

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: P1315302

Luminaire Tested: P3SQAS13R159740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315302
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: P3SQAS13R159740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

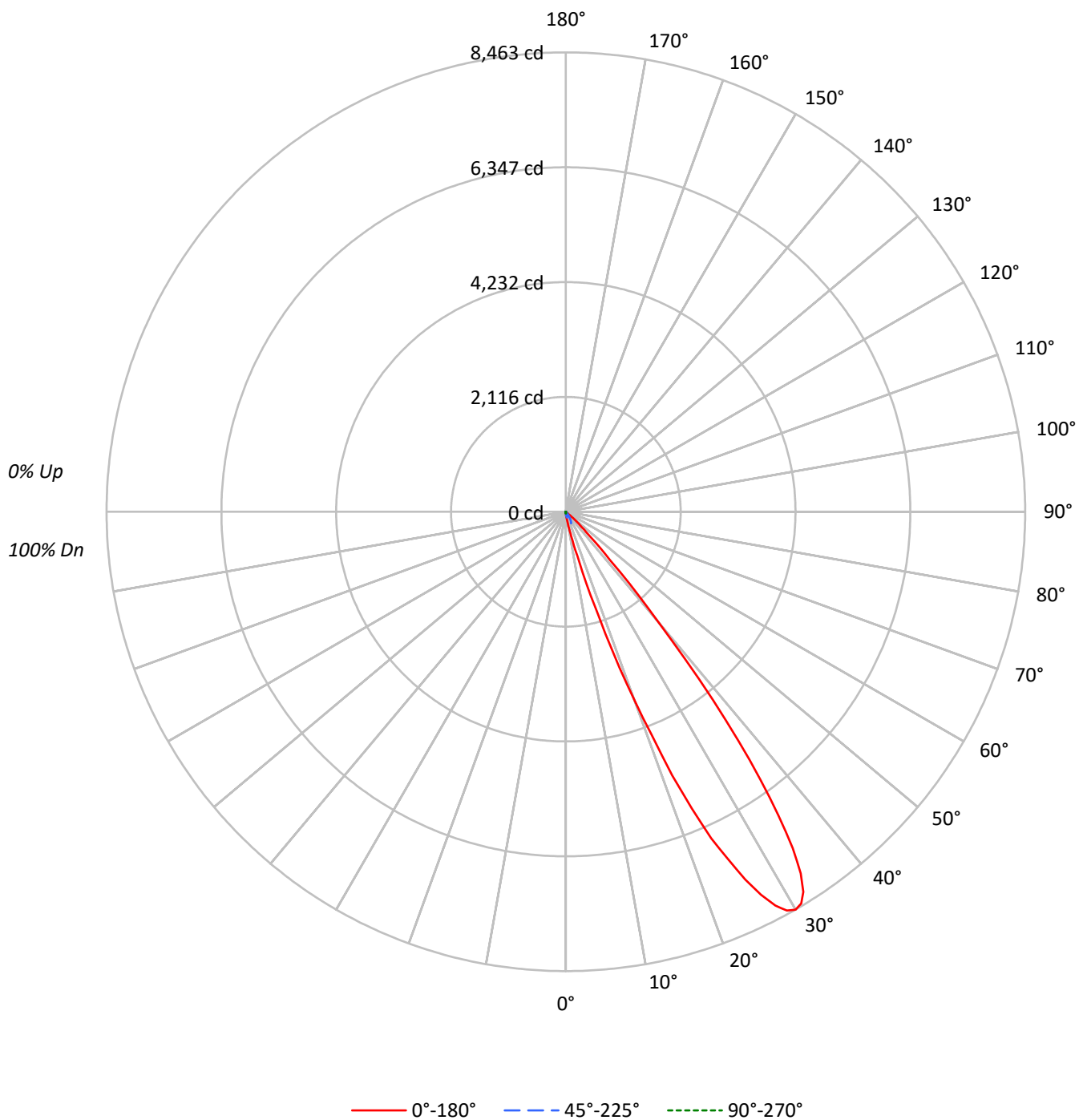
Lumens per Lamp: N/A
Luminaire Lumens: 895.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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				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	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	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°	5511	5511	5511	5511	5511
5°	15940	12032	4720	1954	1297
10°	41481	17943	3130	0	0
15°	165781	29366	1676	0	0
20°	677368	43290	513	0	0
25°	1338985	42927	0	0	0
30°	1682940	33867	0	0	0
35°	1435952	20772	0	0	0
40°	591166	6565	0	0	0
45°	127917	2752	0	0	0
50°	16397	0	0	0	0
55°	1411	0	270	0	0
60°	0	0	654	0	0
65°	0	0	774	0	0
70°	0	453	1410	0	0
75°	0	599	1863	0	0
80°	0	893	2777	0	0
85°	0	1778	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 133860 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.5
10°-20°	62.7	7.0
20°-30°	365.6	40.8
30°-40°	392.0	43.8
40°-50°	66.2	7.4
50°-60°	2.0	0.2
60°-70°	0.6	0.1
70°-80°	0.9	0.1
80°-90°	0.8	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°	432.6	48.3
0°-40°	824.6	92.1
0°-60°	892.8	99.8
0°-90°	895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	92	70	27	11	8	13
15°	930	165	9	0	0	430
25°	7046	226	0	0	0	3188
35°	6830	99	0	0	0	3925
45°	525	11	0	0	0	620
55°	5	0	1	0	0	12
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
2.5°	58.4	59.3	60.2	60.2	60.2	60.2	59.3	59.3	59.3	59.3	58.4
5°	92.2	92.2	92.2	92.2	92.2	92.2	91.3	91.3	91.3	91.3	91.3
7.5°	131.8	129.9	130.8	128.0	129.9	128.9	128.0	129.9	129.9	125.2	125.2
10°	237.2	236.2	226.8	228.7	230.6	229.6	229.6	224.0	223.1	219.3	215.5
12.5°	457.4	467.7	475.3	475.3	457.4	464.0	451.7	454.6	456.5	450.8	431.0
15°	929.8	946.8	928.9	945.8	939.3	914.8	887.5	850.8	864.9	839.5	831.0
17.5°	2036.6	2075.2	2059.2	1981.1	2006.5	1946.3	1908.6	1894.5	1855.0	1737.3	1688.4
