

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: P1313272

Luminaire Tested: P3SQAS09R409730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313272
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: P3SQAS09R409730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

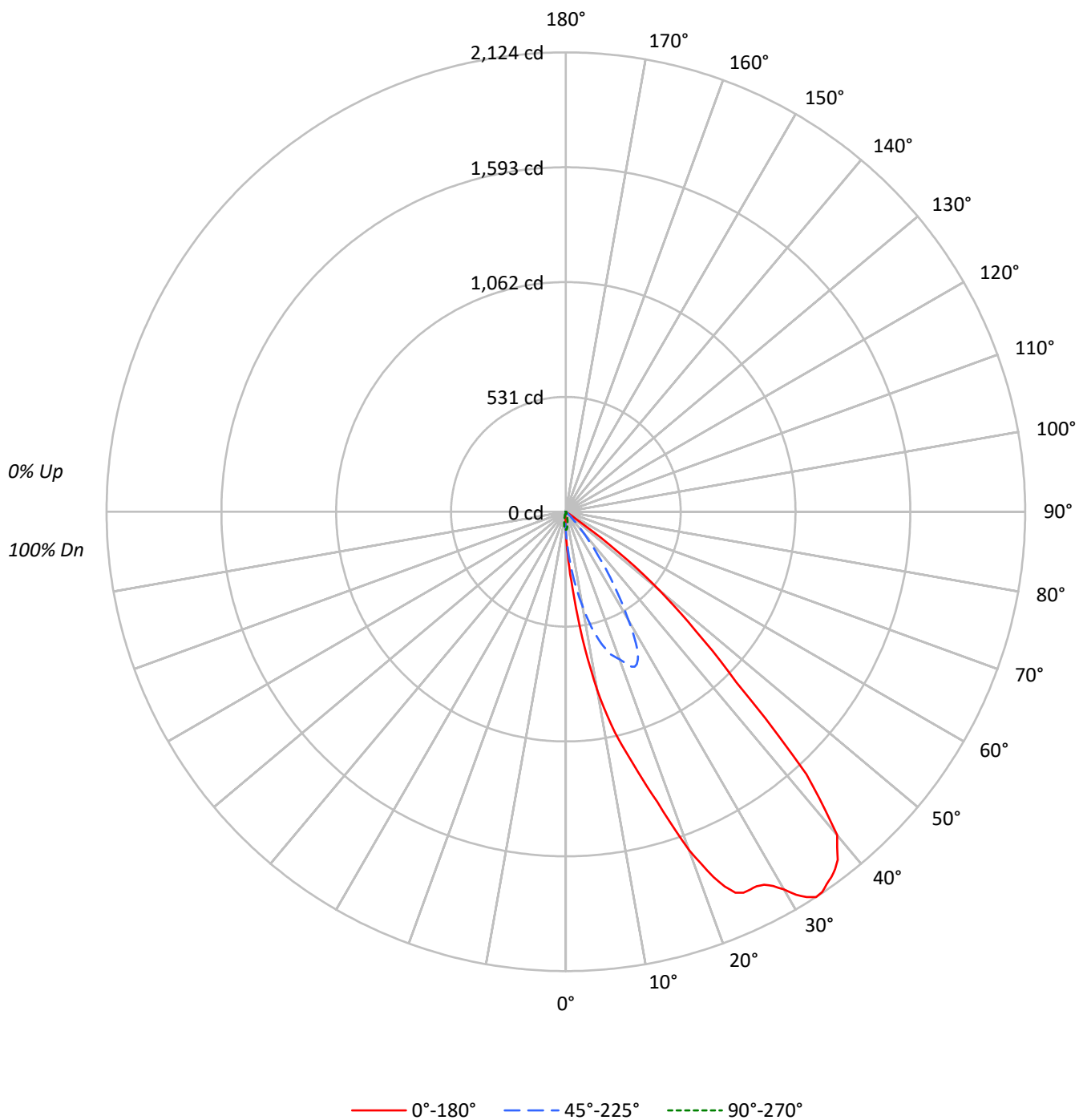
Lumens per Lamp: N/A
Luminaire Lumens: 713.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10		70	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			
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°	14363	14363	14363	14363	14363
5°	60958	41543	12603	2265	1141
10°	146531	77279	7817	227	0
15°	215651	112274	3281	0	0
20°	304842	133095	1210	0	0
25°	369222	147746	0	0	0
30°	400893	115561	0	0	0
35°	442040	67636	0	0	0
40°	438738	27451	0	0	0
45°	271715	7989	0	0	0
50°	151301	188	0	0	0
55°	14773	0	0	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	352	655	0	0
75°	0	466	865	0	0
80°	0	694	1289	0	0
85°	0	1383	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 273006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	2.2
10°-20°	91.9	12.9
20°-30°	209.8	29.4
30°-40°	247.7	34.7
40°-50°	132.3	18.6
50°-60°	14.4	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°	317.3	44.5
0°-40°	565.0	79.2
0°-60°	711.7	99.8
0°-90°	713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	353	240	73	13	7	50
15°	1210	630	18	0	0	359
25°	1943	778	0	0	0	882
35°	2102	322	0	0	0	1299
45°	1116	33	0	0	0	920
55°	49	0	0	0	0	138
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°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2.5°	194.4	190.4	193.0	187.8	187.8	176.0	176.6	166.8	152.3	116.2	82.7
5°	352.6	368.4	355.9	339.5	330.3	318.5	302.7	286.3	240.3	145.1	72.9
7.5°	590.3	589.0	568.0	550.3	529.9	498.4	468.8	428.8	342.1	166.1	60.4
10°	837.9	833.3	809.6	794.5	755.8	710.5	650.1	585.7	441.9	173.4	44.7
12.5°	1044.0	1038.1	1018.4	992.8	950.1	893.0	828.0	743.3	547.0	165.5	28.9
15°	1209.5	1208.2	1189.2	1154.4	1109.7	1053.9	980.4	878.6	629.7	145.1	18.4
17.5°	1405.9	1413.7	1379.6	1342.2	1277.8	1199.7	1109.7	993.5	690.8	120.2	11.8
20°	1663.3	1652.1	1620.6	1566.1	1504.3	1410.4	1283.1	1116.9	726.2	93.2	6.6
21°	1742.0	1737.4	1704.6	1654.1	1585.8	1490.6	1359.2	1180.0	742.7	83.4	5.3
