

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: P1311653

Luminaire Tested: P3SQAS20R409050D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311653
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: P3SQAS20R409050D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

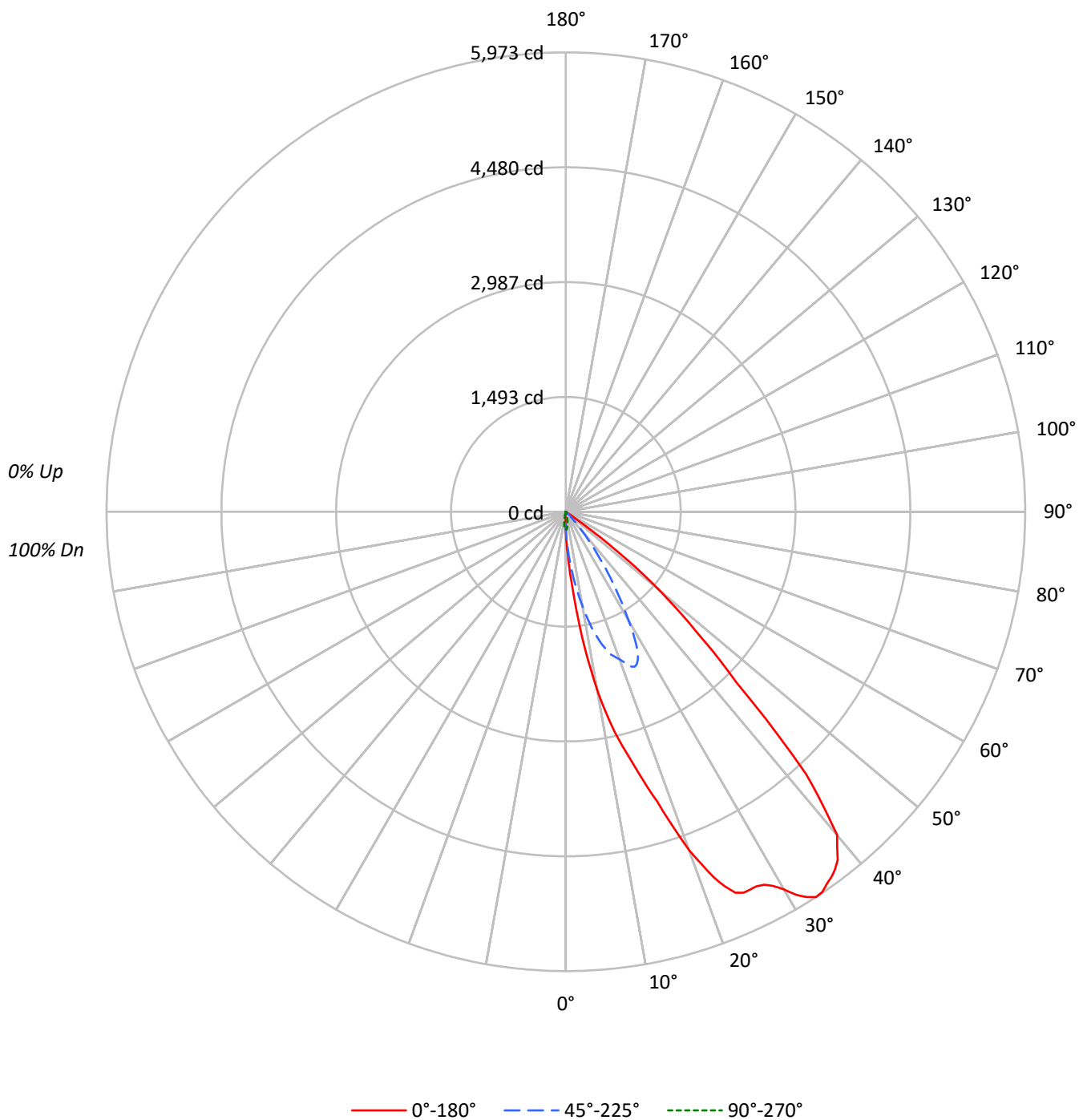
Lumens per Lamp: N/A
Luminaire Lumens: 2005.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	40386	40386	40386	40386	40386
5°	171428	116833	35441	6379	3198
10°	412033	217323	21965	647	0
15°	606427	315730	9218	0	0
20°	857216	374285	3391	0	0
25°	1038268	415436	0	0	0
30°	1127309	324966	0	0	0
35°	1243074	190230	0	0	0
40°	1233771	77203	0	0	0
45°	764095	22481	0	0	0
50°	425474	482	0	0	0
55°	41586	0	0	0	0
60°	0	0	620	0	0
65°	0	0	734	0	0
70°	0	906	1863	0	0
75°	0	1198	2462	0	0
80°	0	1785	3670	0	0
85°	0	3557	7311	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 767700 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	2.2
10°-20°	258.4	12.9
20°-30°	589.9	29.4
30°-40°	696.6	34.7
40°-50°	372.2	18.6
50°-60°	40.4	2.0
60°-70°	0.8	0.0
70°-80°	1.4	0.1
80°-90°	1.3	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°	892.3	44.5
0°-40°	1588.9	79.2
0°-60°	2001.4	99.8
0°-90°	2005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2005.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	234	234	234	234	234	
5°	992	676	205	37	18	139
15°	3401	1771	52	0	0	1010
25°	5464	2186	0	0	0	2481
35°	5912	905	0	0	0	3652
45°	3137	92	0	0	0	2587
55°	138	0	0	0	0	388
65°	0	0	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	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°	234.5	234.5	234.5	234.5	234.5	234.5	234.5	234.5	234.5	234.5	234.5
2.5°	546.6	535.5	542.9	528.1	528.1	494.9	496.7	469.0	428.4	326.8	232.7
5°	991.6	1035.9	1000.8	954.6	928.8	895.5	851.2	805.1	675.8	408.1	205.0
7.5°	1660.0	1656.3	1597.2	1547.4	1490.1	1401.5	1318.4	1205.8	962.0	467.2	169.9
10°	2356.1	2343.2	2276.7	2234.3	2125.3	1997.9	1828.0	1647.1	1242.7	487.5	125.6
12.5°	2935.9	2919.3	2863.9	2791.9	2671.9	2511.2	2328.4	2090.2	1538.1	465.3	81.2
15°	3401.2	3397.5	3344.0	3246.1	3120.6	2963.6	2756.8	2470.6	1770.8	408.1	51.7
17.5°	3953.3	3975.5	3879.5	3774.2	3593.3	3373.5	3120.6	2793.7	1942.5	337.9	33.2
20°	4677.2	4645.8	4557.1	4403.9	4230.3	3966.3	3608.0	3140.9	2042.2	262.2	18.5
21°	4898.7	4885.8	4793.5	4651.3	4459.3	4191.5	3822.2	3318.1	2088.4	234.5	14.8
22°	5124.0	5101.9	5029.8	4891.4	4710.4	4407.6	4001.3	3500.9	2147.5	205.0	9.2
23°	5292.0	5282.8	5227.4	5090.8	4904.3	4610.7	4195.2	3670.8	2188.1	177.3	5.5
24°	5421.3	5410.2	5354.8	5251.4	5090.8	4784.3	4391.0	3853.6	2204.7	153.3	1.8
