

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: P1312821

Luminaire Tested: P3SQAS20R709727D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709727D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

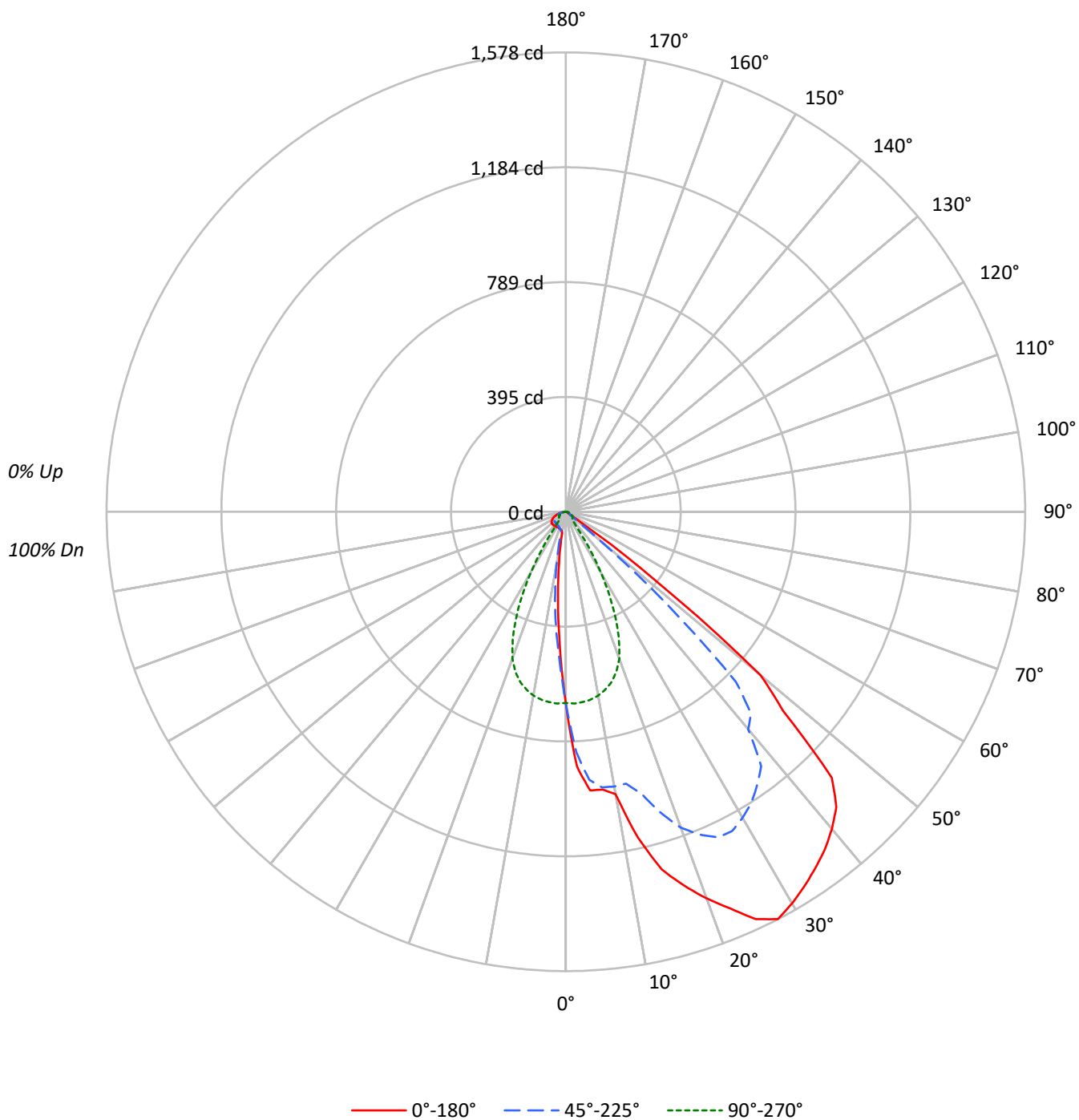
Lumens per Lamp: N/A
Luminaire Lumens: 1247.0 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57		
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	113064	113064	113064	113064	113064
5°	166104	159742	113496	67752	53074
10°	172221	167517	112098	32423	13116
15°	226795	178619	107977	11607	11358
20°	259060	211610	98291	11143	11418
25°	293344	234455	77170	10756	11288
30°	308958	241423	47827	10699	12091
35°	314148	240962	15768	11017	12783
40°	319695	219178	7644	11781	14006
45°	314655	201253	7916	12397	15174
50°	233904	37162	7958	13638	16692
55°	18706	5104	8497	14443	17836
60°	3892	5373	8301	14604	18531
65°	4034	5175	8069	14426	19031
70°	3575	4985	7855	13545	18530
75°	2795	4724	6588	13175	17900
80°	2777	4166	7042	12596	16860
85°	2766	5533	8299	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 318430 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	4.8
10°-20°	168.0	13.5
20°-30°	282.1	22.6
30°-40°	339.3	27.2
40°-50°	268.9	21.6
50°-60°	86.0	6.9
60°-70°	24.0	1.9
70°-80°	14.3	1.1
80°-90°	4.5	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°	509.9	40.9
0°-40°	849.1	68.1
0°-60°	1204.1	96.6
0°-90°	1247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	656	656	656	656	656	
5°	961	924	656	392	307	90
15°	1272	1002	606	65	64	358
25°	1544	1234	406	57	59	706
35°	1494	1146	75	52	61	936
45°	1292	826	32	51	62	928
55°	62	17	28	48	59	195
65°	10	13	20	35	47	10
75°	4	7	10	20	27	5
85°	1	3	4	6	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5
2.5°	875.9	881.5	881.5	874.4	877.3	866.0	857.5	844.7	841.9	826.3	806.5
5°	960.8	957.9	957.9	952.3	955.1	950.9	946.6	943.8	935.3	924.0	912.6
