

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: P1305779

Luminaire Tested: P3SQASS09R409024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305779
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: P3SQASS09R409024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

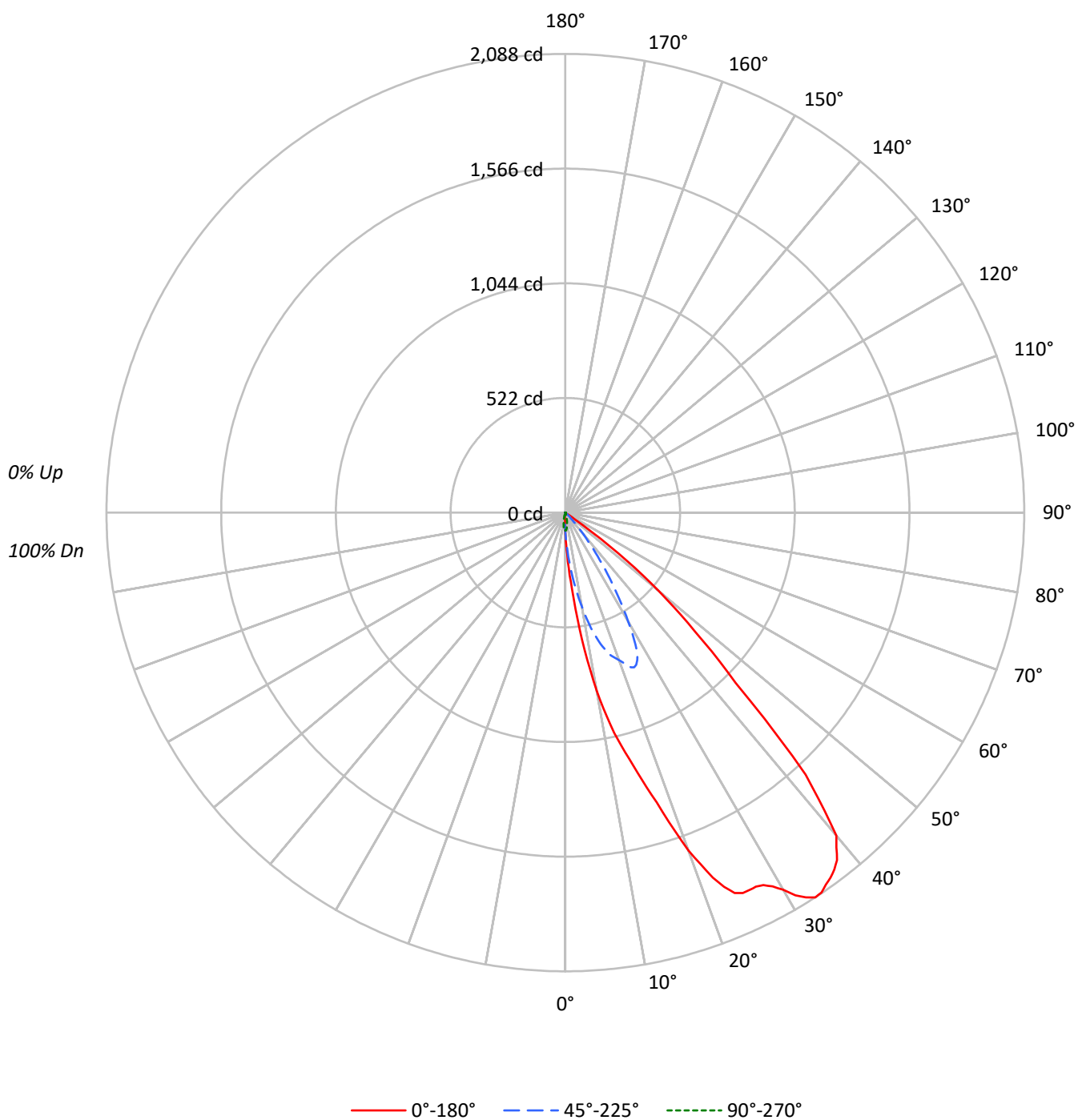
Lumens per Lamp: N/A
Luminaire Lumens: 701.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14122	14122	14122	14122	14122
5°	59938	40852	12396	2230	1124
10°	144066	75985	7677	227	0
15°	212032	110384	3227	0	0
20°	299710	130859	1191	0	0
25°	363008	145256	0	0	0
30°	394132	113612	0	0	0
35°	434619	66501	0	0	0
40°	431363	27001	0	0	0
45°	267136	7867	0	0	0
50°	148755	161	0	0	0
55°	14533	0	0	0	0
60°	0	0	207	0	0
65°	0	0	245	0	0
70°	0	302	655	0	0
75°	0	399	865	0	0
80°	0	595	1289	0	0
85°	0	1186	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 268403 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	2.2
10°-20°	90.4	12.9
20°-30°	206.3	29.4
30°-40°	243.5	34.7
40°-50°	130.1	18.6
50°-60°	14.1	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°	312.0	44.5
0°-40°	555.5	79.2
0°-60°	699.8	99.8
0°-90°	701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	347	236	72	13	6	49
15°	1189	619	18	0	0	353
25°	1910	764	0	0	0	867
35°	2067	316	0	0	0	1277
45°	1097	32	0	0	0	904
55°	48	0	0	0	0	136
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°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
2.5°	191.1	187.2	189.8	184.6	184.6	173.0	173.7	164.0	149.8	114.3	81.3
5°	346.7	362.2	349.9	333.8	324.7	313.1	297.6	281.5	236.3	142.7	71.7
7.5°	580.4	579.1	558.4	541.0	521.0	490.0	460.9	421.6	336.3	163.3	59.4
10°	823.8	819.2	796.0	781.2	743.1	698.5	639.1	575.9	434.5	170.4	43.9
12.5°	1026.5	1020.7	1001.3	976.1	934.2	878.0	814.1	730.8	537.8	162.7	28.4
15°	1189.2	1187.9	1169.1	1134.9	1091.0	1036.2	963.9	863.8	619.1	142.7	18.1
17.5°	1382.2	1389.9	1356.4	1319.6	1256.3	1179.5	1091.0	976.8	679.2	118.1	11.6
20°	1635.3	1624.3	1593.3	1539.7	1479.0	1386.7	1261.5	1098.1	714.0	91.7	6.5
21°	1712.7	1708.2	1675.9	1626.2	1559.1	1465.5	1336.4	1160.1	730.2	82.0	5.2
22°	1791.5	1783.7	1758.6	1710.1	1646.9	1541.0	1399.0	1224.0	750.8	71.7	3.2
23°	1850.2	1847.0	1827.6	1779.9	1714.7	1612.0	1466.8	1283.4	765.0	62.0	1.9
24°	1895.4	1891.6	1872.2	1836.0	1779.9	1672.7	1535.2	1347.3	770.8	53.6	0.6
