

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: P1310797

Luminaire Tested: P3SQAS02R159050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310797
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: P3SQAS02R159050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

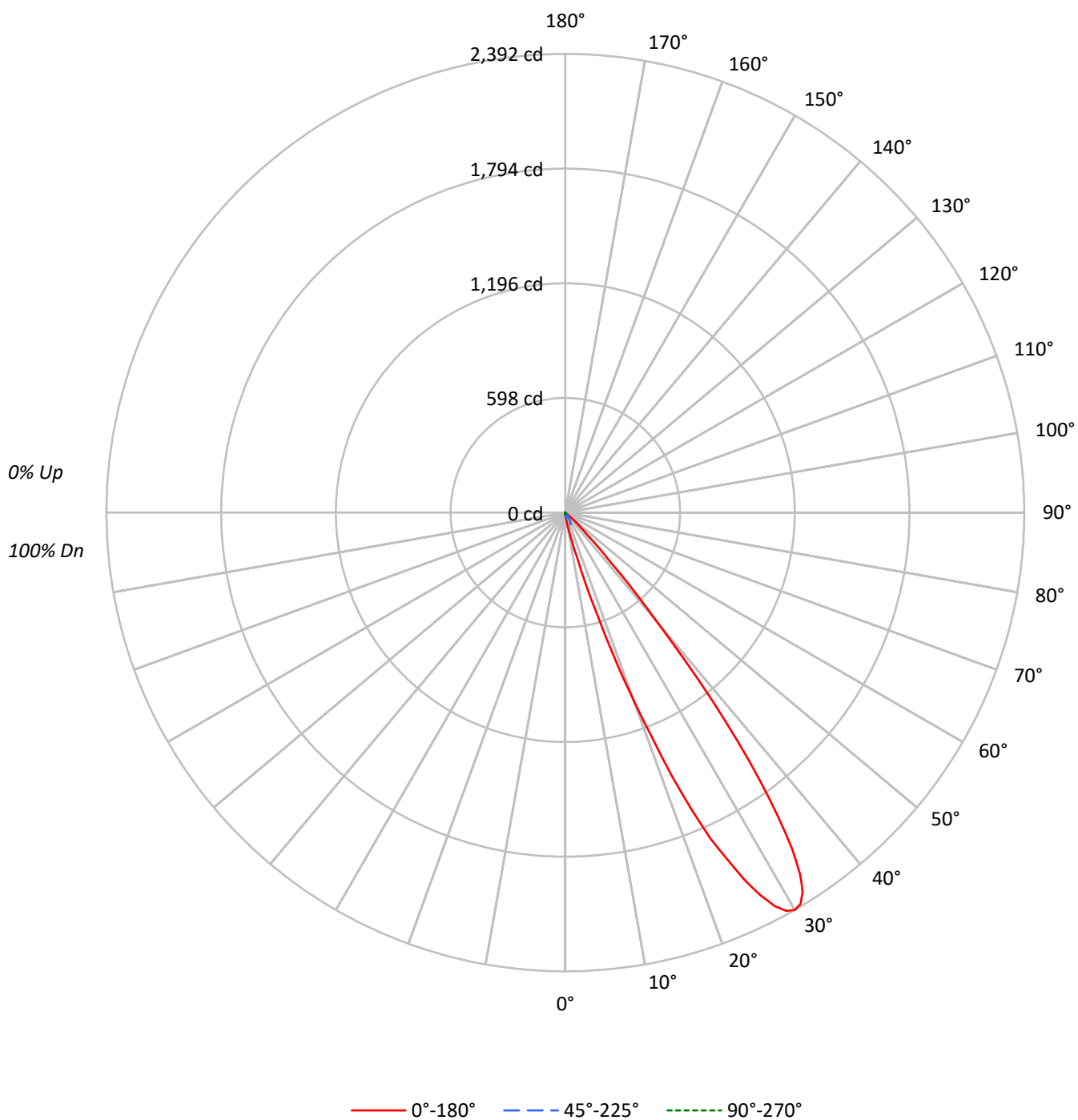
Lumens per Lamp: N/A
Luminaire Lumens: 253.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	1550	1550	1550	1550	1550
5°	4512	3406	1331	553	363
10°	11717	5072	892	0	0
15°	46875	8309	481	0	0
20°	191486	12243	147	0	0
25°	378514	12143	0	0	0
30°	475746	9585	0	0	0
35°	405920	5866	0	0	0
40°	167109	1844	0	0	0
45°	36169	779	0	0	0
50°	4635	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: 37849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	17.7	7.0
20°-30°	103.3	40.8
30°-40°	110.8	43.8
40°-50°	18.7	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°	122.3	48.3
0°-40°	233.1	92.1
0°-60°	252.4	99.7
0°-90°	253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	26	20	8	3	2	4
15°	263	47	3	0	0	122
25°	1992	64	0	0	0	901
35°	1931	28	0	0	0	1110
45°	148	3	0	0	0	175
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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	16.5	16.8	17.0	17.0	17.0	17.0	16.8	16.8	16.8	16.8	16.5
5°	26.1	26.1	26.1	26.1	26.1	26.1	25.8	25.8	25.8	25.8	25.8
7.5°	37.2	36.7	37.0	36.2	36.7	36.4	36.2	36.7	36.7	35.4	35.4
10°	67.0	66.8	64.1	64.6	65.2	64.9	64.9	63.3	63.1	62.0	60.9
12.5°	129.3	132.2	134.4	134.4	129.3	131.2	127.7	128.5	129.0	127.4	121.8
15°	262.9	267.6	262.6	267.4	265.5	258.6	250.9	240.5	244.5	237.3	234.9
17.5°	575.7	586.6	582.1	560.0	567.2	550.2	539.5	535.5	524.4	491.1	477.3
20°	1044.8	1058.1	1045.5	1019.7	1028.0	995.8	987.6	979.8	930.4	912.3	854.3
21°	1242.2	1253.1	1257.9	1231.0	1214.5	1188.9	1167.7	1160.7	1130.7	1095.8	1036.2
22°	1480.5	1467.8	1439.0	1442.8	1418.3	1397.3	1367.7	1339.8	1306.3	1257.6	1208.4
23°	1677.9	1663.0	1649.5	1633.0	1606.6	1591.7	1549.4	1518.8	1475.2	1423.1	1375.7
24°	1861.8	1838.9	1830.4	1801.1	1793.7	1760.1	1725.8	1685.9	1633.2	1577.6	1525.2
25°	1991.9	1995.3	1987.9	1984.4	1946.4	1912.1	1878.0	1816.5	1771.6	1722.4	1641.8
26°	2131.3	2132.9	2129.1	2103.6	2069.3	2035.8	1991.9	1938.4	1873.2	1818.7	1745.8
27°	2238.0	2231.6	2226.2	2195.9	2167.7	2125.4	2085.5	2022.2	1958.6	1893.7	1809.1
28°	2323.1	2311.1	2304.5	2278.4	2245.4	2193.5	2144.6	2085.5	2021.9	1952.2	1860.7
29°	2374.4	2361.7	2354.2	2325.5	2287.4	2241.9	2192.5	2127.5	2059.2	1981.5	1889.4
30°	2392.3	2384.8	2373.1	2343.3	2303.9	2256.6	2205.8	2135.3	2063.7	1984.2	1886.8
