

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: P1307248

Luminaire Tested: P3SQAS20R559027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307248
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: P3SQAS20R559027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

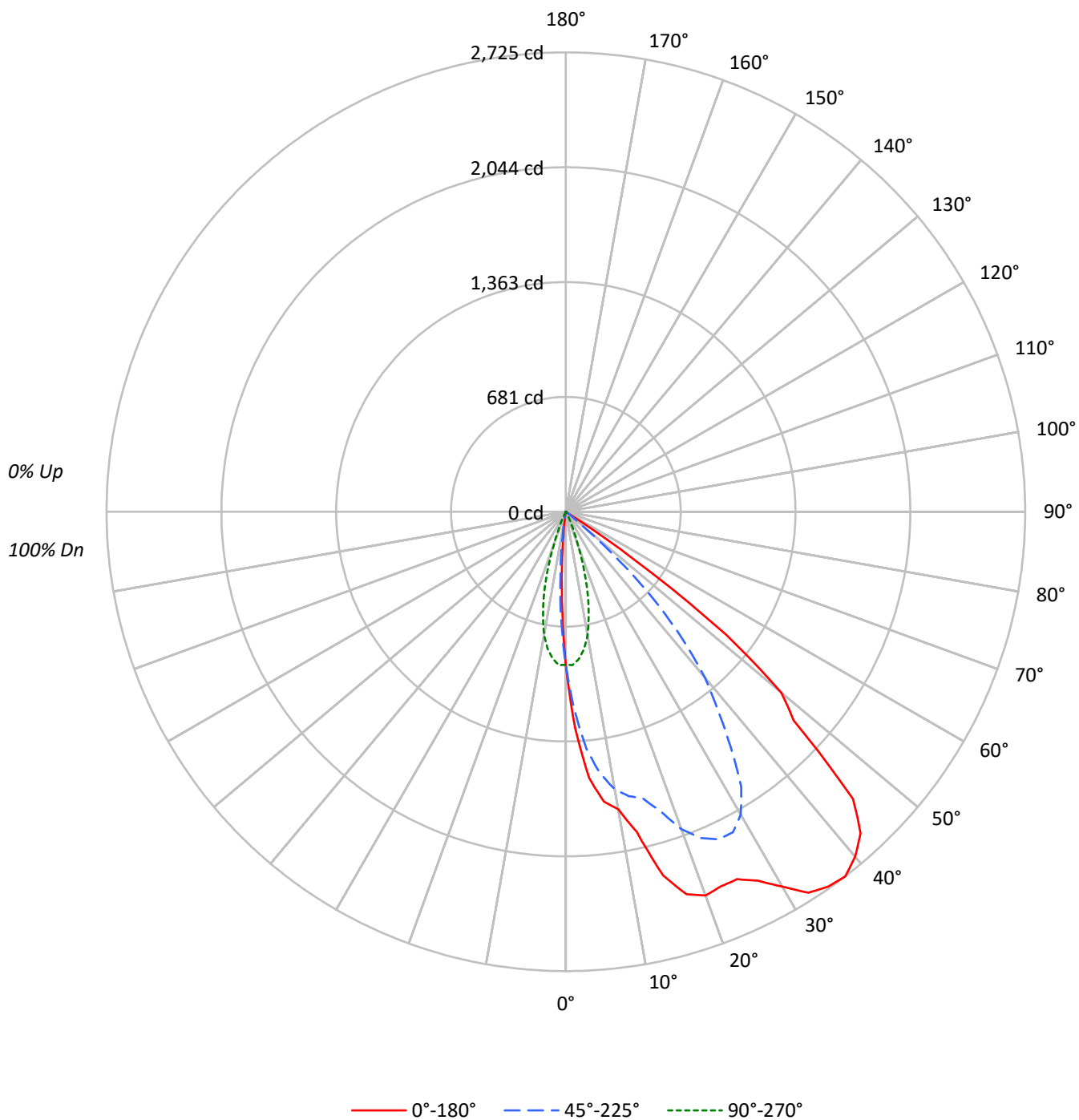
Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1307248

CATALOG NUMBER: P3SQAS20R559027D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307248

CATALOG NUMBER: P3SQAS20R559027D010 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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	84	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	75	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	68	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	61	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	55	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	50	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	45	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	41	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	156258	156258	156258	156258	156258
5°	273877	244142	151668	63015	36288
10°	313454	292206	129691	6890	2483
15°	398353	313680	88899	1409	838
20°	443893	366973	39038	0	0
25°	456938	407170	11098	0	0
30°	510508	412626	1571	0	0
35°	570584	358279	0	0	0
40°	600204	288400	0	0	0
45°	586832	182158	0	0	0
50°	446855	37189	0	0	0
55°	146407	0	0	0	0
60°	0	0	0	0	0
65°	0	652	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	3174	1587	0
85°	0	3162	3162	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 586832 cd/sqm

