

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: P1306360

Luminaire Tested: P3SQAS02R209027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R209027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

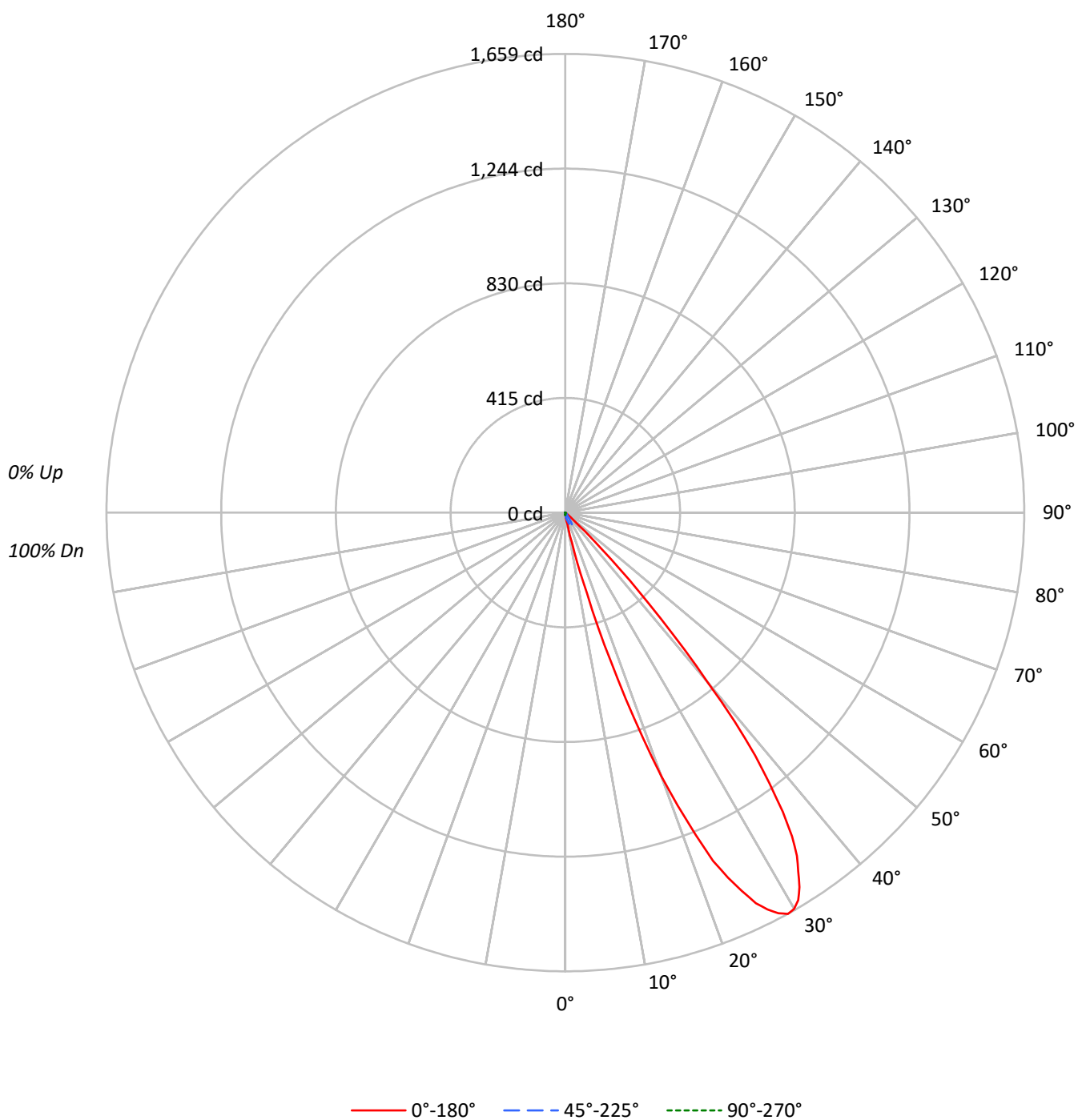
Lumens per Lamp: N/A
Luminaire Lumens: 229.0 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1412	1412	1412	1412	1412
5°	3077	2161	1297	588	432
10°	7642	3830	909	122	0
15°	53810	5242	535	0	0
20°	185951	8816	202	0	0
25°	286636	11250	95	0	0
30°	329003	8690	0	0	0
35°	300461	3301	0	0	0
40°	180126	1529	0	0	0
45°	44255	731	0	0	0
50°	4876	188	0	0	0
55°	691	0	60	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	101	352	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 47202 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	17.9	7.8
20°-30°	90.5	39.5
30°-40°	97.9	42.7
40°-50°	20.7	9.0
50°-60°	0.6	0.3
60°-70°	0.2	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	109.3	47.7
0°-40°	207.2	90.5
0°-60°	228.5	99.8
0°-90°	229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	12	8	3	2	2
15°	302	29	3	0	0	126
25°	1508	59	0	0	0	682
35°	1429	16	0	0	0	843
45°	182	3	0	0	0	200
55°	2	0	0	0	0	4
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°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	11.2	10.9	11.2	10.9	11.2	11.2	11.2	10.9	10.9	10.9	10.9
5°	17.8	17.8	17.5	17.8	17.8	17.8	17.8	17.5	17.5	17.3	17.3
7.5°	28.0	28.0	27.8	27.8	28.0	28.2	27.3	27.8	27.8	27.8	27.6
10°	43.7	44.6	43.7	44.9	44.0	43.3	44.4	43.3	43.3	43.0	42.4
12.5°	110.2	107.7	106.1	102.3	106.1	103.2	103.9	103.2	100.9	97.9	96.1
15°	301.8	301.8	292.9	304.7	296.1	299.3	282.9	283.1	274.7	265.6	260.5
17.5°	630.9	636.6	630.6	627.0	619.2	608.1	603.5	591.9	576.7	558.9	556.8
