

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: P1309174

Luminaire Tested: P3SQAS13R509035DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

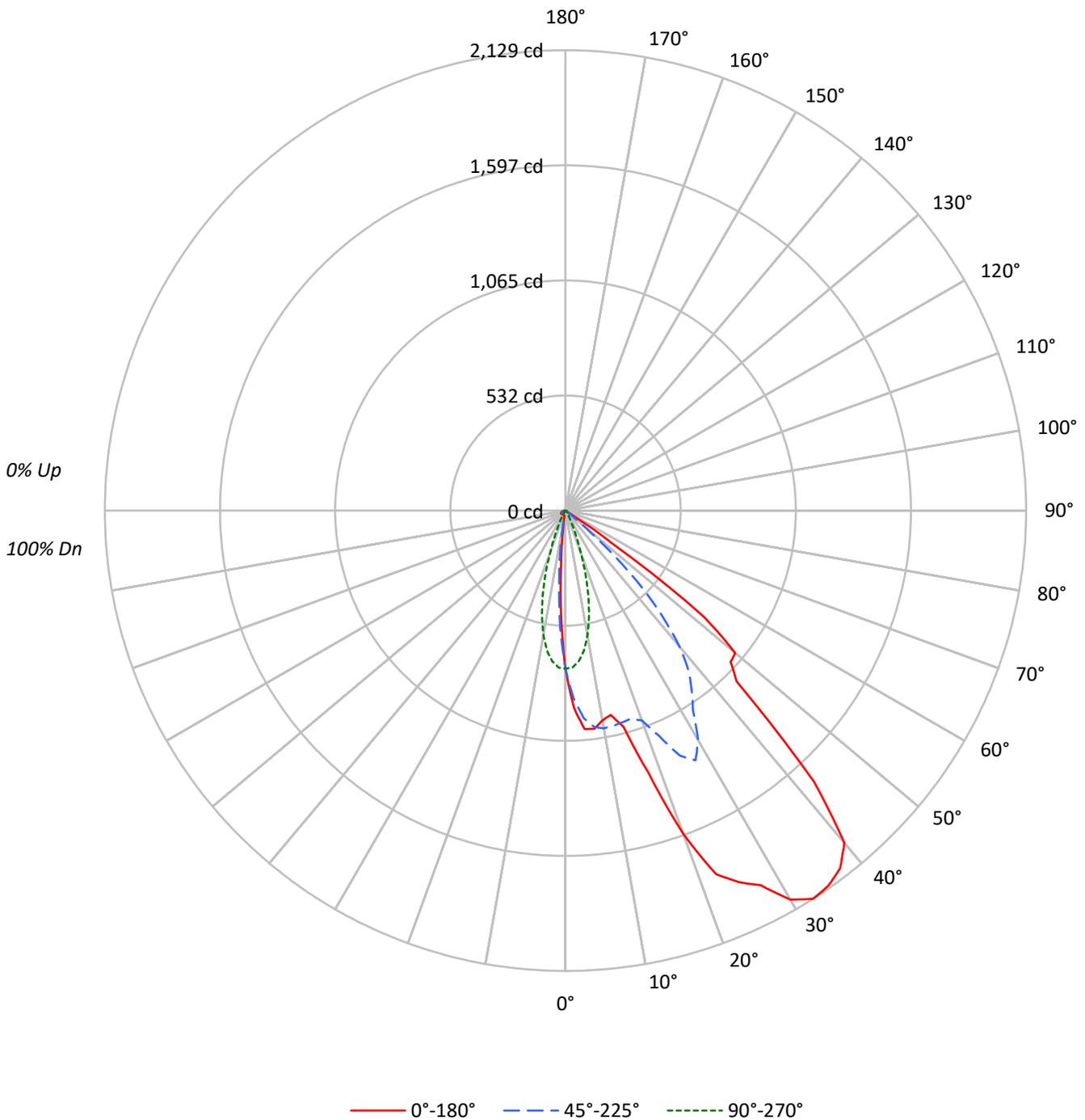
Test Method: LM-79-2019  
Report Number: P1309174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R509035DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1136.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	125791	125791	125791	125791	125791
5°	175387	166397	120895	58122	37705
10°	172169	178814	102182	12242	5246
15°	184628	180705	72246	4279	4101
20°	291555	189232	38140	3666	3849
25°	360272	237647	15202	3420	3801
30°	413044	243730	6165	3381	3977
35°	445299	213924	2733	3574	4415
40°	450765	184218	2023	4047	4946
45°	272421	119393	1948	4384	5602
50°	274495	20631	2143	5091	6430
55°	81100	1201	2402	5705	7206
60°	1378	1378	2411	6200	7922
65°	1223	1223	2445	6520	8558
70°	1511	1511	2518	7050	9567
75°	1331	1331	2662	7320	9981
80°	992	1984	2975	6943	10910
85°	1976	3952	3952	7904	9880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 311172 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	5.2
10°-20°	146.6	12.9
20°-30°	274.7	24.2
30°-40°	328.5	28.9
40°-50°	235.4	20.7
50°-60°	72.5	6.4
60°-70°	9.5	0.8
70°-80°	6.9	0.6
80°-90°	2.8	0.2
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°	480.4	42.3
0°-40°	808.9	71.2
0°-60°	1116.8	98.3
0°-90°	1136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	730	730	730	730	730	
5°	1014	962	699	336	218	94
15°	1036	1014	405	24	23	332
25°	1896	1251	80	18	20	874
35°	2118	1018	13	17	21	1314
45°	1118	490	8	18	23	1027
55°	270	4	8	19	24	348
65°	3	3	6	16	21	3
75°	2	2	4	11	15	2
85°	1	2	2	4	5	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°	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4