TEST NUMBER: P1307248

CATALOG NUMBER: P3SQAS20R559027D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	4.9
10°-20°	243.0	14.5
20°-30°	395.1	23.5
30°-40°	469.5	28.0
40°-50°	383.9	22.9
50°-60°	101.8	6.1
60°-70°	0.7	0.0
70°-80°	1.1	0.1
80°-90°	1.2	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°	720.9	42.9
0°-40°	1190.4	70.9
0°-60°	1676.1	99.8
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	907	907	907	907	907	
5°	1584	1412	877	364	210	155
15°	2234	1759	499	8	5	625
25°	2405	2143	58	0	0	1132
35°	2714	1704	0	0	0	1687
45°	2409	748	0	0	0	1729
55°	488	0	0	0	0	548
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307248

CATALOG NUMBER: P3SQAS20R559027D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	907.3	907.3	907.3	907.3	907.3	907.3	907.3	907.3	907.3	907.3	907.3
2.5°	1287.5	1278.1	1279.6	1274.9	1279.6	1259.1	1237.0	1216.5	1200.7	1178.6	1044.5
5°	1584.2	1568.4	1563.6	1557.3	1551.0	1525.8	1505.3	1480.0	1450.0	1412.2	1166.0
7.5°	1734.0	1721.4	1715.1	1718.3	1704.1	1694.6	1667.8	1639.4	1607.8	1566.8	1257.5
10°	1792.4	1779.8	1778.2	1776.6	1775.1	1768.8	1756.1	1730.9	1702.5	1670.9	1309.6
12.5°	1945.5	1917.1	1898.1	1876.1	1849.2	1814.5	1786.1	1764.0	1753.0	1727.7	1333.3
15°	2234.2	2207.4	2186.9	2158.5	2108.0	2033.8	1966.0	1879.2	1803.5	1759.3	1323.8
17.5°	2379.4	2366.8	2349.4	2330.5	2295.8	2242.1	2172.7	2081.2	1984.9	1860.3	1278.1
20°	2422.0	2415.7	2403.1	2395.2	2371.5	2333.6	2286.3	2215.3	2125.4	2002.3	1207.0
22.5°	2404.6	2409.4	2415.7	2436.2	2439.3	2412.5	2368.3	2300.5	2209.0	2095.4	1098.2
25°	2404.6	2401.5	2401.5	2444.1	2470.9	2458.3	2426.7	2365.2	2272.1	2142.7	964.1
27.5°	2466.2	2447.2	2407.8	2452.0	2496.1	2491.4	2463.0	2390.4	2286.3	2144.3	800.0
30°	2567.1	2526.1	2461.4	2502.5	2543.5	2526.1	2480.4	2387.3	2254.7	2074.9	599.6
32.5°	2679.2	2660.2	2627.1	2653.9	2647.6	2578.2	2496.1	2366.8	2190.0	1936.0	403.9
35°	2713.9	2717.0	2695.0	2690.2	2653.9	2582.9	2496.1	2308.4	2054.3	1704.1	239.8
37.5°	2724.9	2726.5	2691.8	2647.6	2594.0	2510.3	2406.2	2188.5	1803.5	1480.0	127.8
40°	2669.7	2668.1	2611.3	2557.7	2497.7	2415.7	2264.2	1936.0	1565.2	1282.8	45.8
42.5°	2587.7	2567.1	2513.5	2447.2	2374.7	2272.1	2035.4	1634.6	1360.1	1027.2	3.2
45°	2409.4	2390.4	2347.8	2276.8	2196.4	2051.2	1677.2	1404.3	1106.1	747.9	0.0
47.5°	1831.9	1822.4	1866.6	1876.1	1874.5	1708.8	1399.5	1145.5	812.6	435.5	0.0
50°	1667.8	1655.2	1611.0	1554.2	1453.2	1314.3	1121.8	848.9	476.5	138.8	0.0
52.5°	1197.6	1238.6	1248.1	1205.5	1110.8	973.5	773.1	489.1	165.7	0.0	0.0
55°	487.6	462.3	481.2	504.9	523.8	481.2	356.6	173.6	1.6	0.0	0.0
57.5°	0.0	1.6	9.5	22.1	36.3	45.8	48.9	3.2	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	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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: P1307248

CATALOG NUMBER: P3SQAS20R559027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	907.3	907.3	907.3	907.3	907.3
2.5°	910.4	770.0	634.3	560.1	523.8
5°	877.3	588.5	364.5	252.5	209.9
7.5°	822.1	403.9	145.2	60.0	42.6
10°	741.6	231.9	39.4	15.8	14.2
12.5°	626.4	105.7	14.2	11.0	11.0
15°	498.6	36.3	7.9	6.3	4.7
17.5°	350.3	9.5	3.2	0.0	0.0
20°	213.0	1.6	0.0	0.0	0.0
22.5°	118.3	0.0	0.0	0.0	0.0
25°	58.4	0.0	0.0	0.0	0.0
27.5°	25.2	0.0	0.0	0.0	0.0
30°	7.9	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°	1.6	0.0	0.0	0.0	0.0
65°	1.6	1.6	0.0	0.0	0.0
67.5°	1.6	1.6	0.0	0.0	0.0
70°	1.6	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	0.0	0.0	0.0
75°	1.6	1.6	0.0	0.0	0.0
77.5°	3.2	1.6	1.6	0.0	0.0
80°	3.2	1.6	1.6	0.0	0.0
82.5°	3.2	1.6	1.6	0.0	0.0
85°	1.6	1.6	1.6	0.0	0.0
87.5°	3.2	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)