

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: P1312109

Luminaire Tested: P3SQAS05R309727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R309727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

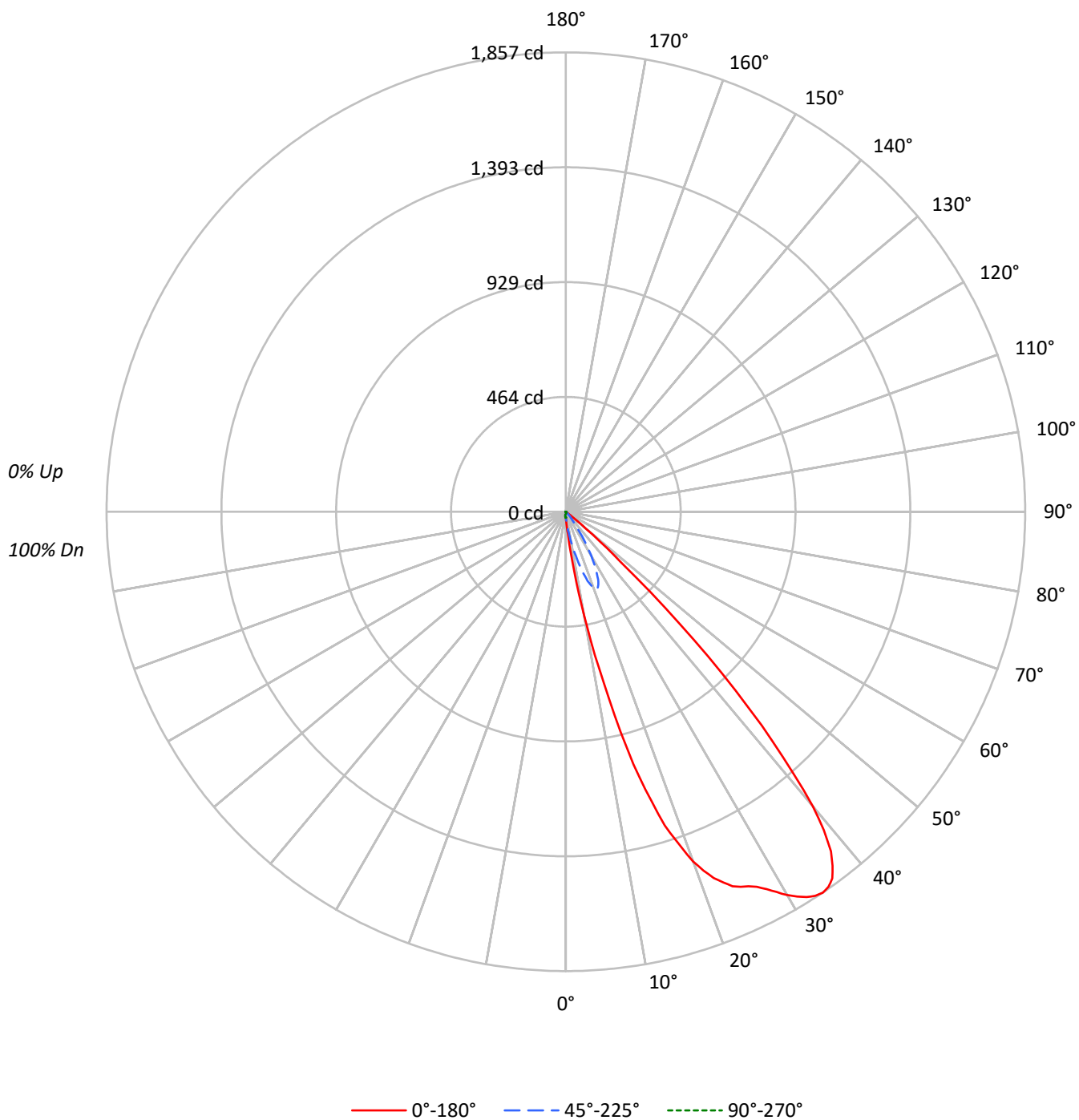
Lumens per Lamp: N/A
Luminaire Lumens: 447.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1312109

CATALOG NUMBER: P3SQAS05R309727DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312109

CATALOG NUMBER: P3SQAS05R309727DE010 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	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4116	4116	4116	4116	4116
5°	14937	9284	3769	1521	1089
10°	73939	22227	2938	297	0
15°	188621	42328	1872	0	0
20°	275628	60206	770	0	0
25°	317972	59060	152	0	0
30°	355870	40549	0	0	0
35°	389206	17471	0	0	0
40°	349326	6790	0	0	0
45°	178383	2752	0	0	0
50°	27543	348	0	0	0
55°	1651	0	120	0	0
60°	0	0	138	0	0
65°	0	0	326	0	0
70°	0	201	403	0	0
75°	0	266	865	0	0
80°	0	397	1289	0	0
85°	0	790	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 178383 cd/sqm