25°	5463.8	5469.3	5436.1	5354.8	5220.0	4913.5	4536.8	3997.7	2186.2	131.1	0.0
26°	5465.6	5482.2	5458.2	5412.1	5301.3	5016.9	4673.5	4082.6	2138.2	110.8	0.0
27°	5465.6	5482.2	5458.2	5423.1	5314.2	5076.0	4747.3	4091.8	2064.4	94.2	0.0
28°	5491.5	5500.7	5469.3	5426.8	5308.7	5094.5	4767.6	4036.4	1946.2	81.2	0.0
29°	5563.5	5554.2	5502.5	5445.3	5303.1	5094.5	4706.7	3931.2	1798.5	68.3	0.0
30°	5668.7	5668.7	5587.5	5497.0	5329.0	5092.6	4608.8	3741.0	1634.1	55.4	0.0
31°	5810.9	5798.0	5716.7	5581.9	5384.4	5092.6	4464.8	3530.5	1482.7	48.0	0.0
32°	5906.9	5899.5	5822.0	5663.2	5474.8	5092.6	4309.7	3297.8	1318.4	38.8	0.0
33°	5973.4	5958.6	5870.0	5705.7	5530.2	5066.8	4136.1	3048.6	1170.7	31.4	0.0
34°	5964.2	5960.5	5868.1	5698.3	5519.2	4959.7	3934.9	2771.6	1034.0	25.9	0.0
35°	5912.5	5912.5	5799.8	5624.4	5439.8	4802.7	3735.5	2535.2	904.8	18.5	0.0
36°	5873.7	5858.9	5731.5	5535.8	5306.8	4555.3	3440.0	2297.0	766.3	14.8	0.0
37°	5816.4	5788.8	5646.6	5436.1	5118.5	4287.6	3129.8	2084.7	648.1	9.2	0.0
38°	5742.6	5700.1	5526.5	5319.7	4911.7	3979.2	2814.1	1846.5	539.2	5.5	0.0
39°	5607.8	5572.7	5393.6	5170.2	4664.2	3654.2	2507.5	1623.1	435.8	1.8	0.0
40°	5487.8	5426.8	5223.7	4967.1	4374.3	3286.8	2202.9	1403.3	343.4	0.0	0.0
42.5°	4627.3	4562.7	4516.5	4261.7	3484.3	2359.8	1538.1	899.2	179.1	0.0	0.0
45°	3137.2	3152.0	3007.9	2836.2	2298.9	1538.1	962.0	500.4	92.3	0.0	0.0
47.5°	2287.8	2249.0	2053.3	1728.3	1347.9	899.2	502.2	241.9	36.9	0.0	0.0
50°	1588.0	1514.1	1336.9	1093.1	733.1	428.4	221.6	112.6	1.8	0.0	0.0
52.5°	862.3	810.6	686.9	498.6	304.7	164.3	88.6	46.2	0.0	0.0	0.0
55°	138.5	96.0	99.7	84.9	66.5	48.0	27.7	5.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.8	1.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	3.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	3.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.7	3.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	3.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.7	3.7



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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	1.8	1.8	3.7	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.7	3.7
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°	234.5	234.5	234.5	234.5
2.5°	157.0	107.1	81.2	70.2
5°	90.5	36.9	20.3	18.5
7.5°	44.3	12.9	7.4	7.4
10°	18.5	3.7	0.0	0.0
12.5°	5.5	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°	1.8	0.0	0.0	0.0
67.5°	1.8	0.0	0.0	0.0
70°	1.8	0.0	0.0	0.0
72.5°	1.8	0.0	0.0	0.0
75°	1.8	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0
80°	1.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.8	0.0	0.0	0.0
85°	1.8	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)