

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: P1308438

Luminaire Tested: P3SQAS24R259030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R259030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

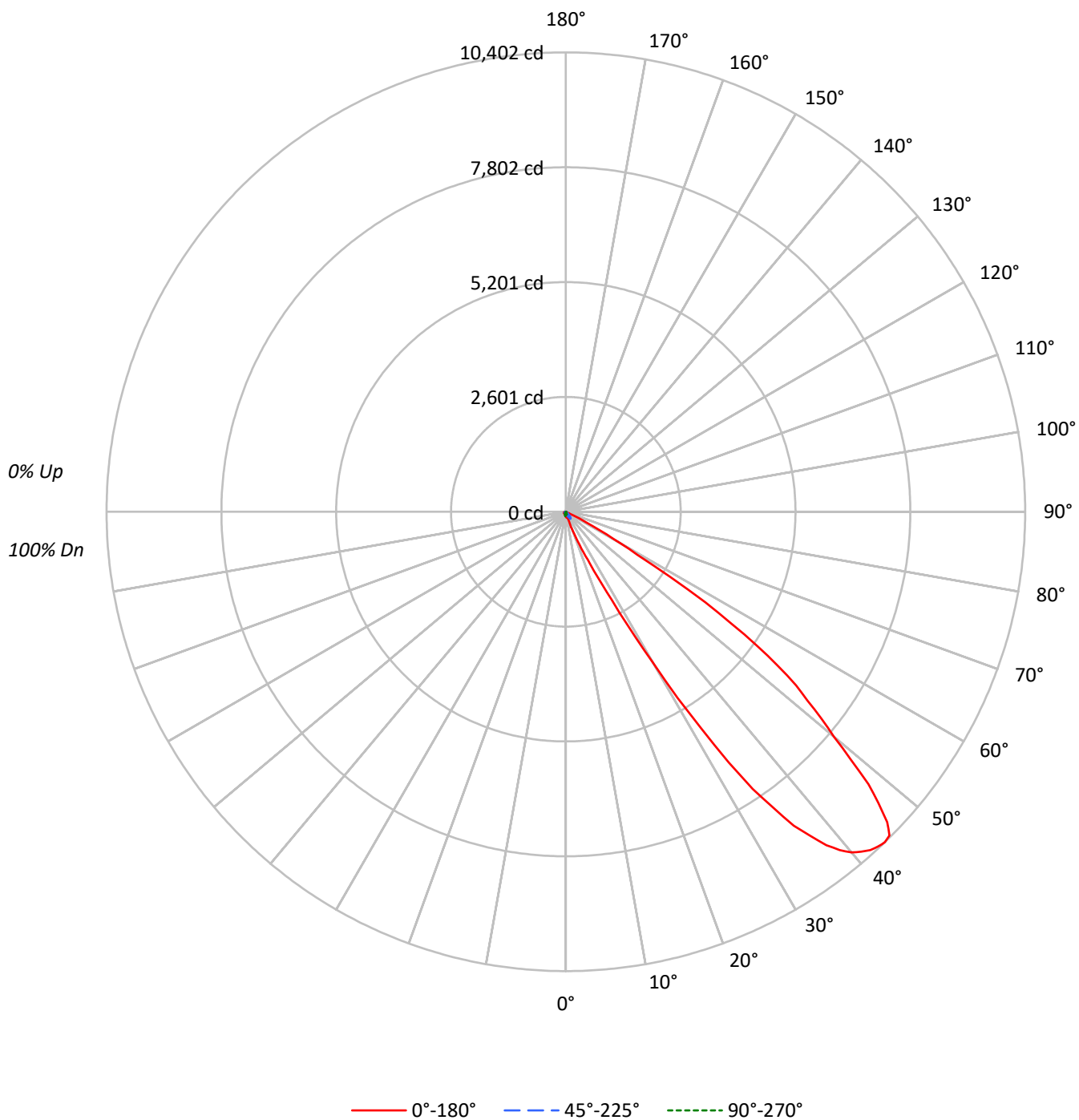
Lumens per Lamp: N/A
Luminaire Lumens: 2169.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19065	19065	19065	19065	19065
5°	21783	20780	18481	16493	16164
10°	21703	19691	15687	13693	13693
15°	24159	17010	12249	11572	12249
20°	85351	16788	9439	9787	10850
25°	245552	21397	7620	9064	10527
30°	783431	33032	6065	8730	10619
35°	1715915	38916	5214	8431	10828
40°	2263540	35184	4294	8588	11578
45°	2524276	24648	4189	9304	12543
50°	2124826	12780	4099	9726	13798
55°	1588621	5164	4023	10899	15463
60°	491765	1309	3961	11849	17084
65°	42015	0	4686	12429	18664
70°	2870	957	4784	14401	21149
75°	2529	1264	6321	15238	24155
80°	1884	1884	9422	17059	28365
85°	3754	3754	15018	18772	30233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2524276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.5
10°-20°	25.6	1.2
20°-30°	120.0	5.5
30°-40°	577.7	26.6
40°-50°	905.6	41.8
50°-60°	464.3	21.4
60°-70°	43.8	2.0
70°-80°	14.7	0.7
80°-90°	7.4	0.3
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°	155.5	7.2
0°-40°	733.2	33.8
0°-60°	2103.1	97.0
0°-90°	2169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	111	111	111	111	111	
5°	126	120	107	95	94	12
15°	136	95	69	65	69	57
25°	1292	113	40	48	55	802
35°	8162	185	25	40	52	4954
45°	10364	101	17	38	52	7584
55°	5291	17	13	36	52	4405
65°	103	0	12	30	46	323
75°	4	2	10	23	36	5
85°	2	2	8	10	15	1
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°	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7
2.5°	120.2	120.2	120.2	120.2	120.2	120.2	118.3	118.3	120.2	118.3	118.3
5°	126.0	126.0	126.0	126.0	126.0	126.0	126.0	124.1	124.1	124.1	120.2
