

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: P1311690

Luminaire Tested: P3SQAS20R609050D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R609050D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

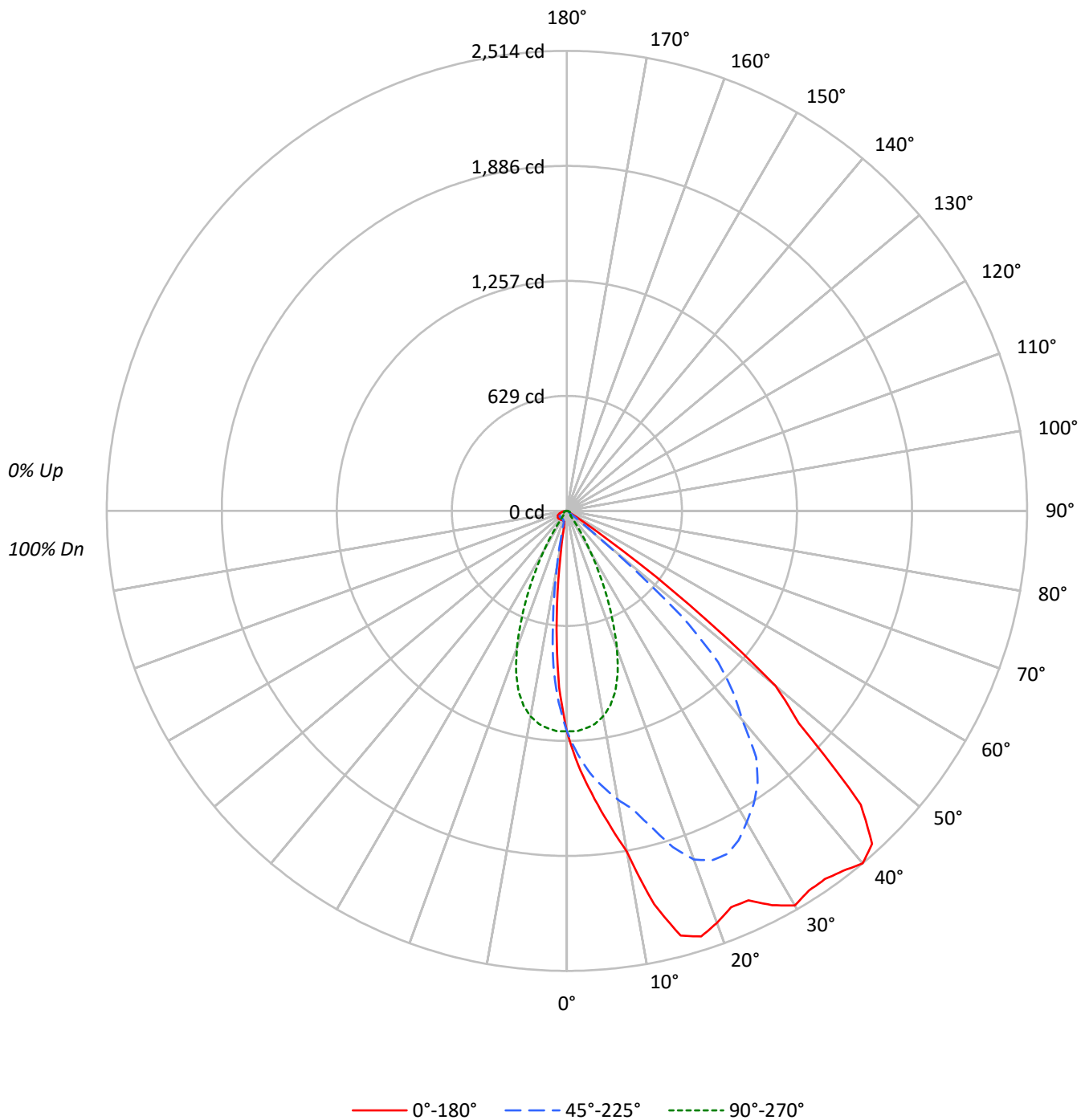
Lumens per Lamp: N/A
Luminaire Lumens: 1955.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1311690

CATALOG NUMBER: P3SQAS20R609050D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311690

