

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: P1308596

Luminaire Tested: P3SQAS02R209035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308596
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: P3SQAS02R209035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

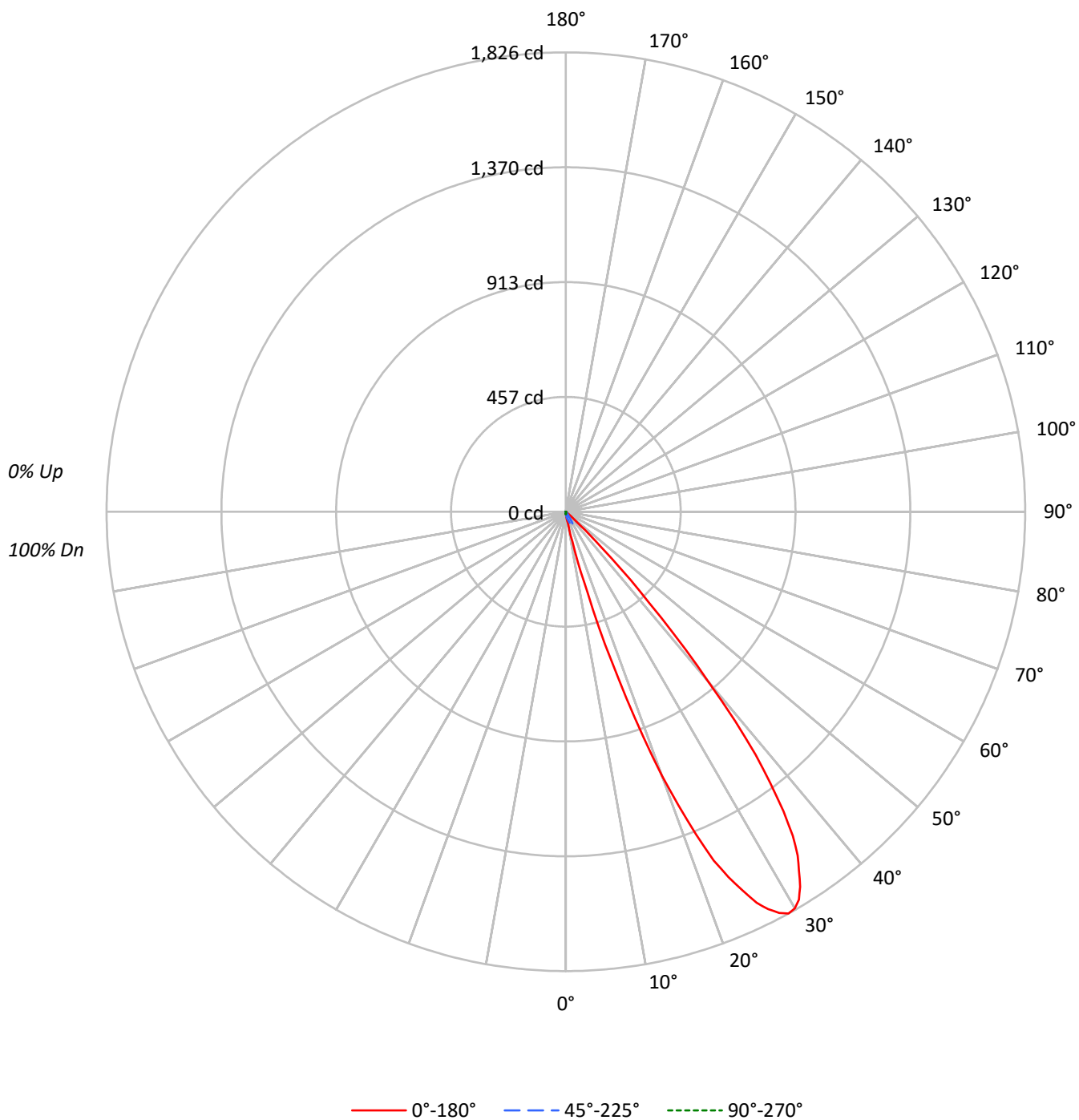
Lumens per Lamp: N/A
Luminaire Lumens: 252.1 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

