

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: P1318087

Luminaire Tested: P3SQAS17R159835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318087
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: P3SQAS17R159835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

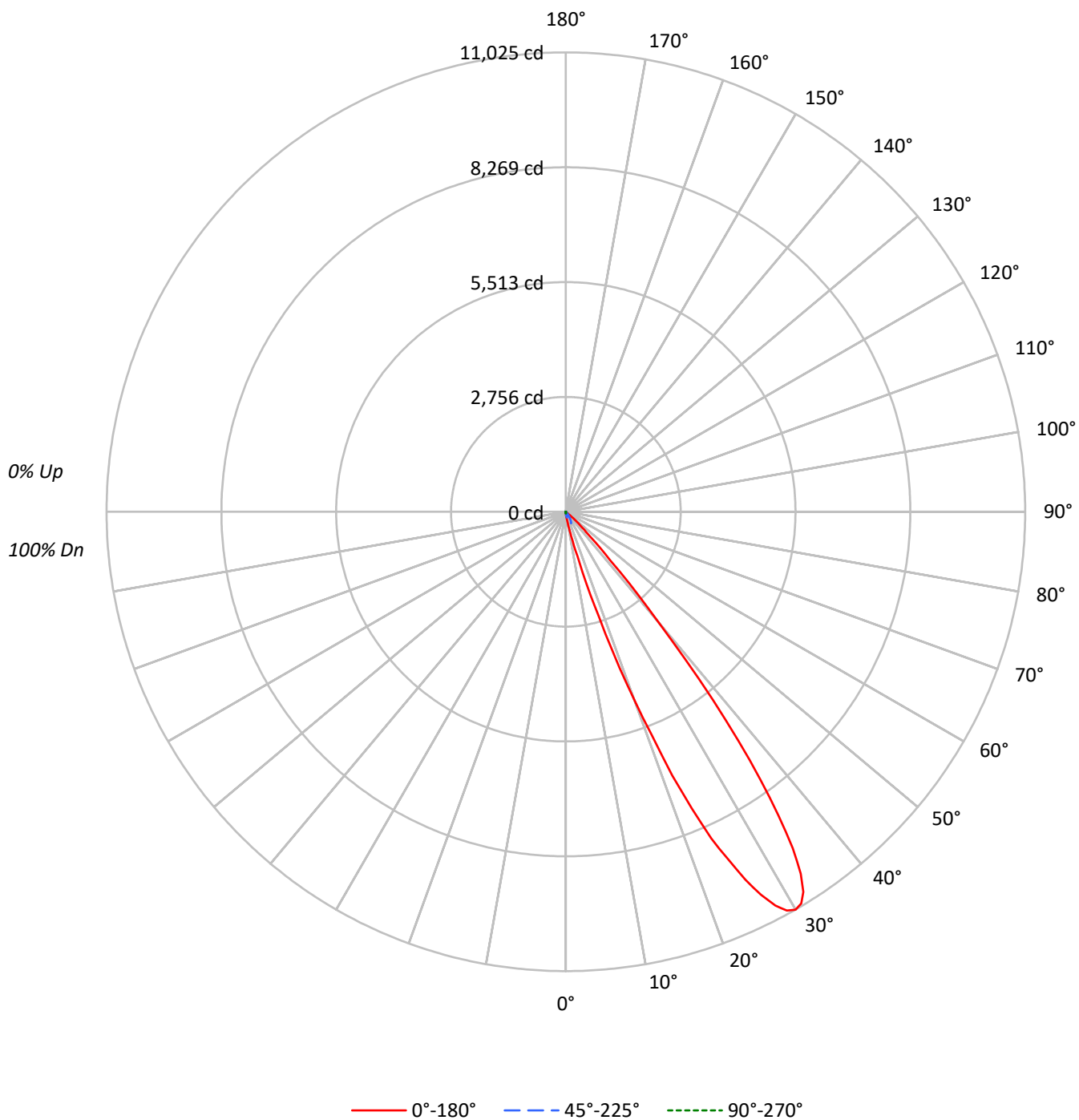
Lumens per Lamp: N/A
Luminaire Lumens: 1166.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7182	7182	7182	7182	7182
5°	20780	15680	6155	2541	1694
10°	54038	23364	4075	0	0
15°	215990	38263	2193	0	0
20°	882453	56412	678	0	0
25°	1744426	55925	0	0	0
30°	2192533	44128	0	0	0
35°	1870739	27059	0	0	0
40°	770191	8543	0	0	0
45°	166643	3580	0	0	0
50°	21354	0	0	0	0
55°	1832	0	360	0	0
60°	0	0	861	0	0
65°	0	0	1019	0	0
70°	0	604	1863	0	0
75°	0	799	2462	0	0
80°	0	1190	3670	0	0
85°	0	2371	7311	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 174389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.5
10°-20°	81.7	7.0
20°-30°	476.3	40.8
30°-40°	510.7	43.8
40°-50°	86.2	7.4
50°-60°	2.6	0.2
60°-70°	0.8	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	563.6	48.3
0°-40°	1074.3	92.1
0°-60°	1163.1	99.7
0°-90°	1166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	120	91	36	15	10	16
15°	1211	215	12	0	0	560
25°	9180	294	0	0	0	4153
35°	8898	129	0	0	0	5114
45°	684	15	0	0	0	808
55°	6	0	1	0	0	15
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	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°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
2.5°	76.0	77.2	78.5	78.5	78.5	78.5	77.2	77.2	77.2	77.2	76.0
5°	120.2	120.2	120.2	120.2	120.2	120.2	118.9	118.9	118.9	118.9	118.9
7.5°	171.7	169.2	170.4	166.8	169.2	168.0	166.8	169.2	169.2	163.1	163.1
10°	309.0	307.8	295.5	297.9	300.4	299.2	299.2	291.8	290.6	285.7	280.8
12.5°	595.9	609.4	619.2	619.2	595.9	604.5	588.5	592.2	594.7	587.3	561.6
15°	1211.4	1233.5	1210.2	1232.2	1223.7	1191.8	1156.2	1108.4	1126.8	1093.7	1082.7
17.5°	2653.3	2703.6	2682.7	2581.0	2614.1	2535.6	2486.6	2468.2	2416.7	2263.4	2199.6
20°	4814.9	4876.2	4818.6	4699.7	4737.7	4589.3	4551.3	4515.8	4287.7	4204.3	3937.0