CATALOG NUMBER: P3SQAS20R609050D010 E3SQCA301MW

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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90		
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	72		
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39		
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	207253	207253	207253	207253	207253
5°	267723	248568	206143	146793	112009
10°	330854	280174	199485	55524	16456
15°	428486	318886	181989	12178	10858
20°	439091	371426	146474	10153	10483
25°	446145	393184	98206	9824	10527
30°	495155	390552	50651	9904	11017
35°	516509	381847	13960	10470	12026
40°	565177	334870	6632	11196	13287
45°	552953	284575	6747	12129	14833
50°	398601	70225	7422	13343	16317
55°	76476	4444	7747	14413	18286
60°	3823	4443	7612	15259	19702
65°	3749	4523	7539	15812	21068
70°	3726	4633	7452	15811	21401
75°	3660	4924	7386	15970	22092
80°	1785	5455	7339	16464	21919
85°	3557	3557	7311	14623	21934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 552953 cd/sqm

TEST NUMBER: P1311690

CATALOG NUMBER: P3SQAS20R609050D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	5.4
10°-20°	288.9	14.8
20°-30°	444.7	22.7
30°-40°	521.8	26.7
40°-50°	418.4	21.4
50°-60°	129.9	6.6
60°-70°	24.6	1.3
70°-80°	16.3	0.8
80°-90°	5.7	0.3
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°	838.3	42.9
0°-40°	1360.1	69.6
0°-60°	1908.4	97.6
0°-90°	1955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1203	1203	1203	1203	1203	
5°	1549	1438	1192	849	648	158
15°	2403	1788	1021	68	61	658
25°	2348	2069	517	52	55	1108
35°	2457	1816	66	50	57	1555
45°	2270	1168	28	50	61	1625
55°	255	15	26	48	61	403
65°	9	11	18	39	52	9
75°	6	7	11	24	33	5
85°	2	2	4	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1311690

CATALOG NUMBER: P3SQAS20R609050D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4
2.5°	1388.0	1373.2	1373.2	1367.7	1362.2	1364.0	1349.3	1354.8	1340.0	1328.9	1319.7
5°	1548.6	1530.1	1528.3	1519.1	1509.8	1502.5	1484.0	1472.9	1450.8	1437.8	1410.2
7.5°	1714.7	1699.9	1690.7	1679.6	1663.0	1644.6	1613.2	1592.9	1557.8	1522.8	1487.7
10°	1891.9	1879.0	1858.7	1845.8	1799.6	1770.1	1727.6	1699.9	1648.3	1602.1	1548.6
12.5°	2202.0	2194.6	2155.9	2130.0	2063.6	2004.5	1912.2	1838.4	1746.1	1670.4	1598.4
15°	2403.2	2394.0	2373.7	2349.7	2307.2	2240.8	2157.7	2054.3	1925.1	1788.5	1666.7
17.5°	2438.3	2440.1	2427.2	2421.6	2394.0	2351.5	2285.1	2207.5	2078.3	1927.0	1760.9
20°	2395.8	2410.6	2406.9	2417.9	2423.5	2406.9	2362.6	2286.9	2174.3	2026.6	1840.2
22.5°	2344.1	2357.0	2353.3	2373.7	2405.0	2421.6	2406.9	2346.0	2231.5	2067.3	1884.5
25°	2347.8	2357.0	2329.4	2342.3	2382.9	2423.5	2425.3	2371.8	2248.1	2069.1	1880.8
27.5°	2429.0	2401.3	2338.6	2333.0	2382.9	2434.6	2438.3	2371.8	2224.1	2030.3	1843.9
30°	2489.9	2469.6	2399.5	2390.3	2438.3	2473.3	2454.9	2351.5	2166.9	1963.9	1790.4
32.5°	2460.4	2464.1	2434.6	2464.1	2526.8	2541.6	2464.1	2303.5	2087.6	1899.3	1727.6
35°	2456.7	2471.5	2488.1	2534.2	2576.7	2541.6	2417.9	2213.1	2002.7	1816.2	1629.8
37.5°	2478.9	2502.9	2526.8	2567.5	2567.5	2477.0	2296.1	2098.6	1901.1	1698.1	1426.8
40°	2513.9	2528.7	2536.1	2532.4	2482.6	2349.7	2157.7	1960.2	1771.9	1489.5	1292.0
42.5°	2467.8	2465.9	2458.6	2427.2	2334.9	2161.4	1982.3	1821.8	1524.6	1343.7	1118.5
45°	2270.3	2270.3	2250.0	2200.1	2115.2	1971.3	1812.5	1578.1	1389.9	1168.4	830.6
47.5°	1718.4	1705.5	1727.6	1757.2	1757.2	1744.2	1600.3	1397.2	1205.3	843.5	265.8
50°	1487.7	1467.4	1439.7	1445.2	1441.5	1456.3	1364.0	1210.8	891.5	262.1	18.5
52.5°	841.7	878.6	969.0	1096.4	1153.6	1173.9	1116.7	921.0	300.9	16.6	14.8
55°	254.7	262.1	297.2	365.5	496.5	634.9	644.2	299.0	20.3	14.8	14.8
57.5°	11.1	11.1	14.8	22.1	51.7	77.5	83.1	18.5	12.9	14.8	14.8
60°	11.1	11.1	11.1	11.1	11.1	11.1	12.9	12.9	12.9	12.9	14.8
62.5°	9.2	9.2	11.1	11.1	11.1	11.1	11.1	11.1	12.9	12.9	12.9
65°	9.2	9.2	9.2	9.2	9.2	9.2	11.1	11.1	11.1	11.1	12.9
67.5°	7.4	7.4	7.4	9.2	9.2	9.2	9.2	9.2	11.1	11.1	11.1
70°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.2	9.2	9.2	9.2
72.5°	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	7.4	7.4	9.2
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	7.4
77.5°	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5
80°	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P1311690

