

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: P1317081

Luminaire Tested: P3SQAS13R209830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317081
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: P3SQAS13R209830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

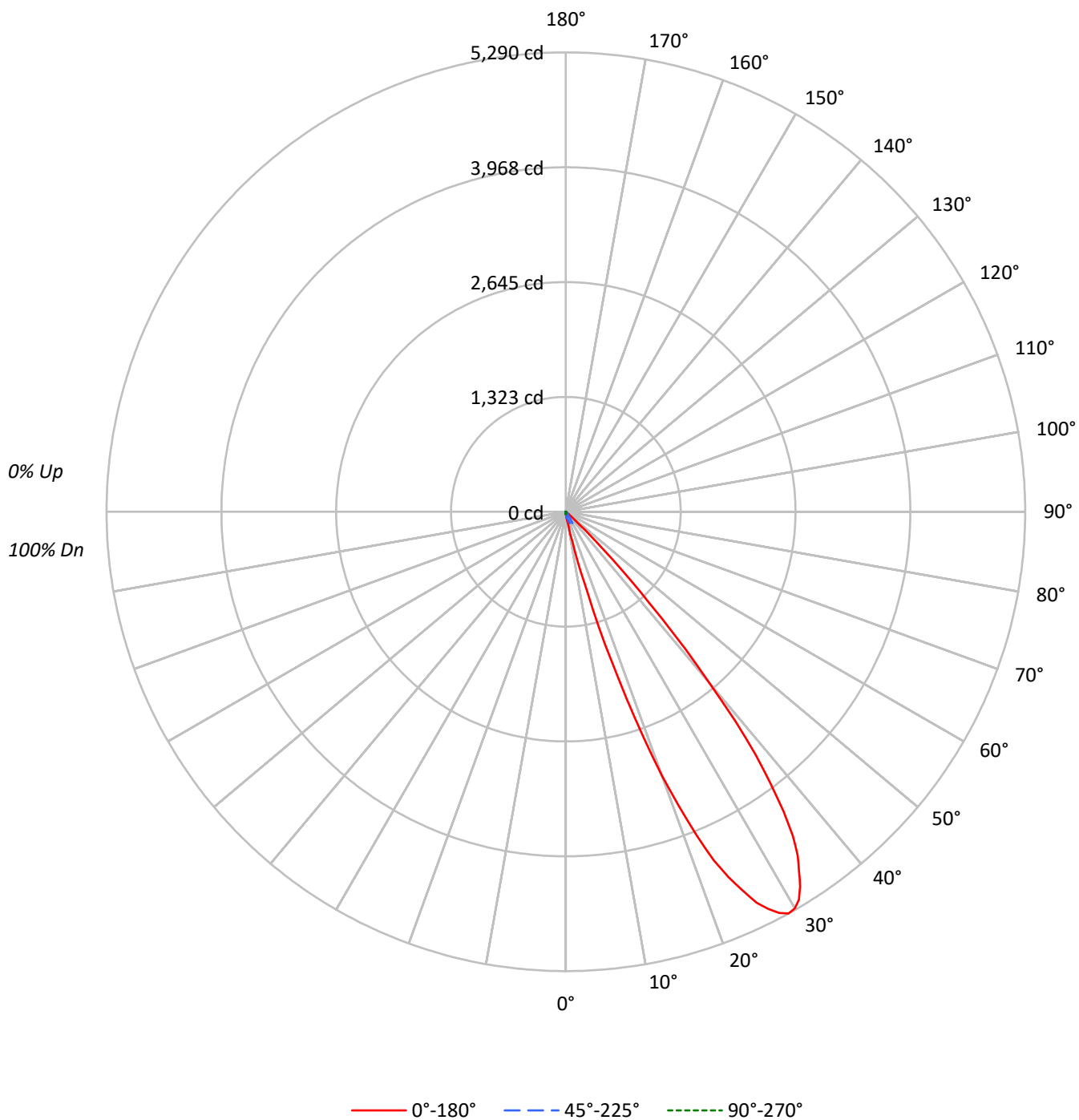
Lumens per Lamp: N/A
Luminaire Lumens: 730.0 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	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°	4495	4495	4495	4495	4495
5°	9785	6898	4149	1884	1383
10°	24378	12189	2920	385	0
15°	171523	16707	1676	0	0
20°	592786	28078	660	0	0
25°	913724	35877	285	0	0
30°	1048757	27722	0	0	0
35°	957813	10533	0	0	0
40°	574215	4901	0	0	0
45°	141118	2289	0	0	0
50°	15567	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: 150471 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.4
10°-20°	57.0	7.8
20°-30°	288.4	39.5
30°-40°	312.0	42.7
40°-50°	65.9	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°	348.4	47.7
0°-40°	660.4	90.5
0°-60°	728.2	99.8
0°-90°	730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	57	40	24	11	8	8
15°	962	94	9	0	0	401
25°	4808	189	2	0	0	2173
35°	4556	50	0	0	0	2686
45°	579	9	0	0	0	637
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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	35.6	34.8	35.6	34.8	35.6	35.6	35.6	34.8	34.8	34.8	34.8
5°	56.6	56.6	55.9	56.6	56.6	56.6	56.6	55.9	55.9	55.2	55.2
7.5°	89.3	89.3	88.6	88.6	89.3	90.0	87.1	88.6	88.6	88.6	87.8
10°	139.4	142.3	139.4	143.0	140.1	137.9	141.6	137.9	137.9	137.2	135.0
12.5°	351.4	343.4	338.3	326.0	338.3	328.9	331.1	328.9	321.6	312.2	306.4
15°	962.0	962.0	933.6	971.4	943.8	954.0	901.7	902.4	875.6	846.5	830.6
17.5°	2011.0	2029.2	2010.3	1998.7	1974.0	1938.4	1923.9	1886.9	1838.3	1781.6	1775.1
20°	3234.4	3158.1	3193.7	3161.1	3140.7	3097.2	3048.5	3018.0	2975.2	2903.3	2797.3
