

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: P1310576

Luminaire Tested: P3SQAS20R409040D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310576
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: P3SQAS20R409040D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

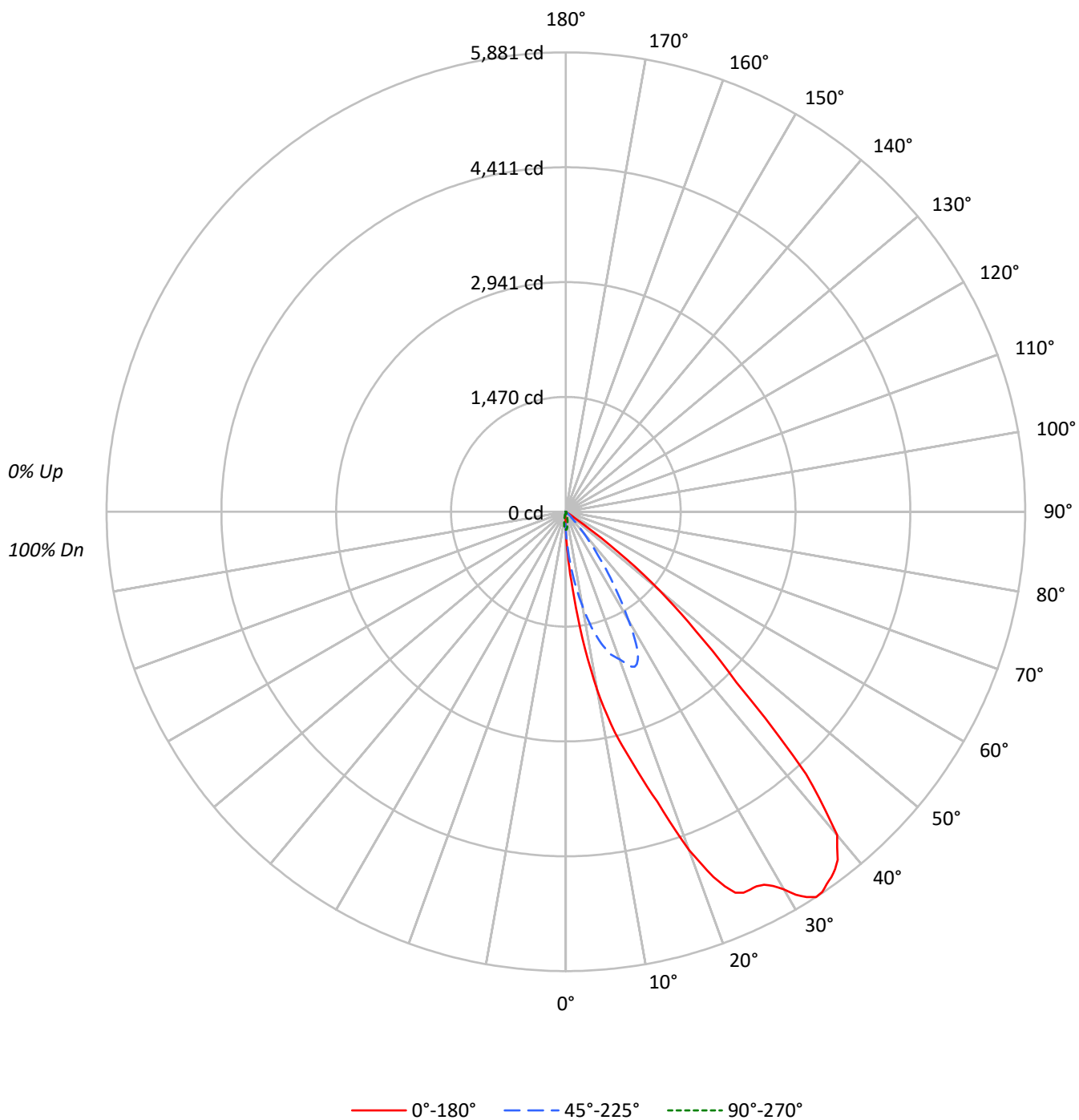
Lumens per Lamp: N/A
Luminaire Lumens: 1974.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	39766	39766	39766	39766	39766
5°	168766	115035	34887	6293	3146
10°	405668	213965	21615	630	0
15°	597049	310845	9075	0	0
20°	843947	368494	3336	0	0
25°	1022210	409013	0	0	0
30°	1109889	319955	0	0	0
35°	1223857	187286	0	0	0
40°	1214684	76012	0	0	0
45°	752283	22140	0	0	0
50°	418883	482	0	0	0
55°	40926	0	0	0	0
60°	0	0	620	0	0
65°	0	0	734	0	0
70°	0	906	1813	0	0
75°	0	1198	2396	0	0
80°	0	1785	3570	0	0
85°	0	3557	7114	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 755814 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	2.2
10°-20°	254.4	12.9
20°-30°	580.8	29.4
30°-40°	685.8	34.7
40°-50°	366.4	18.6
50°-60°	39.8	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°	878.5	44.5
0°-40°	1564.3	79.2
0°-60°	1970.5	99.8
0°-90°	1974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1974.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	231	231	231	231	231	
5°	976	665	202	36	18	137
15°	3349	1743	51	0	0	995
25°	5379	2152	0	0	0	2443
35°	5821	891	0	0	0	3596
45°	3089	91	0	0	0	2547
55°	136	0	0	0	0	382
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°	230.9	230.9	230.9	230.9	230.9	230.9	230.9	230.9	230.9	230.9	230.9
2.5°	538.1	527.2	534.5	519.9	519.9	487.2	489.0	461.8	421.8	321.8	229.1
5°	976.2	1019.9	985.3	939.9	914.4	881.7	838.1	792.6	665.4	401.8	201.8
7.5°	1634.3	1630.7	1572.5	1523.4	1467.1	1379.8	1298.0	1187.1	947.1	459.9	167.3
10°	2319.7	2307.0	2241.5	2199.7	2092.5	1967.0	1799.8	1621.6	1223.5	479.9	123.6
12.5°	2890.5	2874.2	2819.6	2748.7	2630.6	2472.4	2292.4	2057.9	1514.3	458.1	80.0
15°	3348.6	3345.0	3292.3	3195.9	3072.3	2917.8	2714.2	2432.4	1743.4	401.8	50.9
17.5°	3892.2	3914.0	3819.5	3715.9	3537.7	3321.4	3072.3	2750.5	1912.5	332.7	32.7
20°	4604.8	4573.9	4486.7	4335.8	4164.9	3904.9	3552.3	3092.3	2010.6	258.1	18.2
21°	4823.0	4810.3	4719.4	4579.4	4390.3	4126.7	3763.1	3266.8	2056.1	230.9	14.5
22°	5044.8	5023.0	4952.1	4815.7	4637.6	4339.4	3939.5	3446.8	2114.3	201.8	9.1
23°	5210.2	5201.1	5146.6	5012.1	4828.5	4539.4	4130.4	3614.1	2154.3	174.5	5.5
