

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: P1310656

Luminaire Tested: P3SQAS24R209040D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R209040D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

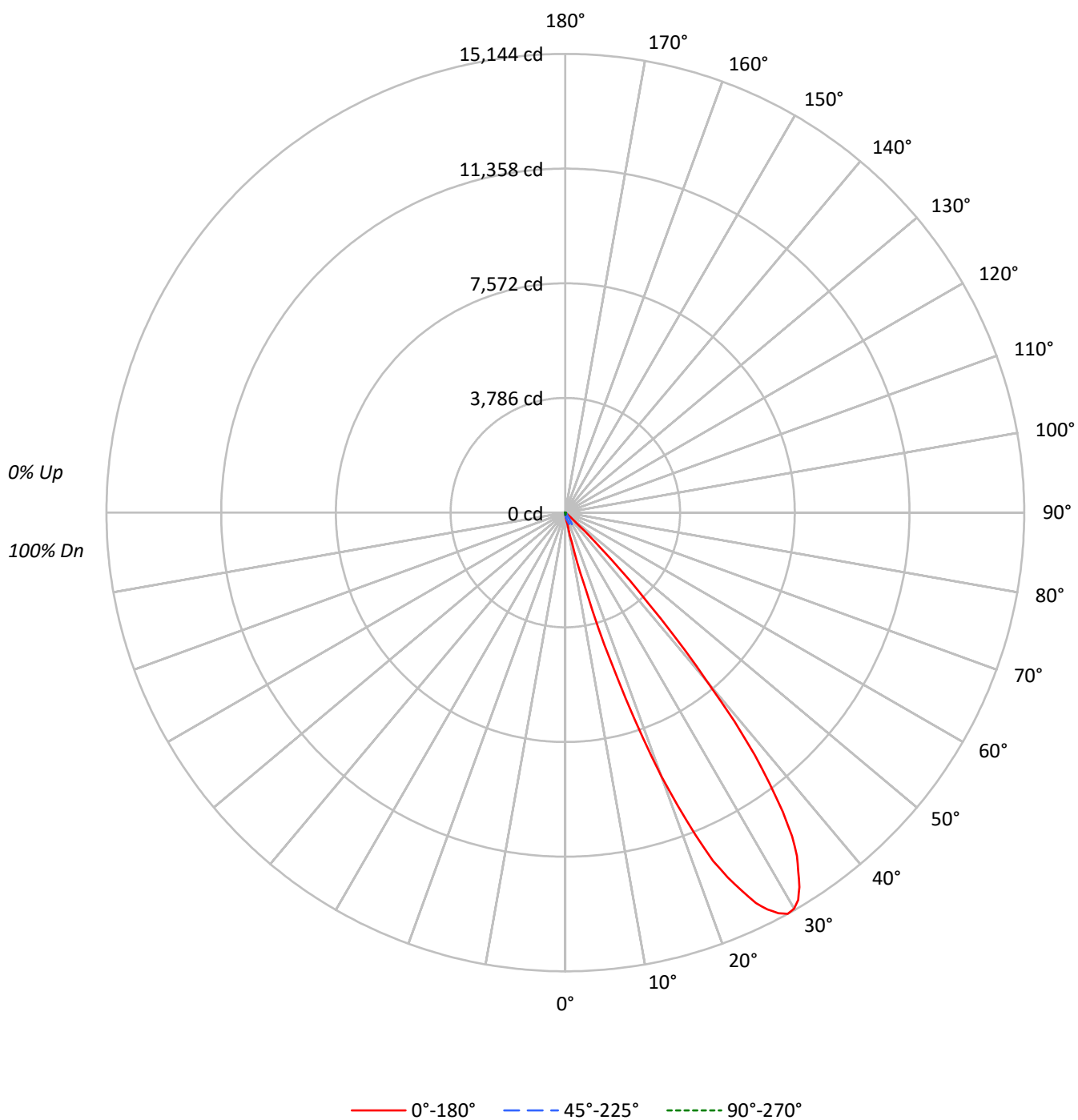
Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	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°	12882	12882	12882	12882	12882
5°	28024	19760	11860	5394	3959
10°	69794	34888	8359	1084	0
15°	491051	47802	4814	0	0
20°	1697150	80385	1906	0	0
25°	2615983	102690	798	0	0
30°	3002632	79367	0	0	0
35°	2742247	30149	0	0	0
40°	1643979	14029	0	0	0
45°	403992	6576	0	0	0
50°	44557	1661	0	0	0
55°	6245	0	631	0	0
60°	0	0	1447	0	0
65°	0	0	1712	0	0
70°	0	1057	3122	0	0
75°	0	1397	4126	0	0
80°	0	2083	6149	0	0
85°	0	4150	12251	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 430833 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.4
10°-20°	163.2	7.8
20°-30°	825.6	39.5
30°-40°	893.3	42.7
40°-50°	188.7	9.0
50°-60°	5.7	0.3
60°-70°	1.4	0.1
70°-80°	1.9	0.1
80°-90°	1.7	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°	997.4	47.7
0°-40°	1890.6	90.5
0°-60°	2085.0	99.8
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	162	114	69	31	23	23
15°	2754	268	27	0	0	1148
25°	13766	540	4	0	0	6222
35°	13043	143	0	0	0	7691
45°	1659	27	0	0	0	1825
55°	21	0	2	0	0	37
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	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°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	101.9	99.8	101.9	99.8	101.9	101.9	101.9	99.8	99.8	99.8	99.8
5°	162.1	162.1	160.1	162.1	162.1	162.1	162.1	160.1	160.1	158.0	158.0
7.5°	255.7	255.7	253.6	253.6	255.7	257.7	249.4	253.6	253.6	253.6	251.5
10°	399.1	407.4	399.1	409.5	401.2	394.9	405.3	394.9	394.9	392.9	386.6
12.5°	1006.0	983.2	968.6	933.3	968.6	941.6	947.8	941.6	920.8	893.8	877.2
15°	2754.1	2754.1	2673.1	2781.1	2702.2	2731.3	2581.6	2583.7	2506.8	2423.6	2377.9
17.5°	5757.7	5809.6	5755.6	5722.3	5651.7	5549.8	5508.2	5402.2	5263.0	5100.8	5082.1
20°	9260.1	9041.8	9143.7	9050.1	8991.9	8867.2	8728.0	8640.7	8518.0	8312.2	8008.8
21°	10361.7	10353.4	10351.3	10349.2	10264.0	10060.3	9933.5	9758.9	9586.4	9374.4	9120.8
