

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: P1308580

Luminaire Tested: P3SQAS02R159035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308580
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: P3SQAS02R159035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

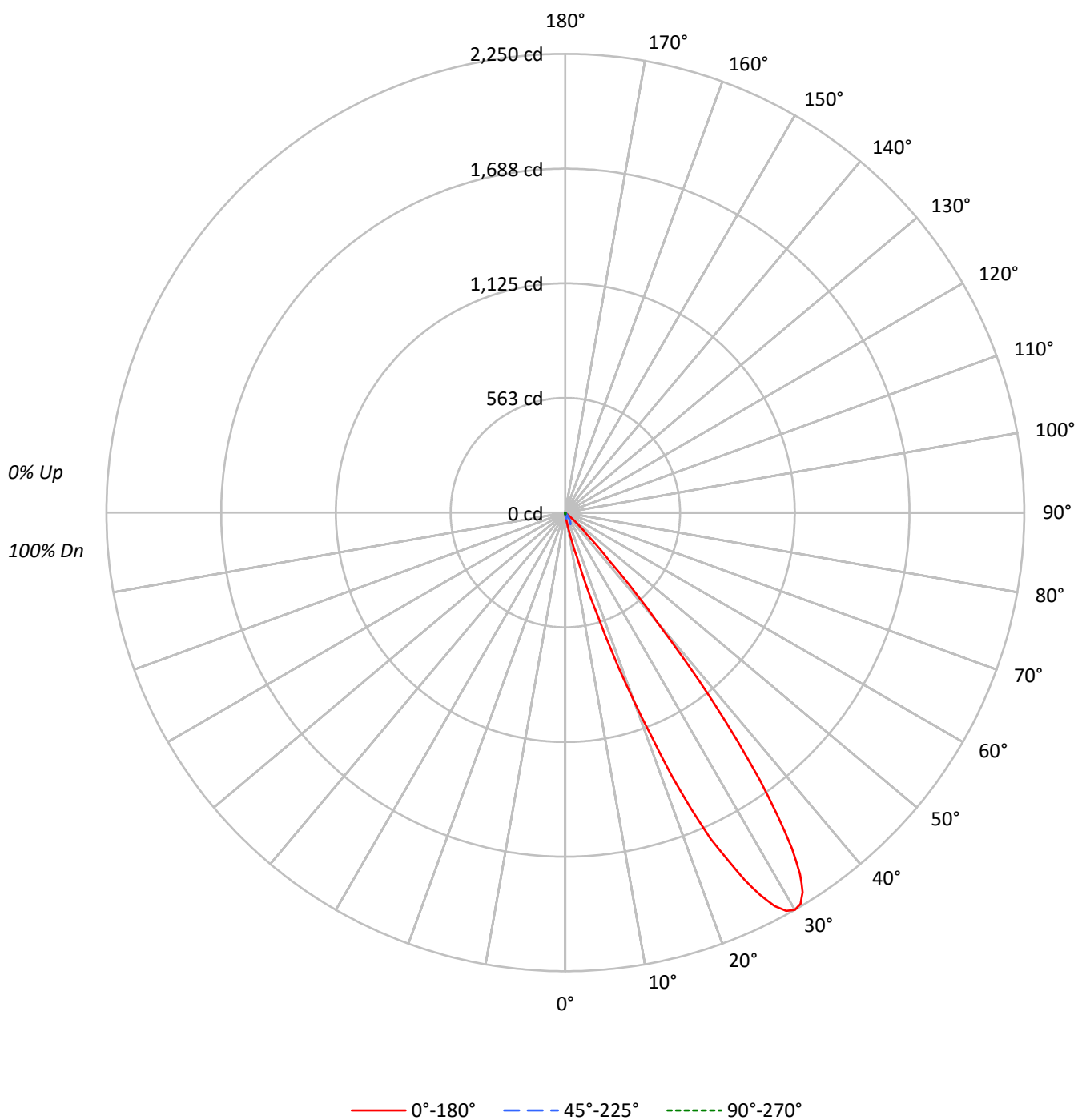
Lumens per Lamp: N/A
Luminaire Lumens: 238.1 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1464	1464	1464	1464	1464
5°	4236	3198	1262	519	346
10°	11035	4774	839	0	0
15°	44093	7809	446	0	0
20°	180123	11510	147	0	0
25°	356072	11421	0	0	0
30°	447527	9009	0	0	0
35°	381847	5529	0	0	0
40°	157217	1754	0	0	0
45°	34025	731	0	0	0
50°	4367	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: 35608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	16.7	7.0
20°-30°	97.2	40.8
30°-40°	104.2	43.8
40°-50°	17.6	7.4
50°-60°	0.5	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°	115.0	48.3
0°-40°	219.3	92.1
0°-60°	237.4	99.7
0°-90°	238.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	238.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	24	18	7	3	2	3
15°	247	44	2	0	0	114
25°	1874	60	0	0	0	848
35°	1816	26	0	0	0	1044
45°	140	3	0	0	0	165
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°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	15.5	15.8	16.0	16.0	16.0	16.0	15.8	15.8	15.8	15.8	15.5
5°	24.5	24.5	24.5	24.5	24.5	24.5	24.3	24.3	24.3	24.3	24.3
7.5°	35.0	34.5	34.8	34.0	34.5	34.3	34.0	34.5	34.5	33.3	33.3
10°	63.1	62.8	60.3	60.8	61.3	61.1	61.1	59.6	59.3	58.3	57.3
12.5°	121.6	124.4	126.4	126.4	121.6	123.4	120.1	120.9	121.4	119.9	114.6
15°	247.3	251.8	247.0	251.5	249.8	243.3	236.0	226.2	230.0	223.2	221.0
17.5°	541.6	551.8	547.6	526.8	533.6	517.6	507.5	503.8	493.3	462.0	449.0
20°	982.8	995.3	983.6	959.3	967.0	936.8	929.0	921.7	875.2	858.2	803.6