7.5°	962.2	965.0	966.4	965.0	970.7	966.4	966.4	966.4	960.8	955.1	943.8
10°	984.8	980.6	976.3	966.4	960.8	956.5	956.5	957.9	960.8	957.9	950.9
12.5°	1147.5	1132.0	1124.9	1100.8	1082.4	1051.3	1015.9	989.1	965.0	956.5	950.9
15°	1272.0	1269.2	1255.1	1232.4	1209.8	1173.0	1132.0	1090.9	1047.1	1001.8	969.2
17.5°	1345.6	1340.0	1325.8	1301.8	1274.9	1240.9	1208.4	1177.2	1134.8	1083.9	1031.5
20°	1413.5	1400.8	1382.4	1354.1	1327.2	1294.7	1259.3	1229.6	1194.2	1154.6	1093.8
22.5°	1474.4	1463.1	1433.4	1395.1	1368.3	1337.1	1306.0	1277.7	1245.2	1199.9	1144.7
25°	1543.7	1518.3	1470.1	1420.6	1388.1	1362.6	1340.0	1317.3	1283.4	1233.8	1168.8
27.5°	1577.7	1542.3	1490.0	1440.4	1409.3	1382.4	1358.4	1335.7	1297.5	1236.7	1161.7
30°	1553.6	1533.8	1497.0	1458.8	1433.4	1407.9	1379.6	1345.6	1284.8	1214.0	1144.7
32.5°	1525.3	1515.4	1498.4	1475.8	1460.2	1434.8	1395.1	1340.0	1255.1	1185.7	1110.7
35°	1494.2	1490.0	1484.3	1474.4	1464.5	1440.4	1390.9	1310.3	1225.4	1146.1	1074.0
37.5°	1461.7	1457.4	1461.7	1460.2	1451.7	1420.6	1345.6	1270.6	1182.9	1102.3	962.2
40°	1422.0	1419.2	1426.3	1433.4	1423.4	1382.4	1301.8	1211.2	1133.4	974.9	926.8
42.5°	1375.3	1373.9	1386.7	1392.3	1378.2	1317.3	1222.5	1156.0	991.9	940.9	827.8
45°	1291.9	1294.7	1300.3	1307.4	1298.9	1232.4	1146.1	1024.4	952.3	826.3	471.2
47.5°	1011.7	1014.5	1042.8	1102.3	1143.3	1120.6	1047.1	956.5	851.8	472.6	148.6
50°	873.0	870.2	871.6	885.8	918.3	949.4	926.8	877.3	508.0	138.7	18.4
52.5°	383.5	425.9	471.2	598.5	680.6	766.9	783.9	549.0	165.6	18.4	18.4
55°	62.3	65.1	82.1	120.3	216.5	326.9	396.2	183.9	17.0	17.0	17.0
57.5°	12.7	12.7	12.7	14.1	21.2	45.3	52.4	15.6	15.6	15.6	17.0
60°	11.3	11.3	11.3	11.3	12.7	12.7	12.7	14.1	14.1	15.6	15.6
62.5°	11.3	11.3	11.3	11.3	11.3	11.3	12.7	12.7	14.1	14.1	15.6
65°	9.9	9.9	9.9	9.9	11.3	11.3	11.3	11.3	12.7	12.7	14.1
67.5°	8.5	8.5	8.5	8.5	9.9	9.9	9.9	11.3	11.3	11.3	12.7
70°	7.1	7.1	7.1	7.1	8.5	8.5	8.5	8.5	9.9	9.9	9.9
72.5°	5.7	5.7	5.7	5.7	7.1	7.1	7.1	7.1	8.5	8.5	8.5