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	79	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°	1550	1550	1550	1550	1550
5°	3371	2386	1435	657	484
10°	8412	4215	1014	140	0
15°	59213	5759	588	0	0
20°	204627	9695	238	0	0
25°	315425	12390	95	0	0
30°	362035	9565	0	0	0
35°	330652	3637	0	0	0
40°	198224	1686	0	0	0
45°	48712	804	0	0	0
50°	5359	214	0	0	0
55°	751	0	90	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	151	403	0	0
75°	0	200	532	0	0
80°	0	298	793	0	0
85°	0	593	1581	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 51951 cd/sqm

TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	19.7	7.8
20°-30°	99.6	39.5
30°-40°	107.7	42.7
40°-50°	22.8	9.0
50°-60°	0.7	0.3
60°-70°	0.2	0.1
70°-80°	0.3	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°	120.3	47.7
0°-40°	228.0	90.4
0°-60°	251.4	99.7
0°-90°	252.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	252.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	14	8	4	3	3
15°	332	32	3	0	0	138
25°	1660	65	0	0	0	750
35°	1573	17	0	0	0	927
45°	200	3	0	0	0	220
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	

TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	12.3	12.0	12.3	12.0	12.3	12.3	12.3	12.0	12.0	12.0	12.0
5°	19.5	19.5	19.3	19.5	19.5	19.5	19.5	19.3	19.3	19.0	19.0
7.5°	30.8	30.8	30.6	30.6	30.8	31.1	30.1	30.6	30.6	30.6	30.3
10°	48.1	49.1	48.1	49.4	48.4	47.6	48.9	47.6	47.6	47.4	46.6
12.5°	121.3	118.5	116.8	112.5	116.8	113.5	114.3	113.5	111.0	107.8	105.8
15°	332.1	332.1	322.3	335.3	325.8	329.3	311.3	311.5	302.3	292.2	286.7
17.5°	694.2	700.5	694.0	690.0	681.4	669.2	664.2	651.4	634.6	615.0	612.8
20°	1116.5	1090.2	1102.5	1091.2	1084.2	1069.2	1052.4	1041.8	1027.1	1002.2	965.6
21°	1249.4	1248.4	1248.1	1247.9	1237.6	1213.0	1197.7	1176.7	1155.9	1130.3	1099.7
22°	1383.2	1387.9	1390.0	1375.4	1354.4	1343.3	1332.8	1304.0	1271.2	1257.9	1221.5
23°	1506.0	1501.5	1488.4	1481.7	1465.4	1462.1	1430.8	1412.5	1380.4	1365.9	1322.8
24°	1589.7	1587.4	1581.4	1571.4	1558.4	1538.3	1519.5	1490.7	1464.4	1440.6	1400.5
25°	1659.9	1661.9	1650.9	1644.1	1630.1	1607.5	1584.4	1552.9	1528.3	1500.5	1454.1
26°	1729.3	1715.3	1706.5	1696.5	1681.2	1655.4	1633.1	1604.7	1574.9	1543.8	1498.5
27°	1772.2	1759.6	1746.3	1736.6	1719.0	1694.5	1670.7	1639.3	1606.0	1574.7	1528.0
28°	1806.0	1792.2	1779.2	1767.4	1747.3	1721.0	1692.5	1660.6	1626.0	1593.7	1546.1
29°	1826.0	1809.7	1795.7	1782.4	1764.1	1735.6	1706.7	1672.7	1639.3	1605.5	1556.9
30°	1820.5	1806.5	1793.0	1779.4	1760.9	1734.1	1705.5	1672.9	1639.3	1606.0	1556.6
31°	1799.0	1781.7	1771.9	1758.4	1742.3	1715.0	1690.5	1654.9	1624.5	1588.4	1539.1
32°	1757.6	1746.6	1733.6	1723.0	1707.5	1678.4	1654.4	1625.3	1589.5	1559.9	1508.0
33°	1701.5	1691.2	1684.7	1672.4	1657.4	1637.3	1608.5	1581.9	1541.6	1511.3	1459.4
34°	1647.8	1634.8	1618.5	1615.0	1602.0	1576.2	1550.1	1523.0	1486.9	1448.3	1396.0
35°	1572.7	1559.1	1544.1	1545.3	1529.8	1499.7	1473.2	1442.8	1408.5	1363.1	1313.5
36°	1472.2	1463.1	1460.9	1454.9	1437.1	1401.2	1375.9	1337.8	1309.0	1253.6	1211.0
37°	1349.6	1352.9	1336.6	1328.8	1308.0	1282.9	1268.7	1219.8	1186.2	1144.6	1087.0
38°	1225.8	1221.0	1201.7	1206.5	1177.9	1151.9	1111.5	1082.4	1044.8	1006.3	960.1
39°	1071.2	1059.4	1036.3	1037.3	1015.8	986.5	947.4	913.0	890.5	853.4	809.3
40°	881.7	876.7	868.7	855.4	827.1	814.3	779.4	742.3	723.3	671.9	650.4
42.5°	489.2	482.4	468.9	464.2	449.1	434.1	413.8	389.0	376.9	361.6	327.6
45°	200.0	213.3	210.0	206.3	194.7	195.5	180.9	182.7	169.4	160.4	154.1
47.5°	44.1	47.9	48.1	46.4	48.1	46.6	45.9	44.6	44.9	45.6	43.9
50°	20.0	19.8	20.3	20.0	19.8	19.5	19.3	18.5	19.0	18.5	18.0
52.5°	7.8	8.0	8.0	7.5	7.8	7.8	7.8	7.5	7.5	7.5	7.5
55°	2.5	2.5	2.5	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.3
57.5°	0.3	0.5	0.3	0.5	0.3	0.3	0.3	0.3	0.3	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



TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

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

TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	11.5	10.5	9.8	9.0	7.5	6.3	5.8	5.8
5°	17.8	13.8	10.3	8.3	5.8	3.8	3.0	2.8
7.5°	26.8	18.5	10.8	7.0	3.8	2.0	1.3	1.0
10°	38.8	24.1	11.3	5.8	2.3	0.8	0.0	0.0
12.5°	67.9	28.8	11.3	4.5	1.0	0.0	0.0	0.0
15°	155.6	32.3	10.8	3.3	0.3	0.0	0.0	0.0
17.5°	323.3	40.6	9.5	2.3	0.0	0.0	0.0	0.0
20°	516.3	52.9	7.5	1.3	0.0	0.0	0.0	0.0
21°	595.7	57.1	6.8	1.0	0.0	0.0	0.0	0.0
22°	652.9	61.2	6.0	0.8	0.0	0.0	0.0	0.0
23°	715.8	63.7	5.3	0.5	0.0	0.0	0.0	0.0
24°	762.1	65.2	4.5	0.5	0.0	0.0	0.0	0.0
25°	791.0	65.2	4.0	0.5	0.0	0.0	0.0	0.0
26°	808.0	63.7	3.5	0.3	0.0	0.0	0.0	0.0
27°	812.0	61.2	3.0	0.3	0.0	0.0	0.0	0.0
28°	807.0	57.9	2.5	0.0	0.0	0.0	0.0	0.0
29°	791.2	53.1	2.3	0.0	0.0	0.0	0.0	0.0
30°	774.2	48.1	1.8	0.0	0.0	0.0	0.0	0.0
31°	745.1	41.4	1.5	0.0	0.0	0.0	0.0	0.0
32°	711.5	34.3	1.3	0.0	0.0	0.0	0.0	0.0
33°	666.7	27.1	1.0	0.0	0.0	0.0	0.0	0.0
34°	600.5	21.3	1.0	0.0	0.0	0.0	0.0	0.0
35°	541.1	17.3	0.8	0.0	0.0	0.0	0.0	0.0
36°	463.4	13.8	0.8	0.0	0.0	0.0	0.0	0.0
37°	397.0	11.5	0.8	0.0	0.0	0.0	0.0	0.0
38°	332.3	9.8	0.5	0.0	0.0	0.0	0.0	0.0
39°	269.7	8.5	0.5	0.0	0.0	0.0	0.0	0.0
40°	215.0	7.5	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	116.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	64.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	28.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	9.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
57.5°	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.3	0.5	0.3	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.3	0.0	0.0	0.0
67.5°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
70°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
72.5°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
75°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
77.5°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
80°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0



TEST NUMBER: P1308596

CATALOG NUMBER: P3SQAS02R209035DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
85°	0.0	0.3	0.5	0.8	0.3	0.0	0.0	0.0
87.5°	0.0	0.3	0.5	0.8	0.3	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)