

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: P1312642

Luminaire Tested: P3SQAS17R559727DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R559727DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

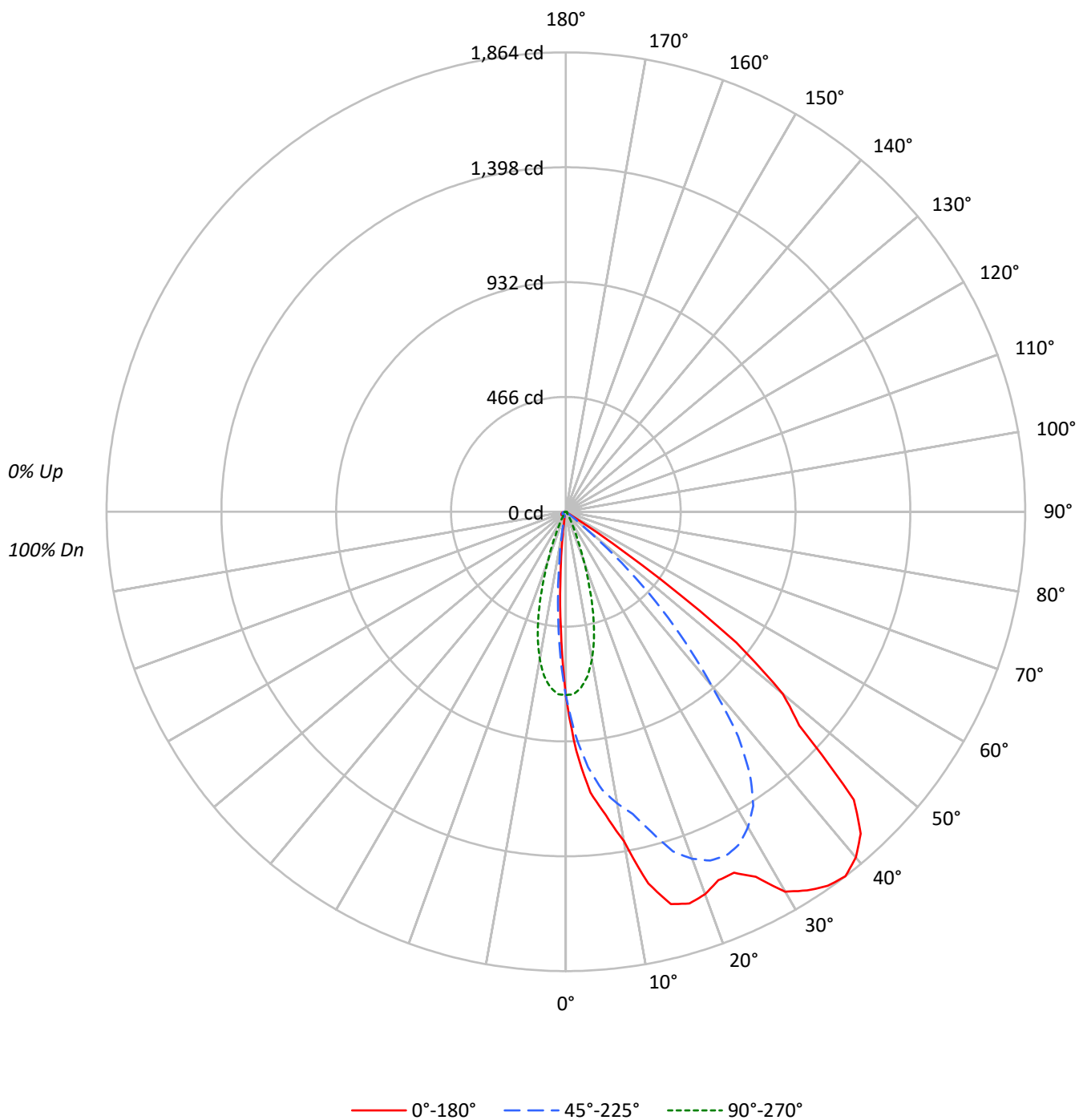
Lumens per Lamp: N/A
Luminaire Lumens: 1241.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312642

CATALOG NUMBER: P3SQAS17R559727DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312642