2.5°	913.4	915.4	918.4	910.4	905.4	901.4	894.4	892.4	875.4	868.4	861.4
5°	1014.5	1012.5	1014.5	1011.5	1009.5	1003.5	997.5	987.5	976.5	962.5	946.5
7.5°	1017.5	1015.5	1019.5	1019.5	1023.5	1023.5	1023.5	1024.5	1018.5	1008.5	994.5
10°	984.5	984.5	988.5	986.5	993.5	996.5	1003.5	1015.5	1021.5	1022.5	1018.5
12.5°	967.5	967.5	968.5	964.5	966.5	969.5	977.5	991.5	1005.5	1019.5	1027.5
15°	1035.5	1037.5	1023.5	1003.5	988.5	972.5	967.5	976.5	991.5	1013.5	1031.5
17.5°	1266.6	1269.6	1254.6	1206.6	1160.6	1094.5	1035.5	1006.5	990.5	1008.5	1032.5
20°	1590.8	1579.8	1553.7	1502.7	1435.7	1333.6	1241.6	1148.6	1059.5	1032.5	1040.5
22.5°	1819.9	1815.9	1794.9	1737.8	1679.8	1584.8	1467.7	1337.6	1208.6	1126.5	1083.5
25°	1895.9	1892.9	1873.9	1839.9	1807.9	1735.8	1630.8	1499.7	1364.7	1250.6	1142.5
27.5°	1952.9	1948.9	1918.9	1880.9	1847.9	1774.9	1678.8	1579.8	1455.7	1301.6	1135.5
30°	2077.0	2066.0	2024.0	1955.9	1892.9	1791.9	1685.8	1562.8	1394.7	1225.6	1063.5
32.5°	2129.0	2123.0	2087.0	2032.0	1962.9	1830.9	1669.8	1463.7	1242.6	1096.5	978.5
35°	2118.0	2109.0	2072.0	2009.0	1924.9	1797.9	1582.8	1299.6	1119.5	1017.5	884.4
37.5°	2085.0	2072.0	2028.0	1953.9	1851.9	1685.8	1404.7	1166.6	1050.5	935.4	756.4
40°	2005.0	1984.0	1932.9	1855.9	1753.8	1535.7	1242.6	1086.5	978.5	819.4	613.3
42.5°	1698.8	1687.8	1712.8	1699.8	1609.8	1352.7	1127.5	1013.5	864.4	662.3	444.2
45°	1118.5	1137.5	1182.6	1259.6	1277.6	1163.6	1033.5	893.4	711.3	490.2	256.1
47.5°	1035.5	1031.5	1042.5	1057.5	1060.5	1012.5	894.4	738.4	528.3	280.1	71.0
50°	1024.5	1018.5	1009.5	991.5	953.5	860.4	726.3	538.3	305.1	77.0	5.0
52.5°	809.4	803.4	803.4	777.4	728.4	638.3	501.2	296.1	85.0	5.0	4.0
55°	270.1	288.1	285.1	284.1	306.1	282.1	216.1	76.0	7.0	4.0	4.0
57.5°	5.0	5.0	5.0	9.0	14.0	20.0	12.0	6.0	4.0	4.0	4.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
