

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: P1317311

Luminaire Tested: P3SQAS17R509830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

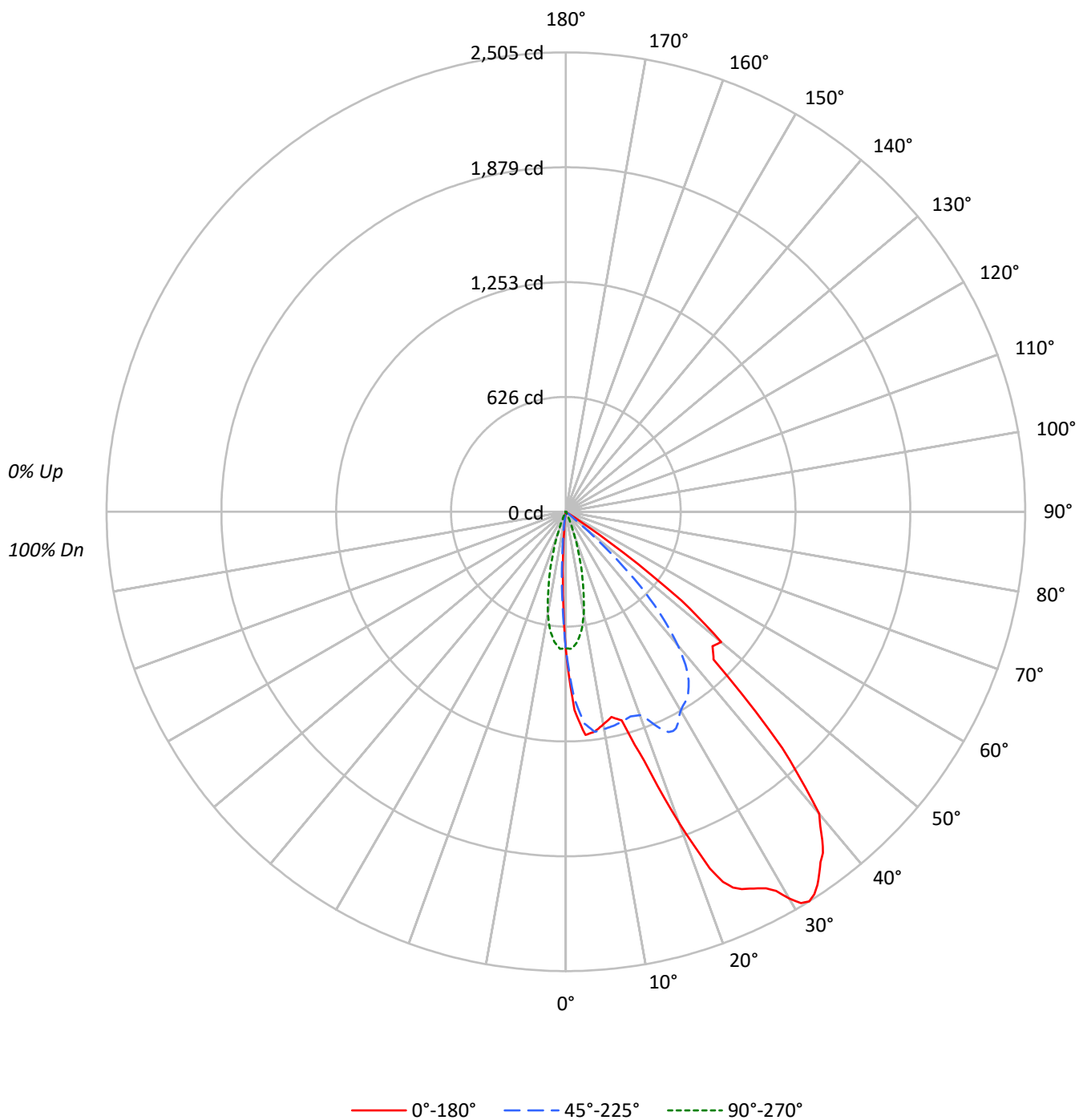
Lumens per Lamp: N/A
Luminaire Lumens: 1199.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	91	103	98	93	90	94	91	88		91	88	86		89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	77		82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62		71	66	62		69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51		60	55	50		59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	128203	128203	128203	128203	128203
5°	211243	200472	123212	36599	18291
10°	205868	210397	98719	1854	2466
15°	209892	211158	59124	1890	624
20°	330849	216192	24357	0	0
25°	431323	251861	5815	0	0
30°	484118	249079	239	0	0
35°	506627	245272	0	0	0
40°	483320	213108	0	0	0
45°	277561	140631	0	0	0
50°	296198	16076	0	0	0
55°	84403	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2380	1190	0
85°	0	2371	4742	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 306495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	5.2
10°-20°	157.5	13.1
20°-30°	302.6	25.2
30°-40°	352.2	29.4
40°-50°	252.0	21.0
50°-60°	70.1	5.9
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	0.9	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°	522.6	43.6
0°-40°	874.8	73.0
0°-60°	1196.9	99.8
0°-90°	1199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	1222	1160	713	212	106	112
15°	1177	1184	332	11	4	380
25°	2270	1325	31	0	0	1032
35°	2410	1167	0	0	0	1491
45°	1140	577	0	0	0	1072
55°	281	0	0	0	0	354
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
2.5°	1082.0	1087.8	1089.0	1074.9	1077.3	1057.3	1058.4	1044.3	1010.2	891.4	748.0
5°	1221.9	1218.4	1221.9	1217.2	1221.9	1210.2	1203.1	1197.2	1159.6	991.4	712.7
7.5°	1209.0	1204.3	1211.3	1213.7	1221.9	1218.4	1219.6	1223.1	1210.2	1045.5	652.7
10°	1177.2	1176.0	1179.6	1179.6	1189.0	1190.2	1194.9	1201.9	1203.1	1064.3	564.5
12.5°	1146.6	1143.1	1143.1	1141.9	1146.6	1145.5	1157.2	1173.7	1196.0	1052.6	443.4
15°	1177.2	1173.7	1169.0	1156.1	1146.6	1136.1	1137.2	1147.8	1184.3	1022.0	331.6
17.5°	1424.2	1405.4	1381.9	1340.7	1297.2	1221.9	1177.2	1149.0	1170.2	974.9	221.1
20°	1805.2	1797.0	1759.4	1692.3	1621.8	1511.2	1373.6	1263.1	1179.6	916.1	132.9
21°	1949.9	1945.2	1905.2	1842.9	1762.9	1628.8	1487.7	1354.8	1198.4	891.4	104.7
22°	2098.1	2080.4	2048.7	1979.3	1895.8	1761.7	1604.1	1457.1	1236.0	859.7	80.0