21°	1168.5	1178.8	1183.3	1158.0	1142.5	1118.5	1098.4	1091.9	1063.6	1030.9	974.8
22°	1392.8	1380.7	1353.7	1357.2	1334.2	1314.4	1286.6	1260.4	1228.8	1183.0	1136.7
23°	1578.5	1564.4	1551.7	1536.2	1511.4	1497.4	1457.6	1428.8	1387.7	1338.7	1294.1
24°	1751.4	1729.9	1721.9	1694.3	1687.3	1655.8	1623.5	1586.0	1536.4	1484.1	1434.8
25°	1873.8	1877.0	1870.0	1866.8	1831.0	1798.7	1766.7	1708.8	1666.5	1620.2	1544.4
26°	2004.9	2006.4	2002.9	1978.9	1946.6	1915.1	1873.8	1823.5	1762.2	1710.8	1642.3
27°	2105.3	2099.3	2094.3	2065.7	2039.2	1999.4	1961.9	1902.3	1842.5	1781.4	1701.8
28°	2185.4	2174.1	2167.8	2143.3	2112.3	2063.5	2017.4	1961.9	1902.1	1836.5	1750.4
29°	2233.7	2221.6	2214.6	2187.6	2151.8	2109.0	2062.5	2001.4	1937.1	1864.0	1777.4
30°	2250.4	2243.4	2232.4	2204.4	2167.3	2122.8	2075.0	2008.7	1941.3	1866.5	1774.9
31°	2239.4	2230.4	2219.9	2189.6	2149.6	2107.0	2051.5	1981.9	1911.1	1839.7	1742.6
32°	2195.6	2190.1	2177.3	2136.8	2104.3	2049.2	1994.4	1929.3	1852.0	1775.4	1687.6
33°	2113.5	2104.5	2093.5	2056.5	2014.9	1962.1	1907.6	1841.0	1764.2	1683.3	1586.7
34°	1988.4	1976.9	1963.1	1938.3	1885.3	1839.5	1776.4	1698.6	1635.0	1557.4	1470.1
35°	1816.2	1799.4	1782.9	1764.2	1704.6	1662.3	1619.7	1551.9	1490.6	1417.5	1318.7
36°	1623.0	1616.5	1603.0	1553.4	1534.2	1476.6	1442.3	1364.5	1314.9	1243.3	1161.8
37°	1404.5	1366.2	1385.7	1358.0	1299.9	1281.9	1241.1	1174.3	1120.7	1045.1	986.1
38°	1170.3	1145.2	1159.0	1131.0	1100.7	1059.1	1028.1	979.3	919.2	859.9	803.9
39°	927.5	907.2	922.2	903.2	857.2	839.9	812.4	775.1	726.8	680.5	627.4
40°	699.3	673.2	693.2	666.2	645.2	616.9	602.9	568.6	538.6	510.8	477.0
42.5°	319.3	316.6	312.1	302.3	300.1	300.3	283.1	271.8	256.5	238.8	228.0
45°	139.7	143.2	146.2	140.7	140.4	137.4	136.4	128.9	125.9	120.1	113.1
