

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: P1311892

Luminaire Tested: P3SQAS02R159727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R159727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

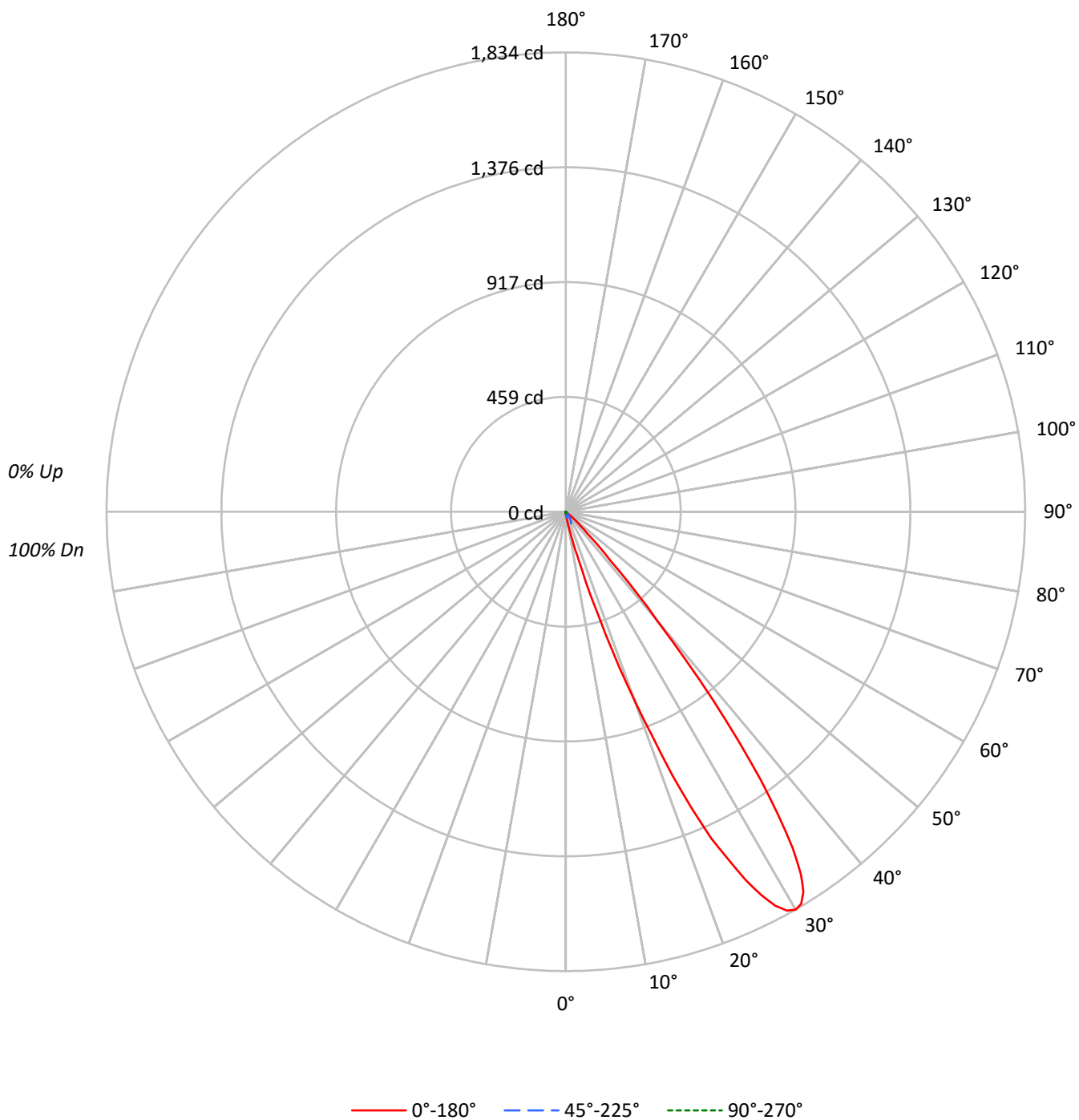
Lumens per Lamp: N/A
Luminaire Lumens: 194.0 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1188	1188	1188	1188	1188
5°	3458	2610	1020	415	277
10°	8989	3882	682	0	0
15°	35945	6365	357	0	0
20°	146822	9384	110	0	0
25°	290247	9311	0	0	0
30°	364799	7338	0	0	0
35°	311247	4499	0	0	0
40°	128148	1416	0	0	0
45°	27717	585	0	0	0
50°	3563	0	0	0	0
55°	300	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	302	0	0
75°	0	133	399	0	0
80°	0	198	595	0	0
85°	0	395	1186	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 29008 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	13.6	7.0
20°-30°	79.2	40.9
30°-40°	85.0	43.8
40°-50°	14.3	7.4
50°-60°	0.4	0.2
60°-70°	0.1	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°	93.8	48.3
0°-40°	178.7	92.1
0°-60°	193.5	99.8
0°-90°	194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	194.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	20	15	6	2	2	3
15°	202	36	2	0	0	93
25°	1527	49	0	0	0	691
35°	1480	21	0	0	0	851
45°	114	2	0	0	0	134
55°	1	0	0	0	0	3
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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	12.6	12.9	13.1	13.1	13.1	13.1	12.9	12.9	12.9	12.9	12.6
5°	20.0	20.0	20.0	20.0	20.0	20.0	19.8	19.8	19.8	19.8	19.8
7.5°	28.6	28.2	28.4	27.7	28.2	27.9	27.7	28.2	28.2	27.1	27.1
10°	51.4	51.2	49.2	49.6	50.0	49.8	49.8	48.6	48.3	47.5	46.7
12.5°	99.1	101.4	103.0	103.0	99.1	100.6	97.9	98.5	98.9	97.7	93.4
15°	201.6	205.2	201.3	205.0	203.6	198.3	192.4	184.4	187.5	182.0	180.1
17.5°	441.5	449.8	446.4	429.4	434.9	421.9	413.7	410.7	402.1	376.6	366.0