23°	2193.3	2182.7	2148.6	2093.4	2013.4	1882.9	1721.7	1561.8	1272.5	824.4	60.0
24°	2242.7	2239.2	2212.1	2173.3	2105.1	1972.2	1819.3	1654.7	1303.1	783.2	43.5
25°	2269.8	2258.0	2241.5	2213.3	2161.6	2046.3	1909.9	1735.8	1325.4	742.1	30.6
26°	2286.2	2279.2	2253.3	2228.6	2179.2	2085.1	1968.7	1785.2	1331.3	691.5	21.2
27°	2305.1	2288.6	2263.9	2234.5	2179.2	2096.9	1991.0	1806.4	1324.2	639.8	14.1
28°	2325.0	2313.3	2279.2	2241.5	2175.7	2096.9	1982.8	1778.2	1303.1	590.4	8.2
29°	2363.9	2348.6	2306.2	2251.0	2176.9	2094.5	1951.1	1719.4	1274.8	535.1	4.7
30°	2434.4	2402.7	2350.9	2273.3	2185.1	2089.8	1898.1	1631.2	1252.5	472.8	1.2
31°	2489.7	2472.1	2412.1	2314.5	2208.6	2076.9	1835.8	1544.1	1237.2	418.7	0.0
32°	2505.0	2492.0	2448.5	2356.8	2248.6	2066.3	1765.2	1459.5	1225.4	358.7	0.0
33°	2487.3	2479.1	2433.2	2349.7	2259.2	2052.2	1684.1	1376.0	1212.5	304.6	0.0
34°	2454.4	2443.8	2403.8	2319.2	2232.1	1991.0	1606.5	1312.5	1193.7	254.0	0.0
35°	2409.7	2401.5	2360.3	2276.8	2182.7	1895.8	1528.9	1270.1	1166.6	203.5	0.0
36°	2361.5	2359.1	2306.2	2223.9	2119.2	1804.1	1434.8	1238.4	1139.6	161.1	0.0
37°	2329.7	2318.0	2260.4	2179.2	2044.0	1697.0	1359.5	1227.8	1102.0	124.7	0.0
38°	2272.1	2274.5	2208.6	2134.5	1967.5	1604.1	1298.4	1219.6	1059.6	90.6	0.0
39°	2203.9	2205.1	2136.9	2073.4	1877.0	1506.5	1247.8	1211.3	1006.7	57.6	0.0
40°	2149.8	2148.6	2071.0	2002.8	1779.4	1414.8	1220.7	1199.6	947.9	32.9	0.0
42.5°	1747.6	1754.7	1764.1	1792.3	1550.0	1253.7	1194.9	1133.7	780.9	0.0	0.0
45°	1139.6	1166.6	1173.7	1258.4	1257.2	1187.8	1133.7	1016.1	577.4	0.0	0.0
47.5°	1084.3	1092.5	1107.8	1140.8	1158.4	1124.3	1013.8	849.1	315.2	0.0	0.0
50°	1105.5	1104.3	1107.8	1107.8	1076.1	987.9	831.5	626.8	60.0	0.0	0.0
52.5°	793.8	823.2	855.0	869.1	827.9	735.0	606.8	368.1	0.0	0.0	0.0
55°	281.1	271.7	264.6	289.3	283.4	318.7	263.4	85.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	4.7	10.6	14.1	0.0	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	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.4
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):

	112.5°	135°	157.5°	180°
0°	744.4	744.4	744.4	744.4
2.5°	596.3	457.5	370.5	376.3
5°	418.7	211.7	130.5	105.8
7.5°	250.5	64.7	12.9	10.6
10°	117.6	10.6	11.8	14.1
12.5°	35.3	9.4	12.9	11.8
15°	9.4	10.6	5.9	3.5
17.5°	3.5	4.7	0.0	0.0
20°	2.4	0.0	0.0	0.0
21°	2.4	0.0	0.0	0.0
22°	1.2	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	1.2	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.2	1.2	0.0	0.0
85°	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)