

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: P1307368

Luminaire Tested: P3SQAS24R409027D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307368
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: P3SQAS24R409027D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

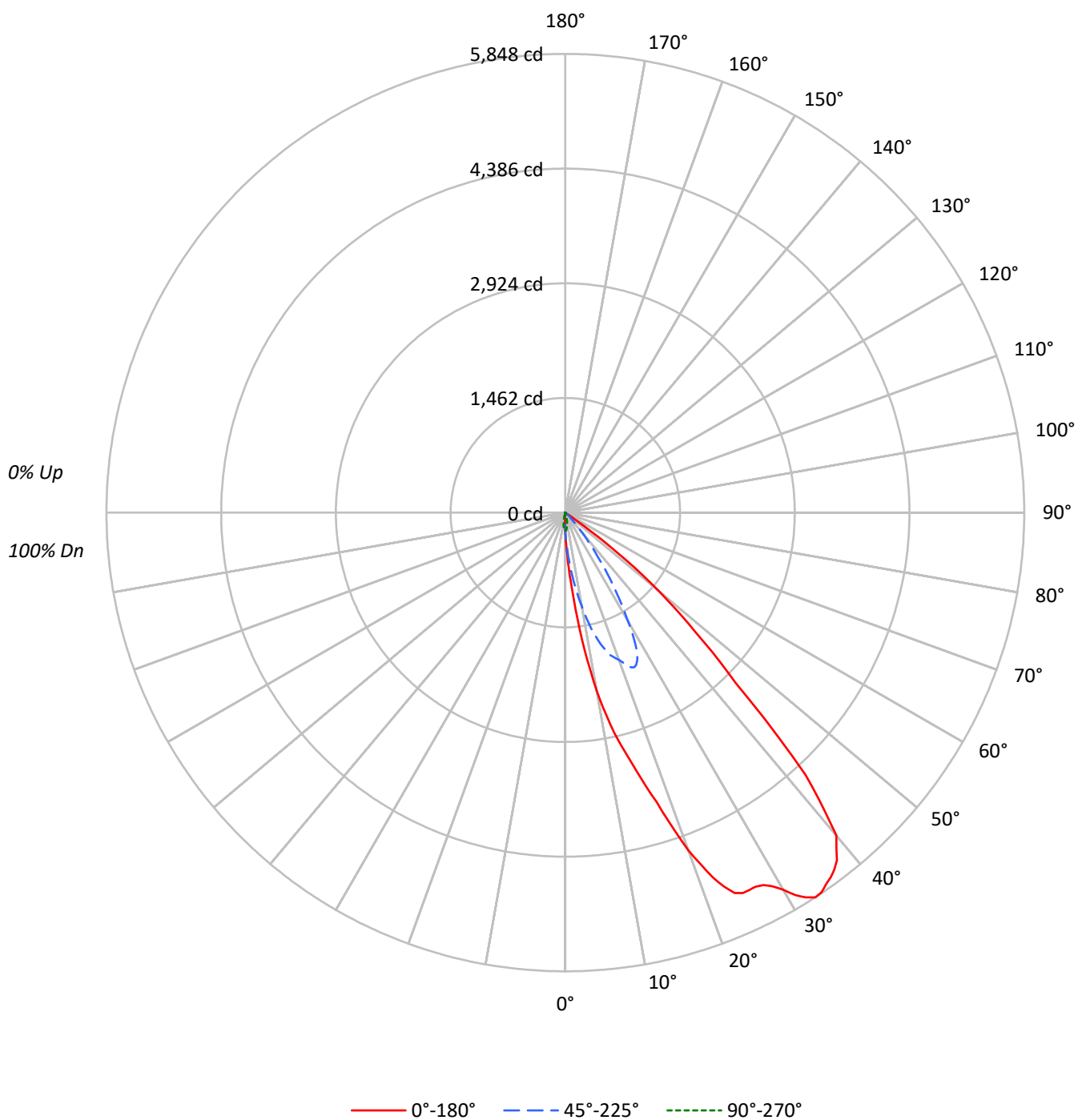
Lumens per Lamp: N/A
Luminaire Lumens: 1963.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
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°	39542	39542	39542	39542	39542
5°	167832	114395	34697	6258	3129
10°	403412	212776	21493	630	0
15°	593732	309115	9022	0	0
20°	839255	366441	3317	0	0
25°	1016510	406733	0	0	0
30°	1103704	318165	0	0	0
35°	1217024	186235	0	0	0
40°	1207917	75607	0	0	0
45°	748093	22018	0	0	0
50°	416552	482	0	0	0
55°	40715	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: 751601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	2.2
10°-20°	253.0	12.9
20°-30°	577.6	29.4
30°-40°	682.0	34.7
40°-50°	364.4	18.6
50°-60°	39.6	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°	873.6	44.5
0°-40°	1555.6	79.2
0°-60°	1959.5	99.8
0°-90°	1963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	230	230	230	230	230	
5°	971	662	201	36	18	137
15°	3330	1734	51	0	0	989
25°	5349	2140	0	0	0	2429
35°	5789	886	0	0	0	3576
45°	3072	90	0	0	0	2532
55°	136	0	0	0	0	380
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°	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6	229.6
2.5°	535.1	524.3	531.5	517.0	517.0	484.5	486.3	459.2	419.4	320.0	227.8
5°	970.8	1014.2	979.8	934.6	909.3	876.8	833.4	788.2	661.7	399.5	200.7
7.5°	1625.2	1621.6	1563.8	1514.9	1458.9	1372.1	1290.8	1180.5	941.9	457.4	166.3
10°	2306.8	2294.1	2229.0	2187.5	2080.8	1956.1	1789.7	1612.6	1216.7	477.3	122.9
12.5°	2874.4	2858.2	2803.9	2733.4	2615.9	2458.6	2279.7	2046.4	1505.9	455.6	79.5
15°	3330.0	3326.4	3273.9	3178.1	3055.2	2901.5	2699.1	2418.9	1733.7	399.5	50.6
17.5°	3870.5	3892.2	3798.2	3695.2	3518.0	3302.9	3055.2	2735.2	1901.8	330.8	32.5
20°	4579.2	4548.5	4461.7	4311.6	4141.7	3883.2	3532.5	3075.1	1999.4	256.7	18.1
21°	4796.1	4783.5	4693.1	4553.9	4365.9	4103.7	3742.2	3248.6	2044.6	229.6	14.5