21°	5724.7	5775.0	5797.1	5673.2	5597.2	5479.5	5381.4	5349.5	5211.0	5050.4	4775.7
22°	6823.3	6764.5	6632.0	6649.2	6536.4	6439.5	6303.4	6174.7	6020.2	5795.8	5569.0
23°	7733.1	7664.4	7601.9	7525.9	7404.5	7335.8	7140.9	6999.9	6798.8	6558.5	6340.2
24°	8580.3	8474.9	8435.7	8300.8	8266.4	8112.0	7953.8	7769.9	7527.1	7270.8	7029.3
25°	9179.9	9195.8	9161.5	9145.6	8970.2	8812.1	8655.1	8371.9	8164.7	7937.8	7566.3
26°	9822.4	9829.7	9812.6	9694.9	9536.7	9382.2	9179.9	8933.5	8633.1	8381.7	8045.7
27°	10314.1	10284.6	10260.1	10120.3	9990.4	9795.4	9611.5	9319.7	9026.6	8727.5	8337.6
28°	10706.4	10651.2	10620.6	10500.4	10348.4	10109.3	9883.7	9611.5	9318.5	8997.2	8575.4
29°	10943.1	10884.2	10849.9	10717.4	10542.1	10332.4	10104.4	9805.2	9490.1	9132.1	8707.8
30°	11025.2	10990.9	10936.9	10799.6	10618.1	10399.9	10165.7	9840.8	9511.0	9144.3	8695.6
31°	10971.3	10927.1	10875.6	10727.3	10531.1	10322.6	10050.4	9709.6	9362.6	9013.2	8537.4
32°	10756.7	10729.7	10667.2	10468.5	10309.2	10039.4	9770.9	9452.1	9073.2	8698.0	8267.7
33°	10354.5	10310.4	10256.4	10075.0	9871.4	9612.7	9345.4	9019.3	8642.9	8246.8	7773.6
34°	9741.5	9685.1	9617.6	9496.2	9236.3	9011.9	8702.9	8321.6	8010.2	7630.1	7202.2
35°	8897.9	8815.7	8734.8	8642.9	8351.0	8143.8	7935.4	7603.1	7302.7	6944.7	6460.4
36°	7951.3	7919.5	7853.2	7610.5	7516.1	7234.1	7066.1	6684.8	6442.0	6091.3	5691.6
37°	6880.9	6693.3	6789.0	6652.9	6368.4	6280.1	6080.3	5752.9	5490.5	5120.2	4830.9
38°	5733.3	5610.7	5678.1	5540.8	5392.4	5188.9	5036.9	4797.8	4503.5	4212.9	3938.3
39°	4544.0	4444.7	4518.2	4425.0	4199.4	4114.8	3980.0	3797.3	3560.6	3333.8	3073.9
40°	3425.8	3298.2	3396.3	3263.9	3160.9	3022.4	2953.7	2785.7	2638.6	2502.5	2337.0
42.5°	1564.5	1551.0	1529.0	1481.1	1470.1	1471.3	1386.7	1331.6	1256.8	1169.7	1117.0
45°	684.2	701.3	716.0	689.1	687.8	673.1	668.2	631.4	616.7	588.5	554.2
47.5°	337.2	343.3	339.6	347.0	340.9	331.1	328.6	323.7	309.0	307.8	291.8
50°	79.7	78.5	78.5	79.7	78.5	78.5	77.2	74.8	73.6	74.8	71.1
52.5°	25.7	27.0	25.7	24.5	25.7	27.0	25.7	25.7	25.7	25.7	25.7
