

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: P1309574

Luminaire Tested: P3SQAS24R309035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R309035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

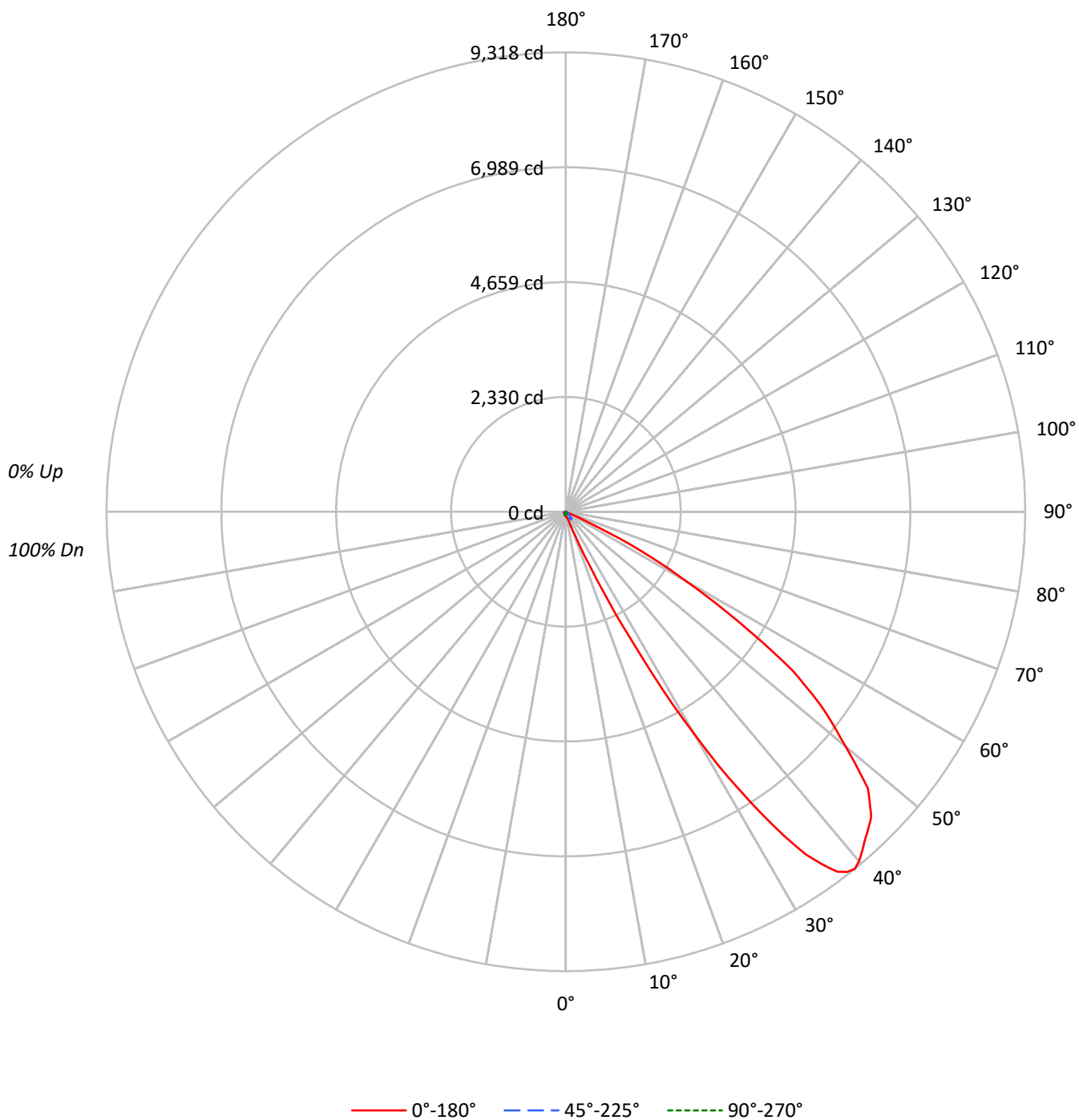
Lumens per Lamp: N/A
Luminaire Lumens: 2422.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 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	108	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	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	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16154	16154	16154	16154	16154
5°	17288	16925	15870	14453	14107
10°	18904	16771	13920	12486	12137
15°	27654	16724	11643	10555	10912
20°	69553	18328	8980	8980	10098
25°	322950	22879	6974	8133	9311
30°	1028095	31640	5270	7716	9327
35°	1783971	38601	4289	7296	9440
40°	2080558	38534	3215	7329	9622
45°	2133728	27327	3483	7940	10424
50°	1984269	15299	2733	8199	12030
55°	1686446	7957	3063	9188	13482
60°	973988	2101	3513	9851	14742
65°	198704	0	4157	11655	16627
70°	3072	1007	5136	13344	19538
75°	2728	1331	5456	13575	23090
80°	1984	1984	8133	16166	26282
85°	0	3952	16203	16203	32209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2133728 cd/sqm

