

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: P1307102

Luminaire Tested: P3SQAS17R559027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R559027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

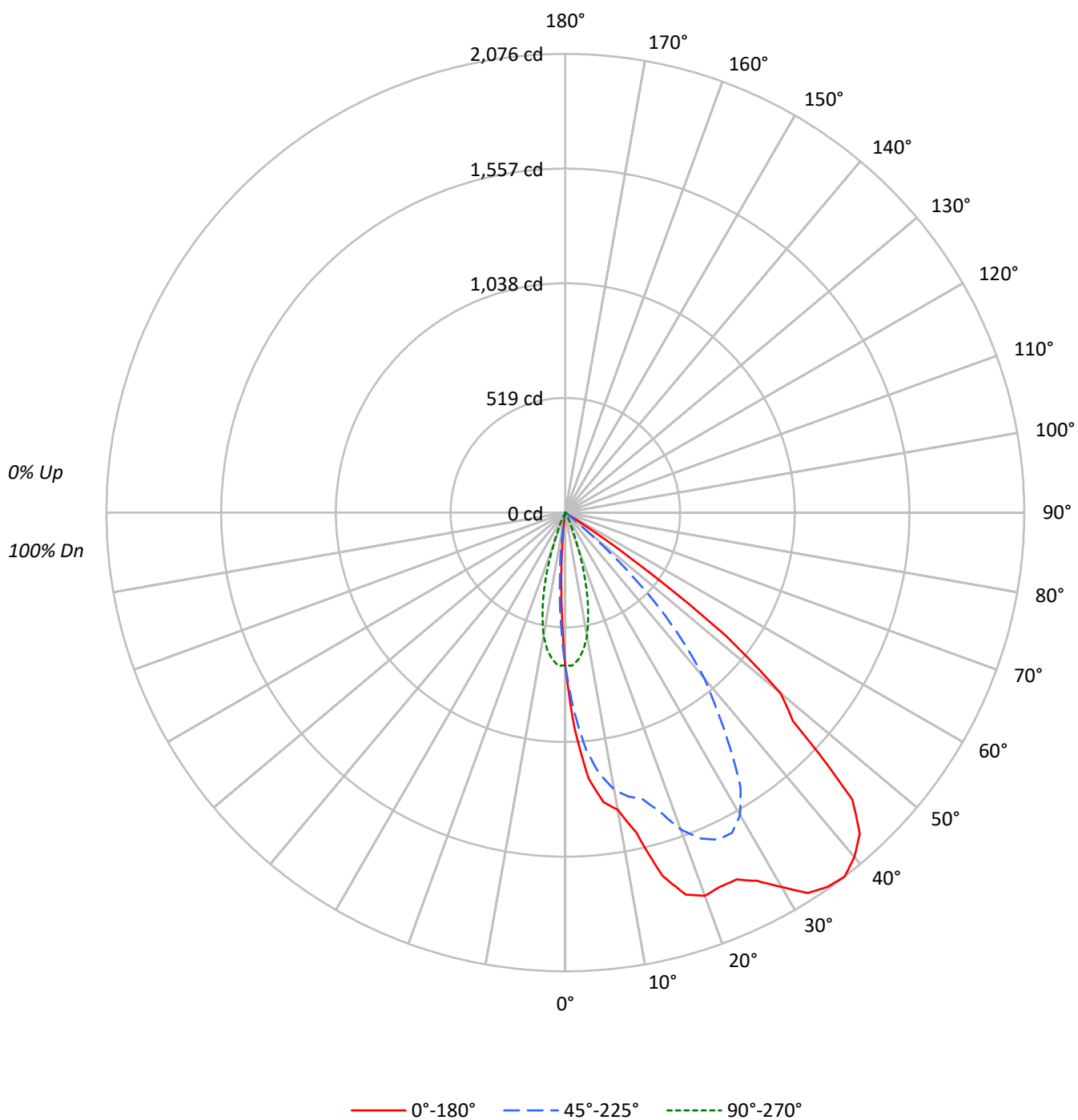
Lumens per Lamp: N/A
Luminaire Lumens: 1279.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1307102

CATALOG NUMBER: P3SQAS17R559027DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307102

CATALOG NUMBER: P3SQAS17R559027DE010 E3SQCA301MB

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82		
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	119023	119023	119023	119023	119023
5°	208615	185968	115536	47992	27644
10°	238780	222604	98789	5246	1889
15°	303445	238955	67718	1070	642
20°	338143	279550	29746	0	0
25°	348091	310162	8456	0	0
30°	388902	314327	1193	0	0
35°	434640	272919	0	0	0
40°	457218	219695	0	0	0
45°	447029	138756	0	0	0
50°	340406	28347	0	0	0
55°	111517	0	0	0	0
60°	0	0	0	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2380	1190	0
85°	0	2371	2371	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 447029 cd/sqm

