

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: P1316125

Luminaire Tested: P3SQAS09R409827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R409827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

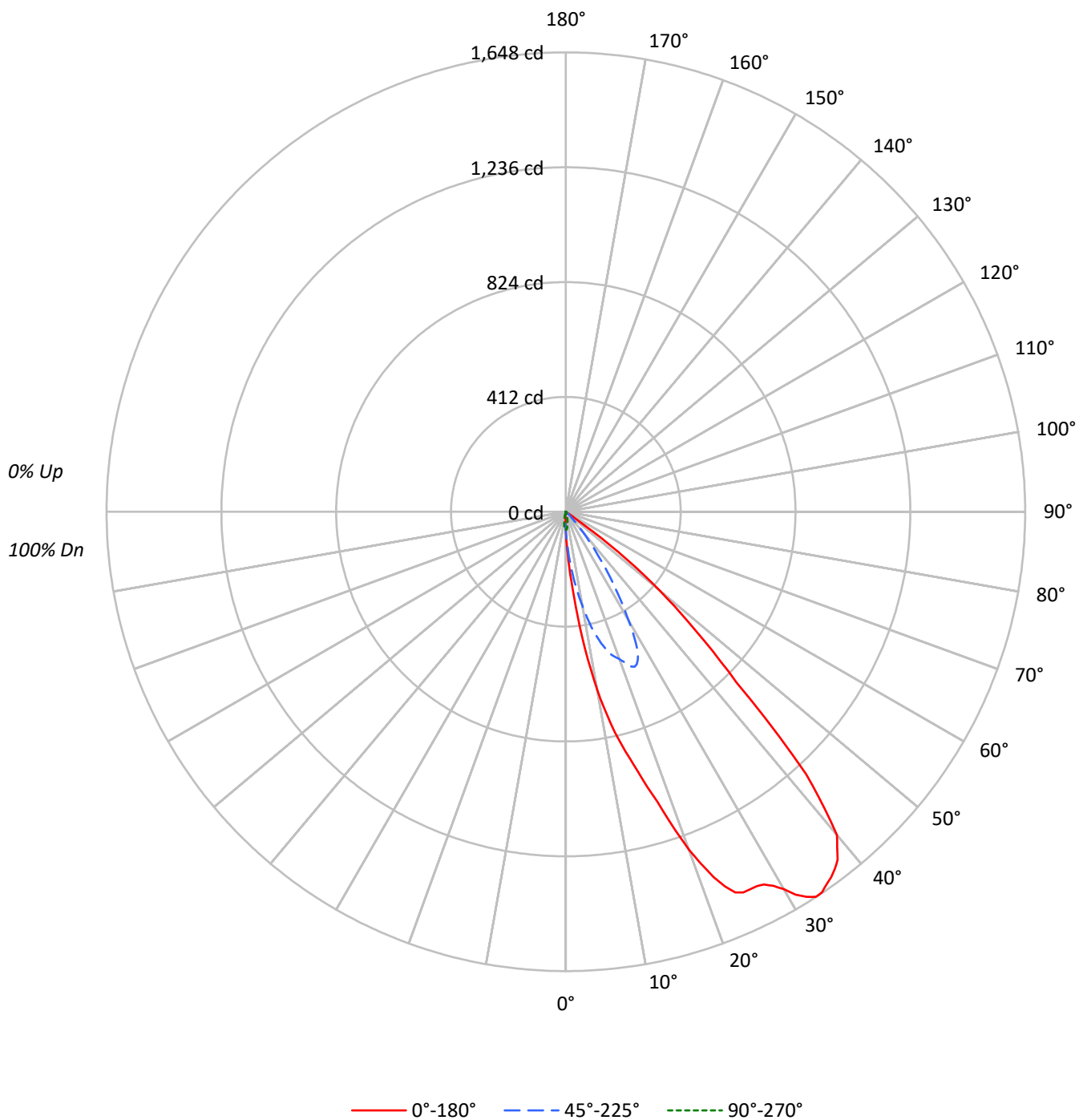
Lumens per Lamp: N/A
Luminaire Lumens: 553.0 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11143	11143	11143	11143	11143
5°	47283	32225	9768	1763	882
10°	113637	59931	6051	175	0
15°	167261	87081	2550	0	0
20°	236425	103239	935	0	0
25°	286370	114586	0	0	0
30°	310926	89629	0	0	0
35°	342847	52456	0	0	0
40°	340289	21291	0	0	0
45°	210752	6211	0	0	0
50°	117354	134	0	0	0
55°	11470	0	0	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	252	504	0	0
75°	0	333	665	0	0
80°	0	496	992	0	0
85°	0	988	1976	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 211726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	2.2
10°-20°	71.3	12.9
20°-30°	162.7	29.4
30°-40°	192.1	34.7
40°-50°	102.6	18.6
50°-60°	11.1	2.0
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	246.1	44.5
0°-40°	438.2	79.2
0°-60°	552.0	99.8
0°-90°	553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	274	186	56	10	5	38
15°	938	488	14	0	0	279
25°	1507	603	0	0	0	684
35°	1631	250	0	0	0	1007
45°	865	26	0	0	0	713
55°	38	0	0	0	0	107
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	150.7	147.7	149.7	145.7	145.7	136.5	137.0	129.4	118.2	90.1	64.2
5°	273.5	285.7	276.0	263.3	256.2	247.0	234.8	222.0	186.4	112.6	56.5
7.5°	457.8	456.8	440.5	426.8	411.0	386.5	363.6	332.6	265.3	128.8	46.9
10°	649.8	646.3	627.9	616.2	586.2	551.0	504.2	454.3	342.7	134.5	34.6
12.5°	809.8	805.2	789.9	770.0	736.9	692.6	642.2	576.5	424.2	128.3	22.4
15°	938.1	937.1	922.3	895.3	860.7	817.4	760.4	681.4	488.4	112.6	14.3
17.5°	1090.4	1096.5	1070.0	1041.0	991.1	930.5	860.7	770.5	535.8	93.2	9.2
20°	1290.0	1281.4	1256.9	1214.6	1166.8	1093.9	995.1	866.3	563.3	72.3	5.1
21°	1351.1	1347.6	1322.1	1282.9	1229.9	1156.1	1054.2	915.2	576.0	64.7	4.1
22°	1413.3	1407.1	1387.3	1349.1	1299.2	1215.7	1103.6	965.6	592.3	56.5	2.5