20°	801.1	811.3	801.7	781.9	788.3	763.6	757.3	751.3	713.4	699.5	655.0
21°	952.5	960.8	964.5	943.9	931.3	911.7	895.4	890.1	867.0	840.3	794.6
22°	1135.3	1125.5	1103.4	1106.3	1087.5	1071.4	1048.8	1027.4	1001.6	964.3	926.6
23°	1286.6	1275.2	1264.8	1252.2	1232.0	1220.5	1188.1	1164.6	1131.2	1091.2	1054.9
24°	1427.6	1410.1	1403.5	1381.1	1375.4	1349.7	1323.4	1292.8	1252.4	1209.7	1169.5
25°	1527.4	1530.0	1524.3	1521.6	1492.5	1466.2	1440.0	1392.9	1358.4	1320.7	1258.9
26°	1634.3	1635.5	1632.6	1613.0	1586.7	1561.0	1527.4	1486.4	1436.4	1394.6	1338.7
27°	1716.1	1711.2	1707.1	1683.8	1662.2	1629.8	1599.2	1550.6	1501.9	1452.1	1387.2
28°	1781.3	1772.2	1767.1	1747.1	1721.8	1682.0	1644.5	1599.2	1550.4	1497.0	1426.8
29°	1820.7	1810.9	1805.2	1783.2	1754.0	1719.1	1681.2	1631.4	1579.0	1519.4	1448.8
30°	1834.4	1828.7	1819.7	1796.8	1766.7	1730.3	1691.4	1637.3	1582.4	1521.4	1446.8
31°	1825.4	1818.1	1809.5	1784.8	1752.2	1717.5	1672.2	1615.5	1557.8	1499.6	1420.5
32°	1789.7	1785.2	1774.8	1741.8	1715.2	1670.4	1625.7	1572.6	1509.6	1447.2	1375.6
33°	1722.8	1715.4	1706.5	1676.3	1642.4	1599.4	1554.9	1500.6	1438.0	1372.1	1293.4
34°	1620.8	1611.4	1600.2	1580.0	1536.7	1499.4	1448.0	1384.6	1332.7	1269.5	1198.3
35°	1480.4	1466.8	1453.3	1438.0	1389.5	1355.0	1320.3	1265.0	1215.0	1155.5	1074.9
36°	1322.9	1317.6	1306.6	1266.2	1250.5	1203.6	1175.7	1112.2	1071.8	1013.5	947.0
37°	1144.9	1113.6	1129.6	1106.9	1059.6	1044.9	1011.6	957.2	913.5	851.9	803.8
38°	953.9	933.5	944.7	921.9	897.2	863.3	838.0	798.3	749.3	700.9	655.3
39°	756.0	739.5	751.7	736.2	698.7	684.6	662.2	631.8	592.4	554.7	511.4
40°	570.0	548.8	565.1	543.1	525.9	502.9	491.4	463.5	439.0	416.4	388.8
42.5°	260.3	258.1	254.4	246.4	244.6	244.8	230.7	221.5	209.1	194.6	185.8
45°	113.8	116.7	119.1	114.6	114.4	112.0	111.2	105.1	102.6	97.9	92.2
47.5°	56.1	57.1	56.5	57.7	56.7	55.1	54.7	53.9	51.4	51.2	48.6