31°	2380.6	2371.0	2359.8	2327.6	2285.0	2239.8	2180.8	2106.8	2031.5	1955.7	1852.5
32°	2334.0	2328.1	2314.6	2271.5	2236.9	2178.4	2120.1	2050.9	1968.7	1887.3	1793.9
33°	2246.7	2237.2	2225.5	2186.1	2141.9	2085.8	2027.8	1957.0	1875.3	1789.4	1686.7
34°	2113.7	2101.5	2086.8	2060.5	2004.1	1955.4	1888.4	1805.6	1738.1	1655.6	1562.7
35°	1930.7	1912.9	1895.3	1875.3	1812.0	1767.1	1721.8	1649.7	1584.6	1506.9	1401.8
36°	1725.3	1718.4	1704.0	1651.3	1630.8	1569.7	1533.2	1450.5	1397.8	1321.7	1235.0
37°	1493.0	1452.3	1473.1	1443.6	1381.8	1362.7	1319.3	1248.3	1191.3	1111.0	1048.2
38°	1244.0	1217.4	1232.0	1202.2	1170.1	1125.9	1092.9	1041.0	977.2	914.1	854.5
39°	986.0	964.4	980.4	960.1	911.2	892.8	863.6	823.9	772.6	723.4	667.0
40°	743.3	715.7	736.9	708.2	685.9	655.8	640.9	604.5	572.5	543.0	507.1
42.5°	339.5	336.5	331.8	321.4	319.0	319.3	300.9	288.9	272.7	253.8	242.4
45°	148.5	152.2	155.4	149.5	149.3	146.1	145.0	137.0	133.8	127.7	120.3
47.5°	73.2	74.5	73.7	75.3	74.0	71.8	71.3	70.2	67.0	66.8	63.3
50°	17.3	17.0	17.0	17.3	17.0	17.0	16.8	16.2	16.0	16.2	15.4
52.5°	5.6	5.9	5.6	5.3	5.6	5.9	5.6	5.6	5.6	5.6	5.6
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	16.2	13.8	11.4	9.0	6.7	5.3	5.1	4.8
5°	24.5	19.7	13.0	7.7	4.5	3.2	2.4	2.1
7.5°	33.0	24.5	14.4	6.4	3.2	1.3	0.5	0.3
10°	47.4	29.0	14.9	5.1	1.6	0.0	0.0	0.0
12.5°	92.8	33.3	14.6	4.0	0.3	0.0	0.0	0.0
15°	154.3	46.6	13.6	2.7	0.0	0.0	0.0	0.0
17.5°	252.7	60.1	11.7	1.9	0.0	0.0	0.0	0.0
20°	391.9	66.8	9.0	0.8	0.0	0.0	0.0	0.0
21°	459.5	67.3	8.0	0.5	0.0	0.0	0.0	0.0
22°	518.0	67.3	6.9	0.3	0.0	0.0	0.0	0.0
23°	572.3	66.5	6.1	0.0	0.0	0.0	0.0	0.0
24°	617.0	65.4	5.6	0.0	0.0	0.0	0.0	0.0
25°	650.5	63.9	5.1	0.0	0.0	0.0	0.0	0.0
26°	665.9	61.7	4.3	0.0	0.0	0.0	0.0	0.0
27°	673.6	58.8	3.7	0.0	0.0	0.0	0.0	0.0
28°	668.3	55.6	3.2	0.0	0.0	0.0	0.0	0.0
29°	655.0	52.1	2.4	0.0	0.0	0.0	0.0	0.0
30°	637.7	48.2	1.9	0.0	0.0	0.0	0.0	0.0
31°	612.4	44.2	1.3	0.0	0.0	0.0	0.0	0.0
32°	577.8	40.2	1.1	0.0	0.0	0.0	0.0	0.0
33°	531.6	35.9	0.5	0.0	0.0	0.0	0.0	0.0
34°	474.4	31.7	0.3	0.0	0.0	0.0	0.0	0.0
35°	410.2	27.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	355.2	23.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	299.8	19.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	251.1	15.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	207.8	12.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	172.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	95.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	57.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	33.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.1	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)