	1487.4	1425.9	1449.6	1407.0	1392.8
17.5°	3413.3	3478.0	3451.2	3320.3	3362.9	3261.9	3198.8	3175.2	3108.9	2911.8	2829.7
20°	6194.2	6273.0	6198.9	6045.9	6094.8	5904.0	5855.1	5809.3	5515.9	5408.7	5064.8
21°	7364.6	7429.2	7457.6	7298.3	7200.5	7049.1	6922.9	6881.9	6703.7	6497.0	6143.7
22°	8777.8	8702.1	8531.8	8553.9	8408.8	8284.1	8109.1	7943.4	7744.7	7456.0	7164.2
23°	9948.2	9859.9	9779.5	9681.7	9525.5	9437.2	9186.4	9005.0	8746.3	8437.1	8156.4
24°	11038.2	10902.5	10852.0	10678.5	10634.4	10435.6	10232.1	9995.5	9683.2	9353.6	9042.8
25°	11809.5	11830.0	11785.8	11765.3	11539.8	11336.3	11134.4	10770.0	10503.4	10211.6	9733.7
26°	12636.0	12645.5	12623.4	12472.0	12268.5	12069.7	11809.5	11492.4	11106.0	10782.6	10350.4
27°	13268.5	13230.7	13199.1	13019.3	12852.1	12601.3	12364.7	11989.3	11612.3	11227.4	10725.9
28°	13773.3	13702.3	13662.8	13508.3	13312.7	13005.1	12714.9	12364.7	11987.7	11574.5	11031.9
29°	14077.7	14002.0	13957.8	13787.5	13561.9	13292.2	12998.8	12613.9	12208.5	11748.0	11202.2
30°	14183.4	14139.2	14069.8	13893.1	13659.7	13378.9	13077.7	12659.7	12235.4	11763.7	11186.4
31°	14114.0	14057.2	13990.9	13800.1	13547.7	13279.6	12929.4	12490.9	12044.5	11595.0	10983.0
32°	13837.9	13803.2	13722.8	13467.3	13262.2	12915.2	12569.8	12159.6	11672.3	11189.6	10635.9
33°	13320.6	13263.8	13194.4	12960.9	12699.1	12366.3	12022.4	11602.8	11118.6	10609.1	10000.3
34°	12531.9	12459.3	12372.6	12216.4	11882.0	11593.4	11195.9	10705.3	10304.7	9815.7	9265.2
35°	11446.7	11341.0	11236.9	11118.6	10743.2	10476.6	10208.5	9781.0	9394.6	8934.0	8311.0
36°	10229.0	10188.0	10102.8	9790.5	9669.0	9306.3	9090.2	8599.6	8287.3	7836.2	7322.0
37°	8852.0	8610.7	8733.7	8558.6	8192.7	8079.1	7822.0	7400.8	7063.3	6586.9	6214.7
38°	7375.6	7217.9	7304.6	7128.0	6937.1	6675.3	6479.7	6172.1	5793.5	5419.7	5066.4
39°	5845.6	5717.8	5812.5	5692.6	5402.4	5293.5	5120.0	4885.0	4580.6	4288.8	3954.4
40°	4407.1	4243.0	4369.2	4198.9	4066.4	3888.1	3799.8	3583.7	3394.4	3219.3	3006.4
42.5°	2012.7	1995.3	1966.9	1905.4	1891.2	1892.8	1784.0	1713.0	1616.8	1504.8	1436.9
45°	880.2	902.2	921.2	886.5	884.9	866.0	859.6	812.3	793.4	757.1	713.0
47.5°	433.8	441.7	436.9	446.4	438.5	425.9	422.7	416.4	397.5	395.9	375.4
50°	102.5	100.9	100.9	102.5	100.9	100.9	99.4	96.2	94.6	96.2	91.5
52.5°	33.1	34.7	33.1	31.5	33.1	34.7	33.1	33.1	33.1	33.1	33.1
55°	7.9	7.9	7.9	7.9	7.9	7.9	6.3	6.3	7.9	7.9	7.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	96.2	82.0	67.8	53.6	39.4	31.5	30.0	28.4
5°	145.1	116.7	77.3	45.7	26.8	18.9	14.2	12.6
7.5°	195.6	145.1	85.2	37.9	18.9	7.9	3.2	1.6
10°	280.8	171.9	88.3	30.0	9.5	0.0	0.0	0.0
12.5°	550.5	197.2	86.8	23.7	1.6	0.0	0.0	0.0
15°	914.9	276.0	80.4	15.8	0.0	0.0	0.0	0.0
17.5°	1498.5	356.5	69.4	11.0	0.0	0.0	0.0	0.0
20°	2323.4	395.9	53.6	4.7	0.0	0.0	0.0	0.0
21°	2724.1	399.1	47.3	3.2	0.0	0.0	0.0	0.0
22°	3071.1	399.1	41.0	1.6	0.0	0.0	0.0	0.0
23°	3392.8	394.3	36.3	0.0	0.0	0.0	0.0	0.0
24°	3657.8	388.0	33.1	0.0	0.0	0.0	0.0	0.0
25°	3856.6	378.6	30.0	0.0	0.0	0.0	0.0	0.0
26°	3948.1	365.9	25.2	0.0	0.0	0.0	0.0	0.0
27°	3993.8	348.6	22.1	0.0	0.0	0.0	0.0	0.0
28°	3962.3	329.7	18.9	0.0	0.0	0.0	0.0	0.0
29°	3883.4	309.2	14.2	0.0	0.0	0.0	0.0	0.0
30°	3780.9	285.5	11.0	0.0	0.0	0.0	0.0	0.0
31°	3631.0	261.8	7.9	0.0	0.0	0.0	0.0	0.0
32°	3426.0	238.2	6.3	0.0	0.0	0.0	0.0	0.0
33°	3151.5	212.9	3.2	0.0	0.0	0.0	0.0	0.0
34°	2812.4	187.7	1.6	0.0	0.0	0.0	0.0	0.0
35°	2432.2	165.6	0.0	0.0	0.0	0.0	0.0	0.0
36°	2105.7	142.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	1777.7	113.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	1489.0	89.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	1231.9	72.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	1020.5	48.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	564.7	33.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	342.3	18.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	198.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	75.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	0.0	3.2	4.7	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	4.7	1.6	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	1.6	3.2	4.7	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	4.7	1.6	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)