

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: P1314825

Luminaire Tested: P3SQAS02R209740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314825
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: P3SQAS02R209740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

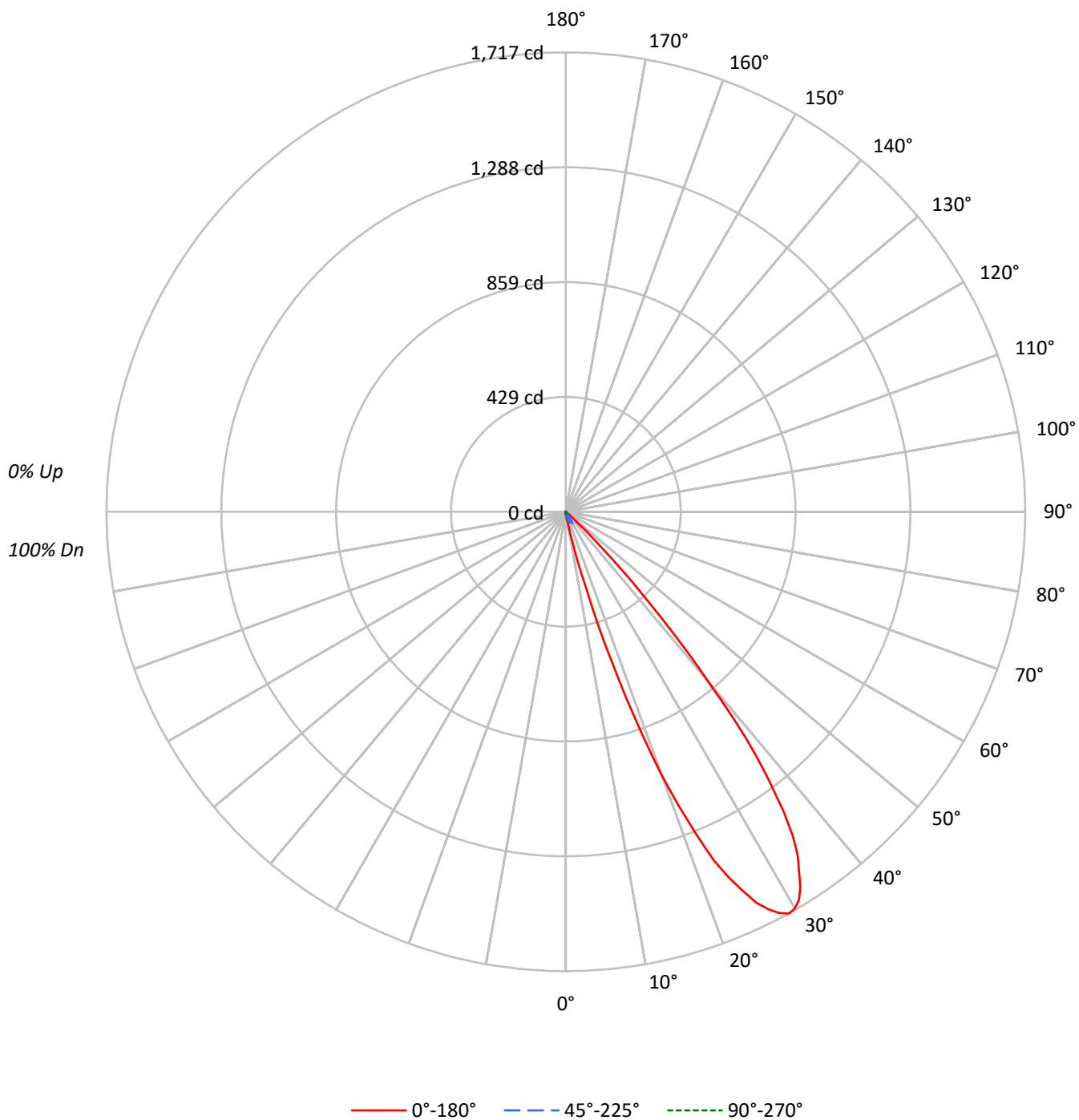
Lumens per Lamp: N/A
Luminaire Lumens: 237.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50		
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°	1464	1464	1464	1464	1464
5°	3181	2247	1348	605	449
10°	7922	3952	944	122	0
15°	55682	5420	553	0	0
20°	192458	9109	220	0	0
25°	296651	11649	95	0	0
30°	340498	9009	0	0	0
35°	310952	3427	0	0	0
40°	186421	1596	0	0	0
45°	45814	755	0	0	0
50°	5064	188	0	0	0
55°	721	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: 48858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	18.5	7.8
20°-30°	93.6	39.5
30°-40°	101.3	42.7
40°-50°	21.4	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°	113.1	47.7
0°-40°	214.4	90.5
0°-60°	236.4	99.8
0°-90°	237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	237.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	8	4	3	3
15°	312	30	3	0	0	130
25°	1561	61	0	0	0	706
35°	1479	16	0	0	0	872
45°	188	3	0	0	0	207
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°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	11.5	11.3	11.5	11.3	11.5	11.5	11.5	11.3	11.3	11.3	11.3
5°	18.4	18.4	18.1	18.4	18.4	18.4	18.4	18.1	18.1	17.9	17.9
7.5°	29.0	29.0	28.8	28.8	29.0	29.2	28.3	28.8	28.8	28.8	28.5
10°	45.3	46.2	45.3	46.4	45.5	44.8	46.0	44.8	44.8	44.5	43.8
12.5°	114.1	111.5	109.8	105.8	109.8	106.8	107.5	106.8	104.4	101.4	99.5
15°	312.3	312.3	303.1	315.4	306.4	309.7	292.7	293.0	284.3	274.8	269.6
17.5°	652.9	658.8	652.7	648.9	640.9	629.3	624.6	612.6	596.8	578.4	576.3
20°	1050.1	1025.3	1036.9	1026.3	1019.7	1005.5	989.7	979.8	965.9	942.6	908.2
21°	1175.0	1174.0	1173.8	1173.6	1163.9	1140.8	1126.4	1106.6	1087.1	1063.0	1034.3
