

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: P1309698

Luminaire Tested: P3SQAS02R159040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309698
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: P3SQAS02R159040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

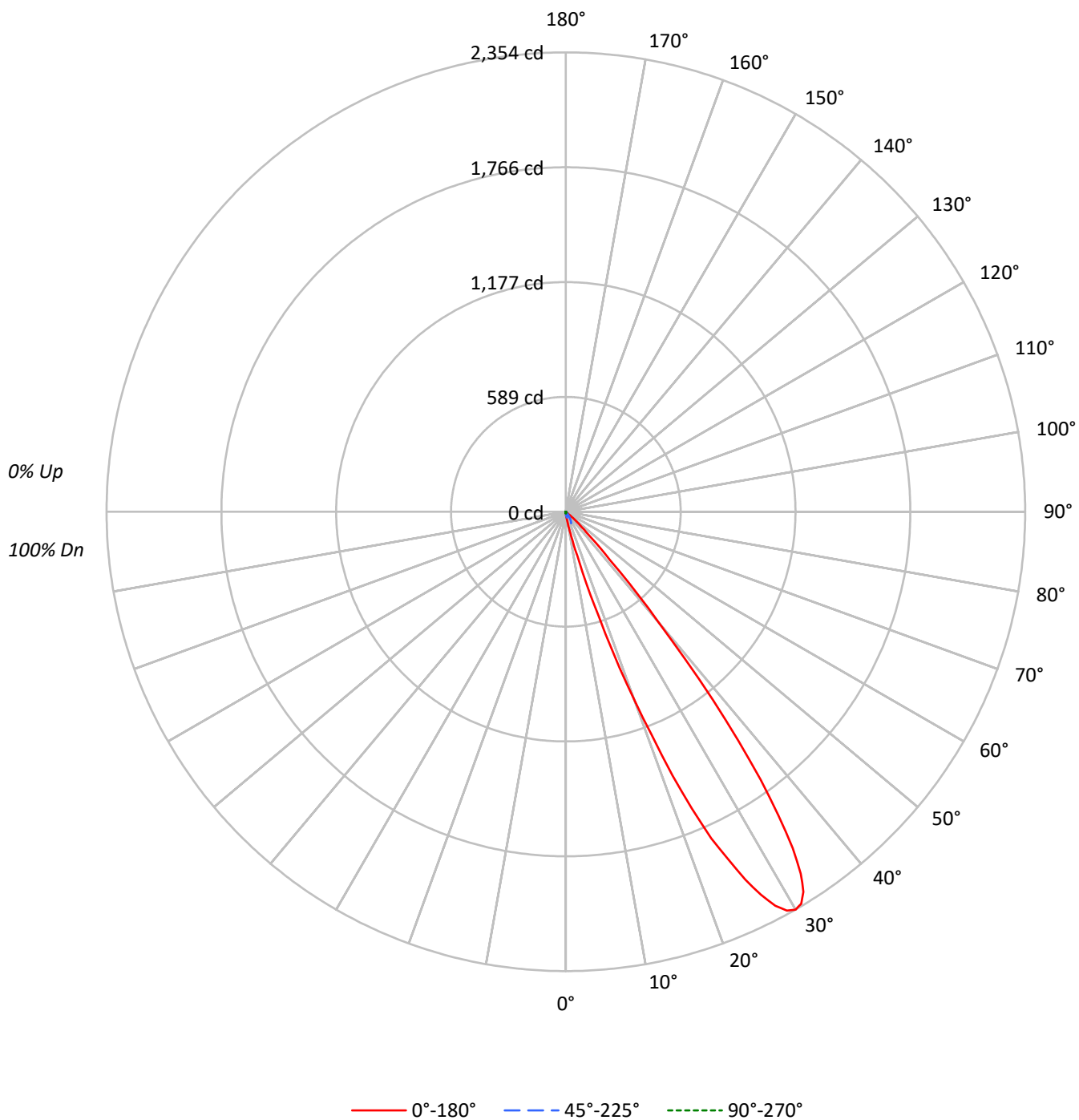
Lumens per Lamp: N/A
Luminaire Lumens: 249.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1533	1533	1533	1533	1533
5°	4443	3354	1314	536	363
10°	11542	4984	874	0	0
15°	46126	8166	464	0	0
20°	188444	12041	147	0	0
25°	372528	11934	0	0	0
30°	468209	9426	0	0	0
35°	399508	5782	0	0	0
40°	164479	1821	0	0	0
45°	35584	755	0	0	0
50°	4555	0	0	0	0
55°	390	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: 2°

