

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: P1312799

Luminaire Tested: P3SQAS20R559727D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312799
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: P3SQAS20R559727D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

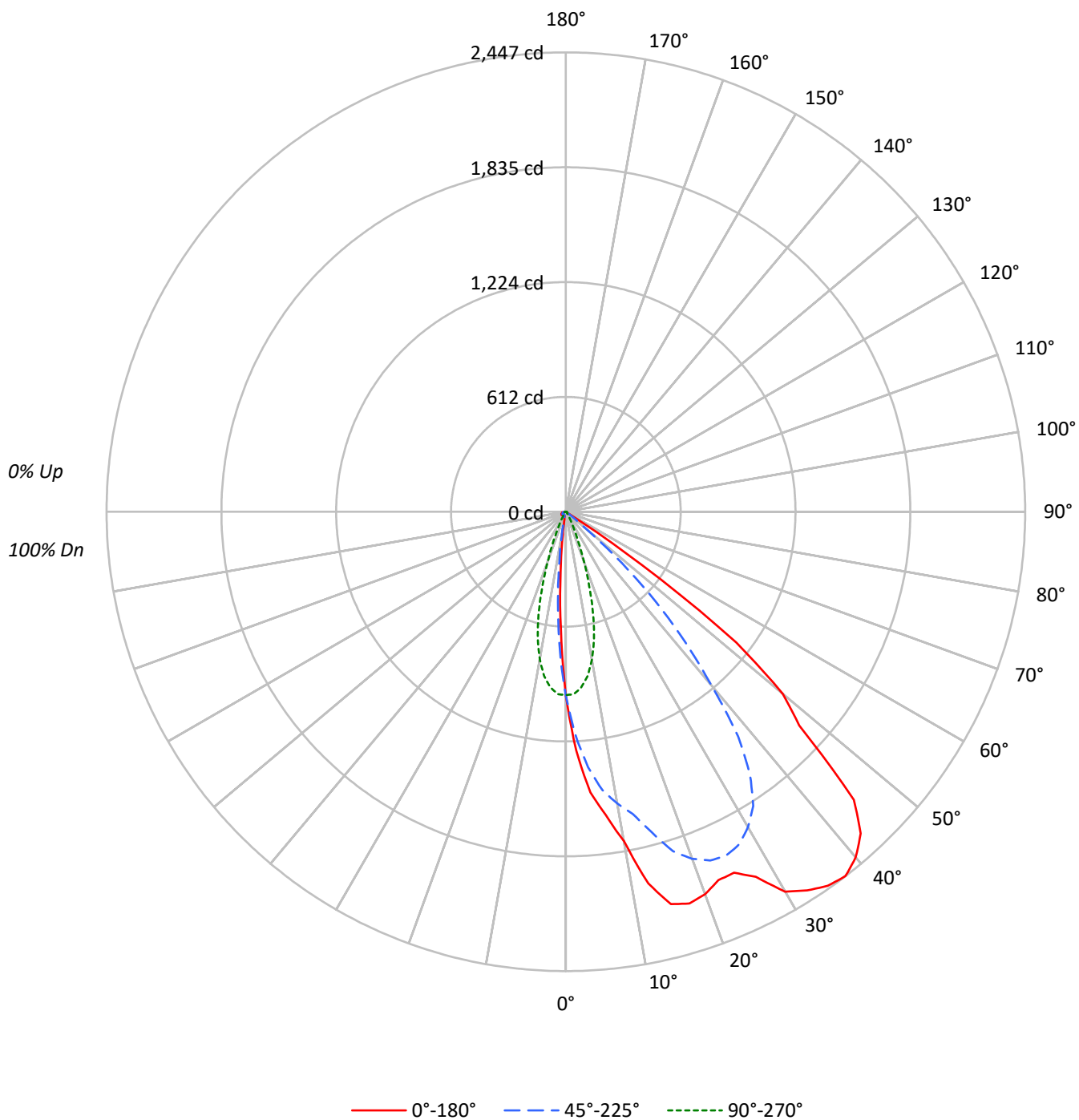
Lumens per Lamp: N/A
Luminaire Lumens: 1629.0 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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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	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°	168158	168158	168158	168158	168158
5°	259303	236068	162439	83415	54803
10°	311548	275925	139816	21038	8412
15°	385766	315124	99900	5795	4547
20°	397305	360485	51610	3885	3885
25°	403066	383987	20713	3496	4029
30°	464590	385799	9009	3659	4216
35°	511400	359687	3869	3869	4752
40°	540177	270729	2226	4451	5081
45°	528329	165426	2070	4822	6211
50°	404147	35260	2277	5680	7207
55°	148269	1261	2552	6366	8077
60°	1447	1447	2928	7302	9266
65°	1712	1712	3464	7498	9821
70°	1410	2115	3575	8560	11380
75°	932	1863	3793	9449	13175
80°	1389	2777	4166	9819	14083
85°	0	2766	5533	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 528329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	5.3
10°-20°	246.1	15.1
20°-30°	377.6	23.2
30°-40°	440.0	27.0
40°-50°	351.6	21.6
50°-60°	104.1	6.4
60°-70°	11.1	0.7
70°-80°	8.7	0.5
80°-90°	3.7	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°	709.7	43.6
0°-40°	1149.7	70.6
0°-60°	1605.4	98.6
0°-90°	1629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	976	976	976	976	976	
5°	1500	1366	940	482	317	149
15°	2164	1767	560	32	26	597
25°	2121	2021	109	18	21	1008
35°	2432	1711	18	18	23	1515
45°	2169	679	8	20	26	1564
55°	494	4	8	21	27	523
65°	4	4	8	18	24	4
75°	1	3	6	14	20	2
