

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: P1307787

Luminaire Tested: P3SQAS09R159030DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307787
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: P3SQAS09R159030DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

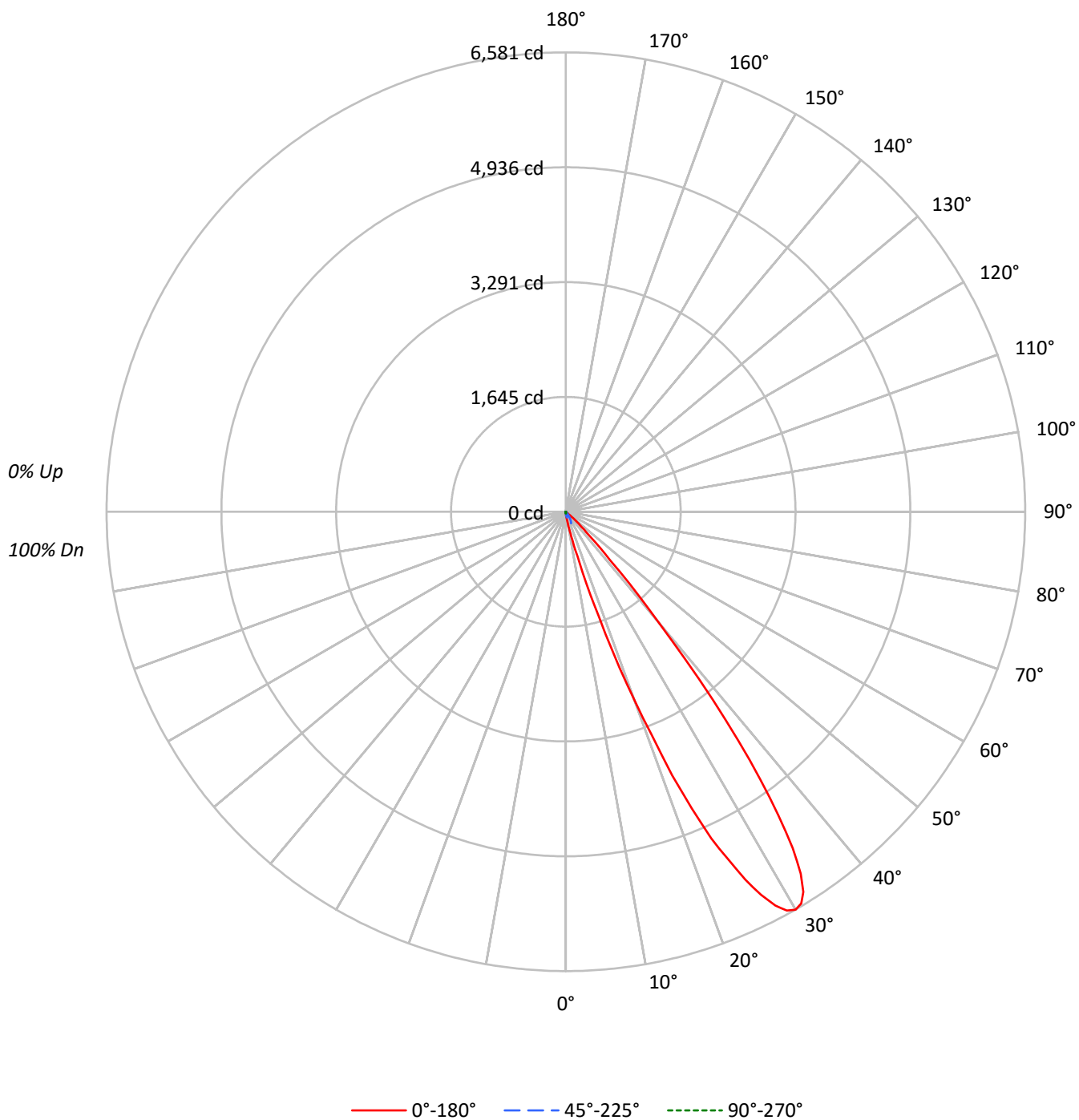
Lumens per Lamp: N/A
Luminaire Lumens: 696.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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°	4288	4288	4288	4288	4288
5°	12396	9370	3665	1521	1020
10°	32248	13955	2431	0	0
15°	128927	22840	1302	0	0
20°	526752	33668	403	0	0
25°	1041270	33388	0	0	0
30°	1308754	26350	0	0	0
35°	1116674	16147	0	0	0
40°	459736	5103	0	0	0
45°	99470	2143	0	0	0
50°	12754	0	0	0	0
55°	1111	0	210	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	352	1108	0	0
75°	0	466	1464	0	0
80°	0	694	2182	0	0
85°	0	1383	4347	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 104097 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.5
10°-20°	48.8	7.0
20°-30°	284.3	40.8
30°-40°	304.8	43.8
40°-50°	51.4	7.4
50°-60°	1.6	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	336.4	48.3
0°-40°	641.3	92.1
0°-60°	694.3	99.8
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	72	54	21	9	6	10
15°	723	128	7	0	0	334
25°	5480	176	0	0	0	2479
35°	5311	77	0	0	0	3052
45°	408	9	0	0	0	482
55°	4	0	1	0	0	9
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	45.4	46.1	46.8	46.8	46.8	46.8	46.1	46.1	46.1	46.1	45.4
5°	71.7	71.7	71.7	71.7	71.7	71.7	71.0	71.0	71.0	71.0	71.0
7.5°	102.5	101.0	101.7	99.5	101.0	100.3	99.5	101.0	101.0	97.3	97.3
10°	184.4	183.7	176.4	177.8	179.3	178.6	178.6	174.2	173.5	170.5	167.6
12.5°	355.7	363.7	369.6	369.6	355.7	360.8	351.3	353.5	355.0	350.6	335.2
15°	723.1	736.3	722.4	735.5	730.4	711.4	690.2	661.6	672.6	652.8	646.3
17.5°	1583.8	1613.8	1601.4	1540.6	1560.4	1513.5	1484.3	1473.3	1442.5	1351.1	1313.0
20°	2874.1	2910.7	2876.3	2805.3	2828.0	2739.4	2716.7	2695.5	2559.4	2509.6	2350.1
