

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: P1312092

Luminaire Tested: P3SQAS05R259727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R259727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

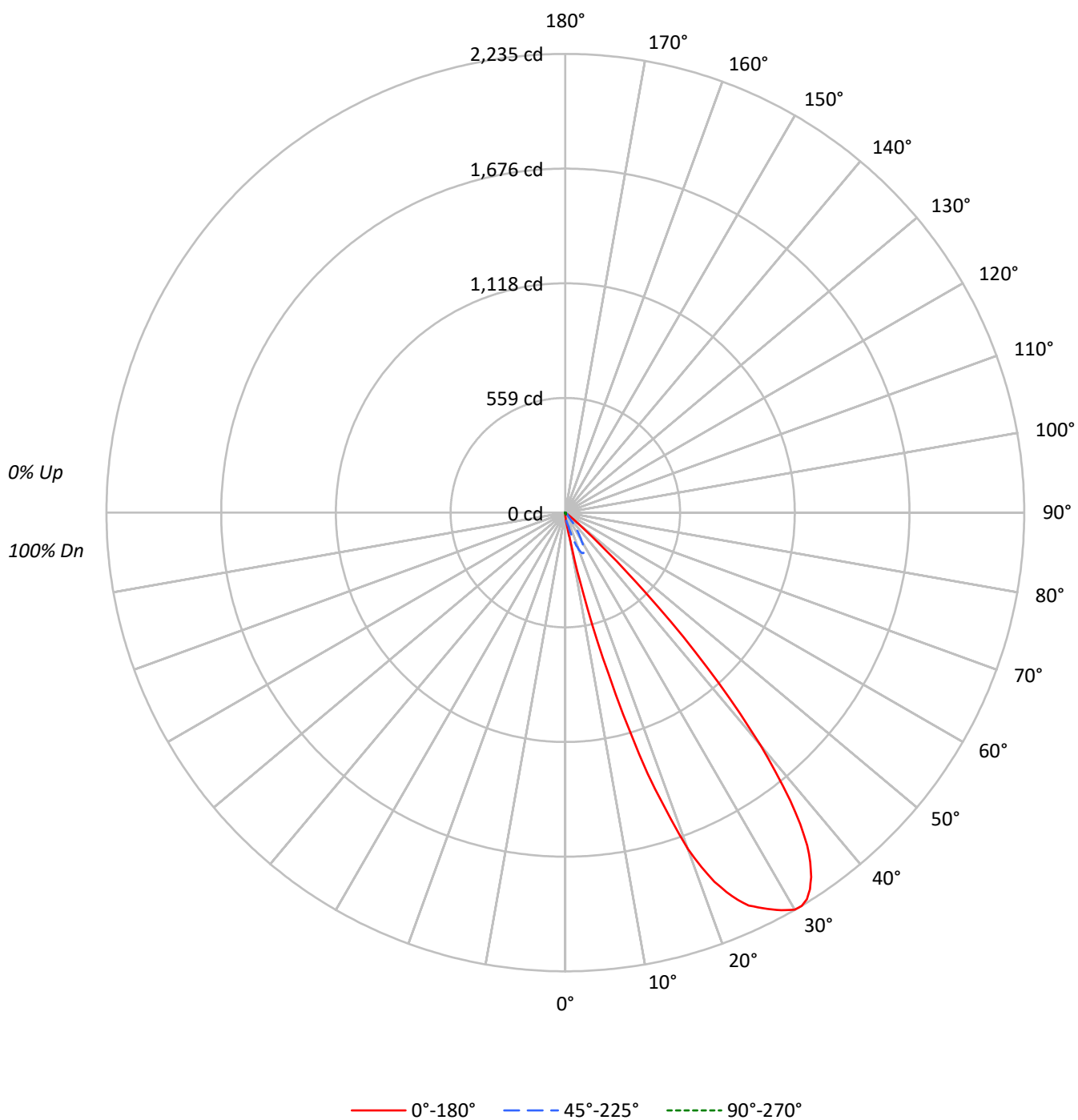
Lumens per Lamp: N/A
Luminaire Lumens: 438.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51
8	70	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2377	2377	2377	2377	2377
5°	7468	5221	2178	1158	864
10°	23556	9461	1609	140	0
15°	145634	18026	981	0	0
20°	319321	35134	312	0	0
25°	401393	40419	0	0	0
30°	444325	31282	0	0	0
35°	437394	17724	0	0	0
40°	332465	4631	0	0	0
45°	134664	2046	0	0	0
50°	14951	214	0	0	0
55°	1141	0	120	0	0
60°	0	0	138	0	0
65°	0	0	326	0	0
70°	0	201	403	0	0
75°	0	266	865	0	0
80°	0	397	1289	0	0
85°	0	790	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 134664 cd/sqm

TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	45.2	10.3
20°-30°	158.1	36.1
30°-40°	176.4	40.3
40°-50°	53.3	12.2
50°-60°	1.8	0.4
60°-70°	0.2	0.1
70°-80°	0.4	0.1
80°-90°	0.3	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°	205.6	46.9
0°-40°	382.0	87.2
0°-60°	437.0	99.8
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	43	30	13	7	5	7
15°	817	101	6	0	0	272
25°	2112	213	0	0	0	964
35°	2080	84	0	0	0	1249
45°	553	8	0	0	0	478
55°	4	0	0	0	0	12
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	23.9	24.8	24.3	24.8	24.3	24.3	24.3	24.8	24.3	24.3	24.3
5°	43.2	43.6	43.6	43.2	43.2	44.0	43.2	43.6	42.4	43.2	42.8
7.5°	70.9	70.1	70.1	70.5	70.5	69.6	69.2	68.4	69.2	69.2	68.0
10°	134.7	133.8	131.7	130.9	131.7	131.7	127.5	128.4	128.8	125.0	123.8
12.5°	395.6	392.7	398.5	389.3	383.9	375.0	380.1	362.9	359.1	356.6	350.7
15°	816.8	839.0	829.4	830.2	831.9	810.9	818.1	792.0	770.2	763.5	758.9
17.5°	1332.0	1338.7	1329.9	1325.7	1324.0	1313.9	1301.8	1288.8	1272.0	1257.3	1245.1
20°	1742.3	1737.2	1722.1	1723.8	1705.8	1696.5	1686.0	1673.0	1660.0	1638.6	1618.1
21°	1850.5	1835.8	1836.2	1826.2	1825.7	1814.0	1795.5	1782.1	1770.4	1746.0	1733.0
22°	1939.4	1936.1	1928.5	1921.0	1913.0	1907.1	1886.6	1879.9	1855.9	1835.8	1817.3
23°	2008.6	2009.9	2003.2	1998.2	1987.3	1984.7	1958.3	1949.1	1932.7	1902.1	1883.2
24°	2066.1	2064.0	2056.5	2047.7	2041.4	2035.5	2015.4	2000.3	1982.2	1957.0	1938.6
25°	2112.3	2107.2	2102.2	2095.5	2085.4	2078.7	2058.2	2041.4	2025.8	1997.7	1972.6
26°	2139.5	2140.8	2132.8	2127.8	2119.0	2112.3	2090.9	2071.2	2051.9	2021.7	1999.0
27°	2167.2	2166.0	2158.8	2151.3	2142.1	2139.5	2114.8	2094.2	2074.5	2042.6	2015.8
28°	2192.8	2189.5	2183.6	2174.8	2164.7	2157.2	2133.2	2111.8	2090.5	2056.5	2027.1
29°	2214.2	2210.9	2207.1	2195.8	2182.7	2177.7	2152.1	2126.1	2104.7	2069.9	2038.9
30°	2234.3	2228.1	2219.2	2209.6	2197.0	2187.4	2160.5	2137.9	2112.7	2074.1	2044.3
31°	2235.2	2226.8	2220.5	2210.4	2196.2	2184.4	2156.3	2133.2	2103.9	2067.8	2035.5
32°	2220.5	2216.3	2206.2	2195.3	2181.5	2169.7	2138.7	2114.4	2086.7	2048.1	2015.8
33°	2187.4	2183.2	2177.3	2166.0	2147.9	2137.0	2109.3	2082.5	2055.2	2020.4	1983.5
34°	2141.6	2136.6	2129.0	2117.7	2099.3	2087.9	2065.7	2038.0	2009.1	1973.0	1938.6
35°	2080.4	2070.7	2068.6	2051.9	2034.7	2031.7	2005.3	1976.3	1947.0	1907.1	1877.3
36°	2004.5	1993.1	1985.6	1979.7	1968.4	1954.5	1928.5	1905.4	1867.7	1842.1	1800.1
37°	1900.8	1887.0	1894.1	1878.2	1860.6	1854.7	1821.5	1800.6	1768.7	1733.9	1698.2
38°	1780.0	1778.8	1777.1	1769.9	1739.7	1724.2	1710.4	1688.1	1660.4	1618.5	1570.3
39°	1627.3	1629.8	1621.0	1621.9	1606.8	1591.2	1571.9	1546.8	1513.2	1475.0	1436.0
40°	1478.8	1443.1	1449.4	1428.0	1429.3	1406.2	1381.1	1358.8	1337.4	1303.9	1250.6
42.5°	1023.2	1017.7	998.9	985.4	991.3	961.5	928.4	897.3	867.6	829.8	783.2
45°	552.9	540.3	544.1	522.3	522.3	508.9	499.6	473.6	445.9	428.7	401.9
47.5°	205.6	208.1	212.7	203.9	193.8	199.7	190.9	190.9	186.3	180.8	173.3
50°	55.8	56.6	55.8	55.8	54.5	53.7	52.0	51.6	51.2	49.9	47.8
52.5°	22.7	21.4	21.4	21.8	21.8	21.0	21.4	21.4	21.0	20.6	20.6
55°	3.8	4.2	4.2	4.2	4.2	3.8	3.8	4.2	4.6	4.2	4.2
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



TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

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

TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	23.5	20.6	17.2	14.3	11.3	9.6	8.8	9.2
5°	39.9	30.2	19.7	12.6	8.8	6.7	5.5	5.0
7.5°	61.2	41.5	22.2	10.9	6.7	3.4	2.1	1.7
10°	94.0	54.1	23.9	9.2	4.2	0.8	0.0	0.0
12.5°	241.2	66.3	24.3	7.6	1.7	0.0	0.0	0.0
15°	495.9	101.1	23.5	5.5	0.4	0.0	0.0	0.0
17.5°	824.4	154.8	20.6	3.8	0.0	0.0	0.0	0.0
20°	1143.6	191.7	16.4	1.7	0.0	0.0	0.0	0.0
21°	1239.7	202.6	14.7	1.3	0.0	0.0	0.0	0.0
22°	1318.1	210.6	13.0	0.8	0.0	0.0	0.0	0.0
23°	1383.6	214.8	11.3	0.4	0.0	0.0	0.0	0.0
24°	1429.3	215.6	10.5	0.4	0.0	0.0	0.0	0.0
25°	1451.1	212.7	9.2	0.0	0.0	0.0	0.0	0.0
26°	1459.5	206.8	8.4	0.0	0.0	0.0	0.0	0.0
27°	1453.2	199.3	7.6	0.0	0.0	0.0	0.0	0.0
28°	1441.9	187.9	6.3	0.0	0.0	0.0	0.0	0.0
29°	1419.6	172.8	5.5	0.0	0.0	0.0	0.0	0.0
30°	1398.3	157.3	4.6	0.0	0.0	0.0	0.0	0.0
31°	1373.9	143.5	3.8	0.0	0.0	0.0	0.0	0.0
32°	1344.1	127.5	2.9	0.0	0.0	0.0	0.0	0.0
33°	1294.6	112.9	2.1	0.0	0.0	0.0	0.0	0.0
34°	1225.4	99.0	1.7	0.0	0.0	0.0	0.0	0.0
35°	1132.7	84.3	1.3	0.0	0.0	0.0	0.0	0.0
36°	1031.2	68.8	0.8	0.0	0.0	0.0	0.0	0.0
37°	907.0	49.9	0.8	0.0	0.0	0.0	0.0	0.0
38°	777.4	31.5	0.4	0.0	0.0	0.0	0.0	0.0
39°	644.8	23.9	0.4	0.0	0.0	0.0	0.0	0.0
40°	523.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	280.2	13.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	165.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	92.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	33.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0



TEST NUMBER: P1312092

CATALOG NUMBER: P3SQAS05R259727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.8	1.3	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.3	0.4	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)