67.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0
77.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
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°	730.4	730.4	730.4	730.4	730.4	730.4	730.4	730.4
2.5°	845.4	831.4	804.4	727.3	642.3	545.3	479.2	471.2
5°	921.4	900.4	856.4	699.3	505.2	336.2	250.1	218.1
7.5°	971.5	943.5	889.4	653.3	368.2	177.1	95.0	76.0
10°	1001.5	975.5	906.4	584.3	234.1	70.0	32.0	30.0
12.5°	1017.5	992.5	912.4	501.2	132.1	32.0	25.0	25.0
15°	1028.5	1001.5	903.4	405.2	66.0	24.0	23.0	23.0
17.5°	1033.5	1000.5	877.4	305.1	35.0	22.0	22.0	22.0
20°	1036.5	989.5	829.4	208.1	24.0	20.0	21.0	21.0
22.5°	1039.5	962.5	766.4	132.1	19.0	19.0	20.0	20.0
25°	1033.5	915.4	677.3	80.0	17.0	18.0	19.0	20.0
27.5°	990.5	844.4	569.3	49.0	15.0	17.0	19.0	20.0
30°	916.4	740.4	444.2	31.0	14.0	17.0	19.0	20.0
32.5°	820.4	621.3	317.2	19.0	14.0	17.0	19.0	20.0
35°	691.3	475.2	206.1	13.0	14.0	17.0	20.0	21.0
37.5°	546.3	332.2	111.1	10.0	14.0	17.0	20.0	21.0
40°	393.2	199.1	40.0	9.0	13.0	18.0	21.0	22.0
42.5°	230.1	74.0	7.0	8.0	13.0	18.0	21.0	22.0
45°	66.0	8.0	4.0	8.0	13.0	18.0	22.0	23.0
47.5°	5.0	3.0	4.0	8.0	13.0	18.0	22.0	24.0
50°	3.0	3.0	3.0	8.0	13.0	19.0	23.0	24.0
52.5°	4.0	4.0	4.0	8.0	13.0	19.0	23.0	24.0
55°	4.0	4.0	4.0	8.0	13.0	19.0	23.0	24.0
57.5°	4.0	4.0	4.0	8.0	13.0	18.0	23.0	24.0
60°	4.0	4.0	4.0	7.0	12.0	18.0	22.0	23.0
62.5°	4.0	4.0	4.0	7.0	12.0	17.0	22.0	22.0
65°	4.0	4.0	4.0	6.0	11.0	16.0	20.0	21.0
67.5°	4.0	4.0	4.0	6.0	10.0	15.0	19.0	20.0
70°	3.0	4.0	4.0	5.0	9.0	14.0	18.0	19.0
72.5°	3.0	3.0	4.0	5.0	8.0	12.0	16.0	17.0
75°	3.0	3.0	3.0	4.0	7.0	11.0	14.0	15.0
77.5°	3.0	3.0	3.0	4.0	6.0	9.0	13.0	13.0
80°	2.0	3.0	3.0	3.0	5.0	7.0	10.0	11.0
82.5°	2.0	2.0	2.0	3.0	4.0	6.0	8.0	8.0
85°	2.0	2.0	2.0	2.0	3.0	4.0	5.0	5.0
87.5°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)