22°	11471.7	11511.2	11527.8	11407.2	11232.6	11141.2	11053.9	10814.8	10542.6	10432.4	10131.0
23°	12490.2	12452.8	12344.7	12288.6	12153.4	12126.4	11866.6	11714.9	11448.8	11328.3	10970.7
24°	13184.4	13165.7	13115.8	13032.7	12924.6	12758.3	12602.4	12363.4	12145.1	11947.7	11615.1
25°	13766.4	13783.1	13691.6	13635.5	13519.1	13332.0	13140.8	12878.9	12675.2	12444.4	12059.9
26°	14342.2	14225.8	14153.0	14069.9	13943.1	13729.0	13544.0	13309.1	13061.8	12804.0	12427.8
27°	14697.6	14593.7	14483.5	14402.5	14257.0	14053.3	13855.8	13596.0	13319.5	13059.7	12673.1
28°	14978.2	14863.9	14755.8	14658.1	14491.8	14273.6	14036.6	13772.7	13485.8	13217.7	12822.8
29°	15144.5	15009.4	14893.0	14782.9	14631.1	14394.2	14155.1	13872.4	13596.0	13315.4	12912.1
30°	15098.8	14982.4	14870.2	14757.9	14604.1	14381.7	14144.7	13874.5	13596.0	13319.5	12910.1
31°	14920.0	14776.6	14695.5	14583.3	14450.3	14223.7	14020.0	13724.9	13473.3	13174.0	12764.6
32°	14577.1	14485.6	14377.5	14290.2	14161.4	13920.2	13720.7	13479.6	13182.3	12937.1	12506.8
33°	14111.5	14026.2	13972.2	13870.4	13745.6	13579.4	13340.3	13120.0	12785.3	12533.8	12103.6
34°	13666.7	13558.6	13423.5	13394.4	13286.3	13072.2	12856.0	12631.5	12332.2	12012.1	11577.7
35°	13043.1	12930.8	12806.1	12816.5	12687.6	12438.2	12217.9	11966.4	11681.6	11305.4	10893.8
36°	12209.6	12134.7	12116.0	12066.1	11918.6	11621.3	11411.4	11095.5	10856.4	10397.0	10043.7
37°	11193.1	11220.2	11085.1	11020.6	10848.1	10640.2	10521.8	10116.4	9837.9	9492.9	9014.8
38°	10166.3	10126.8	9966.8	10006.3	9769.3	9553.1	9218.5	8977.4	8665.6	8345.5	7963.0
39°	8883.8	8786.2	8594.9	8603.2	8424.5	8181.3	7857.0	7572.3	7385.2	7077.6	6711.7
40°	7312.4	7270.9	7204.4	7094.2	6859.3	6753.3	6464.4	6156.7	5998.8	5572.7	5393.9
42.5°	4057.4	4001.3	3889.0	3849.5	3724.8	3600.1	3431.7	3226.0	3126.2	2999.4	2716.7
45°	1658.7	1768.9	1741.8	1710.7	1615.1	1621.3	1500.7	1515.3	1405.1	1330.3	1278.3
47.5°	365.8	397.0	399.1	384.5	399.1	386.6	380.4	370.0	372.1	378.3	363.8
50°	166.3	164.2	168.4	166.3	164.2	162.1	160.1	153.8	158.0	153.8	149.7
52.5°	64.4	66.5	66.5	62.4	64.4	64.4	64.4	62.4	62.4	62.4	62.4
55°	20.8	20.8	20.8	18.7	18.7	20.8	20.8	20.8	20.8	20.8	18.7
57.5°	2.1	4.2	2.1	4.2	2.1	2.1	2.1	2.1	2.1	4.2	4.2
