

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: P1317227

Luminaire Tested: P3SQAS17R209830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317227
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: P3SQAS17R209830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

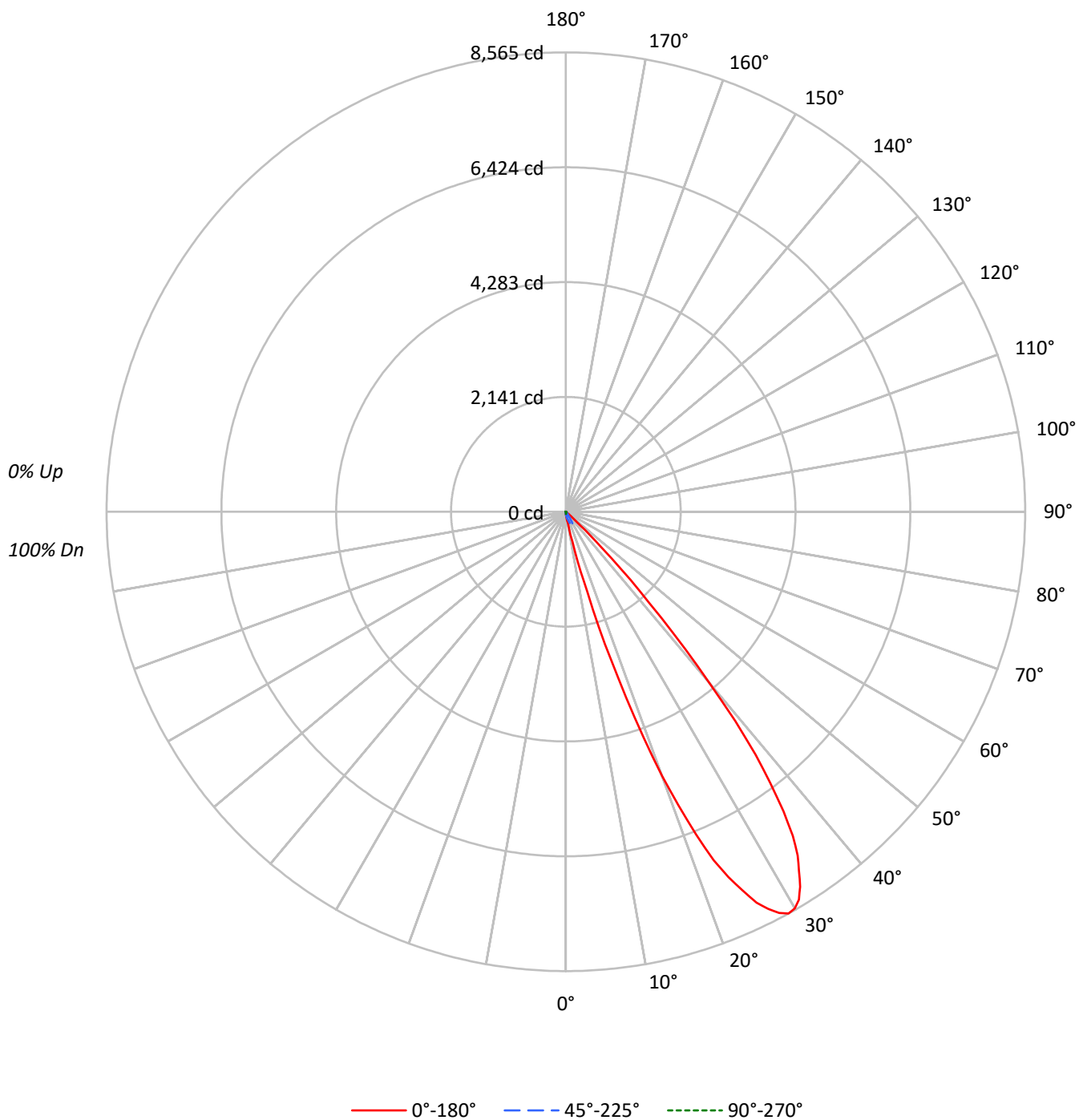
Lumens per Lamp: N/A
Luminaire Lumens: 1182.0 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	49		
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°	7285	7285	7285	7285	7285
5°	15853	11185	6708	3043	2230
10°	39470	19744	4722	612	0
15°	277717	27030	2728	0	0
20°	959814	45452	1081	0	0
25°	1479472	58072	456	0	0
30°	1698133	44884	0	0	0
35°	1550872	17051	0	0	0
40°	929768	7936	0	0	0
45°	228483	3726	0	0	0
50°	25186	938	0	0	0
55°	3543	0	360	0	0
60°	0	0	827	0	0
65°	0	0	978	0	0
70°	0	604	1762	0	0
75°	0	799	2329	0	0
80°	0	1190	3471	0	0
85°	0	2371	6916	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 243657 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.4
10°-20°	92.3	7.8
20°-30°	466.9	39.5
30°-40°	505.2	42.7
40°-50°	106.7	9.0
50°-60°	3.2	0.3
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°	564.1	47.7
0°-40°	1069.3	90.5
0°-60°	1179.2	99.8
0°-90°	1182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	92	65	39	18	13	13
15°	1558	152	15	0	0	649
25°	7786	306	2	0	0	3519
35°	7376	81	0	0	0	4350
45°	938	15	0	0	0	1032
55°	12	0	1	0	0	21
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°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
2.5°	57.6	56.4	57.6	56.4	57.6	57.6	57.6	56.4	56.4	56.4	56.4
5°	91.7	91.7	90.5	91.7	91.7	91.7	91.7	90.5	90.5	89.3	89.3
7.5°	144.6	144.6	143.4	143.4	144.6	145.8	141.1	143.4	143.4	143.4	142.2
10°	225.7	230.4	225.7	231.6	226.9	223.4	229.2	223.4	223.4	222.2	218.7
12.5°	569.0	556.0	547.8	527.8	547.8	532.5	536.0	532.5	520.8	505.5	496.1
15°	1557.6	1557.6	1511.7	1572.9	1528.2	1544.7	1460.0	1461.2	1417.7	1370.7	1344.8
17.5°	3256.2	3285.6	3255.1	3236.3	3196.3	3138.7	3115.2	3055.2	2976.5	2884.8	2874.2
20°	5237.0	5113.6	5171.2	5118.3	5085.4	5014.9	4936.1	4886.7	4817.4	4701.0	4529.4
21°	5860.1	5855.4	5854.2	5853.0	5804.8	5689.6	5617.9	5519.2	5421.6	5301.7	5158.3
