

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: P1308421

Luminaire Tested: P3SQAS24R209030D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R209030D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

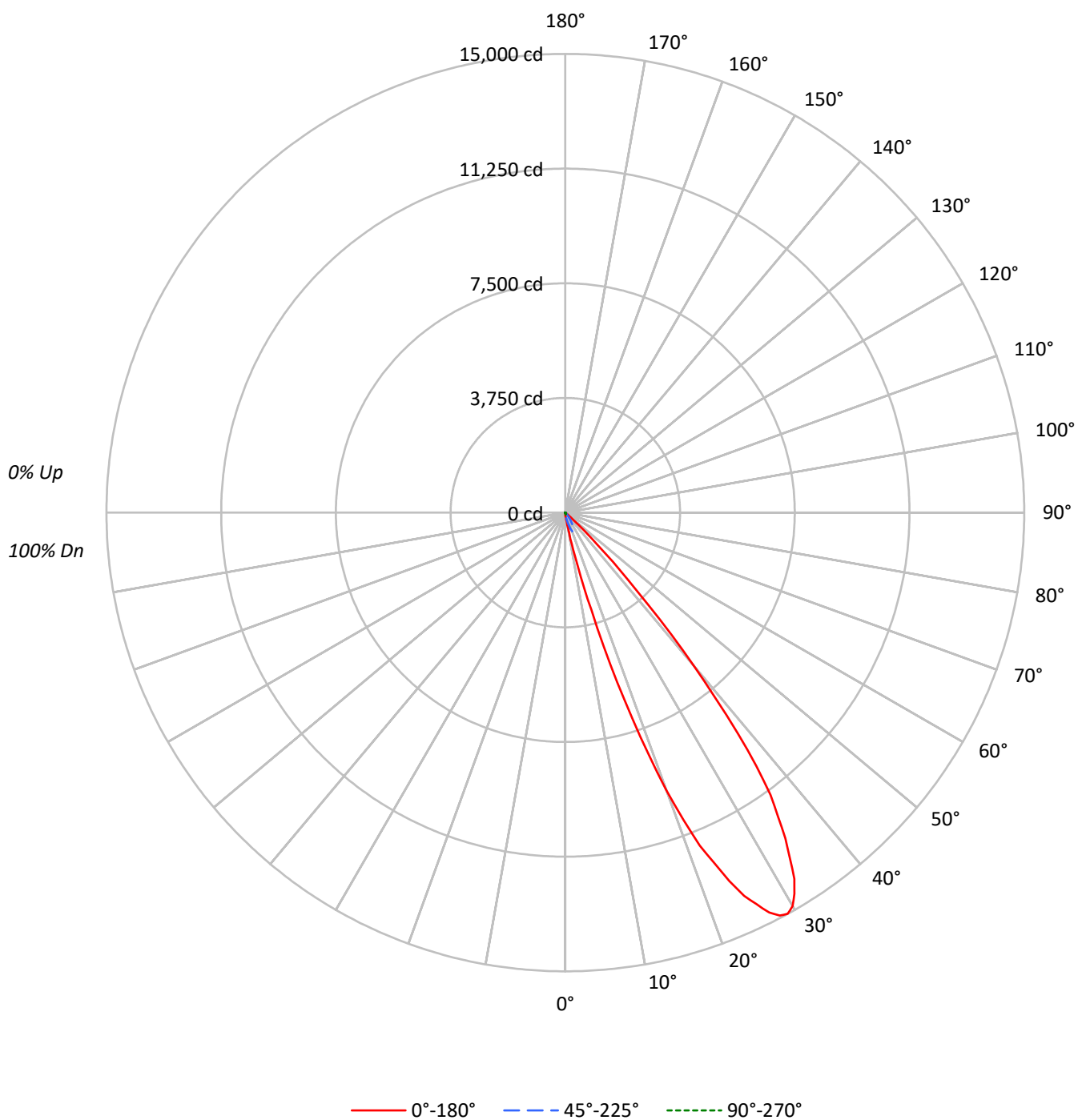
Lumens per Lamp: N/A
Luminaire Lumens: 2103.9 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12486	12486	12486	12486	12486
5°	28715	21454	11877	7261	6276
10°	90465	37389	9688	4005	3008
15°	586066	69090	7150	1355	339
20°	1768792	118249	4893	0	0
25°	2626872	119337	2907	0	0
30°	2954049	90722	1134	0	0
35°	2548800	54180	799	0	0
40°	1467674	18458	0	0	0
45°	357984	7429	463	0	463
50°	42949	2036	509	509	1527
55°	5735	0	1141	1141	2282
60°	654	0	1963	1963	3272
65°	774	774	3097	3097	4686
70°	957	957	3827	3827	4784
75°	0	1264	5057	3793	5057
80°	0	1884	5653	3769	5653
85°	0	3754	11263	3754	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 360298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.5
10°-20°	195.0	9.3
20°-30°	849.9	40.4
30°-40°	855.9	40.7
40°-50°	171.7	8.2
50°-60°	8.6	0.4
60°-70°	5.6	0.3
70°-80°	5.0	0.2
80°-90°	2.5	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°	1054.6	50.1
0°-40°	1910.5	90.8
0°-60°	2090.7	99.4
0°-90°	2103.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	166	124	69	42	36	26
15°	3287	388	40	8	2	1287
25°	13824	628	15	0	0	6233
35°	12123	258	4	0	0	7213
45°	1470	30	2	0	2	1600
55°	19	0	4	4	8	35
65°	2	2	8	8	12	2
75°	0	2	8	6	8	1
85°	0	2	6	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	108.8	108.8	106.9	106.9	105.0	106.9	103.1	105.0	105.0	103.1	93.5
5°	166.1	169.9	168.0	168.0	166.1	168.0	164.2	160.3	156.5	156.5	124.1
7.5°	273.0	271.1	267.2	269.1	263.4	259.6	255.8	253.9	242.4	236.7	162.3
10°	517.3	528.7	519.2	517.3	482.9	481.0	458.1	425.7	397.0	381.8	213.8
12.5°	1424.0	1485.1	1389.6	1343.8	1317.1	1214.0	1170.1	1057.5	948.7	866.6	271.1
15°	3287.0	3437.8	3245.0	3258.4	3098.0	2804.1	2546.4	2325.0	2063.4	1800.0	387.5
17.5°	6440.4	6318.2	6213.2	6035.7	5709.3	5277.9	4722.4	4159.3	3672.6	3162.9	540.2
