

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: P1307803

Luminaire Tested: P3SQAS09R209030DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307803
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: P3SQAS09R209030DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

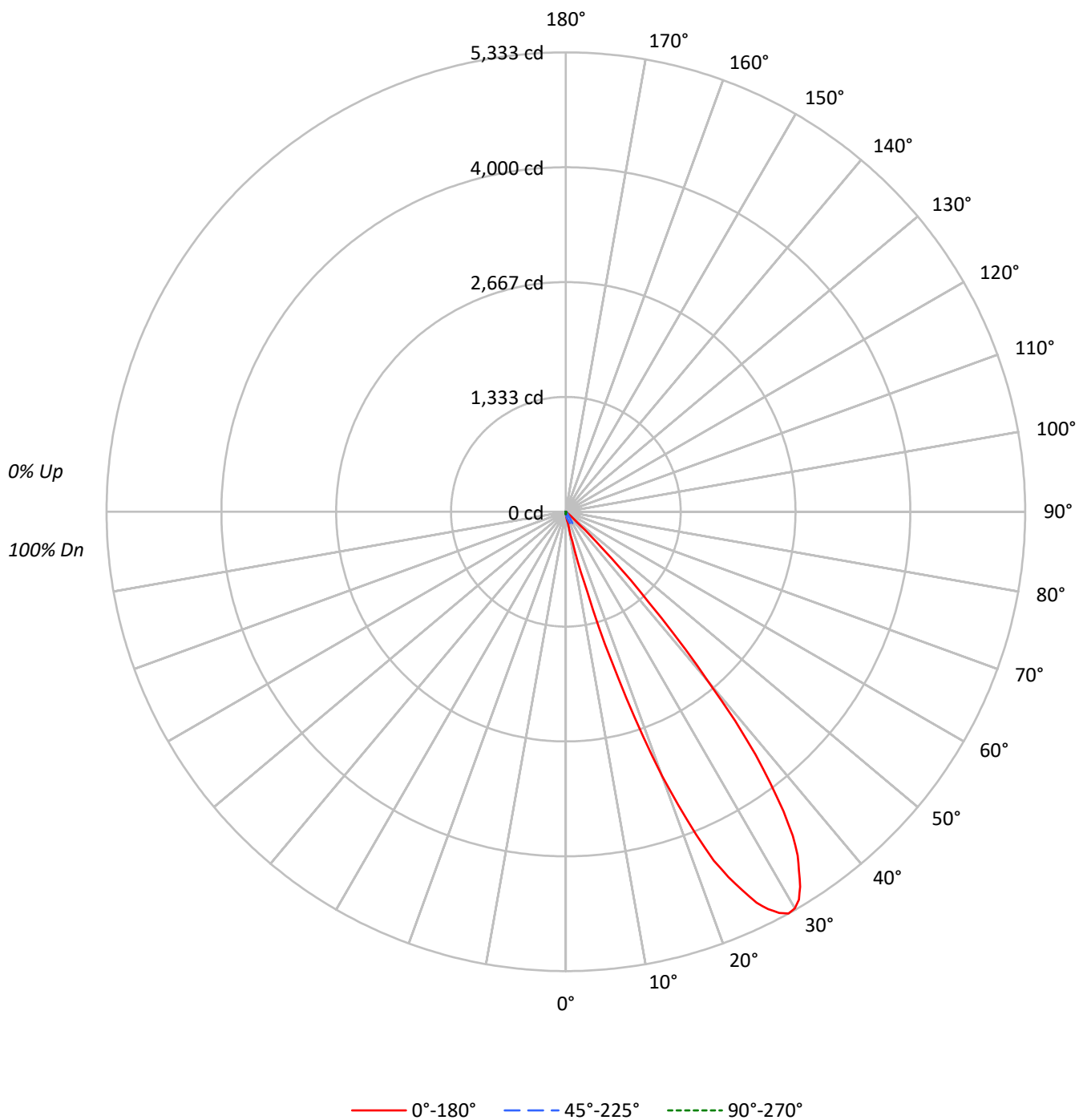
Lumens per Lamp: N/A
Luminaire Lumens: 736.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	50	
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°	4547	4547	4547	4547	4547
5°	9871	6967	4184	1902	1400
10°	24571	12294	2938	385	0
15°	172931	16831	1694	0	0
20°	597661	28298	678	0	0
25°	921230	36162	285	0	0
30°	1057388	27941	0	0	0
35°	965697	10617	0	0	0
40°	578936	4946	0	0	0
45°	142263	2314	0	0	0
50°	15701	589	0	0	0
55°	2192	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: 1°