TEST NUMBER: P1307102

CATALOG NUMBER: P3SQAS17R559027DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	4.9
10°-20°	185.1	14.5
20°-30°	301.0	23.5
30°-40°	357.7	28.0
40°-50°	292.5	22.9
50°-60°	77.5	6.1
60°-70°	0.5	0.0
70°-80°	0.8	0.1
80°-90°	0.9	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°	549.2	42.9
0°-40°	906.8	70.9
0°-60°	1276.8	99.8
0°-90°	1279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	691	691	691	691	691	
5°	1207	1076	668	278	160	118
15°	1702	1340	380	6	4	476
25°	1832	1632	44	0	0	863
35°	2067	1298	0	0	0	1285
45°	1835	570	0	0	0	1317
55°	371	0	0	0	0	418
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307102

CATALOG NUMBER: P3SQAS17R559027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
2.5°	980.8	973.6	974.8	971.2	974.8	959.1	942.3	926.7	914.7	897.8	795.7
5°	1206.7	1194.7	1191.1	1186.3	1181.5	1162.3	1146.7	1127.4	1104.6	1075.7	888.2
7.5°	1320.9	1311.3	1306.5	1308.9	1298.1	1290.9	1270.5	1248.8	1224.8	1193.5	957.9
10°	1365.4	1355.8	1354.6	1353.4	1352.2	1347.4	1337.8	1318.5	1296.9	1272.9	997.6
12.5°	1482.0	1460.4	1445.9	1429.1	1408.7	1382.2	1360.6	1343.8	1335.4	1316.1	1015.6
15°	1701.9	1681.5	1665.9	1644.3	1605.8	1549.3	1497.6	1431.5	1373.8	1340.2	1008.4
17.5°	1812.5	1802.9	1789.7	1775.3	1748.8	1708.0	1655.1	1585.4	1512.0	1417.1	973.6
20°	1845.0	1840.2	1830.6	1824.5	1806.5	1777.7	1741.6	1687.5	1619.0	1525.3	919.5
22.5°	1831.8	1835.4	1840.2	1855.8	1858.2	1837.8	1804.1	1752.4	1682.7	1596.2	836.6
25°	1831.8	1829.4	1829.4	1861.8	1882.2	1872.6	1848.6	1801.7	1730.8	1632.2	734.4
27.5°	1878.6	1864.2	1834.2	1867.8	1901.5	1897.9	1876.2	1820.9	1741.6	1633.4	609.4
30°	1955.6	1924.3	1875.0	1906.3	1937.5	1924.3	1889.5	1818.5	1717.6	1580.6	456.7
32.5°	2040.9	2026.5	2001.2	2021.7	2016.9	1964.0	1901.5	1802.9	1668.3	1474.8	307.7
35°	2067.3	2069.7	2052.9	2049.3	2021.7	1967.6	1901.5	1758.4	1564.9	1298.1	182.7
37.5°	2075.8	2077.0	2050.5	2016.9	1976.0	1912.3	1833.0	1667.1	1373.8	1127.4	97.4
40°	2033.7	2032.5	1989.2	1948.3	1902.7	1840.2	1724.8	1474.8	1192.3	977.2	34.9
42.5°	1971.2	1955.6	1914.7	1864.2	1808.9	1730.8	1550.5	1245.2	1036.1	782.5	2.4
45°	1835.4	1820.9	1788.5	1734.4	1673.1	1562.5	1277.7	1069.7	842.6	569.7	0.0
47.5°	1395.5	1388.2	1421.9	1429.1	1427.9	1301.7	1066.1	872.6	619.0	331.7	0.0
50°	1270.5	1260.8	1227.2	1183.9	1107.0	1001.2	854.6	646.6	363.0	105.8	0.0
52.5°	912.3	943.5	950.7	918.3	846.2	741.6	589.0	372.6	126.2	0.0	0.0
55°	371.4	352.2	366.6	384.6	399.0	366.6	271.6	132.2	1.2	0.0	0.0
57.5°	0.0	1.2	7.2	16.8	27.6	34.9	37.3	2.4	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	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
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: P1307102

CATALOG NUMBER: P3SQAS17R559027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	691.1	691.1	691.1	691.1	691.1
2.5°	693.5	586.5	483.2	426.7	399.0
5°	668.3	448.3	277.6	192.3	159.9
7.5°	626.2	307.7	110.6	45.7	32.5
10°	564.9	176.7	30.0	12.0	10.8
12.5°	477.2	80.5	10.8	8.4	8.4
15°	379.8	27.6	6.0	4.8	3.6
17.5°	266.8	7.2	2.4	0.0	0.0
20°	162.3	1.2	0.0	0.0	0.0
22.5°	90.1	0.0	0.0	0.0	0.0
25°	44.5	0.0	0.0	0.0	0.0
27.5°	19.2	0.0	0.0	0.0	0.0
30°	6.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	0.0	0.0	0.0
75°	1.2	1.2	0.0	0.0	0.0
77.5°	2.4	1.2	1.2	0.0	0.0
80°	2.4	1.2	1.2	0.0	0.0
82.5°	2.4	1.2	1.2	0.0	0.0
85°	1.2	1.2	1.2	0.0	0.0
87.5°	2.4	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)