50°	13.3	13.1	13.1	13.3	13.1	13.1	12.9	12.4	12.2	12.4	11.8
52.5°	4.3	4.5	4.3	4.1	4.3	4.5	4.3	4.3	4.3	4.3	4.3
55°	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.0	1.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	12.4	10.6	8.8	6.9	5.1	4.1	3.9	3.7
5°	18.8	15.1	10.0	5.9	3.5	2.4	1.8	1.6
7.5°	25.3	18.8	11.0	4.9	2.4	1.0	0.4	0.2
10°	36.3	22.2	11.4	3.9	1.2	0.0	0.0	0.0
12.5°	71.2	25.5	11.2	3.1	0.2	0.0	0.0	0.0
15°	118.3	35.7	10.4	2.0	0.0	0.0	0.0	0.0
17.5°	193.8	46.1	9.0	1.4	0.0	0.0	0.0	0.0
20°	300.5	51.2	6.9	0.6	0.0	0.0	0.0	0.0
21°	352.3	51.6	6.1	0.4	0.0	0.0	0.0	0.0
22°	397.2	51.6	5.3	0.2	0.0	0.0	0.0	0.0
23°	438.8	51.0	4.7	0.0	0.0	0.0	0.0	0.0
24°	473.1	50.2	4.3	0.0	0.0	0.0	0.0	0.0
25°	498.8	49.0	3.9	0.0	0.0	0.0	0.0	0.0
26°	510.6	47.3	3.3	0.0	0.0	0.0	0.0	0.0
27°	516.5	45.1	2.9	0.0	0.0	0.0	0.0	0.0
28°	512.5	42.6	2.4	0.0	0.0	0.0	0.0	0.0
29°	502.3	40.0	1.8	0.0	0.0	0.0	0.0	0.0
30°	489.0	36.9	1.4	0.0	0.0	0.0	0.0	0.0
31°	469.6	33.9	1.0	0.0	0.0	0.0	0.0	0.0
32°	443.1	30.8	0.8	0.0	0.0	0.0	0.0	0.0
33°	407.6	27.5	0.4	0.0	0.0	0.0	0.0	0.0
34°	363.7	24.3	0.2	0.0	0.0	0.0	0.0	0.0
35°	314.6	21.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	272.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	229.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	192.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	159.3	9.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	132.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	73.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	44.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	25.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.4	0.6	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.6	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	0.4	0.6	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.6	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)