

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: P1313769

Luminaire Tested: P3SQAS20R559730D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313769
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: P3SQAS20R559730D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

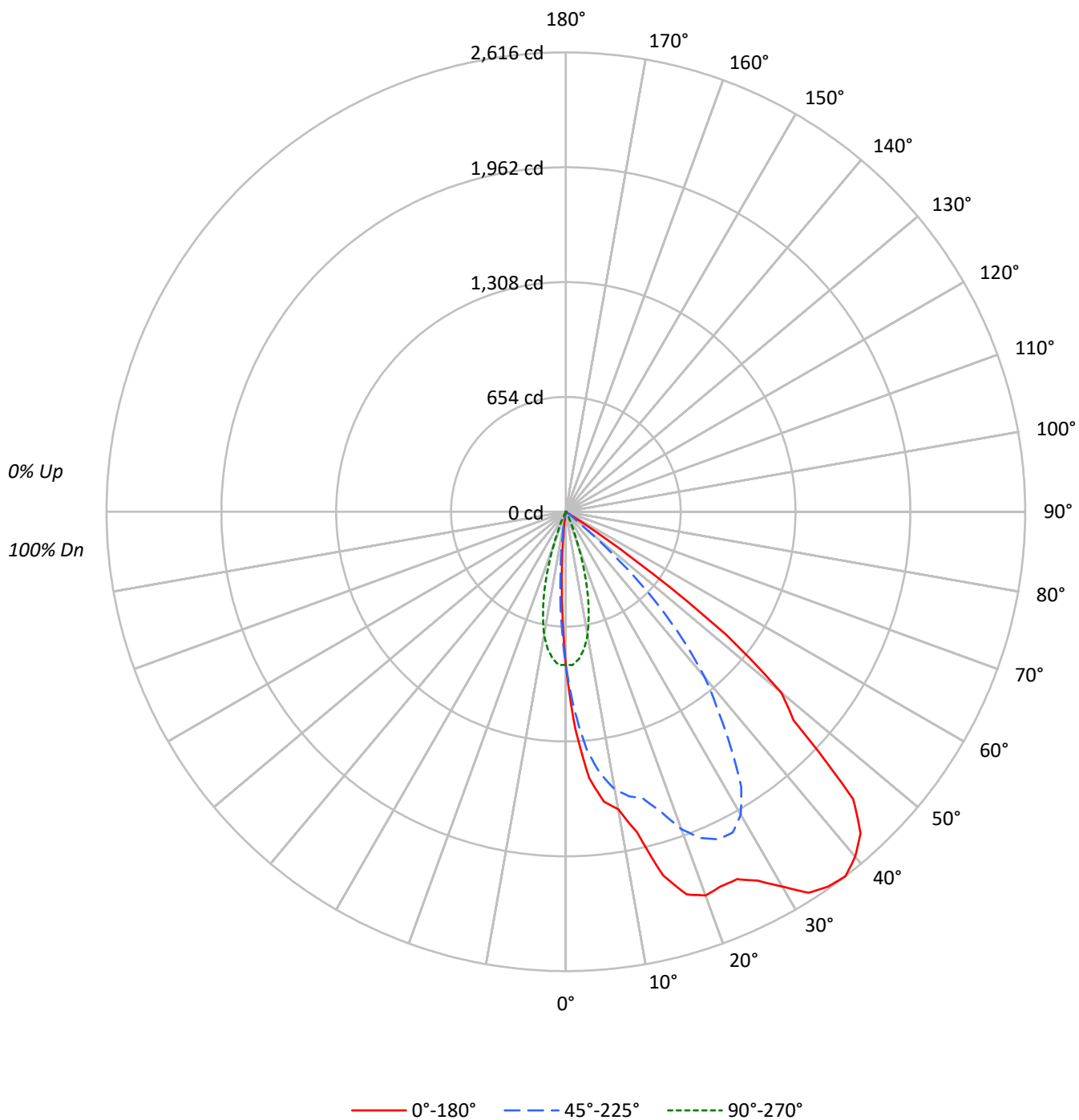
Lumens per Lamp: N/A
Luminaire Lumens: 1612.0 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	150023	150023	150023	150023	150023
5°	262934	234391	145617	60491	34835
10°	300950	280559	124514	6628	2378
15°	382467	301163	85351	1355	802
20°	426171	352329	37480	0	0
25°	438715	390923	10660	0	0
30°	490144	396160	1511	0	0
35°	547814	343982	0	0	0
40°	576260	276889	0	0	0
45°	563402	174900	0	0	0
50°	429011	35715	0	0	0
55°	140552	0	0	0	0
60°	0	0	0	0	0
65°	0	611	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	2975	1488	0
85°	0	2964	2964	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 563402 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	4.9
10°-20°	233.3	14.5
20°-30°	379.3	23.5
30°-40°	450.8	28.0
40°-50°	368.6	22.9
50°-60°	97.7	6.1
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	1.1	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°	692.1	42.9
0°-40°	1142.9	70.9
0°-60°	1609.3	99.8
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	871	871	871	871	871	
5°	1521	1356	842	350	202	149
15°	2145	1689	479	8	4	600
25°	2309	2057	56	0	0	1087
35°	2606	1636	0	0	0	1620
45°	2313	718	0	0	0	1660
55°	468	0	0	0	0	526
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	1236.1	1227.1	1228.6	1224.0	1228.6	1208.9	1187.7	1168.0	1152.8	1131.6	1002.8
5°	1520.9	1505.8	1501.2	1495.2	1489.1	1464.9	1445.2	1421.0	1392.2	1355.8	1119.5
7.5°	1664.9	1652.7	1646.7	1649.7	1636.1	1627.0	1601.2	1574.0	1543.7	1504.3	1207.4
10°	1720.9	1708.8	1707.3	1705.8	1704.2	1698.2	1686.1	1661.8	1634.6	1604.3	1257.3
12.5°	1867.8	1840.6	1822.4	1801.2	1775.4	1742.1	1714.8	1693.6	1683.0	1658.8	1280.1
15°	2145.1	2119.3	2099.6	2072.4	2023.9	1952.7	1887.5	1804.2	1731.5	1689.1	1271.0
17.5°	2284.4	2272.3	2255.7	2237.5	2204.1	2152.6	2086.0	1998.1	1905.7	1786.0	1227.1
20°	2325.3	2319.3	2307.2	2299.6	2276.9	2240.5	2195.1	2126.9	2040.5	1922.4	1158.9
22.5°	2308.7	2313.2	2319.3	2339.0	2342.0	2316.2	2273.8	2208.7	2120.8	2011.8	1054.4
25°	2308.7	2305.6	2305.6	2346.5	2372.3	2360.2	2329.9	2270.8	2181.4	2057.2	925.6
27.5°	2367.8	2349.6	2311.7	2354.1	2396.5	2392.0	2364.7	2295.0	2195.1	2058.7	768.0
30°	2464.7	2425.3	2363.2	2402.6	2442.0	2425.3	2381.4	2292.0	2164.8	1992.1	575.7
32.5°	2572.3	2554.1	2522.3	2548.0	2542.0	2475.3	2396.5	2272.3	2102.7	1858.8	387.8
35°	2605.6	2608.6	2587.4	2582.9	2548.0	2479.9	2396.5	2216.3	1972.4	1636.1	230.3
37.5°	2616.2	2617.7	2584.4	2542.0	2490.5	2410.2	2310.2	2101.1	1731.5	1421.0	122.7
40°	2563.2	2561.7	2507.1	2455.6	2398.1	2319.3	2173.8	1858.8	1502.8	1231.6	43.9
42.5°	2484.4	2464.7	2413.2	2349.6	2279.9	2181.4	1954.2	1569.4	1305.8	986.2	3.0
45°	2313.2	2295.0	2254.1	2186.0	2108.7	1969.3	1610.3	1348.2	1061.9	718.1	0.0
47.5°	1758.8	1749.7	1792.1	1801.2	1799.7	1640.6	1343.7	1099.8	780.2	418.1	0.0
50°	1601.2	1589.1	1546.7	1492.2	1395.2	1261.9	1077.1	815.0	457.5	133.3	0.0
52.5°	1149.8	1189.2	1198.3	1157.4	1066.5	934.7	742.3	469.6	159.1	0.0	0.0
55°	468.1	443.9	462.0	484.8	502.9	462.0	342.4	166.6	1.5	0.0	0.0
57.5°	0.0	1.5	9.1	21.2	34.8	43.9	47.0	3.0	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	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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):