CATALOG NUMBER: P3SQAS17R559727DE010 E3SQCA301MW

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	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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	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	57	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	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	128099	128099	128099	128099	128099
5°	197551	179848	123748	63551	41751
10°	237346	210205	106519	16019	6418
15°	293871	240060	76115	4422	3459
20°	302679	274620	39313	2969	2969
25°	307064	292527	15772	2660	3078
30°	353941	293903	6861	2784	3222
35°	389605	274012	2943	2943	3616
40°	411512	206251	1686	3395	3867
45°	402507	126018	1583	3678	4725
50°	307879	26873	1742	4340	5493
55°	112958	961	1952	4864	6155
60°	1102	1102	2239	5580	7061
65°	1304	1304	2649	5705	7457
70°	1108	1611	2719	6496	8661
75°	732	1464	2861	7187	10048
80°	1091	2182	3174	7438	10711
85°	0	2174	4347	8497	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 402507 cd/sqm

TEST NUMBER: P1312642

CATALOG NUMBER: P3SQAS17R559727DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	5.3
10°-20°	187.5	15.1
20°-30°	287.7	23.2
30°-40°	335.2	27.0
40°-50°	267.9	21.6
50°-60°	79.3	6.4
60°-70°	8.5	0.7
70°-80°	6.7	0.5
80°-90°	2.8	0.2
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°	540.7	43.6
0°-40°	875.9	70.6
0°-60°	1223.0	98.6
0°-90°	1241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	1143	1040	716	368	242	114
15°	1648	1346	427	25	19	455
25°	1616	1539	83	14	16	768
35°	1853	1303	14	14	17	1154
45°	1653	517	6	15	19	1191
55°	376	3	6	16	20	399
65°	3	3	6	14	18	3
75°	1	2	4	11	15	2
85°	0	1	2	4	5	0
90°	0	0	0	0	0	

TEST NUMBER: P1312642

CATALOG NUMBER: P3SQAS17R559727DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	970.2	970.2	967.0	968.0	965.9	954.0	951.9	936.8	923.8	909.8	898.0
5°	1142.7	1144.8	1141.6	1135.1	1126.5	1117.9	1099.5	1085.5	1067.2	1040.3	1015.5
7.5°	1240.8	1238.6	1233.2	1231.1	1225.7	1216.0	1203.0	1187.9	1166.4	1139.4	1110.3
10°	1357.2	1338.9	1333.5	1324.8	1307.6	1288.2	1265.6	1245.1	1226.8	1202.0	1170.7
12.5°	1544.8	1541.5	1520.0	1503.8	1480.1	1437.0	1398.2	1352.9	1299.0	1255.9	1214.9
15°	1648.2	1650.4	1640.7	1627.8	1612.7	1577.1	1538.3	1485.5	1421.9	1346.4	1279.6
17.5°	1666.6	1669.8	1664.4	1659.0	1654.7	1634.2	1610.5	1572.8	1514.6	1444.5	1345.3
20°	1651.5	1657.9	1659.0	1665.5	1674.1	1665.5	1646.1	1620.2	1571.7	1498.4	1403.5
22.5°	1618.1	1629.9	1638.5	1661.2	1683.8	1683.8	1672.0	1651.5	1604.0	1531.8	1434.8
25°	1615.9	1618.1	1621.3	1657.9	1693.5	1701.1	1690.3	1668.7	1617.0	1539.4	1433.7
27.5°	1669.8	1655.8	1634.2	1670.9	1712.9	1719.4	1704.3	1675.2	1613.8	1522.1	1397.1
30°	1779.8	1748.5	1703.2	1730.2	1759.3	1751.7	1721.5	1675.2	1592.2	1477.9	1328.1
32.5°	1821.8	1804.6	1788.4	1817.5	1822.9	1791.6	1737.7	1668.7	1557.7	1415.4	1214.9
35°	1853.1	1854.1	1847.7	1853.1	1827.2	1783.0	1723.7	1633.2	1493.0	1303.3	1065.1
37.5°	1863.8	1866.0	1852.0	1832.6	1793.8	1743.1	1672.0	1568.5	1385.2	1149.1	838.7
40°	1830.4	1824.0	1801.3	1774.4	1732.3	1680.6	1603.0	1448.8	1224.6	917.4	654.3
42.5°	1771.1	1760.4	1733.4	1701.1	1656.9	1591.1	1467.1	1280.7	995.0	715.8	458.1
45°	1652.6	1645.0	1611.6	1587.9	1535.1	1449.9	1290.4	1055.4	769.7	517.4	265.2
47.5°	1283.9	1285.0	1310.8	1322.7	1304.4	1236.5	1048.9	802.0	561.6	308.3	89.5
50°	1149.1	1143.7	1117.9	1082.3	1023.0	921.7	769.7	567.0	332.0	100.3	12.9
52.5°	872.1	872.1	859.2	840.8	778.3	680.2	520.7	313.7	116.4	17.2	3.2
55°	376.2	356.8	367.6	388.1	371.9	323.4	243.6	93.8	20.5	3.2	3.2
57.5°	5.4	12.9	19.4	31.3	42.0	50.7	26.9	9.7	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	2.2	2.2	2.2	3.2	2.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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: P1312642