20°	3695.9	3742.9	3698.7	3607.4	3636.6	3522.7	3493.5	3466.2	3291.2	3227.2	3022.0
21°	4394.2	4432.8	4449.7	4354.7	4296.3	4206.0	4130.7	4106.2	3999.8	3876.6	3665.7
22°	5237.4	5192.3	5090.6	5103.8	5017.2	4942.9	4838.4	4739.6	4621.0	4448.8	4274.7
23°	5935.8	5883.1	5835.1	5776.7	5683.6	5630.8	5481.2	5373.0	5218.6	5034.2	4866.6
24°	6586.1	6505.2	6475.0	6371.5	6345.2	6226.6	6105.2	5964.0	5777.7	5581.0	5395.6
25°	7046.3	7058.6	7032.2	7020.0	6885.4	6764.0	6643.5	6426.1	6267.1	6092.9	5807.8
26°	7539.5	7545.1	7532.0	7441.6	7320.2	7201.6	7046.3	6857.2	6626.6	6433.6	6175.8
27°	7916.9	7894.3	7875.5	7768.2	7668.4	7518.8	7377.6	7153.6	6928.7	6699.0	6399.8
28°	8218.0	8175.7	8152.2	8059.9	7943.2	7759.7	7586.5	7377.6	7152.7	6906.1	6582.3
29°	8399.7	8354.5	8328.2	8226.5	8091.9	7931.0	7755.9	7526.3	7284.4	7009.6	6684.0
30°	8462.7	8436.4	8395.0	8289.6	8150.3	7982.8	7803.0	7553.6	7300.4	7019.0	6674.6
31°	8421.3	8387.4	8347.9	8234.0	8083.5	7923.5	7714.5	7452.9	7186.6	6918.3	6553.2
32°	8256.6	8235.9	8187.9	8035.5	7913.1	7706.1	7500.0	7255.3	6964.4	6676.5	6346.1
33°	7947.9	7914.1	7872.6	7733.4	7577.1	7378.5	7173.4	6923.0	6634.1	6330.1	5966.8
34°	7477.4	7434.1	7382.3	7289.1	7089.6	6917.4	6680.2	6387.5	6148.5	5856.7	5528.3
35°	6829.9	6766.8	6704.7	6634.1	6410.1	6251.1	6091.1	5836.0	5605.4	5330.6	4958.9
36°	6103.3	6078.8	6028.0	5841.7	5769.2	5552.7	5423.8	5131.1	4944.8	4675.6	4368.8
37°	5281.7	5137.7	5211.1	5106.6	4888.3	4820.5	4667.1	4415.8	4214.4	3930.2	3708.1
38°	4400.8	4306.7	4358.4	4253.0	4139.1	3982.9	3866.2	3682.7	3456.8	3233.8	3022.9
39°	3487.9	3411.6	3468.1	3396.6	3223.4	3158.5	3054.9	2914.7	2733.1	2559.0	2359.4
40°	2629.5	2531.7	2607.0	2505.3	2426.3	2319.9	2267.2	2138.3	2025.3	1920.9	1793.8
42.5°	1200.9	1190.5	1173.6	1136.9	1128.4	1129.4	1064.4	1022.1	964.7	897.8	857.4
45°	525.2	538.3	549.6	528.9	528.0	516.7	512.9	484.7	473.4	451.7	425.4
47.5°	258.8	263.5	260.7	266.3	261.6	254.1	252.2	248.5	237.2	236.2	224.0
50°	61.2	60.2	60.2	61.2	60.2	60.2	59.3	57.4	56.5	57.4	54.6
52.5°	19.8	20.7	19.8	18.8	19.8	20.7	19.8	19.8	19.8	19.8	19.8
