

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: P1312386

Luminaire Tested: P3SQAS13R159727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312386
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: P3SQAS13R159727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

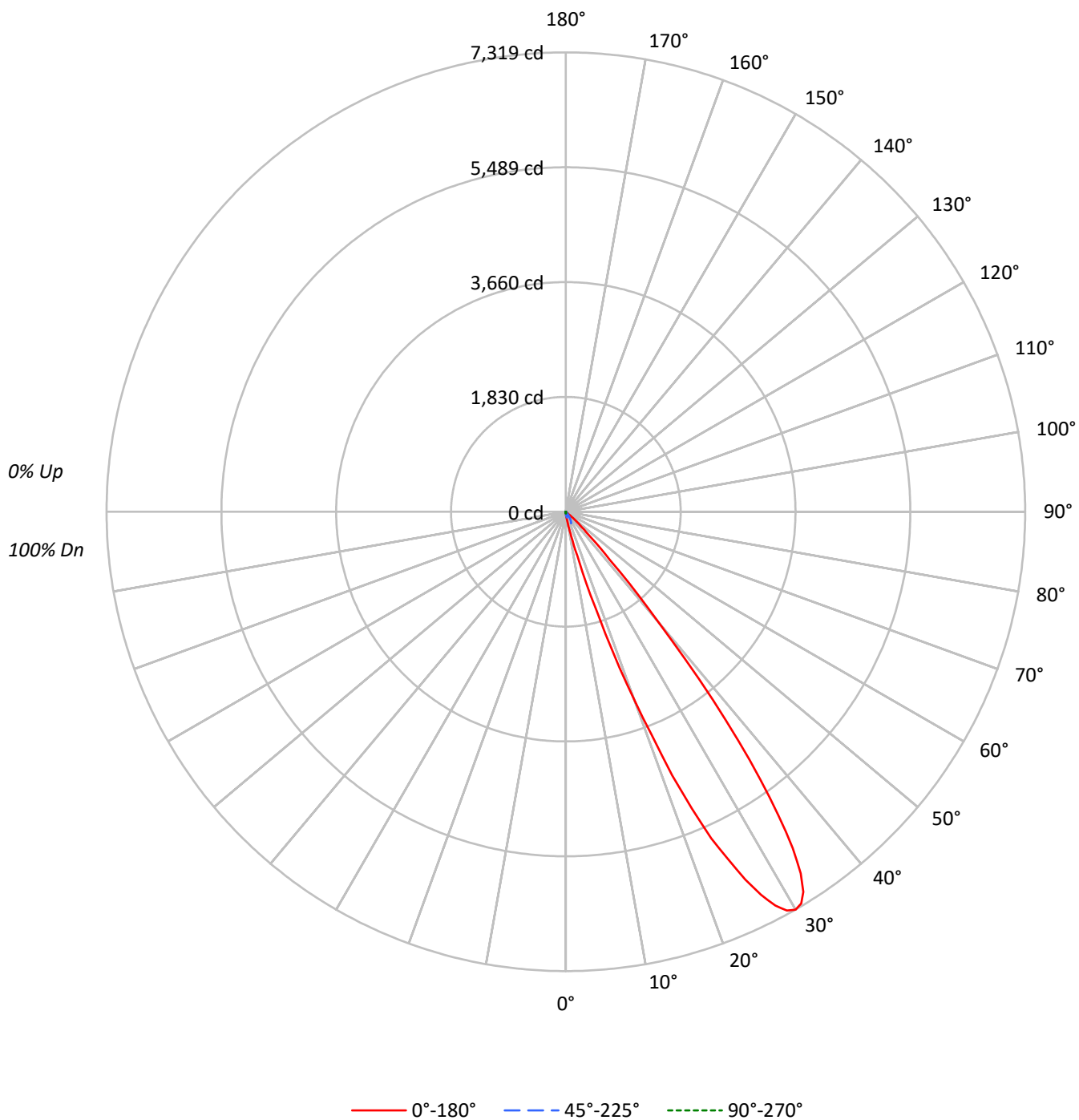
Lumens per Lamp: N/A
Luminaire Lumens: 774.0 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			
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
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°	4771	4771	4771	4771	4771
5°	13796	10407	4080	1694	1124
10°	35868	15512	2711	0	0
15°	143369	25390	1444	0	0
20°	585785	37443	440	0	0
25°	1157965	37112	0	0	0
30°	1455418	29293	0	0	0
35°	1241812	17976	0	0	0
40°	511242	5665	0	0	0
45°	110625	2387	0	0	0
50°	14174	0	0	0	0
55°	1231	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1209	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 115764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.5
10°-20°	54.2	7.0
20°-30°	316.2	40.8
30°-40°	339.0	43.8
40°-50°	57.2	7.4
50°-60°	1.7	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	374.1	48.3
0°-40°	713.1	92.1
0°-60°	772.1	99.8
0°-90°	774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	80	60	24	10	6	11
15°	804	142	8	0	0	372
25°	6094	195	0	0	0	2757
35°	5906	86	0	0	0	3394
45°	454	10	0	0	0	536
55°	4	0	1	0	0	10
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°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	50.5	51.3	52.1	52.1	52.1	52.1	51.3	51.3	51.3	51.3	50.5
5°	79.8	79.8	79.8	79.8	79.8	79.8	78.9	78.9	78.9	78.9	78.9
7.5°	113.9	112.3	113.1	110.7	112.3	111.5	110.7	112.3	112.3	108.2	108.2
10°	205.1	204.3	196.2	197.8	199.4	198.6	198.6	193.7	192.9	189.6	186.4
12.5°	395.6	404.5	411.0	411.0	395.6	401.3	390.7	393.1	394.7	389.9	372.8
15°	804.1	818.8	803.3	818.0	812.3	791.1	767.5	735.8	748.0	726.0	718.7
17.5°	1761.3	1794.7	1780.8	1713.3	1735.2	1683.2	1650.6	1638.4	1604.2	1502.5	1460.1