47.5°	68.8	70.1	69.3	70.8	69.6	67.6	67.1	66.1	63.1	62.8	59.6
50°	16.3	16.0	16.0	16.3	16.0	16.0	15.8	15.3	15.0	15.3	14.5
52.5°	5.3	5.5	5.3	5.0	5.3	5.5	5.3	5.3	5.3	5.3	5.3
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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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	15.3	13.0	10.8	8.5	6.3	5.0	4.8	4.5
5°	23.0	18.5	12.3	7.3	4.3	3.0	2.3	2.0
7.5°	31.0	23.0	13.5	6.0	3.0	1.3	0.5	0.3
10°	44.5	27.3	14.0	4.8	1.5	0.0	0.0	0.0
12.5°	87.3	31.3	13.8	3.8	0.3	0.0	0.0	0.0
15°	145.2	43.8	12.8	2.5	0.0	0.0	0.0	0.0
17.5°	237.8	56.6	11.0	1.8	0.0	0.0	0.0	0.0
20°	368.6	62.8	8.5	0.8	0.0	0.0	0.0	0.0
21°	432.2	63.3	7.5	0.5	0.0	0.0	0.0	0.0
22°	487.3	63.3	6.5	0.3	0.0	0.0	0.0	0.0
23°	538.3	62.6	5.8	0.0	0.0	0.0	0.0	0.0
24°	580.4	61.6	5.3	0.0	0.0	0.0	0.0	0.0
25°	611.9	60.1	4.8	0.0	0.0	0.0	0.0	0.0
26°	626.4	58.1	4.0	0.0	0.0	0.0	0.0	0.0
27°	633.7	55.3	3.5	0.0	0.0	0.0	0.0	0.0
28°	628.7	52.3	3.0	0.0	0.0	0.0	0.0	0.0
29°	616.2	49.1	2.3	0.0	0.0	0.0	0.0	0.0
30°	599.9	45.3	1.8	0.0	0.0	0.0	0.0	0.0
31°	576.1	41.5	1.3	0.0	0.0	0.0	0.0	0.0
32°	543.6	37.8	1.0	0.0	0.0	0.0	0.0	0.0
33°	500.0	33.8	0.5	0.0	0.0	0.0	0.0	0.0
34°	446.2	29.8	0.3	0.0	0.0	0.0	0.0	0.0
35°	385.9	26.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	334.1	22.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	282.1	18.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	236.3	14.3	0.0	0.0	0.0	0.0	0.0	0.0
39°	195.5	11.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	161.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	89.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	54.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	31.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.0	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)