23°	1459.6	1457.1	1441.8	1404.1	1352.7	1271.7	1157.1	1012.5	603.5	48.9	1.5
24°	1495.3	1492.2	1476.9	1448.4	1404.1	1319.5	1211.1	1062.9	608.1	42.3	0.5
25°	1507.0	1508.5	1499.3	1476.9	1439.7	1355.2	1251.3	1102.6	603.0	36.2	0.0
26°	1507.5	1512.1	1505.4	1492.7	1462.1	1383.7	1289.0	1126.0	589.7	30.6	0.0
27°	1507.5	1512.1	1505.4	1495.8	1465.7	1400.0	1309.4	1128.6	569.4	26.0	0.0
28°	1514.6	1517.2	1508.5	1496.8	1464.2	1405.1	1315.0	1113.3	536.8	22.4	0.0
29°	1534.5	1531.9	1517.7	1501.9	1462.7	1405.1	1298.2	1084.3	496.0	18.8	0.0
30°	1563.5	1563.5	1541.1	1516.1	1469.8	1404.6	1271.2	1031.8	450.7	15.3	0.0
31°	1602.7	1599.1	1576.7	1539.6	1485.1	1404.6	1231.4	973.7	409.0	13.2	0.0
32°	1629.2	1627.2	1605.8	1562.0	1510.0	1404.6	1188.7	909.6	363.6	10.7	0.0
33°	1647.5	1643.5	1619.0	1573.7	1525.3	1397.5	1140.8	840.8	322.9	8.7	0.0
34°	1645.0	1644.0	1618.5	1571.6	1522.2	1367.9	1085.3	764.4	285.2	7.1	0.0
35°	1630.7	1630.7	1599.7	1551.3	1500.3	1324.6	1030.3	699.2	249.5	5.1	0.0
36°	1620.0	1616.0	1580.8	1526.8	1463.7	1256.4	948.8	633.5	211.4	4.1	0.0
37°	1604.2	1596.6	1557.4	1499.3	1411.7	1182.6	863.2	575.0	178.8	2.5	0.0
38°	1583.9	1572.2	1524.3	1467.2	1354.7	1097.5	776.1	509.3	148.7	1.5	0.0
39°	1546.7	1537.0	1487.6	1426.0	1286.4	1007.9	691.6	447.7	120.2	0.5	0.0
40°	1513.6	1496.8	1440.8	1370.0	1206.5	906.5	607.6	387.1	94.7	0.0	0.0
42.5°	1276.3	1258.4	1245.7	1175.4	961.0	650.9	424.2	248.0	49.4	0.0	0.0
45°	865.3	869.3	829.6	782.3	634.1	424.2	265.3	138.0	25.5	0.0	0.0
47.5°	631.0	620.3	566.3	476.7	371.8	248.0	138.5	66.7	10.2	0.0	0.0
50°	438.0	417.6	368.7	301.5	202.2	118.2	61.1	31.1	0.5	0.0	0.0
52.5°	237.8	223.6	189.5	137.5	84.0	45.3	24.4	12.7	0.0	0.0	0.0
55°	38.2	26.5	27.5	23.4	18.3	13.2	7.6	1.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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):

	112.5°	135°	157.5°	180°
0°	64.7	64.7	64.7	64.7
2.5°	43.3	29.5	22.4	19.4
5°	25.0	10.2	5.6	5.1
7.5°	12.2	3.6	2.0	2.0
10°	5.1	1.0	0.0	0.0
12.5°	1.5	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.0	0.0	0.0
85°	0.5	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)