20°	3196.2	3236.9	3198.6	3119.7	3144.9	3046.4	3021.2	2997.6	2846.2	2790.9	2613.4
21°	3800.1	3833.5	3848.1	3765.9	3715.5	3637.3	3572.2	3551.1	3459.1	3352.5	3170.2
22°	4529.4	4490.3	4402.4	4413.8	4338.9	4274.6	4184.3	4098.8	3996.3	3847.3	3696.7
23°	5133.3	5087.7	5046.2	4995.7	4915.2	4869.6	4740.2	4646.6	4513.1	4353.6	4208.7
24°	5695.7	5625.7	5599.7	5510.1	5487.3	5384.8	5279.8	5157.7	4996.5	4826.4	4666.1
25°	6093.7	6104.3	6081.5	6070.9	5954.5	5849.5	5745.3	5557.3	5419.8	5269.2	5022.6
26°	6520.2	6525.1	6513.7	6435.5	6330.5	6228.0	6093.7	5930.1	5730.7	5563.8	5340.8
27°	6846.6	6827.0	6810.7	6718.0	6631.7	6502.3	6380.2	6186.5	5992.0	5793.4	5534.5
28°	7107.0	7070.4	7050.0	6970.3	6869.3	6710.6	6560.9	6380.2	6185.7	5972.4	5692.4
29°	7264.1	7225.0	7202.2	7114.3	6997.9	6858.8	6707.4	6508.8	6299.6	6061.9	5780.3
30°	7318.6	7295.8	7260.0	7168.9	7048.4	6903.5	6748.1	6532.4	6313.4	6070.1	5772.2
31°	7282.8	7253.5	7219.3	7120.8	6990.6	6852.2	6671.6	6445.3	6215.0	5983.0	5667.2
32°	7140.4	7122.5	7081.0	6949.1	6843.3	6664.2	6486.0	6274.4	6022.9	5773.8	5488.1
33°	6873.4	6844.1	6808.3	6687.8	6552.7	6381.0	6203.6	5987.1	5737.2	5474.3	5160.1
34°	6466.5	6429.0	6384.3	6303.7	6131.1	5982.2	5777.1	5524.0	5317.2	5064.9	4780.9
35°	5906.5	5852.0	5798.2	5737.2	5543.5	5405.9	5267.6	5047.0	4847.6	4609.9	4288.5
36°	5278.2	5257.0	5213.0	5051.9	4989.2	4802.0	4690.5	4437.4	4276.2	4043.5	3778.1
37°	4567.6	4443.1	4506.6	4416.2	4227.4	4168.8	4036.1	3818.8	3644.7	3398.9	3206.8
38°	3805.8	3724.4	3769.2	3678.0	3579.5	3444.4	3343.5	3184.8	2989.5	2796.6	2614.3
39°	3016.3	2950.4	2999.2	2937.4	2787.6	2731.5	2641.9	2520.7	2363.6	2213.0	2040.5
40°	2274.0	2189.4	2254.5	2166.6	2098.2	2006.3	1960.7	1849.2	1751.5	1661.2	1551.3
42.5°	1038.5	1029.6	1014.9	983.2	975.9	976.7	920.5	883.9	834.3	776.5	741.5
45°	454.2	465.6	475.3	457.4	456.6	446.8	443.6	419.2	409.4	390.7	367.9
47.5°	223.8	227.9	225.5	230.3	226.3	219.8	218.1	214.9	205.1	204.3	193.7
50°	52.9	52.1	52.1	52.9	52.1	52.1	51.3	49.6	48.8	49.6	47.2