75°	4.2	4.2	5.7	5.7	5.7	5.7	5.7	5.7	7.1	7.1	7.1
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.7	5.7	5.7	5.7
80°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2
82.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5
2.5°	793.8	774.0	747.1	659.4	578.7	505.1	468.4	464.1
5°	894.3	875.9	830.6	656.5	502.3	391.9	325.4	307.0
7.5°	932.5	916.9	877.3	650.9	430.1	281.6	206.6	178.3
10°	942.4	932.5	898.5	641.0	355.2	185.4	97.6	75.0
12.5°	946.6	939.5	907.0	625.4	280.2	96.2	66.5	66.5
15°	953.7	946.6	915.5	605.6	206.6	65.1	63.7	63.7
17.5°	984.8	962.2	926.8	575.9	135.8	62.3	62.3	62.3
20°	1035.8	986.2	932.5	536.3	84.9	60.8	60.8	62.3
22.5°	1078.2	1011.7	931.0	476.8	62.3	58.0	59.4	60.8
25°	1096.6	1023.0	918.3	406.1	53.8	56.6	59.4	59.4
27.5°	1093.8	1027.3	907.0	325.4	50.9	55.2	58.0	60.8
30°	1078.2	1015.9	881.5	240.5	48.1	53.8	58.0	60.8
32.5°	1051.3	972.1	830.6	155.6	46.7	53.8	58.0	60.8
35°	963.6	901.3	757.0	75.0	45.3	52.4	59.4	60.8
37.5°	912.6	826.3	577.3	36.8	43.9	52.4	59.4	60.8
40°	830.6	616.9	260.4	34.0	43.9	52.4	59.4	62.3
42.5°	522.1	253.3	42.4	32.5	42.4	52.4	59.4	62.3
45°	191.0	34.0	22.6	32.5	42.4	50.9	59.4	62.3
47.5°	19.8	19.8	21.2	31.1	41.0	50.9	59.4	62.3
50°	18.4	19.8	21.2	29.7	39.6	50.9	58.0	62.3
52.5°	18.4	19.8	21.2	29.7	38.2	49.5	58.0	62.3
55°	18.4	19.8	19.8	28.3	36.8	48.1	56.6	59.4
57.5°	17.0	18.4	19.8	26.9	35.4	45.3	55.2	58.0
60°	17.0	18.4	19.8	24.1	34.0	42.4	52.4	53.8
62.5°	15.6	17.0	18.4	22.6	31.1	39.6	48.1	50.9
65°	15.6	15.6	17.0	19.8	28.3	35.4	43.9	46.7
67.5°	12.7	14.1	14.1	17.0	24.1	31.1	39.6	42.4
70°	11.3	11.3	12.7	15.6	21.2	26.9	34.0	36.8
72.5°	9.9	9.9	9.9	12.7	18.4	24.1	29.7	32.5
75°	8.5	8.5	8.5	9.9	15.6	19.8	25.5	26.9
77.5°	7.1	7.1	7.1	8.5	12.7	17.0	19.8	22.6
80°	5.7	5.7	5.7	7.1	9.9	12.7	15.6	17.0
82.5°	4.2	4.2	4.2	5.7	7.1	8.5	11.3	11.3
85°	2.8	2.8	2.8	4.2	4.2	5.7	7.1	7.1
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)