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°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	95.6	87.3	81.1	74.8	62.4	52.0	47.8	47.8
5°	147.6	114.3	85.2	68.6	47.8	31.2	24.9	22.9
7.5°	222.4	153.8	89.4	58.2	31.2	16.6	10.4	8.3
10°	322.2	199.5	93.5	47.8	18.7	6.2	0.0	0.0
12.5°	563.3	239.0	93.5	37.4	8.3	0.0	0.0	0.0
15°	1290.8	268.1	89.4	27.0	2.1	0.0	0.0	0.0
17.5°	2681.4	336.7	79.0	18.7	0.0	0.0	0.0	0.0
20°	4281.9	438.6	62.4	10.4	0.0	0.0	0.0	0.0
21°	4940.8	473.9	56.1	8.3	0.0	0.0	0.0	0.0
22°	5414.7	507.2	49.9	6.2	0.0	0.0	0.0	0.0
23°	5936.4	528.0	43.7	4.2	0.0	0.0	0.0	0.0
24°	6321.0	540.4	37.4	4.2	0.0	0.0	0.0	0.0
25°	6560.0	540.4	33.3	4.2	0.0	0.0	0.0	0.0
26°	6701.3	528.0	29.1	2.1	0.0	0.0	0.0	0.0
27°	6734.6	507.2	24.9	2.1	0.0	0.0	0.0	0.0
28°	6693.0	480.2	20.8	0.0	0.0	0.0	0.0	0.0
29°	6562.1	440.7	18.7	0.0	0.0	0.0	0.0	0.0
30°	6420.7	399.1	14.6	0.0	0.0	0.0	0.0	0.0
31°	6179.6	343.0	12.5	0.0	0.0	0.0	0.0	0.0
32°	5901.1	284.8	10.4	0.0	0.0	0.0	0.0	0.0
33°	5529.0	224.5	8.3	0.0	0.0	0.0	0.0	0.0
34°	4980.3	176.7	8.3	0.0	0.0	0.0	0.0	0.0
35°	4487.7	143.4	6.2	0.0	0.0	0.0	0.0	0.0
36°	3843.3	114.3	6.2	0.0	0.0	0.0	0.0	0.0
37°	3292.5	95.6	6.2	0.0	0.0	0.0	0.0	0.0
38°	2756.2	81.1	4.2	0.0	0.0	0.0	0.0	0.0
39°	2236.6	70.7	4.2	0.0	0.0	0.0	0.0	0.0
40°	1783.4	62.4	4.2	0.0	0.0	0.0	0.0	0.0
42.5°	962.4	41.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	532.1	27.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	234.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	79.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	18.7	0.0	0.0	2.1	0.0	0.0	0.0	0.0
57.5°	4.2	0.0	0.0	2.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	2.1	4.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	2.1	4.2	2.1	0.0	0.0	0.0
65°	0.0	0.0	4.2	4.2	2.1	0.0	0.0	0.0
67.5°	0.0	2.1	4.2	6.2	2.1	0.0	0.0	0.0
70°	0.0	2.1	4.2	6.2	2.1	0.0	0.0	0.0
72.5°	0.0	2.1	4.2	6.2	2.1	0.0	0.0	0.0
75°	0.0	2.1	4.2	6.2	2.1	0.0	0.0	0.0
77.5°	0.0	2.1	4.2	6.2	2.1	0.0	0.0	0.0
80°	0.0	2.1	4.2	6.2	2.1	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	2.1	4.2	6.2	2.1	0.0	0.0	0.0
85°	0.0	2.1	4.2	6.2	2.1	0.0	0.0	0.0
87.5°	0.0	2.1	4.2	6.2	2.1	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)