20°	9651.0	9542.2	9303.6	8916.1	8500.0	7860.5	7200.1	6354.5	5535.6	4768.2	645.2
21°	10756.2	10720.0	10328.7	10090.1	9448.7	8837.9	8076.2	7171.5	6249.5	5340.9	662.4
22°	11743.1	11525.5	11315.5	10962.4	10324.8	9660.6	8813.1	7860.5	6860.3	5850.6	664.3
23°	12426.5	12327.2	12128.7	11729.7	11096.0	10315.3	9422.0	8425.6	7371.9	6211.3	658.5
24°	13182.4	13056.4	12766.2	12300.5	11661.0	10889.9	9870.5	8881.8	7736.5	6514.8	643.3
25°	13823.7	13627.1	13283.5	12781.5	12082.9	11286.9	10261.9	9175.7	7990.3	6719.1	628.0
26°	14239.8	14133.0	13692.0	13146.1	12397.8	11577.0	10531.0	9401.0	8154.5	6812.6	603.2
27°	14673.2	14476.5	14043.2	13415.2	12604.0	11766.0	10683.7	9509.8	8211.8	6816.4	572.6
28°	14921.3	14707.5	14216.9	13556.5	12737.6	11871.0	10771.5	9544.1	8200.3	6757.2	536.4
29°	14999.6	14730.4	14251.3	13579.4	12770.1	11878.6	10758.1	9494.5	8099.2	6612.2	494.4
30°	14854.5	14579.6	14125.3	13470.6	12667.0	11783.2	10634.1	9330.3	7919.7	6404.1	456.2
31°	14537.6	14304.7	13865.7	13209.1	12437.9	11559.9	10353.5	9061.2	7614.3	6125.4	412.3
32°	14119.6	13890.5	13459.1	12865.5	12081.0	11195.3	9969.8	8641.3	7255.5	5709.3	368.4
33°	13491.6	13359.9	12972.4	12405.5	11620.9	10674.2	9454.4	8139.2	6743.9	5247.4	330.2
34°	12855.9	12689.9	12418.8	11798.5	10954.8	10009.9	8782.5	7446.3	6119.7	4730.1	294.0
35°	12123.0	12023.7	11598.0	11101.7	10254.2	9288.4	8068.6	6772.5	5392.4	4153.6	257.7
36°	11412.9	11260.2	10775.3	10250.4	9427.7	8383.6	7179.1	5961.3	4764.4	3613.4	219.5
37°	10382.1	10149.2	9803.7	9250.2	8288.1	7398.6	6299.1	5169.1	3991.4	3029.3	177.5
38°	9170.0	9061.2	8582.1	8024.7	7228.7	6385.0	5297.0	4338.8	3292.7	2529.2	135.5
39°	7740.3	7738.4	7280.3	6877.5	6098.7	5339.0	4357.9	3521.8	2718.2	2036.7	105.0
40°	6528.2	6302.9	6020.4	5514.6	4917.1	4272.0	3413.0	2756.3	2109.3	1641.6	82.1
42.5°	3422.5	3403.4	3237.4	2857.5	2523.5	2143.6	1704.6	1420.2	1110.9	904.8	51.5
45°	1469.8	1479.3	1364.8	1307.5	1177.7	1019.3	860.9	717.7	614.6	498.2	30.5
47.5°	372.2	357.0	353.1	366.5	366.5	355.0	318.8	299.7	276.8	253.9	17.2