52.5°	17.1	17.9	17.1	16.3	17.1	17.9	17.1	17.1	17.1	17.1	17.1
55°	4.1	4.1	4.1	4.1	4.1	4.1	3.3	3.3	4.1	4.1	4.1
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°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	49.6	42.3	35.0	27.7	20.3	16.3	15.5	14.7
5°	74.9	60.2	39.9	23.6	13.8	9.8	7.3	6.5
7.5°	100.9	74.9	44.0	19.5	9.8	4.1	1.6	0.8
10°	144.9	88.7	45.6	15.5	4.9	0.0	0.0	0.0
12.5°	284.1	101.7	44.8	12.2	0.8	0.0	0.0	0.0
15°	472.1	142.4	41.5	8.1	0.0	0.0	0.0	0.0
17.5°	773.2	183.9	35.8	5.7	0.0	0.0	0.0	0.0
20°	1198.9	204.3	27.7	2.4	0.0	0.0	0.0	0.0
21°	1405.6	205.9	24.4	1.6	0.0	0.0	0.0	0.0
22°	1584.7	205.9	21.2	0.8	0.0	0.0	0.0	0.0
23°	1750.7	203.5	18.7	0.0	0.0	0.0	0.0	0.0
24°	1887.4	200.2	17.1	0.0	0.0	0.0	0.0	0.0
25°	1990.0	195.3	15.5	0.0	0.0	0.0	0.0	0.0
26°	2037.2	188.8	13.0	0.0	0.0	0.0	0.0	0.0
27°	2060.8	179.9	11.4	0.0	0.0	0.0	0.0	0.0
28°	2044.5	170.1	9.8	0.0	0.0	0.0	0.0	0.0
29°	2003.8	159.5	7.3	0.0	0.0	0.0	0.0	0.0
30°	1950.9	147.3	5.7	0.0	0.0	0.0	0.0	0.0
31°	1873.6	135.1	4.1	0.0	0.0	0.0	0.0	0.0
32°	1767.8	122.9	3.3	0.0	0.0	0.0	0.0	0.0
33°	1626.2	109.9	1.6	0.0	0.0	0.0	0.0	0.0
34°	1451.2	96.9	0.8	0.0	0.0	0.0	0.0	0.0
35°	1255.0	85.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	1086.6	73.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	917.3	58.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	768.3	46.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	635.7	37.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	526.6	25.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	291.4	17.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	176.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	102.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.3	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.6	2.4	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	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	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)