CATALOG NUMBER: P3SQAS20R609050D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4
2.5°	1306.8	1292.0	1275.4	1205.3	1137.0	1044.7	981.9	963.5
5°	1386.2	1362.2	1325.3	1192.4	1031.8	849.1	701.4	647.9
7.5°	1452.6	1415.7	1364.0	1173.9	906.3	575.9	371.0	313.8
10°	1500.6	1454.5	1388.0	1140.7	740.2	317.5	125.5	94.1
12.5°	1541.2	1480.3	1400.9	1090.8	539.0	129.2	64.6	64.6
15°	1568.9	1495.1	1406.5	1020.7	348.8	68.3	60.9	60.9
17.5°	1607.7	1511.7	1406.5	922.9	190.1	59.1	59.1	59.1
20°	1670.4	1528.3	1386.2	799.2	105.2	55.4	57.2	57.2
22.5°	1703.6	1552.3	1360.3	655.2	66.4	53.5	55.4	55.4
25°	1711.0	1548.6	1305.0	516.8	53.5	51.7	53.5	55.4
27.5°	1685.2	1522.8	1231.1	376.5	48.0	49.8	53.5	55.4
30°	1639.0	1460.0	1113.0	254.7	44.3	49.8	53.5	55.4
32.5°	1552.3	1308.6	974.6	153.2	42.5	49.8	53.5	57.2
35°	1358.5	1149.9	815.8	66.4	40.6	49.8	55.4	57.2
37.5°	1218.2	991.2	631.3	33.2	40.6	49.8	55.4	59.1
40°	1063.2	797.4	291.6	29.5	40.6	49.8	55.4	59.1
42.5°	810.3	369.2	35.1	29.5	38.8	49.8	57.2	59.1
45°	295.3	38.8	18.5	27.7	38.8	49.8	57.2	60.9
47.5°	22.1	14.8	16.6	27.7	38.8	49.8	57.2	60.9
50°	14.8	14.8	16.6	27.7	38.8	49.8	57.2	60.9
52.5°	14.8	16.6	16.6	25.8	36.9	49.8	57.2	60.9
55°	14.8	16.6	16.6	25.8	36.9	48.0	57.2	60.9
57.5°	14.8	14.8	16.6	24.0	35.1	46.1	57.2	59.1
60°	14.8	14.8	16.6	22.1	33.2	44.3	53.5	57.2
62.5°	14.8	14.8	14.8	20.3	31.4	42.5	51.7	55.4
65°	12.9	12.9	14.8	18.5	27.7	38.8	48.0	51.7
67.5°	11.1	12.9	12.9	16.6	25.8	35.1	44.3	48.0
70°	11.1	11.1	11.1	14.8	22.1	31.4	40.6	42.5
72.5°	9.2	9.2	11.1	12.9	20.3	27.7	36.9	38.8
75°	7.4	9.2	9.2	11.1	16.6	24.0	31.4	33.2
77.5°	7.4	7.4	7.4	9.2	14.8	20.3	25.8	27.7
80°	5.5	5.5	5.5	7.4	11.1	16.6	20.3	22.1
82.5°	3.7	5.5	5.5	5.5	9.2	11.1	14.8	16.6
85°	3.7	3.7	3.7	3.7	5.5	7.4	9.2	11.1
87.5°	1.8	1.8	3.7	3.7	3.7	3.7	3.7	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)