

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: P1311751

Luminaire Tested: P3SQAS24R259050D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311751
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: P3SQAS24R259050D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

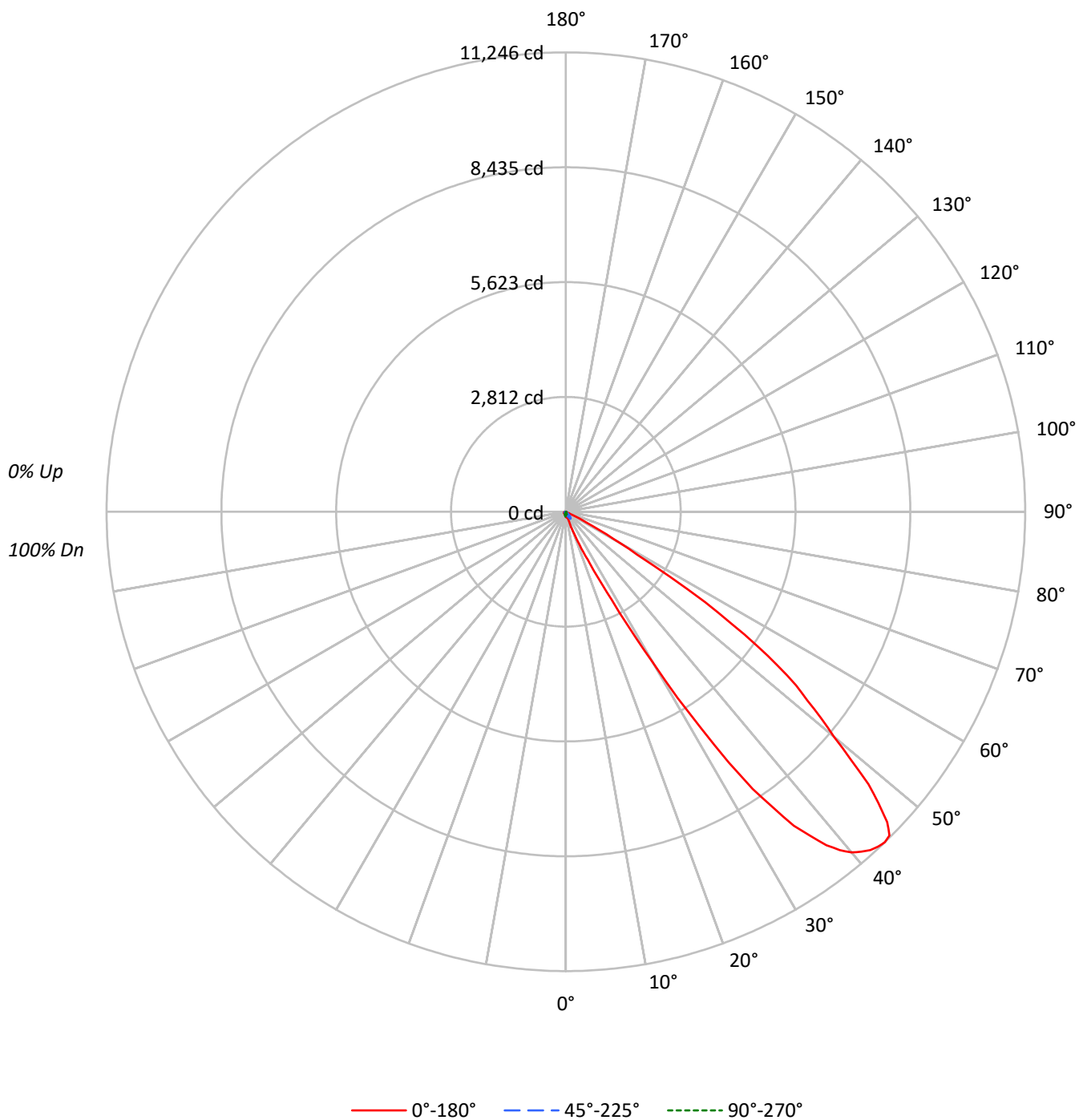
Lumens per Lamp: N/A
Luminaire Lumens: 2345.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20615	20615	20615	20615	20615
5°	23546	22474	19985	17841	17478
10°	23451	21283	16963	14795	14795
15°	26121	18400	13248	12517	13248
20°	92279	18163	10208	10593	11730
25°	265467	23126	8228	9805	11364
30°	847008	35696	6563	9446	11494
35°	1855139	42091	5635	9104	11711
40°	2447218	38040	4631	9285	12523
45°	2729085	26645	4530	10059	13566
50°	2297239	13825	4421	10503	14924
55°	1717523	5585	4324	11770	16725
60°	531651	1412	4271	12779	18497
65°	45397	0	5053	13448	20172
70°	3122	1057	5187	15610	22861
75°	2728	1397	6854	16502	26084
80°	2083	2083	10215	18447	30746
85°	4150	4150	16401	20353	32605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2729085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.5
10°-20°	27.6	1.2
20°-30°	129.7	5.5
30°-40°	624.6	26.6
40°-50°	979.1	41.8
50°-60°	501.9	21.4
60°-70°	47.3	2.0
70°-80°	15.9	0.7
80°-90°	8.0	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°	168.1	7.2
0°-40°	792.7	33.8
0°-60°	2273.7	97.0
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	120	120	120	120	120	
5°	136	130	116	103	101	13
15°	146	103	74	70	74	62
25°	1397	122	43	52	60	867
35°	8824	200	27	43	56	5356
45°	11205	109	19	41	56	8199
55°	5720	19	14	39	56	4762
65°	111	0	12	33	50	349
75°	4	2	10	25	39	5
85°	2	2	8	10	16	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°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
2.5°	130.0	130.0	130.0	130.0	130.0	130.0	127.9	127.9	130.0	127.9	127.9