Vertical Angle: 45°

Luminance: 151713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.4
10°-20°	57.5	7.8
20°-30°	290.8	39.5
30°-40°	314.6	42.7
40°-50°	66.4	9.0
50°-60°	2.0	0.3
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°	351.2	47.7
0°-40°	665.8	90.5
0°-60°	734.2	99.8
0°-90°	736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	57	40	24	11	8	8
15°	970	94	10	0	0	404
25°	4848	190	2	0	0	2191
35°	4593	50	0	0	0	2708
45°	584	10	0	0	0	643
55°	7	0	1	0	0	13
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°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	35.9	35.1	35.9	35.1	35.9	35.9	35.9	35.1	35.1	35.1	35.1
5°	57.1	57.1	56.4	57.1	57.1	57.1	57.1	56.4	56.4	55.6	55.6
7.5°	90.0	90.0	89.3	89.3	90.0	90.8	87.8	89.3	89.3	89.3	88.6
10°	140.5	143.5	140.5	144.2	141.3	139.1	142.7	139.1	139.1	138.3	136.1
12.5°	354.3	346.2	341.1	328.7	341.1	331.6	333.8	331.6	324.3	314.8	308.9
15°	969.9	969.9	941.3	979.4	951.6	961.8	909.1	909.8	882.8	853.5	837.4
17.5°	2027.6	2045.9	2026.8	2015.1	1990.2	1954.4	1939.7	1902.4	1853.4	1796.3	1789.7
20°	3261.0	3184.1	3220.0	3187.0	3166.5	3122.6	3073.6	3042.8	2999.6	2927.2	2820.3
21°	3648.9	3646.0	3645.2	3644.5	3614.5	3542.8	3498.1	3436.6	3375.9	3301.2	3211.9
22°	4039.8	4053.7	4059.5	4017.1	3955.6	3923.4	3892.7	3808.5	3712.6	3673.8	3567.7
23°	4398.5	4385.3	4347.2	4327.5	4279.9	4270.4	4178.9	4125.4	4031.7	3989.3	3863.4
24°	4642.9	4636.3	4618.8	4589.5	4551.4	4492.9	4438.0	4353.8	4276.9	4207.4	4090.3
25°	4847.9	4853.7	4821.5	4801.8	4760.8	4694.9	4627.6	4535.3	4463.6	4382.4	4246.9
26°	5050.6	5009.7	4984.0	4954.8	4910.1	4834.7	4769.6	4686.9	4599.7	4509.0	4376.5
27°	5175.8	5139.2	5100.4	5071.9	5020.6	4948.9	4879.4	4787.9	4690.5	4599.0	4462.9
28°	5274.6	5234.4	5196.3	5161.9	5103.3	5026.5	4943.0	4850.1	4749.1	4654.6	4515.6
29°	5333.2	5285.6	5244.6	5205.8	5152.4	5068.9	4984.8	4885.2	4787.9	4689.1	4547.0
30°	5317.1	5276.1	5236.6	5197.0	5142.9	5064.6	4981.1	4886.0	4787.9	4690.5	4546.3
31°	5254.1	5203.6	5175.1	5135.6	5088.7	5008.9	4937.2	4833.2	4744.7	4639.3	4495.1
32°	5133.4	5101.2	5063.1	5032.3	4987.0	4902.1	4831.8	4746.9	4642.2	4555.8	4404.3
33°	4969.4	4939.4	4920.4	4884.5	4840.6	4782.0	4697.8	4620.2	4502.4	4413.8	4262.3
34°	4812.8	4774.7	4727.1	4716.9	4678.8	4603.4	4527.3	4448.2	4342.8	4230.1	4077.1
35°	4593.2	4553.6	4509.7	4513.4	4468.0	4380.2	4302.6	4214.0	4113.7	3981.2	3836.3
36°	4299.6	4273.3	4266.7	4249.1	4197.2	4092.5	4018.6	3907.3	3823.1	3661.4	3536.9