22°	6487.8	6510.1	6519.5	6451.4	6352.6	6300.9	6251.5	6116.3	5962.3	5900.0	5729.6
23°	7063.8	7042.7	6981.5	6949.8	6873.4	6858.1	6711.2	6625.3	6474.9	6406.7	6204.5
24°	7456.5	7445.9	7417.7	7370.6	7309.5	7215.5	7127.3	6992.1	6868.7	6757.0	6568.9
25°	7785.6	7795.0	7743.3	7711.5	7645.7	7539.9	7431.8	7283.6	7168.4	7038.0	6820.5
26°	8111.2	8045.4	8004.3	7957.2	7885.5	7764.4	7659.8	7527.0	7387.1	7241.3	7028.6
27°	8312.2	8253.5	8191.2	8145.3	8063.0	7947.8	7836.2	7689.2	7532.9	7385.9	7167.3
28°	8470.9	8406.3	8345.2	8289.9	8195.9	8072.4	7938.4	7789.1	7626.9	7475.3	7251.9
29°	8565.0	8488.6	8422.7	8360.4	8274.6	8140.6	8005.4	7845.6	7689.2	7530.5	7302.5
30°	8539.1	8473.3	8409.8	8346.3	8259.3	8133.6	7999.6	7846.7	7689.2	7532.9	7301.3
31°	8438.0	8356.9	8311.1	8247.6	8172.4	8044.2	7929.0	7762.1	7619.9	7450.6	7219.0
32°	8244.1	8192.3	8131.2	8081.8	8009.0	7872.6	7759.7	7623.4	7455.3	7316.6	7073.2
33°	7980.7	7932.5	7902.0	7844.4	7773.8	7679.8	7544.6	7420.0	7230.8	7088.5	6845.2
34°	7729.2	7668.1	7591.6	7575.2	7514.1	7393.0	7270.7	7143.8	6974.5	6793.4	6547.8
35°	7376.5	7313.0	7242.5	7248.4	7175.5	7034.4	6909.8	6767.6	6606.5	6393.8	6161.0
36°	6905.1	6862.8	6852.2	6824.0	6740.5	6572.4	6453.7	6275.0	6139.8	5880.1	5680.2
37°	6330.3	6345.6	6269.2	6232.7	6135.1	6017.6	5950.6	5721.4	5563.8	5368.7	5098.3
38°	5749.6	5727.2	5636.7	5659.1	5525.0	5402.8	5213.5	5077.2	4900.8	4719.8	4503.5
39°	5024.3	4969.0	4860.9	4865.6	4764.5	4626.9	4443.5	4282.5	4176.7	4002.7	3795.8
40°	4135.6	4112.0	4074.4	4012.1	3879.3	3819.3	3655.9	3482.0	3392.6	3151.6	3050.5
42.5°	2294.7	2262.9	2199.4	2177.1	2106.6	2036.0	1940.8	1824.4	1768.0	1696.3	1536.4
45°	938.1	1000.4	985.1	967.5	913.4	916.9	848.7	857.0	794.7	752.3	723.0
47.5°	206.9	224.5	225.7	217.5	225.7	218.7	215.1	209.2	210.4	213.9	205.7
50°	94.0	92.9	95.2	94.0	92.9	91.7	90.5	87.0	89.3	87.0	84.6
52.5°	36.4	37.6	37.6	35.3	36.4	36.4	36.4	35.3	35.3	35.3	35.3
55°	11.8	11.8	11.8	10.6	10.6	11.8	11.8	11.8	11.8	11.8	10.6
57.5°	1.2	2.4	1.2	2.4	1.2	1.2	1.2	1.2	1.2	2.4	2.4
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°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