25°	1910.3	1912.2	1900.6	1872.2	1825.1	1717.9	1586.2	1397.7	764.4	45.8	0.0
26°	1910.9	1916.7	1908.3	1892.2	1853.5	1754.0	1634.0	1427.4	747.6	38.7	0.0
27°	1910.9	1916.7	1908.3	1896.1	1858.0	1774.7	1659.8	1430.6	721.8	32.9	0.0
28°	1920.0	1923.2	1912.2	1897.4	1856.0	1781.2	1666.9	1411.2	680.4	28.4	0.0
29°	1945.1	1941.9	1923.8	1903.8	1854.1	1781.2	1645.6	1374.4	628.8	23.9	0.0
30°	1981.9	1981.9	1953.5	1921.9	1863.1	1780.5	1611.4	1307.9	571.3	19.4	0.0
31°	2031.6	2027.1	1998.7	1951.6	1882.5	1780.5	1561.0	1234.4	518.4	16.8	0.0
32°	2065.2	2062.6	2035.5	1980.0	1914.1	1780.5	1506.8	1153.0	460.9	13.6	0.0
33°	2088.5	2083.3	2052.3	1994.8	1933.5	1771.5	1446.1	1065.9	409.3	11.0	0.0
34°	2085.2	2083.9	2051.7	1992.3	1929.6	1734.0	1375.7	969.0	361.5	9.0	0.0
35°	2067.2	2067.2	2027.8	1966.4	1901.9	1679.2	1306.0	886.4	316.3	6.5	0.0
36°	2053.6	2048.4	2003.9	1935.5	1855.4	1592.6	1202.7	803.1	267.9	5.2	0.0
37°	2033.6	2023.9	1974.2	1900.6	1789.6	1499.0	1094.3	728.9	226.6	3.2	0.0
38°	2007.8	1992.9	1932.2	1859.9	1717.2	1391.2	983.9	645.6	188.5	1.9	0.0
39°	1960.6	1948.4	1885.7	1807.6	1630.7	1277.6	876.7	567.5	152.4	0.6	0.0
40°	1918.7	1897.4	1826.3	1736.6	1529.4	1149.1	770.2	490.6	120.1	0.0	0.0
42.5°	1617.8	1595.2	1579.1	1490.0	1218.2	825.1	537.8	314.4	62.6	0.0	0.0
45°	1096.8	1102.0	1051.7	991.6	803.7	537.8	336.3	175.0	32.3	0.0	0.0
47.5°	799.9	786.3	717.9	604.3	471.3	314.4	175.6	84.6	12.9	0.0	0.0
50°	555.2	529.4	467.4	382.2	256.3	149.8	77.5	39.4	0.6	0.0	0.0
52.5°	301.5	283.4	240.2	174.3	106.5	57.5	31.0	16.1	0.0	0.0	0.0
55°	48.4	33.6	34.9	29.7	23.2	16.8	9.7	1.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3



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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	0.6	0.6	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3
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°	82.0	82.0	82.0	82.0
2.5°	54.9	37.4	28.4	24.5
5°	31.6	12.9	7.1	6.5
7.5°	15.5	4.5	2.6	2.6
10°	6.5	1.3	0.0	0.0
12.5°	1.9	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°	0.6	0.0	0.0	0.0
67.5°	0.6	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.0
72.5°	0.6	0.0	0.0	0.0
75°	0.6	0.0	0.0	0.0
77.5°	0.6	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.6	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)