

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: P1306751

Luminaire Tested: P3SQAS09R409027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R409027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

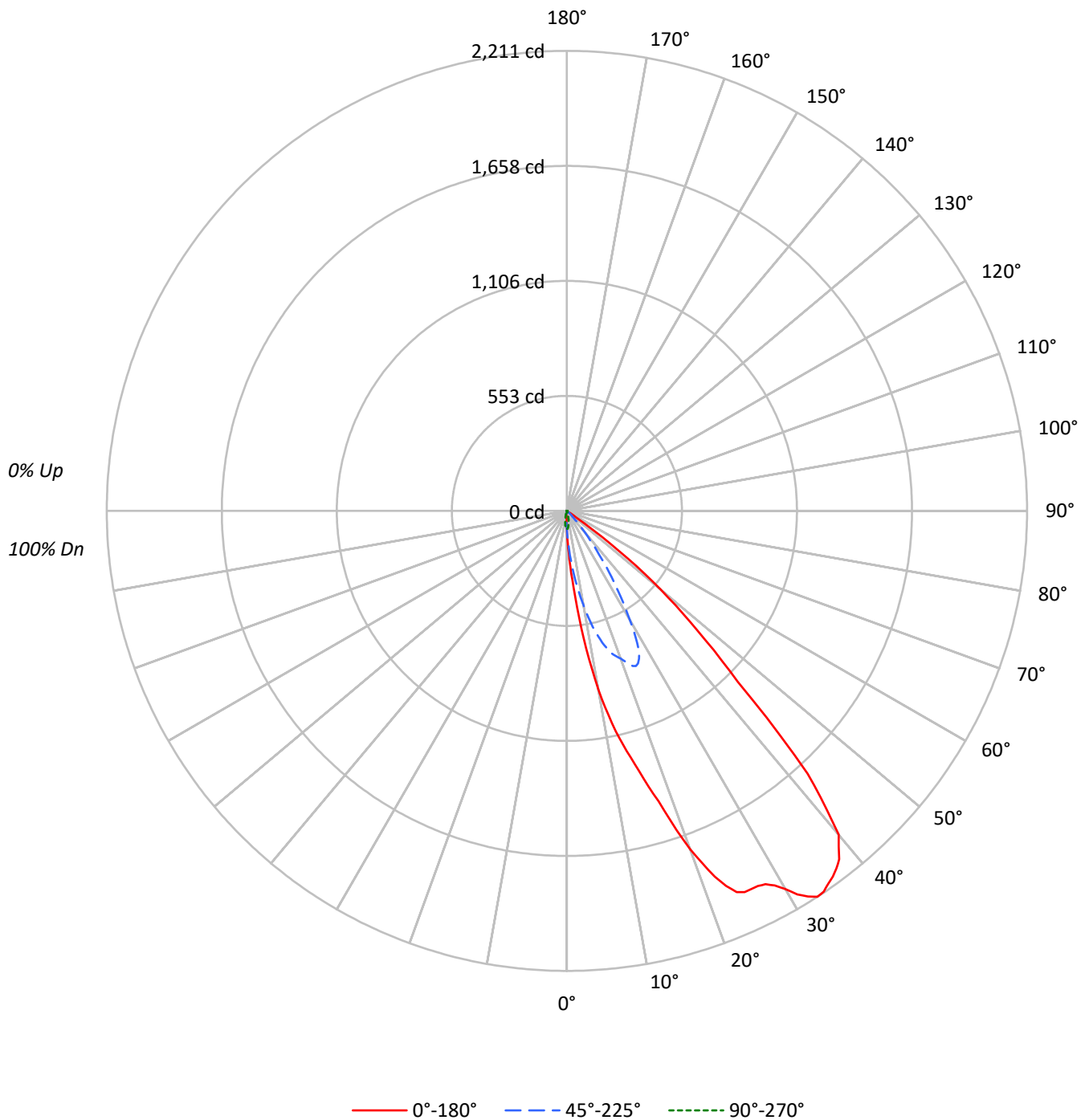
Lumens per Lamp: N/A
Luminaire Lumens: 742.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	76	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	50	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	42	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14949	14949	14949	14949	14949
5°	63447	43237	13122	2368	1176
10°	152477	80427	8132	245	0
15°	224424	116839	3405	0	0
20°	317232	138520	1246	0	0
25°	384234	153751	0	0	0
30°	417200	120274	0	0	0
35°	460037	70390	0	0	0
40°	456588	28575	0	0	0
45°	282773	8330	0	0	0
50°	157463	188	0	0	0
55°	15403	0	0	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	352	705	0	0
75°	0	466	932	0	0
80°	0	694	1389	0	0
85°	0	1383	2766	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 284112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	2.2
10°-20°	95.6	12.9
20°-30°	218.3	29.4
30°-40°	257.8	34.7
40°-50°	137.7	18.6
50°-60°	15.0	2.0
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.5	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°	330.2	44.5
0°-40°	588.0	79.2
0°-60°	740.7	99.8
0°-90°	742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	742.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	367	250	76	14	7	52
15°	1259	655	19	0	0	374
25°	2022	809	0	0	0	918
35°	2188	335	0	0	0	1352
45°	1161	34	0	0	0	957
55°	51	0	0	0	0	144
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
2.5°	202.3	198.2	200.9	195.4	195.4	183.1	183.8	173.6	158.5	121.0	86.1
5°	367.0	383.4	370.4	353.3	343.7	331.4	315.0	297.9	250.1	151.0	75.9
7.5°	614.3	613.0	591.1	572.6	551.5	518.7	487.9	446.2	356.0	172.9	62.9
10°	871.9	867.2	842.6	826.8	786.5	739.4	676.5	609.5	459.9	180.4	46.5
12.5°	1086.5	1080.4	1059.9	1033.2	988.8	929.3	861.7	773.5	569.2	172.2	30.1
15°	1258.7	1257.3	1237.5	1201.3	1154.8	1096.8	1020.2	914.3	655.3	151.0	19.1
17.5°	1463.0	1471.2	1435.7	1396.7	1329.8	1248.5	1154.8	1033.9	718.9	125.1	12.3
20°	1730.9	1719.3	1686.5	1629.8	1565.5	1467.8	1335.2	1162.4	755.8	97.0	6.8
