

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: P1310813

Luminaire Tested: P3SQAS02R209050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310813  
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: P3SQAS02R209050DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

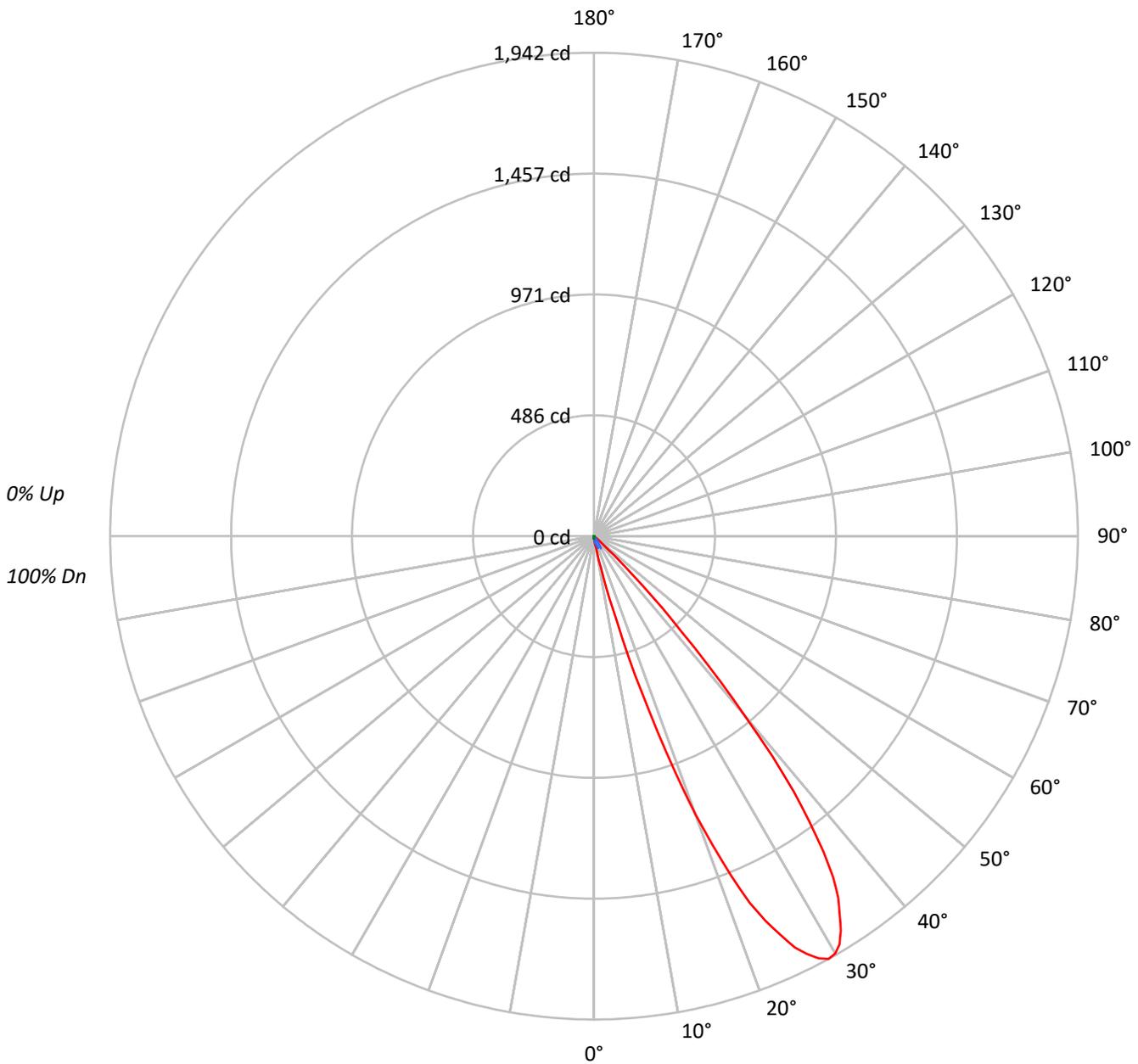
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 268.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 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 (A<sub>in</sub>): 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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68				68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61				61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55				55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45				45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36				36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	1653	1653	1653	1653	1653
5°	3596	2541	1521	692	501
10°	8954	4477	1067	140	0
15°	62975	6133	624	0	0
20°	217621	10300	238	0	0
25°	335454	13169	95	0	0
30°	385024	10182	0	0	0
35°	351635	3869	0	0	0
40°	210814	1799	0	0	0
45°	51805	852	0	0	0
50°	5707	214	0	0	0
55°	811	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: 55239 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	20.9	7.8
20°-30°	105.9	39.5
30°-40°	114.5	42.7
40°-50°	24.2	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°	127.9	47.7
0°-40°	242.4	90.5
0°-60°	267.4	99.8
0°-90°	268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	21	15	9	4	3	3
15°	353	34	4	0	0	147
25°	1765	69	0	0	0	798
35°	1672	18	0	0	0	986
45°	213	4	0	0	0	234
55°	3	0	0	0	0	5
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°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
2.5°	13.1	12.8	13.1	12.8	13.1	13.1	13.1	12.8	12.8	12.8	12.8
5°	20.8	20.8	20.5	20.8	20.8	20.8	20.8	20.5	20.5	20.3	20.3
7.5°	32.8	32.8	32.5	32.5	32.8	33.1	32.0	32.5	32.5	32.5	32.3
10°	51.2	52.2	51.2	52.5	51.4	50.6	52.0	50.6	50.6	50.4	49.6
12.5°	129.0	126.1	124.2	119.7	124.2	120.7	121.5	120.7	118.1	114.6	112.5
15°	353.2	353.2	342.8	356.6	346.5	350.2	331.0	331.3	321.4	310.8	304.9
