

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: P1312720

Luminaire Tested: P3SQAS20R259727D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259727D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

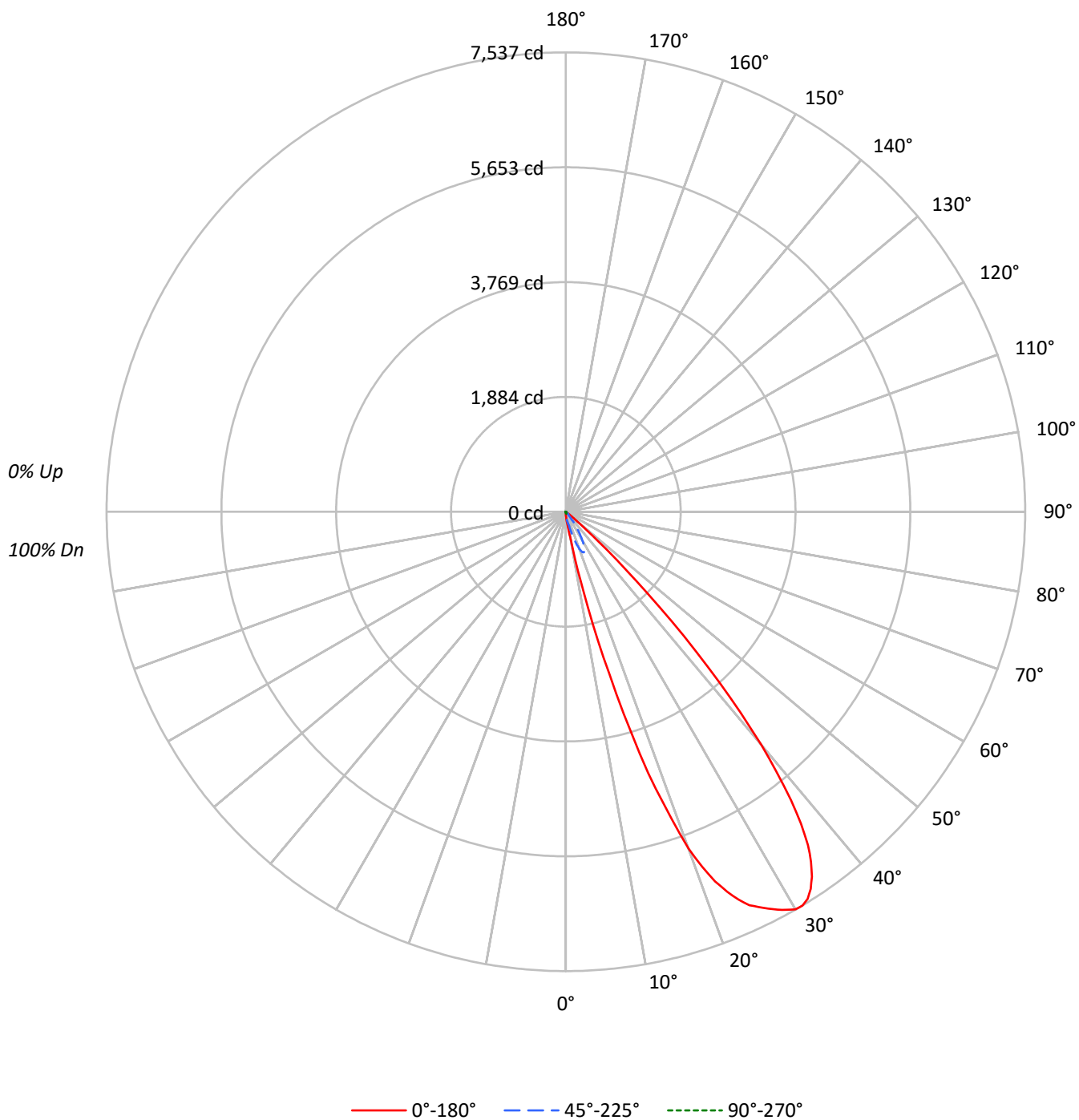
Lumens per Lamp: N/A
Luminaire Lumens: 1477.0 lumens
Efficiency: N/A
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	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°	8043	8043	8043	8043	8043
5°	25189	17617	7330	3907	2939
10°	79413	31916	5439	490	0
15°	491104	60782	3281	0	0
20°	1076762	118488	1045	0	0
25°	1353541	136287	0	0	0
30°	1498353	105498	0	0	0
35°	1474953	59773	0	0	0
40°	1121113	15580	0	0	0
45°	454117	6893	0	0	0
50°	50425	750	0	0	0
55°	3813	0	420	0	0
60°	0	0	482	0	0
65°	0	0	1141	0	0
70°	0	705	1410	0	0
75°	0	932	2795	0	0
80°	0	1389	4166	0	0
85°	0	2766	8299	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 454117 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.5
10°-20°	152.6	10.3
20°-30°	533.3	36.1
30°-40°	594.9	40.3
40°-50°	179.7	12.2
50°-60°	6.0	0.4
60°-70°	0.8	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	693.1	46.9
0°-40°	1288.1	87.2
0°-60°	1473.7	99.8
0°-90°	1477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	146	102	42	23	17	23
15°	2754	341	18	0	0	916
25°	7123	717	0	0	0	3249
35°	7015	284	0	0	0	4212
45°	1864	28	0	0	0	1610
55°	13	0	1	0	0	40
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
2.5°	80.6	83.5	82.1	83.5	82.1	82.1	82.1	83.5	82.1	82.1	82.1
5°	145.7	147.1	147.1	145.7	145.7	148.5	145.7	147.1	142.9	145.7	144.3
7.5°	239.1	236.3	236.3	237.7	237.7	234.8	233.4	230.6	233.4	233.4	229.2
10°	454.1	451.3	444.2	441.4	444.2	444.2	430.1	432.9	434.3	421.6	417.3
12.5°	1334.0	1324.1	1343.9	1312.8	1294.4	1264.7	1281.7	1223.7	1211.0	1202.5	1182.7
15°	2754.4	2829.3	2796.8	2799.6	2805.3	2734.6	2758.6	2670.9	2597.3	2574.7	2559.1
17.5°	4491.6	4514.2	4484.5	4470.4	4464.7	4430.8	4389.7	4345.9	4289.3	4239.8	4198.7
20°	5875.1	5858.2	5807.2	5812.9	5752.1	5720.9	5685.6	5641.7	5597.9	5525.7	5456.4
