

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: P1308490

Luminaire Tested: P3SQAS24R409030D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R409030D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

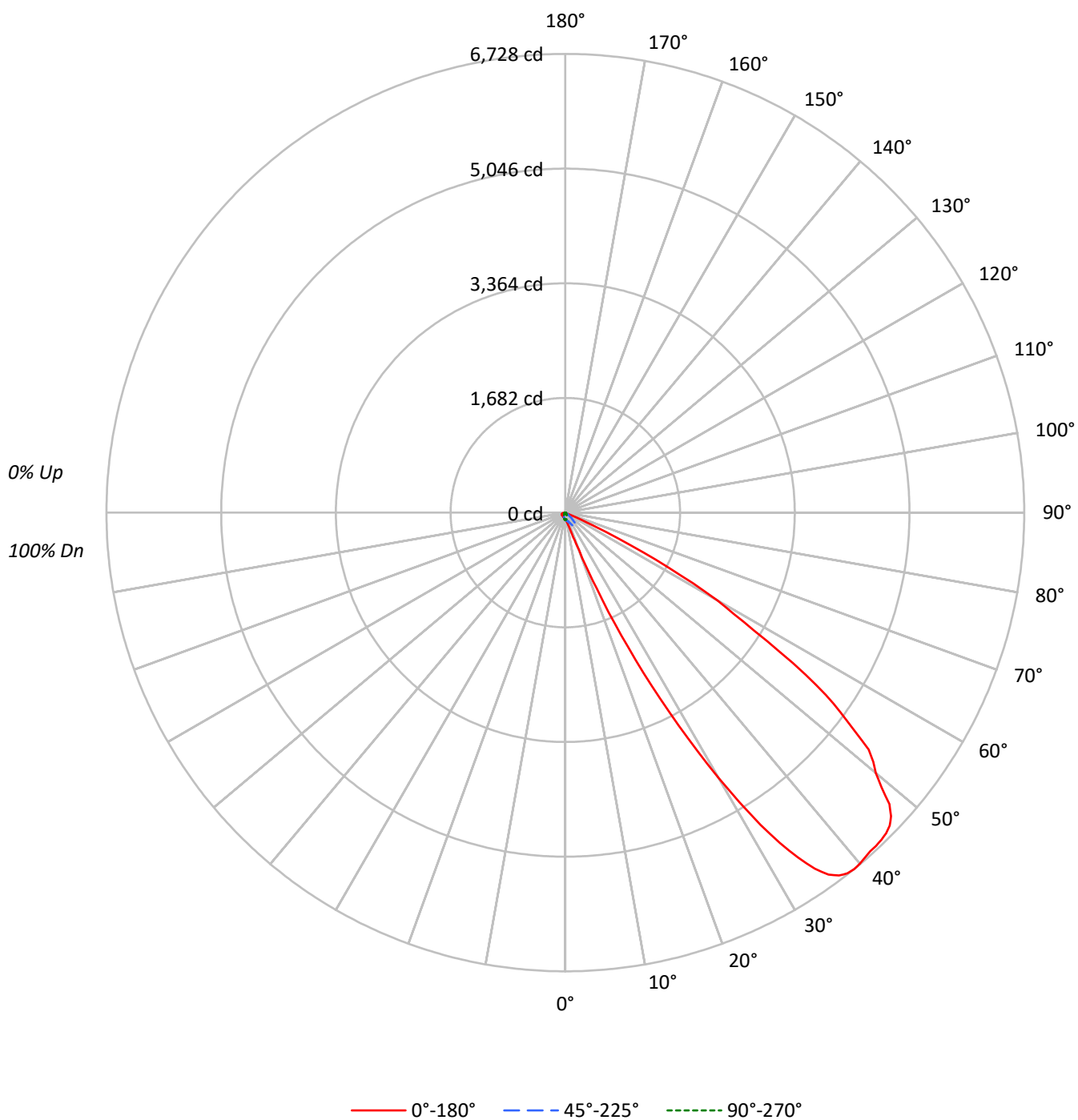
Lumens per Lamp: N/A
Luminaire Lumens: 2079.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18411	18411	18411	18411	18411
5°	20469	19812	18152	16510	16182
10°	24710	21038	16701	15022	14690
15°	40509	22804	14299	13283	13622
20°	107070	26941	11895	11895	12939
25°	412890	33388	9425	10889	12694
30°	890759	44427	7597	10639	12529
35°	1340733	52582	6412	10428	12846
40°	1510503	52788	5576	10724	13737
45°	1619671	40918	5115	11155	14881
50°	1591965	25587	4608	11762	16371
55°	1400537	12611	4594	13181	18346
60°	886499	2618	5270	14467	20391
65°	181303	774	5461	15567	22576
70°	3827	957	5791	17322	25983
75°	3793	2529	6321	19031	29212
80°	3769	1884	7538	20828	34118
85°	3754	3754	15018	22724	37742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1648922 cd/sqm

TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.5
10°-20°	32.9	1.6
20°-30°	161.5	7.8
30°-40°	525.2	25.3
40°-50°	724.1	34.8
50°-60°	504.4	24.3
60°-70°	95.6	4.6
70°-80°	17.3	0.8
80°-90°	8.0	0.4
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°	204.4	9.8
0°-40°	729.7	35.1
0°-60°	1958.1	94.2
0°-90°	2079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	118	115	105	96	94	12
15°	227	128	80	74	76	83
25°	2173	176	50	57	67	1119
35°	6377	250	30	50	61	3854
45°	6650	168	21	46	61	5057
55°	4664	42	15	44	61	3987
65°	445	2	13	38	55	787
75°	6	4	10	29	44	6
85°	2	2	8	12	19	2
90°	0	0	0	0	0	

TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	108.8	106.9
5°	118.4	118.4	118.4	118.4	116.5	116.5	116.5	114.6	114.6	110.7	105.0
7.5°	126.0	126.0	126.0	126.0	124.1	122.2	120.3	120.3	118.4	108.8	101.2
10°	141.3	141.3	139.4	137.5	135.6	131.7	129.8	126.0	120.3	106.9	95.5
12.5°	171.8	168.0	166.1	162.3	156.6	148.9	141.3	135.6	122.2	103.1	89.7
15°	227.2	223.4	215.7	204.3	192.8	177.6	164.2	150.8	127.9	97.4	80.2
17.5°	324.6	313.1	301.7	282.6	253.9	227.2	198.6	173.7	135.6	91.6	72.6
20°	584.2	576.6	507.9	454.4	368.5	307.4	250.1	208.1	147.0	85.9	64.9
22.5°	1204.8	1124.6	1011.9	828.6	645.3	475.4	345.6	261.6	158.5	78.3	57.3
25°	2172.8	2046.7	1804.3	1451.0	1071.1	758.0	500.2	341.8	175.7	70.6	49.6
27.5°	3289.7	3161.8	2785.6	2298.8	1678.3	1143.7	714.1	452.5	198.6	63.0	43.9
30°	4479.2	4370.3	3893.0	3219.0	2365.6	1601.9	956.5	565.1	223.4	55.4	38.2
31°	4958.4	4819.0	4303.5	3585.6	2688.3	1790.9	1053.9	612.9	232.9	53.5	36.3
32°	5399.4	5241.0	4706.4	3936.9	2949.8	1995.2	1160.8	654.9	240.6	49.6	34.4
33°	5779.4	5594.2	5078.7	4269.1	3238.1	2186.1	1271.6	695.0	246.3	45.8	32.5
34°	6102.0	5941.7	5388.0	4603.3	3494.0	2369.4	1380.4	735.1	250.1	43.9	30.5
35°	6377.0	6231.9	5683.9	4857.2	3744.1	2547.0	1479.7	773.3	250.1	40.1	30.5
36°	6562.2	6436.2	5939.7	5116.9	3954.1	2697.8	1563.7	807.6	250.1	36.3	28.6
37°	6663.4	6541.2	6107.8	5330.7	4160.3	2846.7	1640.1	834.4	248.2	34.4	26.7
38°	6714.9	6608.0	6231.9	5504.4	4303.5	2953.6	1706.9	855.4	246.3	30.5	26.7
39°	6728.3	6638.5	6310.1	5630.4	4442.9	3060.6	1754.6	866.8	240.6	28.6	24.8
40°	6718.7	6640.4	6352.1	5743.1	4549.8	3144.6	1789.0	870.6	234.8	24.8	24.8
41°	6699.6	6638.5	6382.7	5821.4	4635.7	3198.0	1802.4	863.0	227.2	21.0	22.9
42°	6682.5	6615.6	6396.1	5874.8	4694.9	3224.8	1800.4	847.7	215.7	19.1	22.9
43°	6682.5	6606.1	6398.0	5909.2	4723.5	3226.7	1777.5	819.1	200.5	17.2	21.0
44°	6671.0	6600.4	6407.5	5932.1	4731.2	3209.5	1741.3	788.5	183.3	15.3	21.0
45°	6650.0	6575.5	6405.6	5934.0	4717.8	3167.5	1682.1	748.4	168.0	11.5	21.0
46°	6609.9	6543.1	6388.4	5920.7	4677.7	3106.4	1611.4	708.3	150.8	9.5	19.1
47°	6529.7	6478.2	6342.6	5874.8	4616.6	3016.7	1527.4	662.5	137.5	7.6	19.1
48°	6392.2	6356.0	6264.3	5773.6	4500.2	2905.9	1437.7	612.9	124.1	7.6	19.1
49°	6140.2	6111.6	6058.1	5611.4	4351.2	2770.4	1340.3	557.5	110.7	5.7	19.1
50°	5941.7	5911.1	5802.3	5338.3	4137.4	2598.5	1233.4	502.1	95.5	3.8	17.2
51°	5809.9	5760.3	5588.4	5021.4	3826.2	2369.4	1116.9	446.8	80.2	3.8	17.2
52°	5643.8	5569.3	5355.5	4736.9	3541.7	2140.3	990.9	391.4	70.6	3.8	17.2
53°	5296.3	5269.6	5057.7	4431.4	3257.2	1920.7	861.1	345.6	61.1	3.8	17.2
54°	4992.7	4952.7	4664.4	4007.6	2947.9	1676.3	727.4	305.5	51.6	3.8	17.2
55°	4664.4	4586.1	4330.2	3650.5	2585.2	1451.0	599.5	263.5	42.0	3.8	15.3
56°	4250.0	4181.3	3906.4	3268.7	2251.0	1221.9	502.1	215.7	32.5	3.8	15.3
57°	3746.0	3683.0	3471.1	2799.0	1903.5	998.5	408.6	173.7	24.8	3.8	15.3
58°	3259.1	3188.5	2946.0	2348.4	1537.0	792.3	341.8	141.3	19.1	3.8	15.3
59°	2884.9	2789.4	2476.3	1972.3	1202.8	601.4	271.1	112.6	13.4	3.8	15.3
60°	2573.7	2495.4	2170.8	1642.0	943.2	443.0	200.5	85.9	7.6	3.8	15.3
62.5°	1491.1	1470.1	1178.0	845.8	444.9	206.2	99.3	40.1	3.8	5.7	15.3
65°	444.9	387.6	301.7	179.5	114.6	68.7	36.3	13.4	1.9	5.7	13.4



TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	13.4	13.4	13.4	13.4	13.4	13.4	7.6	3.8	1.9	5.7	13.4
70°	7.6	5.7	5.7	5.7	5.7	3.8	3.8	1.9	1.9	5.7	11.5
72.5°	5.7	5.7	5.7	5.7	3.8	3.8	3.8	1.9	3.8	5.7	9.5
75°	5.7	3.8	3.8	3.8	3.8	1.9	1.9	1.9	3.8	5.7	9.5
77.5°	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	3.8	5.7	9.5
80°	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	106.9	106.9	106.9	106.9
2.5°	103.1	101.2	99.3	99.3
5°	99.3	95.5	95.5	93.6
7.5°	93.6	89.7	89.7	89.7
10°	87.8	85.9	85.9	84.0
12.5°	80.2	80.2	80.2	80.2
15°	74.5	74.5	76.4	76.4
17.5°	66.8	68.7	72.6	74.5
20°	61.1	64.9	68.7	70.6
22.5°	57.3	61.1	66.8	68.7
25°	51.6	57.3	64.9	66.8
27.5°	47.7	55.4	61.1	64.9
30°	43.9	53.5	59.2	63.0
31°	43.9	51.6	59.2	63.0
32°	42.0	49.6	59.2	61.1
33°	42.0	49.6	59.2	61.1
34°	40.1	49.6	57.3	61.1
35°	40.1	49.6	57.3	61.1
36°	38.2	47.7	57.3	61.1
37°	38.2	47.7	57.3	61.1
38°	36.3	47.7	57.3	61.1
39°	36.3	47.7	57.3	61.1
40°	36.3	47.7	57.3	61.1
41°	34.4	47.7	57.3	61.1
42°	34.4	47.7	57.3	61.1
43°	34.4	45.8	57.3	61.1
44°	34.4	45.8	57.3	61.1
45°	32.5	45.8	57.3	61.1
46°	32.5	45.8	57.3	61.1
47°	32.5	45.8	57.3	61.1
48°	32.5	45.8	57.3	61.1
49°	32.5	45.8	57.3	61.1
50°	30.5	43.9	57.3	61.1
51°	30.5	43.9	57.3	61.1
52°	30.5	43.9	57.3	61.1
53°	30.5	43.9	57.3	61.1
54°	28.6	43.9	57.3	61.1
55°	28.6	43.9	57.3	59.2
56°	28.6	43.9	55.4	59.2
57°	28.6	42.0	55.4	59.2
58°	28.6	42.0	55.4	59.2
59°	28.6	42.0	55.4	59.2
60°	28.6	42.0	55.4	59.2
62.5°	26.7	42.0	53.5	57.3
65°	24.8	38.2	53.5	55.4



TEST NUMBER: P1308490

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	24.8	36.3	49.6	53.5
70°	22.9	34.4	47.7	51.6
72.5°	19.1	32.5	43.9	47.7
75°	17.2	28.6	40.1	43.9
77.5°	15.3	24.8	36.3	38.2
80°	13.4	21.0	30.5	34.4
82.5°	9.5	15.3	24.8	26.7
85°	7.6	11.5	17.2	19.1
87.5°	5.7	5.7	9.5	9.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)