21°	3417.2	3447.2	3460.3	3386.4	3341.0	3270.8	3212.2	3193.2	3110.5	3014.6	2850.7
22°	4072.9	4037.8	3958.7	3969.0	3901.7	3843.8	3762.6	3685.8	3593.5	3459.6	3324.2
23°	4616.0	4575.0	4537.7	4492.3	4419.8	4378.8	4262.5	4178.3	4058.3	3914.8	3784.6
24°	5121.7	5058.8	5035.3	4954.8	4934.3	4842.1	4747.7	4637.9	4493.0	4340.1	4195.9
25°	5479.6	5489.1	5468.6	5459.1	5354.4	5260.0	5166.4	4997.3	4873.6	4738.2	4516.4
26°	5863.1	5867.5	5857.2	5787.0	5692.6	5600.4	5479.6	5332.5	5153.2	5003.1	4802.6
27°	6156.6	6139.0	6124.4	6041.0	5963.4	5847.0	5737.2	5563.0	5388.1	5209.5	4976.8
28°	6390.8	6357.9	6339.6	6267.8	6177.1	6034.4	5899.7	5737.2	5562.3	5370.5	5118.8
29°	6532.0	6496.9	6476.4	6397.4	6292.7	6167.6	6031.4	5852.9	5664.8	5451.1	5197.8
30°	6581.1	6560.6	6528.4	6446.4	6338.1	6207.8	6068.0	5874.1	5677.2	5458.4	5190.5
31°	6548.9	6522.5	6491.8	6403.2	6286.1	6161.7	5999.2	5795.8	5588.6	5380.1	5096.1
32°	6420.8	6404.7	6367.4	6248.8	6153.7	5992.6	5832.4	5642.1	5415.9	5192.0	4935.1
33°	6180.7	6154.4	6122.2	6013.9	5892.4	5738.0	5578.4	5383.7	5159.0	4922.6	4640.1
34°	5814.8	5781.1	5740.9	5668.4	5513.3	5379.3	5194.9	4967.3	4781.4	4554.5	4299.1
35°	5311.3	5262.2	5213.9	5159.0	4984.8	4861.2	4736.7	4538.4	4359.1	4145.4	3856.3
36°	4746.3	4727.2	4687.7	4542.8	4486.4	4318.1	4217.8	3990.2	3845.3	3636.0	3397.4
37°	4107.3	3995.3	4052.4	3971.2	3801.4	3748.7	3629.4	3434.0	3277.4	3056.3	2883.6
38°	3422.3	3349.1	3389.3	3307.4	3218.8	3097.3	3006.6	2863.9	2688.2	2514.7	2350.8
39°	2712.4	2653.1	2697.0	2641.4	2506.7	2456.2	2375.7	2266.6	2125.4	1990.0	1834.8
40°	2044.9	1968.8	2027.3	1948.3	1886.8	1804.1	1763.1	1662.8	1575.0	1493.8	1395.0
42.5°	933.9	925.8	912.7	884.1	877.5	878.3	827.8	794.8	750.2	698.2	666.7
45°	408.4	418.6	427.4	411.3	410.6	401.8	398.9	376.9	368.1	351.3	330.8
47.5°	201.3	204.9	202.7	207.1	203.5	197.6	196.1	193.2	184.4	183.7	174.2
50°	47.6	46.8	46.8	47.6	46.8	46.8	46.1	44.6	43.9	44.6	42.4
52.5°	15.4	16.1	15.4	14.6	15.4	16.1	15.4	15.4	15.4	15.4	15.4