22°	1300.9	1305.3	1307.2	1293.5	1273.7	1263.4	1253.5	1226.4	1195.5	1183.0	1148.8
23°	1416.4	1412.1	1399.9	1393.5	1378.2	1375.1	1345.6	1328.4	1298.3	1284.6	1244.1
24°	1495.1	1493.0	1487.3	1477.9	1465.6	1446.8	1429.1	1402.0	1377.2	1354.8	1317.1
25°	1561.1	1563.0	1552.6	1546.2	1533.0	1511.8	1490.1	1460.4	1437.3	1411.2	1367.6
26°	1626.4	1613.2	1604.9	1595.5	1581.1	1556.8	1535.9	1509.2	1481.2	1451.9	1409.3
27°	1666.7	1654.9	1642.4	1633.2	1616.7	1593.6	1571.2	1541.7	1510.4	1480.9	1437.1
28°	1698.5	1685.5	1673.3	1662.2	1643.3	1618.6	1591.7	1561.8	1529.3	1498.8	1454.1
29°	1717.3	1702.0	1688.8	1676.3	1659.1	1632.3	1605.1	1573.1	1541.7	1509.9	1464.2
30°	1712.2	1699.0	1686.2	1673.5	1656.1	1630.8	1604.0	1573.3	1541.7	1510.4	1464.0
31°	1691.9	1675.6	1666.4	1653.7	1638.6	1612.9	1589.8	1556.4	1527.8	1493.9	1447.5
32°	1653.0	1642.6	1630.4	1620.5	1605.9	1578.5	1555.9	1528.5	1494.8	1467.0	1418.2
33°	1600.2	1590.5	1584.4	1572.9	1558.7	1539.9	1512.8	1487.8	1449.8	1421.3	1372.5
34°	1549.8	1537.5	1522.2	1518.9	1506.6	1482.3	1457.8	1432.4	1398.4	1362.1	1312.9
35°	1479.0	1466.3	1452.2	1453.4	1438.7	1410.5	1385.5	1357.0	1324.7	1282.0	1235.3
36°	1384.5	1376.0	1373.9	1368.3	1351.5	1317.8	1294.0	1258.2	1231.1	1179.0	1138.9
37°	1269.3	1272.3	1257.0	1249.7	1230.1	1206.6	1193.1	1147.2	1115.6	1076.5	1022.3
38°	1152.8	1148.4	1130.2	1134.7	1107.8	1083.3	1045.4	1018.0	982.7	946.4	903.0
39°	1007.4	996.3	974.6	975.6	955.3	927.7	891.0	858.7	837.5	802.6	761.1
40°	829.2	824.5	817.0	804.5	777.8	765.8	733.0	698.2	680.2	631.9	611.7
42.5°	460.1	453.7	441.0	436.5	422.4	408.2	389.1	365.8	354.5	340.1	308.1
45°	188.1	200.6	197.5	194.0	183.1	183.8	170.2	171.8	159.3	150.9	145.0
47.5°	41.5	45.0	45.3	43.6	45.3	43.8	43.1	42.0	42.2	42.9	41.2
50°	18.9	18.6	19.1	18.9	18.6	18.4	18.1	17.4	17.9	17.4	17.0
52.5°	7.3	7.5	7.5	7.1	7.3	7.3	7.3	7.1	7.1	7.1	7.1
55°	2.4	2.4	2.4	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.1
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