20°	1014.6	990.7	1001.9	991.6	985.2	971.6	956.3	946.8	933.3	910.8	877.5
21°	1135.3	1134.4	1134.2	1134.0	1124.6	1102.3	1088.4	1069.3	1050.4	1027.1	999.4
22°	1256.9	1261.3	1263.1	1249.9	1230.8	1220.7	1211.2	1185.0	1155.1	1143.1	1110.0
23°	1368.5	1364.4	1352.6	1346.4	1331.6	1328.7	1300.2	1283.6	1254.4	1241.2	1202.1
24°	1444.6	1442.6	1437.1	1428.0	1416.1	1397.9	1380.8	1354.6	1330.7	1309.1	1272.7
25°	1508.4	1510.2	1500.2	1494.0	1481.3	1460.8	1439.8	1411.1	1388.8	1363.5	1321.4
26°	1571.5	1558.7	1550.7	1541.6	1527.7	1504.3	1484.0	1458.3	1431.2	1402.9	1361.7
27°	1610.4	1599.0	1587.0	1578.1	1562.1	1539.8	1518.2	1489.7	1459.4	1430.9	1388.6
28°	1641.2	1628.6	1616.8	1606.1	1587.9	1563.9	1538.0	1509.1	1477.6	1448.3	1405.0
29°	1659.4	1644.6	1631.8	1619.7	1603.1	1577.2	1551.0	1520.0	1489.7	1459.0	1414.8
30°	1654.4	1641.6	1629.3	1617.0	1600.2	1575.8	1549.8	1520.2	1489.7	1459.4	1414.5
31°	1634.8	1619.1	1610.2	1597.9	1583.3	1558.5	1536.2	1503.8	1476.3	1443.5	1398.6
32°	1597.2	1587.2	1575.3	1565.8	1551.7	1525.2	1503.4	1476.9	1444.4	1417.5	1370.4
33°	1546.2	1536.8	1530.9	1519.8	1506.1	1487.9	1461.7	1437.5	1400.9	1373.3	1326.2
34°	1497.4	1485.6	1470.8	1467.6	1455.8	1432.3	1408.6	1384.0	1351.2	1316.2	1268.6
35°	1429.1	1416.8	1403.2	1404.3	1390.2	1362.8	1338.7	1311.1	1279.9	1238.7	1193.6
36°	1337.8	1329.6	1327.5	1322.1	1305.9	1273.3	1250.3	1215.7	1189.5	1139.2	1100.5
37°	1226.4	1229.4	1214.6	1207.5	1188.6	1165.8	1152.9	1108.5	1077.9	1040.1	987.7
38°	1113.9	1109.6	1092.1	1096.4	1070.4	1046.7	1010.1	983.6	949.5	914.4	872.5
39°	973.4	962.7	941.7	942.7	923.1	896.4	860.9	829.7	809.2	775.5	735.4
40°	801.2	796.7	789.4	777.3	751.6	740.0	708.3	674.6	657.3	610.6	591.0
42.5°	444.6	438.4	426.1	421.8	408.1	394.5	376.0	353.5	342.5	328.6	297.7