55°	3.7	3.7	3.7	3.7	3.7	3.7	2.9	2.9	3.7	3.7	3.7
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°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	44.6	38.1	31.5	24.9	18.3	14.6	13.9	13.2
5°	67.3	54.2	35.9	21.2	12.4	8.8	6.6	5.9
7.5°	90.8	67.3	39.5	17.6	8.8	3.7	1.5	0.7
10°	130.3	79.8	41.0	13.9	4.4	0.0	0.0	0.0
12.5°	255.4	91.5	40.3	11.0	0.7	0.0	0.0	0.0
15°	424.5	128.1	37.3	7.3	0.0	0.0	0.0	0.0
17.5°	695.3	165.4	32.2	5.1	0.0	0.0	0.0	0.0
20°	1078.1	183.7	24.9	2.2	0.0	0.0	0.0	0.0
21°	1264.0	185.2	22.0	1.5	0.0	0.0	0.0	0.0
22°	1425.0	185.2	19.0	0.7	0.0	0.0	0.0	0.0
23°	1574.3	183.0	16.8	0.0	0.0	0.0	0.0	0.0
24°	1697.2	180.0	15.4	0.0	0.0	0.0	0.0	0.0
25°	1789.5	175.7	13.9	0.0	0.0	0.0	0.0	0.0
26°	1831.9	169.8	11.7	0.0	0.0	0.0	0.0	0.0
27°	1853.1	161.7	10.2	0.0	0.0	0.0	0.0	0.0
28°	1838.5	153.0	8.8	0.0	0.0	0.0	0.0	0.0
29°	1801.9	143.4	6.6	0.0	0.0	0.0	0.0	0.0
30°	1754.3	132.5	5.1	0.0	0.0	0.0	0.0	0.0
31°	1684.8	121.5	3.7	0.0	0.0	0.0	0.0	0.0
32°	1589.6	110.5	2.9	0.0	0.0	0.0	0.0	0.0
33°	1462.3	98.8	1.5	0.0	0.0	0.0	0.0	0.0
34°	1304.9	87.1	0.7	0.0	0.0	0.0	0.0	0.0
35°	1128.6	76.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	977.1	65.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	824.8	52.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	690.9	41.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	571.6	33.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	473.5	22.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	262.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	158.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	92.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.5	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.7	0.0	0.0	0.0
67.5°	0.0	0.0	1.5	2.2	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.5	2.2	0.7	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	0.7	1.5	2.2	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.5	2.2	0.7	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)