7.5°	127.9	126.0	126.0	126.0	126.0	126.0	126.0	126.0	124.1	124.1	118.3
10°	124.1	124.1	124.1	124.1	122.2	122.2	122.2	120.2	120.2	120.2	112.6
12.5°	124.1	124.1	124.1	124.1	122.2	122.2	120.2	120.2	118.3	116.4	103.1
15°	135.5	135.5	135.5	133.6	131.7	129.8	127.9	126.0	124.1	120.2	95.4
17.5°	198.5	192.8	190.9	183.2	173.7	164.1	156.5	148.9	141.2	135.5	91.6
20°	465.7	463.8	454.3	431.4	406.5	377.9	349.3	316.8	271.0	240.5	91.6
22.5°	807.4	795.9	778.7	761.6	717.7	666.1	612.7	551.6	492.4	429.5	97.3
25°	1292.2	1318.9	1261.6	1215.8	1139.5	1046.0	944.8	860.8	753.9	654.7	112.6
27.5°	2246.5	2263.7	2151.1	2002.2	1824.7	1628.1	1437.2	1294.1	1114.7	950.5	141.2
30°	3939.5	3956.7	3767.7	3450.9	3084.4	2761.8	2324.8	1941.1	1588.0	1315.1	166.1
31°	4916.7	4783.1	4563.6	4256.3	3792.5	3305.8	2780.9	2317.1	1870.5	1511.7	173.7
32°	5766.1	5754.6	5498.9	5033.2	4567.4	3966.2	3315.4	2710.3	2162.5	1710.2	179.4
33°	6768.1	6691.8	6331.1	5892.1	5275.6	4670.5	3830.7	3139.8	2462.2	1931.6	183.2
34°	7571.7	7365.6	7216.7	6714.7	6063.8	5292.7	4393.8	3594.0	2836.3	2145.3	185.1
35°	8161.5	8117.6	7827.5	7359.8	6697.5	5909.2	5000.7	4065.5	3149.3	2393.5	185.1
36°	8785.6	8650.1	8367.6	7943.9	7298.8	6483.7	5464.5	4473.9	3513.9	2616.8	183.2
37°	9176.9	9096.7	8816.1	8379.1	7747.3	6968.6	5983.7	4905.3	3804.0	2840.1	179.4
38°	9579.6	9417.4	9140.6	8722.6	8102.3	7371.3	6359.7	5237.4	4071.2	3036.7	173.7
39°	9858.3	9690.3	9407.8	8991.7	8384.8	7659.5	6657.4	5519.9	4304.0	3183.7	166.1
40°	10068.2	9906.0	9619.7	9192.1	8592.8	7886.6	6905.6	5769.9	4498.7	3311.5	156.5
41°	10198.0	10047.2	9762.8	9337.2	8736.0	8016.4	7067.8	5932.1	4630.4	3397.4	147.0
42°	10306.8	10152.2	9862.1	9426.9	8823.8	8127.1	7167.1	6035.2	4720.1	3441.3	139.3
43°	10367.9	10213.3	9930.8	9486.1	8877.2	8178.6	7220.5	6082.9	4750.7	3435.6	126.0