85°	0	1	3	6	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
2.5°	1273.5	1273.5	1269.3	1270.7	1267.9	1252.3	1249.5	1229.7	1212.7	1194.3	1178.7
5°	1499.9	1502.8	1498.5	1490.0	1478.7	1467.4	1443.3	1424.9	1400.9	1365.5	1333.0
7.5°	1628.7	1625.9	1618.8	1616.0	1608.9	1596.1	1579.2	1559.4	1531.1	1495.7	1457.5
10°	1781.5	1757.5	1750.4	1739.1	1716.4	1691.0	1661.2	1634.4	1610.3	1577.8	1536.7
12.5°	2027.7	2023.5	1995.2	1974.0	1942.8	1886.2	1835.3	1775.9	1705.1	1648.5	1594.7
15°	2163.6	2166.4	2153.7	2136.7	2116.9	2070.2	2019.2	1949.9	1866.4	1767.4	1679.6
17.5°	2187.6	2191.9	2184.8	2177.7	2172.1	2145.2	2114.0	2064.5	1988.1	1896.1	1765.9
20°	2167.8	2176.3	2177.7	2186.2	2197.5	2186.2	2160.7	2126.8	2063.1	1966.9	1842.4
22.5°	2124.0	2139.5	2150.8	2180.6	2210.3	2210.3	2194.7	2167.8	2105.6	2010.7	1883.4
25°	2121.1	2124.0	2128.2	2176.3	2223.0	2232.9	2218.8	2190.5	2122.5	2020.7	1882.0
27.5°	2191.9	2173.5	2145.2	2193.3	2248.5	2257.0	2237.2	2198.9	2118.3	1998.0	1833.9
30°	2336.2	2295.2	2235.7	2271.1	2309.3	2299.4	2259.8	2198.9	2090.0	1940.0	1743.3
32.5°	2391.4	2368.8	2347.5	2385.7	2392.8	2351.8	2281.0	2190.5	2044.7	1857.9	1594.7
35°	2432.4	2433.8	2425.4	2432.4	2398.5	2340.4	2262.6	2143.8	1959.8	1710.8	1398.0
37.5°	2446.6	2449.4	2431.0	2405.5	2354.6	2288.1	2194.7	2058.9	1818.3	1508.4	1100.9
40°	2402.7	2394.2	2364.5	2329.1	2273.9	2206.0	2104.1	1901.8	1607.5	1204.2	858.9
42.5°	2324.9	2310.7	2275.4	2232.9	2174.9	2088.6	1925.8	1681.0	1306.1	939.6	601.4
45°	2169.2	2159.3	2115.5	2084.3	2015.0	1903.2	1693.8	1385.3	1010.3	679.2	348.1
47.5°	1685.3	1686.7	1720.7	1736.2	1712.2	1623.0	1376.8	1052.8	737.2	404.7	117.4
50°	1508.4	1501.3	1467.4	1420.7	1342.9	1209.8	1010.3	744.3	435.8	131.6	17.0
52.5°	1144.8	1144.8	1127.8	1103.7	1021.6	892.9	683.5	411.8	152.8	22.6	4.2
55°	493.8	468.4	482.5	509.4	488.2	424.5	319.8	123.1	26.9	4.2	4.2