TEST NUMBER: P1312109

CATALOG NUMBER: P3SQAS05R309727DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	1.1
10°-20°	59.6	13.3
20°-30°	147.2	32.9
30°-40°	169.3	37.9
40°-50°	62.8	14.0
50°-60°	2.3	0.5
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.3	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°	211.7	47.4
0°-40°	381.0	85.2
0°-60°	446.1	99.8
0°-90°	447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	86	54	22	9	6	19
15°	1058	237	10	0	0	304
25°	1673	311	1	0	0	773
35°	1851	83	0	0	0	1122
45°	732	11	0	0	0	570
55°	6	0	0	0	0	19
65°	0	0	1	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: P1312109

CATALOG NUMBER: P3SQAS05R309727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	42.4	42.8	42.8	41.5	41.1	40.7	39.4	35.7	29.8	23.9	19.3
5°	86.4	86.8	86.8	84.3	79.3	74.2	70.1	53.7	34.4	21.8	14.3
7.5°	203.9	204.3	195.5	185.4	165.3	154.8	135.5	82.6	39.0	19.7	9.2
10°	422.8	413.6	390.5	361.2	330.1	289.9	249.2	127.1	42.4	16.8	5.9
12.5°	706.8	698.0	668.2	626.3	565.5	486.6	409.4	178.7	42.8	13.4	3.4
15°	1057.9	1033.2	997.5	927.9	838.1	716.1	588.5	237.4	41.1	10.5	0.8
17.5°	1330.2	1307.5	1262.2	1180.9	1069.3	933.8	777.3	293.2	36.5	6.7	0.0
20°	1503.9	1479.9	1437.6	1365.8	1247.1	1088.1	909.0	328.5	30.2	4.2	0.0
21°	1553.4	1530.3	1488.8	1417.4	1299.1	1140.6	941.3	336.0	27.3	3.4	0.0
22°	1597.0	1578.9	1540.3	1462.7	1342.4	1179.2	974.0	336.8	25.2	2.5	0.0
23°	1627.6	1614.6	1576.0	1504.7	1384.7	1210.6	991.7	331.8	22.7	1.7	0.0
24°	1657.0	1641.0	1607.9	1541.6	1418.3	1237.1	1007.6	322.6	20.1	1.3	0.0
25°	1673.3	1654.9	1629.3	1567.2	1446.0	1253.8	1017.3	310.8	17.6	0.8	0.0
26°	1684.7	1670.4	1642.3	1582.3	1457.7	1264.7	1018.5	293.6	15.9	0.4	0.0
27°	1701.9	1687.6	1660.3	1595.7	1462.7	1263.1	1011.0	273.9	13.8	0.0	0.0
28°	1727.9	1709.0	1681.7	1610.0	1464.8	1255.9	994.2	252.5	11.7	0.0	0.0
29°	1757.6	1738.3	1708.6	1628.9	1465.3	1241.7	967.8	229.0	10.5	0.0	0.0
30°	1789.5	1772.7	1742.5	1647.3	1469.9	1223.2	937.1	203.9	8.4	0.0	0.0
31°	1814.7	1799.6	1767.3	1664.1	1473.7	1207.3	899.4	178.7	7.1	0.0	0.0
32°	1836.5	1823.1	1783.2	1667.9	1466.1	1184.6	859.1	154.4	5.9	0.0	0.0
33°	1851.6	1834.8	1788.3	1658.2	1444.3	1147.3	814.2	131.3	4.6	0.0	0.0
34°	1857.1	1836.9	1780.7	1633.1	1400.2	1090.7	755.9	107.4	3.8	0.0	0.0
35°	1851.2	1826.4	1753.4	1589.8	1340.7	1023.1	685.9	83.1	2.9	0.0	0.0
36°	1832.3	1800.8	1714.4	1528.2	1255.5	943.4	615.8	64.6	2.1	0.0	0.0
37°	1791.6	1756.8	1647.7	1446.8	1171.2	852.0	536.1	50.3	1.3	0.0	0.0
38°	1741.7	1691.4	1558.8	1344.0	1062.1	749.2	457.2	41.5	0.8	0.0	0.0
39°	1656.5	1601.2	1453.1	1225.7	955.2	651.5	380.5	36.1	0.4	0.0	0.0
40°	1553.8	1487.9	1332.3	1099.1	828.9	549.1	317.6	30.2	0.4	0.0	0.0
42.5°	1172.0	1116.2	948.9	747.5	506.7	323.8	176.2	19.7	0.0	0.0	0.0
45°	732.4	674.1	560.9	409.8	274.3	167.8	84.7	11.3	0.0	0.0	0.0
47.5°	299.1	274.3	225.7	173.7	124.2	78.9	35.2	5.0	0.0	0.0	0.0
50°	102.8	91.4	76.8	56.2	39.9	27.3	18.5	1.3	0.0	0.0	0.0
52.5°	29.8	30.2	26.4	22.7	17.6	12.6	9.2	0.0	0.0	0.0	0.0
55°	5.5	4.6	5.5	5.0	5.5	4.6	3.4	0.0	0.0	0.4	0.0
57.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4



TEST NUMBER: P1312109

CATALOG NUMBER: P3SQAS05R309727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.4
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):

	135°	157.5°	180°
0°	23.9	23.9	23.9
2.5°	15.5	13.8	13.0
5°	8.8	6.7	6.3
7.5°	4.6	2.9	2.5
10°	1.7	0.4	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)