17.5°	738.3	745.0	738.0	733.8	724.7	711.6	706.3	692.7	674.9	654.1	651.7
20°	1187.4	1159.4	1172.5	1160.5	1153.0	1137.0	1119.2	1108.0	1092.3	1065.9	1027.0
21°	1328.7	1327.6	1327.3	1327.1	1316.2	1290.0	1273.8	1251.4	1229.3	1202.1	1169.6
22°	1471.0	1476.1	1478.2	1462.7	1440.4	1428.6	1417.4	1386.8	1351.9	1337.7	1299.1
23°	1601.6	1596.8	1583.0	1575.8	1558.4	1555.0	1521.7	1502.2	1468.1	1452.6	1406.8
24°	1690.6	1688.2	1681.8	1671.2	1657.3	1636.0	1616.0	1585.4	1557.4	1532.0	1489.4
25°	1765.3	1767.4	1755.7	1748.5	1733.5	1709.6	1685.0	1651.5	1625.3	1595.7	1546.4
26°	1839.1	1824.2	1814.8	1804.2	1787.9	1760.5	1736.7	1706.6	1674.9	1641.9	1593.6
27°	1884.7	1871.3	1857.2	1846.8	1828.2	1802.0	1776.7	1743.4	1708.0	1674.6	1625.1
28°	1920.7	1906.0	1892.1	1879.6	1858.3	1830.3	1799.9	1766.1	1729.3	1694.9	1644.3
29°	1942.0	1924.7	1909.7	1895.6	1876.1	1845.8	1815.1	1778.9	1743.4	1707.4	1655.7
30°	1936.1	1921.2	1906.8	1892.4	1872.7	1844.2	1813.8	1779.1	1743.4	1708.0	1655.5
31°	1913.2	1894.8	1884.4	1870.0	1853.0	1823.9	1797.8	1759.9	1727.7	1689.3	1636.8
32°	1869.2	1857.5	1843.6	1832.4	1815.9	1785.0	1759.4	1728.5	1690.4	1658.9	1603.7
33°	1809.5	1798.6	1791.7	1778.6	1762.6	1741.3	1710.6	1682.4	1639.5	1607.2	1552.0
34°	1752.5	1738.6	1721.3	1717.6	1703.7	1676.2	1648.5	1619.7	1581.4	1540.3	1484.6
35°	1672.5	1658.1	1642.1	1643.5	1626.9	1594.9	1566.7	1534.4	1497.9	1449.7	1396.9
36°	1565.6	1556.0	1553.6	1547.2	1528.3	1490.2	1463.3	1422.8	1392.1	1333.2	1287.9
37°	1435.3	1438.8	1421.4	1413.2	1391.0	1364.4	1349.2	1297.2	1261.5	1217.3	1156.0
38°	1303.6	1298.6	1278.0	1283.1	1252.7	1225.0	1182.1	1151.2	1111.2	1070.1	1021.1
39°	1139.2	1126.6	1102.1	1103.2	1080.3	1049.1	1007.5	971.0	947.0	907.6	860.6
40°	937.7	932.3	923.8	909.7	879.6	866.0	828.9	789.5	769.2	714.6	691.7
42.5°	520.3	513.1	498.7	493.6	477.6	461.6	440.0	413.7	400.9	384.6	348.4
45°	212.7	226.8	223.4	219.4	207.1	207.9	192.4	194.3	180.2	170.6	163.9
47.5°	46.9	50.9	51.2	49.3	51.2	49.6	48.8	47.4	47.7	48.5	46.6
50°	21.3	21.1	21.6	21.3	21.1	20.8	20.5	19.7	20.3	19.7	19.2
52.5°	8.3	8.5	8.5	8.0	8.3	8.3	8.3	8.0	8.0	8.0	8.0
55°	2.7	2.7	2.7	2.4	2.4	2.7	2.7	2.7	2.7	2.7	2.4
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