5°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	134.1	134.1	134.1	130.0
7.5°	138.3	136.2	136.2	136.2	136.2	136.2	136.2	136.2	134.1	134.1	127.9
10°	134.1	134.1	134.1	134.1	132.1	132.1	132.1	130.0	130.0	130.0	121.7
12.5°	134.1	134.1	134.1	134.1	132.1	132.1	130.0	130.0	127.9	125.9	111.4
15°	146.5	146.5	146.5	144.4	142.4	140.3	138.3	136.2	134.1	130.0	103.2
17.5°	214.6	208.4	206.4	198.1	187.8	177.5	169.2	161.0	152.7	146.5	99.1
20°	503.5	501.4	491.1	466.4	439.5	408.6	377.6	342.5	293.0	260.0	99.1
22.5°	872.9	860.5	841.9	823.4	775.9	720.2	662.4	596.4	532.4	464.3	105.2
25°	1397.0	1425.9	1364.0	1314.5	1231.9	1130.8	1021.5	930.7	815.1	707.8	121.7
27.5°	2428.8	2447.4	2325.6	2164.7	1972.7	1760.2	1553.8	1399.1	1205.1	1027.6	152.7
30°	4259.2	4277.7	4073.4	3730.9	3334.7	2985.9	2513.4	2098.6	1716.9	1421.8	179.5
31°	5315.7	5171.2	4933.9	4601.7	4100.3	3574.1	3006.6	2505.1	2022.3	1634.3	187.8
32°	6234.0	6221.6	5945.1	5441.6	4938.1	4288.0	3584.4	2930.2	2338.0	1848.9	194.0
33°	7317.3	7234.8	6844.8	6370.2	5703.6	5049.5	4141.5	3394.5	2662.0	2088.3	198.1
34°	8186.1	7963.2	7802.3	7259.6	6555.9	5722.2	4750.3	3885.7	3066.4	2319.4	200.2
35°	8823.7	8776.3	8462.6	7957.0	7241.0	6388.7	5406.5	4395.4	3404.8	2587.7	200.2
36°	9498.5	9352.0	9046.6	8588.5	7891.0	7009.9	5907.9	4836.9	3799.0	2829.1	198.1
37°	9921.5	9834.9	9531.5	9059.0	8375.9	7534.0	6469.2	5303.3	4112.6	3070.6	194.0
38°	10356.9	10181.5	9882.3	9430.4	8759.7	7969.4	6875.7	5662.4	4401.5	3283.1	187.8
39°	10658.2	10476.6	10171.2	9721.4	9065.2	8281.0	7197.6	5967.8	4653.3	3442.0	179.5
40°	10885.2	10709.8	10400.3	9938.0	9290.1	8526.6	7465.9	6238.1	4863.8	3580.3	169.2
41°	11025.5	10862.5	10555.0	10094.9	9444.8	8666.9	7641.3	6413.5	5006.2	3673.1	158.9
42°	11143.1	10976.0	10662.3	10191.8	9539.8	8786.6	7748.6	6524.9	5103.1	3720.6	150.6
43°	11209.2	11042.0	10736.6	10255.8	9597.5	8842.3	7806.4	6576.5	5136.2	3714.4	136.2