50°	160.3	156.5	152.7	152.7	143.2	137.4	127.9	116.4	106.9	95.4	7.6
52.5°	59.2	61.1	63.0	61.1	61.1	59.2	59.2	57.3	51.5	45.8	3.8
55°	19.1	19.1	19.1	21.0	21.0	22.9	22.9	22.9	22.9	21.0	0.0
57.5°	3.8	3.8	5.7	5.7	5.7	5.7	5.7	5.7	7.6	7.6	0.0
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	1.9	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	0.0	0.0	0.0	1.9	0.0	1.9	1.9	0.0	1.9	1.9	1.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	84.0	74.4	63.0	53.4	51.5	49.6
5°	93.5	68.7	51.5	42.0	38.2	36.3
7.5°	101.2	63.0	42.0	30.5	26.7	24.8
10°	105.0	55.4	34.4	22.9	17.2	17.2
12.5°	106.9	47.7	24.8	15.3	9.5	9.5
15°	105.0	40.1	19.1	7.6	1.9	1.9
17.5°	95.4	32.5	11.5	1.9	0.0	0.0
20°	82.1	26.7	7.6	0.0	0.0	0.0
21°	78.3	22.9	5.7	0.0	0.0	0.0
22°	72.5	21.0	3.8	0.0	0.0	0.0
23°	66.8	19.1	3.8	0.0	0.0	0.0
24°	61.1	17.2	1.9	0.0	0.0	0.0
25°	57.3	15.3	1.9	0.0	0.0	0.0
26°	53.4	13.4	1.9	0.0	0.0	0.0
27°	47.7	11.5	0.0	0.0	0.0	0.0
28°	43.9	9.5	0.0	0.0	0.0	0.0
29°	38.2	7.6	0.0	0.0	0.0	0.0
30°	32.5	5.7	0.0	0.0	0.0	0.0
31°	26.7	5.7	0.0	0.0	0.0	0.0
32°	22.9	3.8	0.0	0.0	0.0	0.0
33°	19.1	3.8	0.0	0.0	0.0	0.0
34°	17.2	3.8	0.0	0.0	0.0	0.0
35°	15.3	3.8	0.0	0.0	0.0	0.0
36°	11.5	1.9	0.0	0.0	0.0	0.0
37°	9.5	1.9	0.0	0.0	0.0	0.0
38°	7.6	1.9	0.0	0.0	0.0	0.0
39°	5.7	0.0	0.0	0.0	0.0	0.0
40°	5.7	0.0	0.0	0.0	0.0	0.0
42.5°	1.9	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.9	0.0	0.0	1.9	1.9
47.5°	0.0	1.9	0.0	0.0	1.9	3.8
50°	0.0	1.9	1.9	1.9	3.8	5.7
52.5°	0.0	3.8	1.9	1.9	5.7	5.7
55°	1.9	3.8	1.9	3.8	7.6	7.6
57.5°	1.9	3.8	3.8	5.7	7.6	9.5
60°	3.8	5.7	5.7	5.7	9.5	9.5
62.5°	3.8	5.7	7.6	7.6	9.5	11.5
65°	3.8	7.6	7.6	7.6	9.5	11.5
67.5°	5.7	7.6	7.6	7.6	9.5	11.5
70°	5.7	7.6	7.6	7.6	9.5	9.5
72.5°	5.7	7.6	5.7	7.6	7.6	9.5
75°	5.7	7.6	5.7	5.7	7.6	7.6
77.5°	3.8	5.7	5.7	3.8	5.7	5.7
80°	3.8	5.7	3.8	3.8	5.7	5.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.8	5.7	3.8	1.9	3.8	3.8
85°	3.8	5.7	3.8	1.9	1.9	1.9
87.5°	3.8	5.7	3.8	1.9	0.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)