21°	6240.1	6190.6	6192.0	6158.1	6156.7	6117.0	6054.8	6009.5	5969.9	5887.9	5844.0
22°	6540.0	6528.7	6503.3	6477.8	6450.9	6431.1	6361.8	6339.2	6258.5	6190.6	6128.4
23°	6773.5	6777.7	6755.1	6738.1	6701.3	6692.8	6603.7	6572.6	6517.4	6414.1	6350.5
24°	6967.3	6960.2	6934.7	6905.0	6883.8	6864.0	6796.1	6745.2	6684.3	6599.5	6537.2
25°	7122.9	7105.9	7088.9	7066.3	7032.3	7009.7	6940.4	6883.8	6831.5	6736.7	6651.8
26°	7214.8	7219.1	7192.2	7175.2	7145.5	7122.9	7050.7	6984.2	6919.2	6817.3	6740.9
27°	7308.2	7304.0	7279.9	7254.4	7223.3	7214.8	7131.4	7062.0	6995.6	6888.0	6797.5
28°	7394.5	7383.2	7363.4	7333.7	7299.7	7274.2	7193.6	7121.5	7049.3	6934.7	6835.7
29°	7466.6	7455.3	7442.6	7404.4	7360.5	7343.6	7257.3	7169.6	7097.4	6980.0	6875.3
30°	7534.5	7513.3	7483.6	7451.1	7408.6	7376.1	7285.6	7209.2	7124.3	6994.1	6893.7
31°	7537.4	7509.1	7487.9	7453.9	7405.8	7366.2	7271.4	7193.6	7094.6	6972.9	6864.0
32°	7487.9	7473.7	7439.8	7403.0	7356.3	7316.7	7212.0	7130.0	7036.6	6906.4	6797.5
33°	7376.1	7362.0	7342.2	7304.0	7243.1	7206.3	7113.0	7022.4	6930.5	6813.1	6688.6
34°	7221.9	7204.9	7179.5	7141.3	7079.0	7040.8	6965.9	6872.5	6774.9	6653.2	6537.2
35°	7015.4	6982.8	6975.8	6919.2	6861.2	6851.3	6762.1	6664.5	6565.5	6431.1	6330.7
36°	6759.3	6721.1	6695.6	6675.8	6637.6	6591.0	6503.3	6425.4	6298.1	6211.8	6070.4
37°	6409.9	6363.2	6387.2	6333.5	6274.1	6254.3	6142.5	6071.8	5964.3	5846.8	5726.6
38°	6002.5	5998.2	5992.6	5968.5	5866.6	5814.3	5767.6	5692.6	5599.3	5457.8	5295.1
39°	5487.5	5496.0	5466.3	5469.1	5418.2	5365.9	5300.8	5215.9	5102.7	4974.0	4842.4
40°	4986.7	4866.5	4887.7	4815.5	4819.8	4742.0	4657.1	4582.1	4510.0	4396.8	4217.1
42.5°	3450.4	3432.0	3368.3	3323.1	3342.9	3242.4	3130.7	3026.0	2925.5	2798.2	2641.2
45°	1864.5	1822.1	1834.8	1761.3	1761.3	1716.0	1684.9	1597.2	1503.8	1445.8	1355.3
47.5°	693.2	701.7	717.2	687.5	653.6	673.4	643.7	643.7	628.1	609.7	584.3
50°	188.2	191.0	188.2	188.2	183.9	181.1	175.4	174.0	172.6	168.3	161.3
52.5°	76.4	72.1	72.1	73.6	73.6	70.7	72.1	72.1	70.7	69.3	69.3
55°	12.7	14.1	14.1	14.1	14.1	12.7	12.7	14.1	15.6	14.1	14.1