37°	3941.7	3951.2	3903.6	3880.9	3820.2	3747.0	3705.3	3562.5	3464.5	3342.9	3174.6
38°	3580.1	3566.2	3509.8	3523.7	3440.3	3364.2	3246.3	3161.4	3051.6	2938.9	2804.2
39°	3128.5	3094.1	3026.7	3029.7	2966.7	2881.1	2766.9	2666.6	2600.7	2492.4	2363.6
40°	2575.1	2560.5	2537.0	2498.2	2415.5	2378.2	2276.5	2168.1	2112.5	1962.4	1899.5
42.5°	1428.8	1409.1	1369.5	1355.6	1311.7	1267.8	1208.5	1136.0	1100.9	1056.2	956.7
45°	584.1	622.9	613.4	602.4	568.7	570.9	528.5	533.6	494.8	468.5	450.2
47.5°	128.8	139.8	140.5	135.4	140.5	136.1	134.0	130.3	131.0	133.2	128.1
50°	58.6	57.8	59.3	58.6	57.8	57.1	56.4	54.2	55.6	54.2	52.7
52.5°	22.7	23.4	23.4	22.0	22.7	22.7	22.7	22.0	22.0	22.0	22.0
55°	7.3	7.3	7.3	6.6	6.6	7.3	7.3	7.3	7.3	7.3	6.6
57.5°	0.7	1.5	0.7	1.5	0.7	0.7	0.7	0.7	0.7	1.5	1.5
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°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	33.7	30.7	28.5	26.4	22.0	18.3	16.8	16.8
5°	52.0	40.3	30.0	24.2	16.8	11.0	8.8	8.1
7.5°	78.3	54.2	31.5	20.5	11.0	5.9	3.7	2.9
10°	113.5	70.3	32.9	16.8	6.6	2.2	0.0	0.0
12.5°	198.4	84.2	32.9	13.2	2.9	0.0	0.0	0.0
15°	454.6	94.4	31.5	9.5	0.7	0.0	0.0	0.0
17.5°	944.3	118.6	27.8	6.6	0.0	0.0	0.0	0.0
20°	1507.9	154.4	22.0	3.7	0.0	0.0	0.0	0.0
21°	1739.9	166.9	19.8	2.9	0.0	0.0	0.0	0.0
22°	1906.8	178.6	17.6	2.2	0.0	0.0	0.0	0.0
23°	2090.5	185.9	15.4	1.5	0.0	0.0	0.0	0.0
24°	2225.9	190.3	13.2	1.5	0.0	0.0	0.0	0.0
25°	2310.1	190.3	11.7	1.5	0.0	0.0	0.0	0.0
26°	2359.9	185.9	10.2	0.7	0.0	0.0	0.0	0.0
27°	2371.6	178.6	8.8	0.7	0.0	0.0	0.0	0.0
28°	2357.0	169.1	7.3	0.0	0.0	0.0	0.0	0.0
29°	2310.9	155.2	6.6	0.0	0.0	0.0	0.0	0.0
30°	2261.1	140.5	5.1	0.0	0.0	0.0	0.0	0.0
31°	2176.2	120.8	4.4	0.0	0.0	0.0	0.0	0.0
32°	2078.1	100.3	3.7	0.0	0.0	0.0	0.0	0.0
33°	1947.1	79.1	2.9	0.0	0.0	0.0	0.0	0.0
34°	1753.8	62.2	2.9	0.0	0.0	0.0	0.0	0.0
35°	1580.3	50.5	2.2	0.0	0.0	0.0	0.0	0.0
36°	1353.4	40.3	2.2	0.0	0.0	0.0	0.0	0.0
37°	1159.5	33.7	2.2	0.0	0.0	0.0	0.0	0.0
38°	970.6	28.5	1.5	0.0	0.0	0.0	0.0	0.0
39°	787.6	24.9	1.5	0.0	0.0	0.0	0.0	0.0
40°	628.0	22.0	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	338.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	187.4	9.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	82.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	27.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.6	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	1.5	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	0.7	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)