21°	3619.2	3616.3	3615.5	3614.8	3585.0	3513.9	3469.6	3408.6	3348.4	3274.3	3185.7
22°	4006.9	4020.6	4026.5	3984.3	3923.4	3891.4	3860.9	3777.4	3682.3	3643.8	3538.6
23°	4362.6	4349.5	4311.8	4292.2	4245.0	4235.5	4144.8	4091.8	3998.9	3956.8	3831.9
24°	4605.1	4598.6	4581.1	4552.1	4514.3	4456.3	4401.8	4318.3	4242.1	4173.1	4056.9
25°	4808.4	4814.2	4782.2	4762.6	4722.0	4656.6	4589.8	4498.4	4427.2	4346.6	4212.3
26°	5009.5	4968.8	4943.4	4914.4	4870.1	4795.3	4730.7	4648.6	4562.3	4472.2	4340.8
27°	5133.6	5097.3	5058.8	5030.5	4979.7	4908.6	4839.6	4748.8	4652.3	4561.5	4426.5
28°	5231.6	5191.7	5153.9	5119.8	5061.7	4985.5	4902.8	4810.5	4710.4	4616.7	4478.8
29°	5289.7	5242.5	5201.9	5163.4	5110.4	5027.6	4944.1	4845.4	4748.8	4650.8	4510.0
30°	5273.7	5233.1	5193.9	5154.7	5101.0	5023.3	4940.5	4846.1	4748.8	4652.3	4509.3
31°	5211.3	5161.2	5132.9	5093.7	5047.2	4968.1	4896.9	4793.8	4706.0	4601.5	4458.4
32°	5091.5	5059.6	5021.8	4991.3	4946.3	4862.1	4792.4	4708.2	4604.4	4518.7	4368.4
33°	4928.9	4899.1	4880.2	4844.7	4801.1	4743.0	4659.5	4582.6	4465.7	4377.8	4227.6
34°	4773.5	4735.8	4688.6	4678.4	4640.7	4565.9	4490.4	4412.0	4307.4	4195.6	4043.9
35°	4555.7	4516.5	4473.0	4476.6	4431.6	4344.4	4267.5	4179.6	4080.2	3948.8	3805.0
36°	4264.6	4238.5	4231.9	4214.5	4162.9	4059.1	3985.8	3875.4	3792.0	3631.5	3508.1
37°	3909.6	3919.0	3871.8	3849.3	3789.0	3716.4	3675.1	3533.5	3436.2	3315.7	3148.7
38°	3550.9	3537.1	3481.2	3495.0	3412.3	3336.7	3219.9	3135.6	3026.7	2914.9	2781.3
39°	3103.0	3068.8	3002.1	3005.0	2942.5	2857.6	2744.3	2644.9	2579.5	2472.1	2344.3
40°	2554.1	2539.6	2516.4	2477.9	2395.8	2358.8	2257.9	2150.4	2095.3	1946.4	1884.0
42.5°	1417.2	1397.6	1358.4	1344.6	1301.0	1257.5	1198.6	1126.8	1091.9	1047.6	948.9
45°	579.4	617.8	608.4	597.5	564.1	566.3	524.2	529.3	490.8	464.6	446.5