44°	11246.3	11073.0	10765.5	10284.7	9622.3	8856.7	7810.5	6566.2	5113.5	3664.9	123.8
45°	11205.0	11033.8	10736.6	10255.8	9579.0	8811.3	7769.2	6510.5	5026.8	3567.9	109.4
46°	10936.8	10804.7	10532.3	10090.7	9442.8	8695.8	7664.0	6403.2	4892.7	3448.2	92.9
47°	10464.2	10359.0	10094.9	9766.8	9180.7	8483.2	7470.0	6198.9	4704.9	3268.7	74.3
48°	9971.0	9816.3	9570.7	9234.4	8739.1	8101.5	7150.2	5899.7	4420.1	3033.4	66.0
49°	9242.6	9151.8	8935.1	8559.6	8148.9	7587.7	6698.3	5515.9	4071.4	2777.5	57.8
50°	8574.0	8512.1	8208.8	7932.3	7496.9	6972.7	6085.4	5010.3	3638.0	2459.7	51.6
51°	8052.0	7977.7	7758.9	7414.3	6950.0	6341.3	5505.5	4354.1	3140.7	2082.1	41.3
52°	7507.2	7465.9	7271.9	6917.0	6461.0	5854.3	4942.2	3796.9	2657.8	1760.2	33.0
53°	7061.5	7001.6	6764.3	6448.6	5955.4	5328.1	4331.4	3279.0	2251.3	1479.6	28.9
54°	6411.4	6386.7	6234.0	5903.8	5369.3	4686.3	3778.4	2761.0	1877.8	1254.6	24.8
55°	5720.1	5637.6	5482.8	5220.8	4729.6	4092.0	3138.7	2288.5	1518.8	1056.5	18.6
56°	4878.2	4874.1	4597.6	4378.8	3943.4	3266.6	2507.2	1787.0	1234.0	881.1	16.5
57°	4073.4	3943.4	3677.2	3460.6	2992.1	2478.3	1861.3	1339.2	965.7	714.0	12.4
58°	3012.8	2944.7	2874.5	2556.7	2123.4	1756.1	1328.9	941.0	714.0	544.8	8.3
59°	2045.0	2042.9	1960.4	1718.9	1469.2	1093.7	829.5	639.7	491.1	400.3	6.2
60°	1543.5	1506.4	1341.3	1182.4	924.5	691.3	491.1	377.6	305.4	257.9	4.1
62.5°	540.6	561.3	493.2	408.6	311.6	255.9	196.0	158.9	130.0	105.2	0.0
65°	111.4	121.7	105.2	99.1	78.4	68.1	59.8	51.6	43.3	37.1	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°	14.4	12.4	12.4	12.4	10.3	10.3	10.3	10.3	8.3	8.3	2.1
70°	6.2	6.2	6.2	6.2	6.2	6.2	4.1	4.1	4.1	4.1	2.1
72.5°	6.2	6.2	6.2	4.1	4.1	4.1	4.1	4.1	4.1	2.1	2.1
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1
85°	2.1	2.1	2.1	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°	119.7	119.7	119.7	119.7	119.7	119.7
2.5°	125.9	121.7	115.6	113.5	111.4	111.4