24°	5337.5	5326.6	5272.0	5170.2	5012.1	4710.3	4323.1	3794.0	2170.6	150.9	1.8
25°	5379.3	5384.7	5352.0	5272.0	5139.3	4837.5	4466.7	3935.8	2152.4	129.1	0.0
26°	5381.1	5397.5	5373.8	5328.4	5219.3	4939.3	4601.2	4019.5	2105.2	109.1	0.0
27°	5381.1	5397.5	5373.8	5339.3	5232.0	4997.5	4673.9	4028.6	2032.5	92.7	0.0
28°	5406.6	5415.6	5384.7	5342.9	5226.6	5015.7	4693.9	3974.0	1916.1	80.0	0.0
29°	5477.5	5468.4	5417.5	5361.1	5221.1	5015.7	4633.9	3870.4	1770.7	67.3	0.0
30°	5581.1	5581.1	5501.1	5412.0	5246.6	5013.9	4537.6	3683.2	1608.9	54.5	0.0
31°	5721.1	5708.3	5628.3	5495.6	5301.1	5013.9	4395.8	3475.9	1459.8	47.3	0.0
32°	5815.6	5808.3	5732.0	5575.6	5390.2	5013.9	4243.1	3246.8	1298.0	38.2	0.0
33°	5881.0	5866.5	5779.2	5617.4	5444.7	4988.4	4072.2	3001.4	1152.6	30.9	0.0
34°	5872.0	5868.3	5777.4	5610.2	5433.8	4883.0	3874.0	2728.7	1018.0	25.5	0.0
35°	5821.1	5821.1	5710.2	5537.5	5355.7	4728.5	3677.7	2496.0	890.8	18.2	0.0
36°	5782.9	5768.3	5642.9	5450.2	5224.8	4484.9	3386.8	2261.5	754.4	14.5	0.0
37°	5726.5	5699.2	5559.3	5352.0	5039.3	4221.3	3081.4	2052.5	638.1	9.1	0.0
38°	5653.8	5612.0	5441.1	5237.5	4835.7	3917.7	2770.5	1817.9	530.8	5.5	0.0
39°	5521.1	5486.5	5310.2	5090.2	4592.1	3597.7	2468.8	1598.0	429.0	1.8	0.0
40°	5402.9	5342.9	5143.0	4890.3	4306.7	3235.9	2168.8	1381.6	338.1	0.0	0.0
42.5°	4555.8	4492.1	4446.7	4195.8	3430.5	2323.3	1514.3	885.3	176.3	0.0	0.0
45°	3088.7	3103.2	2961.4	2792.4	2263.3	1514.3	947.1	492.7	90.9	0.0	0.0
47.5°	2252.4	2214.3	2021.6	1701.6	1327.1	885.3	494.5	238.2	36.4	0.0	0.0
50°	1563.4	1490.7	1316.2	1076.2	721.7	421.8	218.2	110.9	1.8	0.0	0.0
52.5°	849.0	798.1	676.3	490.8	300.0	161.8	87.3	45.4	0.0	0.0	0.0
55°	136.3	94.5	98.2	83.6	65.4	47.3	27.3	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	3.6	3.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	3.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	3.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6	3.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6	3.6



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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	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.6	3.6
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°	230.9	230.9	230.9	230.9
2.5°	154.5	105.4	80.0	69.1
5°	89.1	36.4	20.0	18.2
7.5°	43.6	12.7	7.3	7.3
10°	18.2	3.6	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)