44°	10402.2	10241.9	9957.5	9512.8	8900.1	8192.0	7224.3	6073.4	4729.7	3389.8	114.5
45°	10364.1	10205.7	9930.8	9486.1	8860.0	8150.0	7186.1	6021.9	4649.5	3300.1	101.2
46°	10115.9	9993.8	9741.8	9333.4	8734.1	8043.1	7088.8	5922.6	4525.5	3189.4	85.9
47°	9678.9	9581.5	9337.2	9033.7	8491.7	7846.5	6909.4	5733.6	4351.8	3023.3	68.7
48°	9222.7	9079.5	8852.4	8541.3	8083.2	7493.4	6613.5	5456.9	4088.4	2805.7	61.1
49°	8548.9	8464.9	8264.5	7917.2	7537.3	7018.2	6195.5	5101.9	3765.8	2569.1	53.4
50°	7930.5	7873.3	7592.7	7336.9	6934.2	6449.4	5628.7	4634.2	3365.0	2275.1	47.7
51°	7447.6	7378.9	7176.6	6857.8	6428.4	5865.3	5092.3	4027.3	2905.0	1925.8	38.2
52°	6943.7	6905.6	6726.1	6397.9	5976.0	5414.9	4571.3	3512.0	2458.4	1628.1	30.5
53°	6531.5	6476.1	6256.6	5964.6	5508.4	4928.2	4006.3	3032.9	2082.4	1368.5	26.7
54°	5930.2	5907.3	5766.1	5460.7	4966.4	4334.6	3494.8	2553.8	1736.9	1160.5	22.9
55°	5290.8	5214.5	5071.3	4828.9	4374.7	3784.9	2903.1	2116.7	1404.8	977.2	17.2
56°	4512.1	4508.3	4252.5	4050.2	3647.5	3021.4	2319.0	1652.9	1141.4	815.0	15.3
57°	3767.7	3647.5	3401.2	3200.8	2767.6	2292.3	1721.6	1238.7	893.3	660.4	11.5
58°	2786.7	2723.7	2658.8	2364.8	1964.0	1624.3	1229.2	870.4	660.4	503.9	7.6
59°	1891.5	1889.6	1813.2	1589.9	1359.0	1011.6	767.3	591.7	454.3	370.3	5.7
60°	1427.7	1393.3	1240.6	1093.7	855.1	639.4	454.3	349.3	282.5	238.6	3.8
62.5°	500.1	519.2	456.2	377.9	288.2	236.7	181.3	147.0	120.2	97.3	0.0
65°	103.1	112.6	97.3	91.6	72.5	63.0	55.4	47.7	40.1	34.4	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	13.4	11.5	11.5	11.5	9.5	9.5	9.5	9.5	7.6	7.6	1.9
70°	5.7	5.7	5.7	5.7	5.7	5.7	3.8	3.8	3.8	3.8	1.9
72.5°	5.7	5.7	5.7	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8
85°	1.9	1.9	1.9	0.0	0.0	1.9	1.9	1.9	1.9	1.9	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°	110.7	110.7	110.7	110.7	110.7	110.7
2.5°	116.4	112.6	106.9	105.0	103.1	103.1