Vertical Angle: 45°

Luminance: 37240 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	17.5	7.0
20°-30°	101.7	40.8
30°-40°	109.1	43.8
40°-50°	18.4	7.4
50°-60°	0.6	0.2
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°	120.4	48.3
0°-40°	229.4	92.1
0°-60°	248.4	99.7
0°-90°	249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	249.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	26	19	8	3	2	4
15°	259	46	3	0	0	120
25°	1960	63	0	0	0	887
35°	1900	28	0	0	0	1092
45°	146	3	0	0	0	173
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°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
2.5°	16.2	16.5	16.8	16.8	16.8	16.8	16.5	16.5	16.5	16.5	16.2
5°	25.7	25.7	25.7	25.7	25.7	25.7	25.4	25.4	25.4	25.4	25.4
7.5°	36.7	36.1	36.4	35.6	36.1	35.9	35.6	36.1	36.1	34.8	34.8
10°	66.0	65.7	63.1	63.6	64.2	63.9	63.9	62.3	62.1	61.0	60.0
12.5°	127.3	130.1	132.2	132.2	127.3	129.1	125.7	126.5	127.0	125.4	119.9
15°	258.7	263.4	258.4	263.1	261.3	254.5	246.9	236.7	240.6	233.6	231.2
17.5°	566.6	577.4	572.9	551.2	558.2	541.5	531.0	527.1	516.1	483.4	469.7
20°	1028.2	1041.3	1029.0	1003.6	1011.7	980.1	971.9	964.3	915.6	897.8	840.8
21°	1222.5	1233.3	1238.0	1211.5	1195.3	1170.1	1149.2	1142.4	1112.8	1078.5	1019.9
22°	1457.1	1444.6	1416.3	1419.9	1395.9	1375.2	1346.1	1318.6	1285.6	1237.7	1189.3
23°	1651.4	1636.7	1623.4	1607.2	1581.2	1566.6	1524.9	1494.8	1451.9	1400.6	1354.0
24°	1832.3	1809.8	1801.4	1772.6	1765.3	1732.3	1698.5	1659.3	1607.4	1552.7	1501.1
25°	1960.4	1963.8	1956.4	1953.0	1915.6	1881.8	1848.3	1787.8	1743.6	1695.1	1615.8
26°	2097.6	2099.1	2095.5	2070.3	2036.6	2003.6	1960.4	1907.7	1843.6	1789.9	1718.2
27°	2202.6	2196.3	2191.1	2161.2	2133.4	2091.8	2052.5	1990.2	1927.6	1863.8	1780.5
28°	2286.4	2274.6	2268.0	2242.4	2209.9	2158.8	2110.7	2052.5	1990.0	1921.4	1831.3
29°	2336.9	2324.3	2317.0	2288.7	2251.3	2206.5	2157.8	2093.9	2026.6	1950.2	1859.6
30°	2354.4	2347.1	2335.6	2306.3	2267.5	2220.9	2170.9	2101.5	2031.1	1952.8	1856.9
31°	2342.9	2333.5	2322.5	2290.8	2248.9	2204.4	2146.3	2073.5	1999.4	1924.8	1823.2
32°	2297.1	2291.3	2278.0	2235.6	2201.5	2143.9	2086.6	2018.5	1937.6	1857.5	1765.6
33°	2211.2	2201.8	2190.3	2151.5	2108.0	2052.8	1995.7	1926.1	1845.7	1761.1	1660.0
34°	2080.3	2068.3	2053.8	2027.9	1972.4	1924.5	1858.5	1777.1	1710.6	1629.4	1538.0
35°	1900.2	1882.6	1865.3	1845.7	1783.4	1739.1	1694.6	1623.7	1559.5	1483.0	1379.6
36°	1698.0	1691.2	1677.1	1625.2	1605.1	1544.8	1509.0	1427.5	1375.7	1300.8	1215.4