55°	4.7	4.7	4.7	4.7	4.7	4.7	3.8	3.8	4.7	4.7	4.7
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°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
2.5°	57.4	48.9	40.5	32.0	23.5	18.8	17.9	16.9
5°	86.6	69.6	46.1	27.3	16.0	11.3	8.5	7.5
7.5°	116.7	86.6	50.8	22.6	11.3	4.7	1.9	0.9
10°	167.5	102.6	52.7	17.9	5.6	0.0	0.0	0.0
12.5°	328.5	117.6	51.8	14.1	0.9	0.0	0.0	0.0
15°	545.9	164.7	48.0	9.4	0.0	0.0	0.0	0.0
17.5°	894.1	212.7	41.4	6.6	0.0	0.0	0.0	0.0
20°	1386.3	236.2	32.0	2.8	0.0	0.0	0.0	0.0
21°	1625.4	238.1	28.2	1.9	0.0	0.0	0.0	0.0
22°	1832.4	238.1	24.5	0.9	0.0	0.0	0.0	0.0
23°	2024.4	235.3	21.6	0.0	0.0	0.0	0.0	0.0
24°	2182.5	231.5	19.8	0.0	0.0	0.0	0.0	0.0
25°	2301.1	225.9	17.9	0.0	0.0	0.0	0.0	0.0
26°	2355.7	218.3	15.1	0.0	0.0	0.0	0.0	0.0
27°	2383.0	208.0	13.2	0.0	0.0	0.0	0.0	0.0
28°	2364.1	196.7	11.3	0.0	0.0	0.0	0.0	0.0
29°	2317.1	184.5	8.5	0.0	0.0	0.0	0.0	0.0
30°	2255.9	170.3	6.6	0.0	0.0	0.0	0.0	0.0
31°	2166.5	156.2	4.7	0.0	0.0	0.0	0.0	0.0
32°	2044.2	142.1	3.8	0.0	0.0	0.0	0.0	0.0
33°	1880.4	127.1	1.9	0.0	0.0	0.0	0.0	0.0
34°	1678.1	112.0	0.9	0.0	0.0	0.0	0.0	0.0
35°	1451.2	98.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	1256.4	84.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	1060.7	67.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	888.4	53.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	735.0	43.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	608.9	29.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	336.9	19.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	204.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	118.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	45.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.9	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.9	1.9	0.9	0.0	0.0	0.0
67.5°	0.0	0.0	1.9	2.8	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.9	2.8	0.9	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	0.9	1.9	2.8	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.9	2.8	0.9	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)