

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: P1312771

Luminaire Tested: P3SQAS20R409727D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R409727D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

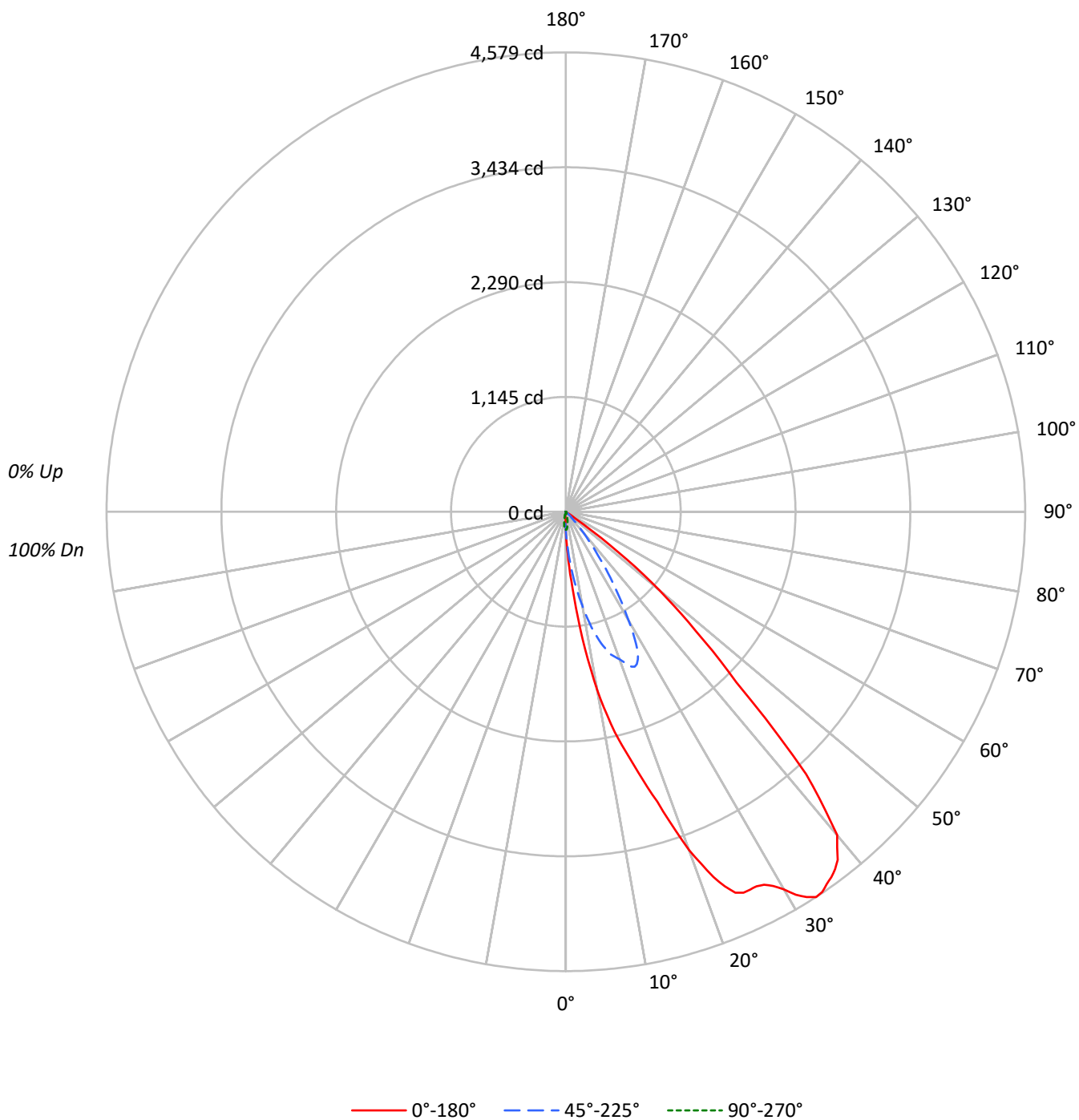
Lumens per Lamp: N/A
Luminaire Lumens: 1537.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30966	30966	30966	30966	30966
5°	131406	89569	27160	4893	2455
10°	315867	166590	16841	490	0
15°	464876	242040	7061	0	0
20°	657116	286918	2603	0	0
25°	795908	318466	0	0	0
30°	864190	249119	0	0	0
35°	952915	145826	0	0	0
40°	945776	59195	0	0	0
45°	585736	17244	0	0	0
50°	326152	375	0	0	0
55°	31888	0	0	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	0	0
85°	0	2766	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 588489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	2.2
10°-20°	198.1	12.9
20°-30°	452.2	29.4
30°-40°	534.0	34.7
40°-50°	285.3	18.6
50°-60°	31.0	2.0
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.0	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°	684.0	44.5
0°-40°	1218.0	79.2
0°-60°	1534.3	99.8
0°-90°	1537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	180	180	180	180	180	
5°	760	518	157	28	14	107
15°	2607	1358	40	0	0	774
25°	4188	1676	0	0	0	1902
35°	4532	694	0	0	0	2800
45°	2405	71	0	0	0	1983
55°	106	0	0	0	0	298
65°	0	0	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8
2.5°	419.0	410.5	416.2	404.8	404.8	379.4	380.8	359.5	328.4	250.5	178.4
5°	760.1	794.1	767.2	731.8	712.0	686.5	652.5	617.2	518.1	312.8	157.1
7.5°	1272.5	1269.7	1224.4	1186.2	1142.3	1074.4	1010.7	924.3	737.5	358.1	130.2
10°	1806.2	1796.3	1745.3	1712.7	1629.2	1531.6	1401.3	1262.6	952.6	373.7	96.3
12.5°	2250.6	2237.9	2195.4	2140.2	2048.2	1925.1	1784.9	1602.3	1179.1	356.7	62.3
15°	2607.3	2604.5	2563.5	2488.4	2392.2	2271.9	2113.3	1893.9	1357.5	312.8	39.6
17.5°	3030.6	3047.5	2973.9	2893.3	2754.5	2586.1	2392.2	2141.6	1489.1	259.0	25.5
20°	3585.4	3561.4	3493.4	3375.9	3242.9	3040.5	2765.9	2407.7	1565.5	201.0	14.2
21°	3755.3	3745.4	3674.6	3565.6	3418.4	3213.2	2930.1	2543.6	1600.9	179.8	11.3