	90°	112.5°	135°	157.5°	180°
0°	871.1	871.1	871.1	871.1	871.1
2.5°	874.1	739.3	609.0	537.8	502.9
5°	842.3	565.0	349.9	242.4	201.5
7.5°	789.3	387.8	139.4	57.6	40.9
10°	712.0	222.7	37.9	15.1	13.6
12.5°	601.4	101.5	13.6	10.6	10.6
15°	478.7	34.8	7.6	6.1	4.5
17.5°	336.3	9.1	3.0	0.0	0.0
20°	204.5	1.5	0.0	0.0	0.0
22.5°	113.6	0.0	0.0	0.0	0.0
25°	56.1	0.0	0.0	0.0	0.0
27.5°	24.2	0.0	0.0	0.0	0.0
30°	7.6	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°	1.5	0.0	0.0	0.0	0.0
65°	1.5	1.5	0.0	0.0	0.0
67.5°	1.5	1.5	0.0	0.0	0.0
70°	1.5	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	0.0	0.0	0.0
75°	1.5	1.5	0.0	0.0	0.0
77.5°	3.0	1.5	1.5	0.0	0.0
80°	3.0	1.5	1.5	0.0	0.0
82.5°	3.0	1.5	1.5	0.0	0.0
85°	1.5	1.5	1.5	0.0	0.0
87.5°	3.0	1.5	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)