57.5°	7.1	17.0	25.5	41.0	55.2	66.5	35.4	12.7	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	2.8	2.8	2.8	4.2	2.8	4.2	4.2	4.2	4.2	4.2	4.2
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
2.5°	1156.1	1132.0	1092.4	972.1	847.6	733.0	650.9	619.8
5°	1296.2	1252.3	1185.8	939.6	691.9	482.5	363.7	317.0
7.5°	1406.5	1349.9	1253.7	883.0	508.0	257.5	154.2	121.7
10°	1480.1	1417.9	1291.9	799.5	336.8	120.3	58.0	48.1
12.5°	1533.9	1456.1	1306.1	691.9	198.1	55.2	31.1	28.3
15°	1573.5	1473.0	1289.1	560.3	109.0	32.5	25.5	25.5
17.5°	1628.7	1481.5	1248.1	413.2	62.3	24.1	24.1	24.1
20°	1671.1	1481.5	1170.2	281.6	38.2	21.2	21.2	21.2
22.5°	1692.4	1458.9	1075.4	178.3	26.9	19.8	21.2	21.2
25°	1671.1	1403.7	953.7	109.0	21.2	18.4	19.8	21.2
27.5°	1593.3	1293.3	791.0	69.3	17.0	18.4	19.8	21.2
30°	1463.1	1133.4	607.0	45.3	15.6	18.4	19.8	21.2
32.5°	1279.2	895.7	393.4	29.7	14.2	18.4	19.8	21.2
35°	999.0	633.9	237.7	18.4	14.2	18.4	21.2	22.6
37.5°	748.5	423.1	128.8	11.3	14.2	18.4	21.2	22.6
40°	519.3	246.2	55.2	9.9	14.2	19.8	22.6	22.6
42.5°	301.4	97.6	14.2	8.5	14.2	19.8	22.6	24.1
45°	110.4	19.8	4.2	8.5	15.6	19.8	22.6	25.5
47.5°	15.6	4.2	4.2	8.5	15.6	19.8	24.1	25.5
50°	4.2	4.2	4.2	8.5	15.6	21.2	25.5	26.9
52.5°	4.2	4.2	4.2	8.5	15.6	21.2	25.5	26.9
55°	4.2	4.2	4.2	8.5	15.6	21.2	25.5	26.9
57.5°	4.2	4.2	4.2	8.5	15.6	21.2	25.5	26.9
60°	4.2	4.2	4.2	8.5	14.2	21.2	25.5	26.9
62.5°	4.2	4.2	4.2	8.5	14.2	19.8	24.1	25.5
65°	4.2	4.2	4.2	8.5	12.7	18.4	24.1	24.1
67.5°	4.2	4.2	4.2	7.1	12.7	18.4	22.6	24.1
70°	4.2	4.2	4.2	7.1	11.3	17.0	21.2	22.6
72.5°	4.2	4.2	4.2	5.7	9.9	15.6	19.8	21.2
75°	2.8	4.2	4.2	5.7	9.9	14.2	18.4	19.8
77.5°	2.8	4.2	4.2	4.2	8.5	11.3	15.6	17.0
80°	2.8	2.8	4.2	4.2	7.1	9.9	12.7	14.2
82.5°	2.8	2.8	2.8	4.2	5.7	7.1	9.9	9.9
85°	2.8	2.8	2.8	2.8	4.2	5.7	7.1	7.1
87.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)