22°	3928.0	3911.0	3855.8	3749.6	3610.9	3378.8	3067.4	2683.8	1646.2	157.1	7.1
23°	4056.8	4049.7	4007.3	3902.5	3759.5	3534.5	3216.0	2814.0	1677.4	135.9	4.2
24°	4155.9	4147.4	4104.9	4025.7	3902.5	3667.5	3366.0	2954.1	1690.1	117.5	1.4
25°	4188.4	4192.7	4167.2	4104.9	4001.6	3766.6	3477.9	3064.5	1675.9	100.5	0.0
26°	4189.9	4202.6	4184.2	4148.8	4063.9	3845.9	3582.6	3129.6	1639.1	84.9	0.0
27°	4189.9	4202.6	4184.2	4157.3	4073.8	3891.2	3639.2	3136.7	1582.5	72.2	0.0
28°	4209.7	4216.7	4192.7	4160.1	4069.5	3905.3	3654.8	3094.3	1491.9	62.3	0.0
29°	4264.9	4257.8	4218.2	4174.3	4065.3	3905.3	3608.1	3013.6	1378.7	52.4	0.0
30°	4345.6	4345.6	4283.3	4213.9	4085.1	3903.9	3533.1	2867.8	1252.7	42.5	0.0
31°	4454.5	4444.6	4382.4	4279.0	4127.6	3903.9	3422.7	2706.4	1136.6	36.8	0.0
32°	4528.2	4522.5	4463.0	4341.3	4196.9	3903.9	3303.8	2528.1	1010.7	29.7	0.0
33°	4579.1	4567.8	4499.8	4373.9	4239.4	3884.1	3170.7	2337.0	897.4	24.1	0.0
34°	4572.0	4569.2	4498.4	4368.2	4230.9	3802.0	3016.4	2124.7	792.7	19.8	0.0
35°	4532.4	4532.4	4446.1	4311.6	4170.0	3681.7	2863.5	1943.5	693.6	14.2	0.0
36°	4502.7	4491.3	4393.7	4243.6	4068.1	3492.0	2637.1	1760.9	587.4	11.3	0.0
37°	4458.8	4437.6	4328.6	4167.2	3923.7	3286.8	2399.3	1598.1	496.8	7.1	0.0
38°	4402.2	4369.6	4236.6	4078.0	3765.2	3050.4	2157.2	1415.5	413.3	4.2	0.0
39°	4298.8	4271.9	4134.6	3963.4	3575.5	2801.3	1922.2	1244.2	334.1	1.4	0.0
40°	4206.8	4160.1	4004.4	3807.7	3353.3	2519.6	1688.7	1075.8	263.3	0.0	0.0
42.5°	3547.2	3497.7	3462.3	3267.0	2671.0	1809.0	1179.1	689.3	137.3	0.0	0.0
45°	2404.9	2416.2	2305.8	2174.2	1762.3	1179.1	737.5	383.6	70.8	0.0	0.0
47.5°	1753.8	1724.1	1574.0	1324.9	1033.3	689.3	385.0	185.4	28.3	0.0	0.0
50°	1217.3	1160.7	1024.8	838.0	561.9	328.4	169.9	86.3	1.4	0.0	0.0
52.5°	661.0	621.4	526.6	382.2	233.6	126.0	67.9	35.4	0.0	0.0	0.0
55°	106.2	73.6	76.4	65.1	51.0	36.8	21.2	4.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
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):

	112.5°	135°	157.5°	180°
0°	179.8	179.8	179.8	179.8
2.5°	120.3	82.1	62.3	53.8
5°	69.4	28.3	15.6	14.2
7.5°	34.0	9.9	5.7	5.7
10°	14.2	2.8	0.0	0.0
12.5°	4.2	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)