37°	1469.4	1429.4	1449.8	1420.7	1360.0	1341.1	1298.4	1228.5	1172.5	1093.4	1031.6
38°	1224.3	1198.2	1212.6	1183.2	1151.6	1108.1	1075.6	1024.6	961.7	899.7	841.0
39°	970.4	949.2	964.9	945.0	896.8	878.7	849.9	810.9	760.4	711.9	656.4
40°	731.6	704.3	725.3	697.0	675.0	645.4	630.8	594.9	563.5	534.4	499.1
42.5°	334.1	331.2	326.5	316.3	313.9	314.2	296.1	284.4	268.4	249.8	238.5
45°	146.1	149.8	152.9	147.2	146.9	143.7	142.7	134.8	131.7	125.7	118.4
47.5°	72.0	73.3	72.5	74.1	72.8	70.7	70.2	69.1	66.0	65.7	62.3
50°	17.0	16.8	16.8	17.0	16.8	16.8	16.5	16.0	15.7	16.0	15.2
52.5°	5.5	5.8	5.5	5.2	5.5	5.8	5.5	5.5	5.5	5.5	5.5
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.3	1.3	1.3
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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CATALOG NUMBER: P3SQAS02R159040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
2.5°	16.0	13.6	11.3	8.9	6.5	5.2	5.0	4.7
5°	24.1	19.4	12.8	7.6	4.5	3.1	2.4	2.1
7.5°	32.5	24.1	14.1	6.3	3.1	1.3	0.5	0.3
10°	46.6	28.5	14.7	5.0	1.6	0.0	0.0	0.0
12.5°	91.4	32.7	14.4	3.9	0.3	0.0	0.0	0.0
15°	151.9	45.8	13.4	2.6	0.0	0.0	0.0	0.0
17.5°	248.7	59.2	11.5	1.8	0.0	0.0	0.0	0.0
20°	385.7	65.7	8.9	0.8	0.0	0.0	0.0	0.0
21°	452.2	66.2	7.9	0.5	0.0	0.0	0.0	0.0
22°	509.8	66.2	6.8	0.3	0.0	0.0	0.0	0.0
23°	563.2	65.5	6.0	0.0	0.0	0.0	0.0	0.0
24°	607.2	64.4	5.5	0.0	0.0	0.0	0.0	0.0
25°	640.2	62.8	5.0	0.0	0.0	0.0	0.0	0.0
26°	655.4	60.7	4.2	0.0	0.0	0.0	0.0	0.0
27°	663.0	57.9	3.7	0.0	0.0	0.0	0.0	0.0
28°	657.7	54.7	3.1	0.0	0.0	0.0	0.0	0.0
29°	644.6	51.3	2.4	0.0	0.0	0.0	0.0	0.0
30°	627.6	47.4	1.8	0.0	0.0	0.0	0.0	0.0
31°	602.7	43.5	1.3	0.0	0.0	0.0	0.0	0.0
32°	568.7	39.5	1.0	0.0	0.0	0.0	0.0	0.0
33°	523.2	35.3	0.5	0.0	0.0	0.0	0.0	0.0
34°	466.9	31.2	0.3	0.0	0.0	0.0	0.0	0.0
35°	403.8	27.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	349.6	23.6	0.0	0.0	0.0	0.0	0.0	0.0
37°	295.1	18.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	247.2	14.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	204.5	12.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	169.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	93.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	56.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	33.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
57.5°	0.0	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	0.0	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)