45°	181.7	193.8	190.9	187.4	177.0	177.6	164.4	166.0	154.0	145.8	140.1
47.5°	40.1	43.5	43.7	42.1	43.7	42.4	41.7	40.5	40.8	41.5	39.9
50°	18.2	18.0	18.4	18.2	18.0	17.8	17.5	16.9	17.3	16.9	16.4
52.5°	7.1	7.3	7.3	6.8	7.1	7.1	7.1	6.8	6.8	6.8	6.8
55°	2.3	2.3	2.3	2.0	2.0	2.3	2.3	2.3	2.3	2.3	2.0
57.5°	0.2	0.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: P3SQAS02R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	10.5	9.6	8.9	8.2	6.8	5.7	5.2	5.2
5°	16.2	12.5	9.3	7.5	5.2	3.4	2.7	2.5
7.5°	24.4	16.9	9.8	6.4	3.4	1.8	1.1	0.9
10°	35.3	21.9	10.2	5.2	2.0	0.7	0.0	0.0
12.5°	61.7	26.2	10.2	4.1	0.9	0.0	0.0	0.0
15°	141.4	29.4	9.8	3.0	0.2	0.0	0.0	0.0
17.5°	293.8	36.9	8.7	2.0	0.0	0.0	0.0	0.0
20°	469.2	48.1	6.8	1.1	0.0	0.0	0.0	0.0
21°	541.4	51.9	6.1	0.9	0.0	0.0	0.0	0.0
22°	593.3	55.6	5.5	0.7	0.0	0.0	0.0	0.0
23°	650.4	57.8	4.8	0.5	0.0	0.0	0.0	0.0
24°	692.6	59.2	4.1	0.5	0.0	0.0	0.0	0.0
25°	718.8	59.2	3.6	0.5	0.0	0.0	0.0	0.0
26°	734.3	57.8	3.2	0.2	0.0	0.0	0.0	0.0
27°	737.9	55.6	2.7	0.2	0.0	0.0	0.0	0.0
28°	733.4	52.6	2.3	0.0	0.0	0.0	0.0	0.0
29°	719.0	48.3	2.0	0.0	0.0	0.0	0.0	0.0
30°	703.5	43.7	1.6	0.0	0.0	0.0	0.0	0.0
31°	677.1	37.6	1.4	0.0	0.0	0.0	0.0	0.0
32°	646.6	31.2	1.1	0.0	0.0	0.0	0.0	0.0
33°	605.8	24.6	0.9	0.0	0.0	0.0	0.0	0.0
34°	545.7	19.4	0.9	0.0	0.0	0.0	0.0	0.0
35°	491.7	15.7	0.7	0.0	0.0	0.0	0.0	0.0
36°	421.1	12.5	0.7	0.0	0.0	0.0	0.0	0.0
37°	360.8	10.5	0.7	0.0	0.0	0.0	0.0	0.0
38°	302.0	8.9	0.5	0.0	0.0	0.0	0.0	0.0
39°	245.1	7.7	0.5	0.0	0.0	0.0	0.0	0.0
40°	195.4	6.8	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	105.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	58.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	25.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)