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°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
2.5°	79.2	69.3	58.0	48.1	38.2	32.5	29.7	31.1
5°	134.4	101.9	66.5	42.4	29.7	22.6	18.4	17.0
7.5°	206.5	140.1	75.0	36.8	22.6	11.3	7.1	5.7
10°	316.9	182.5	80.6	31.1	14.1	2.8	0.0	0.0
12.5°	813.4	223.5	82.1	25.5	5.7	0.0	0.0	0.0
15°	1672.1	340.9	79.2	18.4	1.4	0.0	0.0	0.0
17.5°	2779.8	522.0	69.3	12.7	0.0	0.0	0.0	0.0
20°	3856.4	646.5	55.2	5.7	0.0	0.0	0.0	0.0
21°	4180.4	683.3	49.5	4.2	0.0	0.0	0.0	0.0
22°	4444.9	710.2	43.9	2.8	0.0	0.0	0.0	0.0
23°	4665.6	724.3	38.2	1.4	0.0	0.0	0.0	0.0
24°	4819.8	727.1	35.4	1.4	0.0	0.0	0.0	0.0
25°	4893.4	717.2	31.1	0.0	0.0	0.0	0.0	0.0
26°	4921.6	697.4	28.3	0.0	0.0	0.0	0.0	0.0
27°	4900.4	672.0	25.5	0.0	0.0	0.0	0.0	0.0
28°	4862.2	633.8	21.2	0.0	0.0	0.0	0.0	0.0
29°	4787.3	582.8	18.4	0.0	0.0	0.0	0.0	0.0
30°	4715.1	530.5	15.6	0.0	0.0	0.0	0.0	0.0
31°	4633.1	483.8	12.7	0.0	0.0	0.0	0.0	0.0
32°	4532.6	430.1	9.9	0.0	0.0	0.0	0.0	0.0
33°	4365.7	380.5	7.1	0.0	0.0	0.0	0.0	0.0
34°	4132.3	333.9	5.7	0.0	0.0	0.0	0.0	0.0
35°	3819.6	284.3	4.2	0.0	0.0	0.0	0.0	0.0
36°	3477.3	232.0	2.8	0.0	0.0	0.0	0.0	0.0
37°	3058.5	168.3	2.8	0.0	0.0	0.0	0.0	0.0
38°	2621.4	106.1	1.4	0.0	0.0	0.0	0.0	0.0
39°	2174.4	80.6	1.4	0.0	0.0	0.0	0.0	0.0
40°	1765.5	69.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	945.0	46.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	557.4	28.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	311.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	111.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15.6	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	1.4	0.0	1.4	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	1.4	2.8	2.8	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	2.8	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.2	1.4	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	1.4	2.8	4.2	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.2	1.4	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)