22°	5016.7	4995.0	4924.5	4788.9	4611.7	4315.2	3917.5	3427.6	2102.5	200.7	9.0
23°	5181.2	5172.1	5117.9	4984.1	4801.5	4514.1	4107.3	3593.9	2142.3	173.5	5.4
24°	5307.7	5296.9	5242.7	5141.4	4984.1	4684.0	4299.0	3772.9	2158.5	150.0	1.8
25°	5349.3	5354.7	5322.2	5242.7	5110.7	4810.6	4441.8	3913.9	2140.4	128.4	0.0
26°	5351.1	5367.4	5343.9	5298.7	5190.2	4911.8	4575.6	3997.1	2093.4	108.5	0.0
27°	5351.1	5367.4	5343.9	5309.5	5202.9	4969.7	4647.9	4006.1	2021.1	92.2	0.0
28°	5376.4	5385.5	5354.7	5313.2	5197.5	4987.8	4667.8	3951.9	1905.4	79.5	0.0
29°	5446.9	5437.9	5387.3	5331.2	5192.0	4987.8	4608.1	3848.8	1760.8	66.9	0.0
30°	5550.0	5550.0	5470.4	5381.9	5217.3	4985.9	4512.3	3662.6	1599.9	54.2	0.0
31°	5689.2	5676.5	5597.0	5465.0	5271.6	4985.9	4371.3	3456.5	1451.7	47.0	0.0
32°	5783.2	5776.0	5700.0	5544.6	5360.2	4985.9	4219.4	3228.8	1290.8	38.0	0.0
33°	5848.3	5833.8	5747.0	5586.1	5414.4	4960.6	4049.5	2984.7	1146.2	30.7	0.0
34°	5839.2	5835.6	5745.2	5578.9	5403.5	4855.8	3852.4	2713.5	1012.4	25.3	0.0
35°	5788.6	5788.6	5678.3	5506.6	5325.8	4702.1	3657.2	2482.1	885.8	18.1	0.0
36°	5750.6	5736.2	5611.4	5419.8	5195.7	4459.9	3368.0	2248.9	750.2	14.5	0.0
37°	5694.6	5667.5	5528.3	5322.2	5011.3	4197.7	3064.2	2041.0	634.5	9.0	0.0
38°	5622.3	5580.7	5410.8	5208.3	4808.8	3895.8	2755.1	1807.8	527.9	5.4	0.0
39°	5490.3	5456.0	5280.6	5061.9	4566.5	3577.7	2455.0	1589.1	426.6	1.8	0.0
40°	5372.8	5313.2	5114.3	4863.0	4282.7	3217.9	2156.7	1373.9	336.3	0.0	0.0
42.5°	4530.4	4467.1	4421.9	4172.4	3411.3	2310.4	1505.9	880.4	175.4	0.0	0.0
45°	3071.5	3085.9	2944.9	2776.8	2250.7	1505.9	941.9	489.9	90.4	0.0	0.0
47.5°	2239.9	2201.9	2010.3	1692.1	1319.7	880.4	491.7	236.8	36.2	0.0	0.0
50°	1554.7	1482.4	1308.9	1070.2	717.7	419.4	216.9	110.3	1.8	0.0	0.0
52.5°	844.2	793.6	672.5	488.1	298.3	160.9	86.8	45.2	0.0	0.0	0.0
55°	135.6	94.0	97.6	83.2	65.1	47.0	27.1	5.4	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°	229.6	229.6	229.6	229.6
2.5°	153.7	104.9	79.5	68.7
5°	88.6	36.2	19.9	18.1
7.5°	43.4	12.7	7.2	7.2
10°	18.1	3.6	0.0	0.0
12.5°	5.4	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)