CATALOG NUMBER: P3SQAS17R559727DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	880.7	862.4	832.2	740.6	645.7	558.4	495.9	472.2
5°	987.4	954.0	903.4	715.8	527.1	367.6	277.0	241.5
7.5°	1071.5	1028.4	955.1	672.7	387.0	196.2	117.5	92.7
10°	1127.6	1080.1	984.2	609.1	256.6	91.6	44.2	36.7
12.5°	1168.5	1109.3	995.0	527.1	150.9	42.0	23.7	21.6
15°	1198.7	1122.2	982.0	426.9	83.0	24.8	19.4	19.4
17.5°	1240.8	1128.7	950.8	314.8	47.4	18.3	18.3	18.3
20°	1273.1	1128.7	891.5	214.5	29.1	16.2	16.2	16.2
22.5°	1289.3	1111.4	819.3	135.8	20.5	15.1	16.2	16.2
25°	1273.1	1069.4	726.6	83.0	16.2	14.0	15.1	16.2
27.5°	1213.8	985.3	602.6	52.8	12.9	14.0	15.1	16.2
30°	1114.6	863.5	462.5	34.5	11.9	14.0	15.1	16.2
32.5°	974.5	682.4	299.7	22.6	10.8	14.0	15.1	16.2
35°	761.1	482.9	181.1	14.0	10.8	14.0	16.2	17.2
37.5°	570.3	322.3	98.1	8.6	10.8	14.0	16.2	17.2
40°	395.6	187.6	42.0	7.5	10.8	15.1	17.2	17.2
42.5°	229.6	74.4	10.8	6.5	10.8	15.1	17.2	18.3
45°	84.1	15.1	3.2	6.5	11.9	15.1	17.2	19.4
47.5°	11.9	3.2	3.2	6.5	11.9	15.1	18.3	19.4
50°	3.2	3.2	3.2	6.5	11.9	16.2	19.4	20.5
52.5°	3.2	3.2	3.2	6.5	11.9	16.2	19.4	20.5
55°	3.2	3.2	3.2	6.5	11.9	16.2	19.4	20.5
57.5°	3.2	3.2	3.2	6.5	11.9	16.2	19.4	20.5
60°	3.2	3.2	3.2	6.5	10.8	16.2	19.4	20.5
62.5°	3.2	3.2	3.2	6.5	10.8	15.1	18.3	19.4
65°	3.2	3.2	3.2	6.5	9.7	14.0	18.3	18.3
67.5°	3.2	3.2	3.2	5.4	9.7	14.0	17.2	18.3
70°	3.2	3.2	3.2	5.4	8.6	12.9	16.2	17.2
72.5°	3.2	3.2	3.2	4.3	7.5	11.9	15.1	16.2
75°	2.2	3.2	3.2	4.3	7.5	10.8	14.0	15.1
77.5°	2.2	3.2	3.2	3.2	6.5	8.6	11.9	12.9
80°	2.2	2.2	3.2	3.2	5.4	7.5	9.7	10.8
82.5°	2.2	2.2	2.2	3.2	4.3	5.4	7.5	7.5
85°	2.2	2.2	2.2	2.2	3.2	4.3	5.4	5.4
87.5°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)