TEST NUMBER: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.4
10°-20°	24.4	1.0
20°-30°	139.7	5.8
30°-40°	652.4	26.9
40°-50°	922.5	38.1
50°-60°	567.6	23.4
60°-70°	86.4	3.6
70°-80°	13.7	0.6
80°-90°	6.8	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°	172.6	7.1
0°-40°	824.9	34.1
0°-60°	2315.0	95.6
0°-90°	2422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	100	98	92	84	82	10
15°	155	94	65	59	61	55
25°	1700	120	37	43	49	1046
35°	8485	184	20	35	45	5092
45°	8761	112	14	33	43	6642
55°	5617	26	10	31	45	4779
65°	488	0	10	29	41	882
75°	4	2	8	20	35	4
85°	0	2	8	8	16	1
90°	0	0	0	0	0	

TEST NUMBER: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
2.5°	95.9	95.9	97.9	97.9	95.9	97.9	97.9	97.9	93.8	91.8	87.7
5°	100.0	100.0	100.0	102.0	100.0	100.0	97.9	95.9	91.8	85.7	83.6
7.5°	104.0	104.0	102.0	104.0	102.0	102.0	97.9	93.8	87.7	81.6	77.5
10°	108.1	108.1	106.1	106.1	104.0	104.0	95.9	89.8	79.6	73.4	71.4
12.5°	120.4	120.4	118.3	116.3	112.2	110.2	93.8	83.6	71.4	65.3	63.2
15°	155.1	153.0	148.9	142.8	132.6	130.6	93.8	77.5	65.3	59.2	59.2
17.5°	212.2	210.1	204.0	187.7	169.3	163.2	93.8	69.4	57.1	53.0	53.0
20°	379.5	363.2	332.6	291.7	248.9	226.5	100.0	61.2	49.0	46.9	49.0
21°	495.8	479.4	440.7	373.4	297.9	273.4	104.0	59.2	46.9	44.9	49.0
22°	675.3	656.9	577.4	485.6	377.4	334.6	106.1	55.1	42.8	42.8	46.9
23°	942.6	912.0	777.3	630.4	471.3	410.1	110.2	53.0	40.8	42.8	44.9
24°	1234.3	1207.8	1054.8	834.4	601.9	514.1	114.3	51.0	38.8	38.8	42.8
25°	1699.5	1668.9	1397.5	1052.7	763.0	618.2	120.4	46.9	36.7	36.7	42.8
26°	2301.3	2160.6	1799.4	1356.7	940.5	775.3	126.5	44.9	34.7	36.7	40.8
27°	2872.6	2756.3	2350.3	1740.3	1162.9	952.8	134.7	42.8	32.6	34.7	40.8
28°	3623.4	3460.2	2948.1	2201.4	1464.9	1152.7	142.8	40.8	30.6	34.7	38.8
29°	4463.9	4235.4	3617.3	2719.6	1805.6	1377.1	151.0	38.8	28.6	32.6	38.8
30°	5169.8	4955.6	4337.4	3333.7	2197.3	1673.0	159.1	36.7	26.5	32.6	38.8
31°	5998.2	5673.8	4925.0	3853.9	2533.9	1968.8	167.3	32.6	24.5	30.6	36.7
32°	6669.4	6442.9	5647.2	4441.5	2976.6	2295.2	173.4	30.6	24.5	30.6	36.7
33°	7318.2	7014.2	6245.0	5004.6	3376.5	2629.8	179.5	28.6	22.4	28.6	36.7
34°	7938.4	7658.9	6810.2	5459.6	3754.0	2948.1	183.6	24.5	22.4	28.6	34.7
35°	8485.2	8160.8	7308.0	5904.3	4141.6	3237.8	183.6	22.4	20.4	26.5	34.7
36°	8840.1	8607.6	7740.5	6343.0	4492.5	3513.2	183.6	20.4	18.4	26.5	32.6
37°	9144.1	8872.8	8087.3	6679.6	4751.6	3733.5	183.6	18.4	18.4	26.5	32.6
38°	9268.6	9036.0	8326.0	6977.5	4994.4	3958.0	181.6	16.3	16.3	24.5	32.6
39°	9317.6	9109.5	8505.6	7191.7	5173.9	4108.9	177.5	14.3	16.3	24.5	32.6
40°	9254.3	9097.2	8597.4	7330.4	5316.7	4219.1	171.4	12.2	14.3	24.5	32.6
42.5°	8993.2	8889.1	8577.0	7469.1	5439.1	4300.7	148.9	8.2	14.3	22.4	32.6
45°	8760.6	8646.3	8370.9	7324.3	5280.0	4139.5	112.2	4.1	14.3	22.4	32.6
47.5°	8309.7	8238.3	8022.0	6955.0	4931.1	3776.4	79.6	2.0	12.2	20.4	30.6
50°	7405.9	7338.6	7052.9	6039.0	4241.6	3192.9	57.1	2.0	10.2	20.4	30.6
52.5°	6595.9	6524.5	6114.5	5020.9	3258.2	2340.1	36.7	2.0	10.2	20.4	30.6
55°	5616.6	5492.2	4953.6	3811.1	2309.5	1568.9	26.5	2.0	10.2	18.4	30.6
57.5°	4157.9	3976.3	3494.8	2599.2	1330.2	850.8	14.3	2.0	10.2	18.4	30.6
60°	2827.7	2719.6	2187.1	1371.0	567.2	359.1	6.1	2.0	10.2	18.4	28.6
62.5°	1713.8	1577.1	1099.7	583.5	244.8	163.2	0.0	4.1	10.2	18.4	28.6
65°	487.6	432.5	287.7	132.6	69.4	53.0	0.0	4.1	10.2	18.4	28.6
67.5°	16.3	16.3	16.3	14.3	10.2	10.2	2.0	4.1	10.2	18.4	26.5
70°	6.1	6.1	6.1	4.1	4.1	2.0	2.0	4.1	10.2	16.3	26.5
72.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	4.1	8.2	14.3	24.5
75°	4.1	4.1	4.1	2.0	2.0	2.0	2.0	6.1	8.2	14.3	20.4
77.5°	4.1	4.1	4.1	2.0	2.0	2.0	2.0	6.1	8.2	12.2	20.4
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	6.1	8.2	12.2	16.3