2.5°	54.1	49.4	45.8	42.3	35.3	29.4	27.0	27.0
5°	83.5	64.7	48.2	38.8	27.0	17.6	14.1	12.9
7.5°	125.8	87.0	50.5	32.9	17.6	9.4	5.9	4.7
10°	182.2	112.9	52.9	27.0	10.6	3.5	0.0	0.0
12.5°	318.6	135.2	52.9	21.2	4.7	0.0	0.0	0.0
15°	730.0	151.6	50.5	15.3	1.2	0.0	0.0	0.0
17.5°	1516.4	190.4	44.7	10.6	0.0	0.0	0.0	0.0
20°	2421.6	248.0	35.3	5.9	0.0	0.0	0.0	0.0
21°	2794.3	268.0	31.7	4.7	0.0	0.0	0.0	0.0
22°	3062.3	286.8	28.2	3.5	0.0	0.0	0.0	0.0
23°	3357.3	298.6	24.7	2.4	0.0	0.0	0.0	0.0
24°	3574.8	305.6	21.2	2.4	0.0	0.0	0.0	0.0
25°	3710.0	305.6	18.8	2.4	0.0	0.0	0.0	0.0
26°	3789.9	298.6	16.5	1.2	0.0	0.0	0.0	0.0
27°	3808.8	286.8	14.1	1.2	0.0	0.0	0.0	0.0
28°	3785.2	271.5	11.8	0.0	0.0	0.0	0.0	0.0
29°	3711.2	249.2	10.6	0.0	0.0	0.0	0.0	0.0
30°	3631.2	225.7	8.2	0.0	0.0	0.0	0.0	0.0
31°	3494.9	194.0	7.1	0.0	0.0	0.0	0.0	0.0
32°	3337.4	161.0	5.9	0.0	0.0	0.0	0.0	0.0
33°	3126.9	127.0	4.7	0.0	0.0	0.0	0.0	0.0
34°	2816.6	99.9	4.7	0.0	0.0	0.0	0.0	0.0
35°	2538.0	81.1	3.5	0.0	0.0	0.0	0.0	0.0
36°	2173.6	64.7	3.5	0.0	0.0	0.0	0.0	0.0
37°	1862.1	54.1	3.5	0.0	0.0	0.0	0.0	0.0
38°	1558.8	45.8	2.4	0.0	0.0	0.0	0.0	0.0
39°	1264.9	40.0	2.4	0.0	0.0	0.0	0.0	0.0
40°	1008.6	35.3	2.4	0.0	0.0	0.0	0.0	0.0
42.5°	544.3	23.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	300.9	15.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	132.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	44.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	2.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.4	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.4	2.4	1.2	0.0	0.0	0.0
67.5°	0.0	1.2	2.4	3.5	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.4	3.5	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.4	3.5	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.4	3.5	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.4	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.4	3.5	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	2.4	3.5	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.4	3.5	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.4	3.5	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)