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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: P1310813

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**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
2.5°	12.3	11.2	10.4	9.6	8.0	6.7	6.1	6.1
5°	18.9	14.7	10.9	8.8	6.1	4.0	3.2	2.9
7.5°	28.5	19.7	11.5	7.5	4.0	2.1	1.3	1.1
10°	41.3	25.6	12.0	6.1	2.4	0.8	0.0	0.0
12.5°	72.2	30.7	12.0	4.8	1.1	0.0	0.0	0.0
15°	165.5	34.4	11.5	3.5	0.3	0.0	0.0	0.0
17.5°	343.8	43.2	10.1	2.4	0.0	0.0	0.0	0.0
20°	549.1	56.2	8.0	1.3	0.0	0.0	0.0	0.0
21°	633.6	60.8	7.2	1.1	0.0	0.0	0.0	0.0
22°	694.3	65.0	6.4	0.8	0.0	0.0	0.0	0.0
23°	761.2	67.7	5.6	0.5	0.0	0.0	0.0	0.0
24°	810.5	69.3	4.8	0.5	0.0	0.0	0.0	0.0
25°	841.2	69.3	4.3	0.5	0.0	0.0	0.0	0.0
26°	859.3	67.7	3.7	0.3	0.0	0.0	0.0	0.0
27°	863.6	65.0	3.2	0.3	0.0	0.0	0.0	0.0
28°	858.2	61.6	2.7	0.0	0.0	0.0	0.0	0.0
29°	841.5	56.5	2.4	0.0	0.0	0.0	0.0	0.0
30°	823.3	51.2	1.9	0.0	0.0	0.0	0.0	0.0
31°	792.4	44.0	1.6	0.0	0.0	0.0	0.0	0.0
32°	756.7	36.5	1.3	0.0	0.0	0.0	0.0	0.0
33°	709.0	28.8	1.1	0.0	0.0	0.0	0.0	0.0
34°	638.6	22.7	1.1	0.0	0.0	0.0	0.0	0.0
35°	575.4	18.4	0.8	0.0	0.0	0.0	0.0	0.0
36°	492.8	14.7	0.8	0.0	0.0	0.0	0.0	0.0
37°	422.2	12.3	0.8	0.0	0.0	0.0	0.0	0.0
38°	353.4	10.4	0.5	0.0	0.0	0.0	0.0	0.0
39°	286.8	9.1	0.5	0.0	0.0	0.0	0.0	0.0
40°	228.7	8.0	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	123.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	68.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	30.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	10.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.4	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



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**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)