TEST NUMBER: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	2.0	2.0	2.0	0.0	0.0	0.0	2.0	6.1	8.2	8.2	12.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	8.2	6.1	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	6.1	6.1	4.1
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: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	93.8	93.8
2.5°	87.7	87.7
5°	81.6	81.6
7.5°	75.5	75.5
10°	69.4	69.4
12.5°	65.3	65.3
15°	59.2	61.2
17.5°	55.1	57.1
20°	53.0	55.1
21°	53.0	55.1
22°	51.0	53.0
23°	51.0	53.0
24°	49.0	51.0
25°	46.9	49.0
26°	46.9	49.0
27°	46.9	49.0
28°	44.9	49.0
29°	44.9	46.9
30°	44.9	46.9
31°	42.8	46.9
32°	42.8	46.9
33°	42.8	44.9
34°	40.8	44.9
35°	40.8	44.9
36°	40.8	44.9
37°	40.8	42.8
38°	40.8	44.9
39°	40.8	42.8
40°	40.8	42.8
42.5°	40.8	42.8
45°	40.8	42.8
47.5°	40.8	44.9
50°	40.8	44.9
52.5°	40.8	44.9
55°	40.8	44.9
57.5°	40.8	42.8
60°	40.8	42.8
62.5°	38.8	42.8
65°	38.8	40.8
67.5°	38.8	40.8
70°	36.7	38.8
72.5°	34.7	36.7
75°	30.6	34.7
77.5°	28.6	30.6
80°	24.5	26.5



TEST NUMBER: P1309574

CATALOG NUMBER: P3SQAS24R309035D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	20.4	20.4
85°	14.3	16.3
87.5°	8.2	8.2
90°	0.0	0.0

(END OF REPORT)