55°	6.1	6.1	6.1	6.1	6.1	6.1	4.9	4.9	6.1	6.1	6.1
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°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
2.5°	74.8	63.8	52.7	41.7	30.7	24.5	23.3	22.1
5°	112.8	90.7	60.1	35.6	20.8	14.7	11.0	9.8
7.5°	152.0	112.8	66.2	29.4	14.7	6.1	2.5	1.2
10°	218.2	133.6	68.7	23.3	7.4	0.0	0.0	0.0
12.5°	427.9	153.3	67.4	18.4	1.2	0.0	0.0	0.0
15°	711.1	214.6	62.5	12.3	0.0	0.0	0.0	0.0
17.5°	1164.8	277.1	53.9	8.6	0.0	0.0	0.0	0.0
20°	1806.1	307.8	41.7	3.7	0.0	0.0	0.0	0.0
21°	2117.5	310.2	36.8	2.5	0.0	0.0	0.0	0.0
22°	2387.2	310.2	31.9	1.2	0.0	0.0	0.0	0.0
23°	2637.4	306.5	28.2	0.0	0.0	0.0	0.0	0.0
24°	2843.4	301.6	25.7	0.0	0.0	0.0	0.0	0.0
25°	2997.8	294.3	23.3	0.0	0.0	0.0	0.0	0.0
26°	3069.0	284.5	19.6	0.0	0.0	0.0	0.0	0.0
27°	3104.5	271.0	17.2	0.0	0.0	0.0	0.0	0.0
28°	3080.0	256.3	14.7	0.0	0.0	0.0	0.0	0.0
29°	3018.7	240.3	11.0	0.0	0.0	0.0	0.0	0.0
30°	2939.0	221.9	8.6	0.0	0.0	0.0	0.0	0.0
31°	2822.5	203.5	6.1	0.0	0.0	0.0	0.0	0.0
32°	2663.1	185.1	4.9	0.0	0.0	0.0	0.0	0.0
33°	2449.8	165.5	2.5	0.0	0.0	0.0	0.0	0.0
34°	2186.2	145.9	1.2	0.0	0.0	0.0	0.0	0.0
35°	1890.7	128.7	0.0	0.0	0.0	0.0	0.0	0.0
36°	1636.9	110.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	1381.8	88.3	0.0	0.0	0.0	0.0	0.0	0.0
38°	1157.4	69.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	957.6	56.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	793.3	38.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	438.9	25.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	266.1	14.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	154.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	58.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.9	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.5	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.5	2.5	1.2	0.0	0.0	0.0
67.5°	0.0	0.0	2.5	3.7	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.5	3.7	1.2	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	1.2	2.5	3.7	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.5	3.7	1.2	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)