5°	123.8	115.6	109.4	103.2	101.1	101.1
7.5°	117.6	107.3	99.1	94.9	92.9	90.8
10°	111.4	97.0	88.7	84.6	84.6	84.6
12.5°	99.1	86.7	78.4	76.4	78.4	78.4
15°	88.7	74.3	70.2	70.2	72.2	74.3
17.5°	76.4	66.0	61.9	64.0	66.0	68.1
20°	68.1	55.7	55.7	57.8	64.0	64.0
22.5°	59.8	49.5	49.5	55.7	59.8	61.9
25°	53.7	43.3	45.4	51.6	57.8	59.8
27.5°	45.4	37.1	41.3	49.5	55.7	57.8
30°	39.2	33.0	39.2	47.5	53.7	57.8
31°	37.1	31.0	39.2	45.4	53.7	57.8
32°	33.0	31.0	37.1	45.4	53.7	55.7
33°	31.0	28.9	37.1	45.4	53.7	55.7
34°	28.9	26.8	35.1	45.4	53.7	55.7
35°	24.8	26.8	35.1	43.3	51.6	55.7
36°	22.7	24.8	35.1	43.3	51.6	55.7
37°	20.6	24.8	33.0	43.3	51.6	55.7
38°	18.6	22.7	33.0	43.3	51.6	55.7
39°	16.5	22.7	31.0	43.3	51.6	55.7
40°	14.4	20.6	31.0	41.3	51.6	55.7
41°	14.4	20.6	31.0	41.3	51.6	55.7
42°	12.4	20.6	31.0	41.3	51.6	55.7
43°	10.3	18.6	31.0	41.3	51.6	55.7
44°	8.3	18.6	28.9	41.3	51.6	55.7
45°	8.3	18.6	28.9	41.3	51.6	55.7
46°	6.2	16.5	28.9	41.3	51.6	55.7
47°	4.1	16.5	28.9	39.2	51.6	55.7
48°	4.1	16.5	28.9	39.2	51.6	55.7
49°	4.1	16.5	26.8	39.2	51.6	55.7
50°	4.1	16.5	26.8	39.2	51.6	55.7
51°	2.1	14.4	26.8	39.2	51.6	55.7
52°	2.1	14.4	26.8	39.2	51.6	57.8
53°	2.1	14.4	26.8	39.2	51.6	55.7
54°	2.1	14.4	24.8	39.2	51.6	55.7
55°	2.1	14.4	24.8	39.2	51.6	55.7
56°	2.1	12.4	24.8	37.1	51.6	55.7
57°	4.1	12.4	24.8	37.1	51.6	53.7
58°	4.1	12.4	24.8	37.1	49.5	53.7
59°	4.1	12.4	24.8	37.1	49.5	53.7
60°	4.1	12.4	22.7	37.1	49.5	53.7
62.5°	4.1	12.4	22.7	35.1	47.5	51.6
65°	4.1	12.4	20.6	33.0	47.5	49.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	4.1	10.3	20.6	31.0	45.4	47.5
70°	6.2	10.3	18.6	31.0	43.3	45.4
72.5°	6.2	10.3	18.6	26.8	39.2	43.3
75°	6.2	10.3	16.5	24.8	37.1	39.2
77.5°	6.2	10.3	14.4	22.7	33.0	35.1
80°	8.3	10.3	12.4	18.6	28.9	31.0
82.5°	8.3	10.3	10.3	14.4	22.7	24.8
85°	6.2	8.3	8.3	10.3	14.4	16.5
87.5°	6.2	8.3	6.2	4.1	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)