TEST NUMBER: P1314825

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	10.8	9.9	9.2	8.5	7.1	5.9	5.4	5.4
5°	16.7	13.0	9.7	7.8	5.4	3.5	2.8	2.6
7.5°	25.2	17.4	10.1	6.6	3.5	1.9	1.2	0.9
10°	36.5	22.6	10.6	5.4	2.1	0.7	0.0	0.0
12.5°	63.9	27.1	10.6	4.2	0.9	0.0	0.0	0.0
15°	146.4	30.4	10.1	3.1	0.2	0.0	0.0	0.0
17.5°	304.1	38.2	9.0	2.1	0.0	0.0	0.0	0.0
20°	485.6	49.7	7.1	1.2	0.0	0.0	0.0	0.0
21°	560.3	53.7	6.4	0.9	0.0	0.0	0.0	0.0
22°	614.0	57.5	5.7	0.7	0.0	0.0	0.0	0.0
23°	673.2	59.9	4.9	0.5	0.0	0.0	0.0	0.0
24°	716.8	61.3	4.2	0.5	0.0	0.0	0.0	0.0
25°	743.9	61.3	3.8	0.5	0.0	0.0	0.0	0.0
26°	759.9	59.9	3.3	0.2	0.0	0.0	0.0	0.0
27°	763.7	57.5	2.8	0.2	0.0	0.0	0.0	0.0
28°	759.0	54.4	2.4	0.0	0.0	0.0	0.0	0.0
29°	744.1	50.0	2.1	0.0	0.0	0.0	0.0	0.0
30°	728.1	45.3	1.6	0.0	0.0	0.0	0.0	0.0
31°	700.8	38.9	1.4	0.0	0.0	0.0	0.0	0.0
32°	669.2	32.3	1.2	0.0	0.0	0.0	0.0	0.0
33°	627.0	25.5	0.9	0.0	0.0	0.0	0.0	0.0
34°	564.7	20.0	0.9	0.0	0.0	0.0	0.0	0.0
35°	508.9	16.3	0.7	0.0	0.0	0.0	0.0	0.0
36°	435.8	13.0	0.7	0.0	0.0	0.0	0.0	0.0
37°	373.4	10.8	0.7	0.0	0.0	0.0	0.0	0.0
38°	312.5	9.2	0.5	0.0	0.0	0.0	0.0	0.0
39°	253.6	8.0	0.5	0.0	0.0	0.0	0.0	0.0
40°	202.2	7.1	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	109.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	60.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	26.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	9.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.1	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)