47.5°	127.8	138.7	139.4	134.3	139.4	135.0	132.9	129.2	130.0	132.1	127.1
50°	58.1	57.4	58.8	58.1	57.4	56.6	55.9	53.7	55.2	53.7	52.3
52.5°	22.5	23.2	23.2	21.8	22.5	22.5	22.5	21.8	21.8	21.8	21.8
55°	7.3	7.3	7.3	6.5	6.5	7.3	7.3	7.3	7.3	7.3	6.5
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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	33.4	30.5	28.3	26.1	21.8	18.2	16.7	16.7
5°	51.5	39.9	29.8	24.0	16.7	10.9	8.7	8.0
7.5°	77.7	53.7	31.2	20.3	10.9	5.8	3.6	2.9
10°	112.5	69.7	32.7	16.7	6.5	2.2	0.0	0.0
12.5°	196.7	83.5	32.7	13.1	2.9	0.0	0.0	0.0
15°	450.9	93.7	31.2	9.4	0.7	0.0	0.0	0.0
17.5°	936.6	117.6	27.6	6.5	0.0	0.0	0.0	0.0
20°	1495.6	153.2	21.8	3.6	0.0	0.0	0.0	0.0
21°	1725.7	165.5	19.6	2.9	0.0	0.0	0.0	0.0
22°	1891.3	177.1	17.4	2.2	0.0	0.0	0.0	0.0
23°	2073.5	184.4	15.2	1.5	0.0	0.0	0.0	0.0
24°	2207.8	188.8	13.1	1.5	0.0	0.0	0.0	0.0
25°	2291.3	188.8	11.6	1.5	0.0	0.0	0.0	0.0
26°	2340.7	184.4	10.2	0.7	0.0	0.0	0.0	0.0
27°	2352.3	177.1	8.7	0.7	0.0	0.0	0.0	0.0
28°	2337.8	167.7	7.3	0.0	0.0	0.0	0.0	0.0
29°	2292.0	153.9	6.5	0.0	0.0	0.0	0.0	0.0
30°	2242.6	139.4	5.1	0.0	0.0	0.0	0.0	0.0
31°	2158.4	119.8	4.4	0.0	0.0	0.0	0.0	0.0
32°	2061.1	99.5	3.6	0.0	0.0	0.0	0.0	0.0
33°	1931.2	78.4	2.9	0.0	0.0	0.0	0.0	0.0
34°	1739.5	61.7	2.9	0.0	0.0	0.0	0.0	0.0
35°	1567.5	50.1	2.2	0.0	0.0	0.0	0.0	0.0
36°	1342.4	39.9	2.2	0.0	0.0	0.0	0.0	0.0
37°	1150.0	33.4	2.2	0.0	0.0	0.0	0.0	0.0
38°	962.7	28.3	1.5	0.0	0.0	0.0	0.0	0.0
39°	781.2	24.7	1.5	0.0	0.0	0.0	0.0	0.0
40°	622.9	21.8	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	336.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	185.9	9.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	82.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	27.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.5	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)