5°	114.5	106.9	101.2	95.4	93.5	93.5
7.5°	108.8	99.3	91.6	87.8	85.9	84.0
10°	103.1	89.7	82.1	78.3	78.3	78.3
12.5°	91.6	80.2	72.5	70.6	72.5	72.5
15°	82.1	68.7	64.9	64.9	66.8	68.7
17.5°	70.6	61.1	57.3	59.2	61.1	63.0
20°	63.0	51.5	51.5	53.4	59.2	59.2
22.5°	55.4	45.8	45.8	51.5	55.4	57.3
25°	49.6	40.1	42.0	47.7	53.4	55.4
27.5°	42.0	34.4	38.2	45.8	51.5	53.4
30°	36.3	30.5	36.3	43.9	49.6	53.4
31°	34.4	28.6	36.3	42.0	49.6	53.4
32°	30.5	28.6	34.4	42.0	49.6	51.5
33°	28.6	26.7	34.4	42.0	49.6	51.5
34°	26.7	24.8	32.4	42.0	49.6	51.5
35°	22.9	24.8	32.4	40.1	47.7	51.5
36°	21.0	22.9	32.4	40.1	47.7	51.5
37°	19.1	22.9	30.5	40.1	47.7	51.5
38°	17.2	21.0	30.5	40.1	47.7	51.5
39°	15.3	21.0	28.6	40.1	47.7	51.5
40°	13.4	19.1	28.6	38.2	47.7	51.5
41°	13.4	19.1	28.6	38.2	47.7	51.5
42°	11.5	19.1	28.6	38.2	47.7	51.5
43°	9.5	17.2	28.6	38.2	47.7	51.5
44°	7.6	17.2	26.7	38.2	47.7	51.5
45°	7.6	17.2	26.7	38.2	47.7	51.5
46°	5.7	15.3	26.7	38.2	47.7	51.5
47°	3.8	15.3	26.7	36.3	47.7	51.5
48°	3.8	15.3	26.7	36.3	47.7	51.5
49°	3.8	15.3	24.8	36.3	47.7	51.5
50°	3.8	15.3	24.8	36.3	47.7	51.5
51°	1.9	13.4	24.8	36.3	47.7	51.5
52°	1.9	13.4	24.8	36.3	47.7	53.4
53°	1.9	13.4	24.8	36.3	47.7	51.5
54°	1.9	13.4	22.9	36.3	47.7	51.5
55°	1.9	13.4	22.9	36.3	47.7	51.5
56°	1.9	11.5	22.9	34.4	47.7	51.5
57°	3.8	11.5	22.9	34.4	47.7	49.6
58°	3.8	11.5	22.9	34.4	45.8	49.6
59°	3.8	11.5	22.9	34.4	45.8	49.6
60°	3.8	11.5	21.0	34.4	45.8	49.6
62.5°	3.8	11.5	21.0	32.4	43.9	47.7
65°	3.8	11.5	19.1	30.5	43.9	45.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.8	9.5	19.1	28.6	42.0	43.9
70°	5.7	9.5	17.2	28.6	40.1	42.0
72.5°	5.7	9.5	17.2	24.8	36.3	40.1
75°	5.7	9.5	15.3	22.9	34.4	36.3
77.5°	5.7	9.5	13.4	21.0	30.5	32.4
80°	7.6	9.5	11.5	17.2	26.7	28.6
82.5°	7.6	9.5	9.5	13.4	21.0	22.9
85°	5.7	7.6	7.6	9.5	13.4	15.3
87.5°	5.7	7.6	5.7	3.8	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)