21°	1812.9	1808.1	1774.0	1721.3	1650.3	1551.2	1414.5	1228.0	772.9	86.8	5.5
22°	1896.3	1888.1	1861.4	1810.2	1743.2	1631.1	1480.8	1295.6	794.7	75.9	3.4
23°	1958.5	1955.0	1934.5	1884.0	1815.0	1706.3	1552.5	1358.5	809.8	65.6	2.1
24°	2006.3	2002.2	1981.7	1943.4	1884.0	1770.5	1625.0	1426.1	815.9	56.7	0.7
25°	2022.0	2024.1	2011.8	1981.7	1931.8	1818.4	1679.0	1479.4	809.1	48.5	0.0
26°	2022.7	2028.8	2020.0	2002.9	1961.9	1856.6	1729.5	1510.9	791.3	41.0	0.0
27°	2022.7	2028.8	2020.0	2007.0	1966.7	1878.5	1756.9	1514.3	764.0	34.9	0.0
28°	2032.3	2035.7	2024.1	2008.3	1964.6	1885.3	1764.4	1493.8	720.2	30.1	0.0
29°	2058.9	2055.5	2036.4	2015.2	1962.6	1885.3	1741.8	1454.8	665.6	25.3	0.0
30°	2097.9	2097.9	2067.8	2034.3	1972.1	1884.7	1705.6	1384.4	604.8	20.5	0.0
31°	2150.5	2145.7	2115.6	2065.7	1992.6	1884.7	1652.3	1306.5	548.7	17.8	0.0
32°	2186.0	2183.3	2154.6	2095.8	2026.1	1884.7	1594.9	1220.4	487.9	14.4	0.0
33°	2210.6	2205.1	2172.3	2111.5	2046.6	1875.1	1530.7	1128.2	433.2	11.6	0.0
34°	2207.2	2205.8	2171.7	2108.8	2042.5	1835.5	1456.2	1025.7	382.7	9.6	0.0
35°	2188.1	2188.1	2146.4	2081.5	2013.1	1777.4	1382.4	938.2	334.8	6.8	0.0
36°	2173.7	2168.2	2121.1	2048.7	1963.9	1685.8	1273.1	850.1	283.6	5.5	0.0
37°	2152.5	2142.3	2089.7	2011.8	1894.2	1586.7	1158.3	771.5	239.9	3.4	0.0
38°	2125.2	2109.5	2045.2	1968.7	1817.7	1472.6	1041.4	683.3	199.5	2.1	0.0
39°	2075.3	2062.3	1996.0	1913.4	1726.1	1352.3	928.0	600.7	161.3	0.7	0.0
40°	2030.9	2008.3	1933.2	1838.2	1618.8	1216.3	815.2	519.3	127.1	0.0	0.0
42.5°	1712.5	1688.5	1671.4	1577.1	1289.5	873.3	569.2	332.8	66.3	0.0	0.0
45°	1161.0	1166.5	1113.2	1049.6	850.8	569.2	356.0	185.2	34.2	0.0	0.0
47.5°	846.7	832.3	759.9	639.6	498.8	332.8	185.9	89.5	13.7	0.0	0.0
50°	587.7	560.3	494.7	404.5	271.3	158.5	82.0	41.7	0.7	0.0	0.0
52.5°	319.1	300.0	254.2	184.5	112.8	60.8	32.8	17.1	0.0	0.0	0.0
55°	51.3	35.5	36.9	31.4	24.6	17.8	10.3	2.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
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):

	112.5°	135°	157.5°	180°
0°	86.8	86.8	86.8	86.8
2.5°	58.1	39.6	30.1	26.0
5°	33.5	13.7	7.5	6.8
7.5°	16.4	4.8	2.7	2.7
10°	6.8	1.4	0.0	0.0
12.5°	2.1	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.7	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)