22°	1822.2	1814.3	1788.7	1739.4	1675.1	1567.4	1422.9	1245.0	763.7	72.9	3.3
23°	1881.9	1878.6	1858.9	1810.3	1744.0	1639.6	1491.9	1305.4	778.1	63.0	2.0
24°	1927.9	1923.9	1904.2	1867.5	1810.3	1701.3	1561.5	1370.4	784.0	54.5	0.7
25°	1943.0	1944.9	1933.1	1904.2	1856.3	1747.3	1613.3	1421.6	777.5	46.6	0.0
26°	1943.6	1949.5	1941.0	1924.6	1885.2	1784.1	1661.9	1451.8	760.4	39.4	0.0
27°	1943.6	1949.5	1941.0	1928.5	1889.8	1805.1	1688.2	1455.1	734.1	33.5	0.0
28°	1952.8	1956.1	1944.9	1929.8	1887.8	1811.6	1695.4	1435.4	692.1	28.9	0.0
29°	1978.4	1975.2	1956.8	1936.4	1885.8	1811.6	1673.8	1398.0	639.6	24.3	0.0
30°	2015.9	2015.9	1987.0	1954.8	1895.0	1811.0	1639.0	1330.3	581.1	19.7	0.0
31°	2066.4	2061.8	2032.9	1985.0	1914.7	1811.0	1587.7	1255.5	527.3	17.1	0.0
32°	2100.6	2097.9	2070.4	2013.9	1946.9	1811.0	1532.6	1172.7	468.8	13.8	0.0
33°	2124.2	2119.0	2087.4	2029.0	1966.6	1801.8	1470.9	1084.1	416.3	11.2	0.0
34°	2120.9	2119.6	2086.8	2026.4	1962.7	1763.7	1399.3	985.6	367.7	9.2	0.0
35°	2102.5	2102.5	2062.5	2000.1	1934.4	1707.9	1328.4	901.6	321.7	6.6	0.0
36°	2088.7	2083.5	2038.2	1968.6	1887.2	1619.9	1223.3	816.9	272.5	5.3	0.0
37°	2068.4	2058.5	2008.0	1933.1	1820.2	1524.7	1113.0	741.3	230.5	3.3	0.0
38°	2042.1	2027.0	1965.3	1891.8	1746.6	1415.0	1000.7	656.6	191.7	2.0	0.0
39°	1994.2	1981.7	1918.0	1838.6	1658.7	1299.5	891.7	577.2	155.0	0.7	0.0
40°	1951.5	1929.8	1857.6	1766.3	1555.6	1168.8	783.4	499.0	122.1	0.0	0.0
42.5°	1645.5	1622.5	1606.1	1515.5	1239.1	839.2	547.0	319.8	63.7	0.0	0.0
45°	1115.6	1120.9	1069.7	1008.6	817.5	547.0	342.1	177.9	32.8	0.0	0.0
47.5°	813.6	799.8	730.2	614.6	479.3	319.8	178.6	86.0	13.1	0.0	0.0
50°	564.7	538.4	475.4	388.7	260.7	152.3	78.8	40.1	0.7	0.0	0.0
52.5°	306.6	288.3	244.3	177.3	108.3	58.4	31.5	16.4	0.0	0.0	0.0
55°	49.2	34.1	35.5	30.2	23.6	17.1	9.8	2.0	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	1.3	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	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	0.7	0.7	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	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°	83.4	83.4	83.4	83.4
2.5°	55.8	38.1	28.9	25.0
5°	32.2	13.1	7.2	6.6
7.5°	15.8	4.6	2.6	2.6
10°	6.6	1.3	0.0	0.0
12.5°	2.0	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)