

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: P1312096

Luminaire Tested: P3SQAS05R259727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R259727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

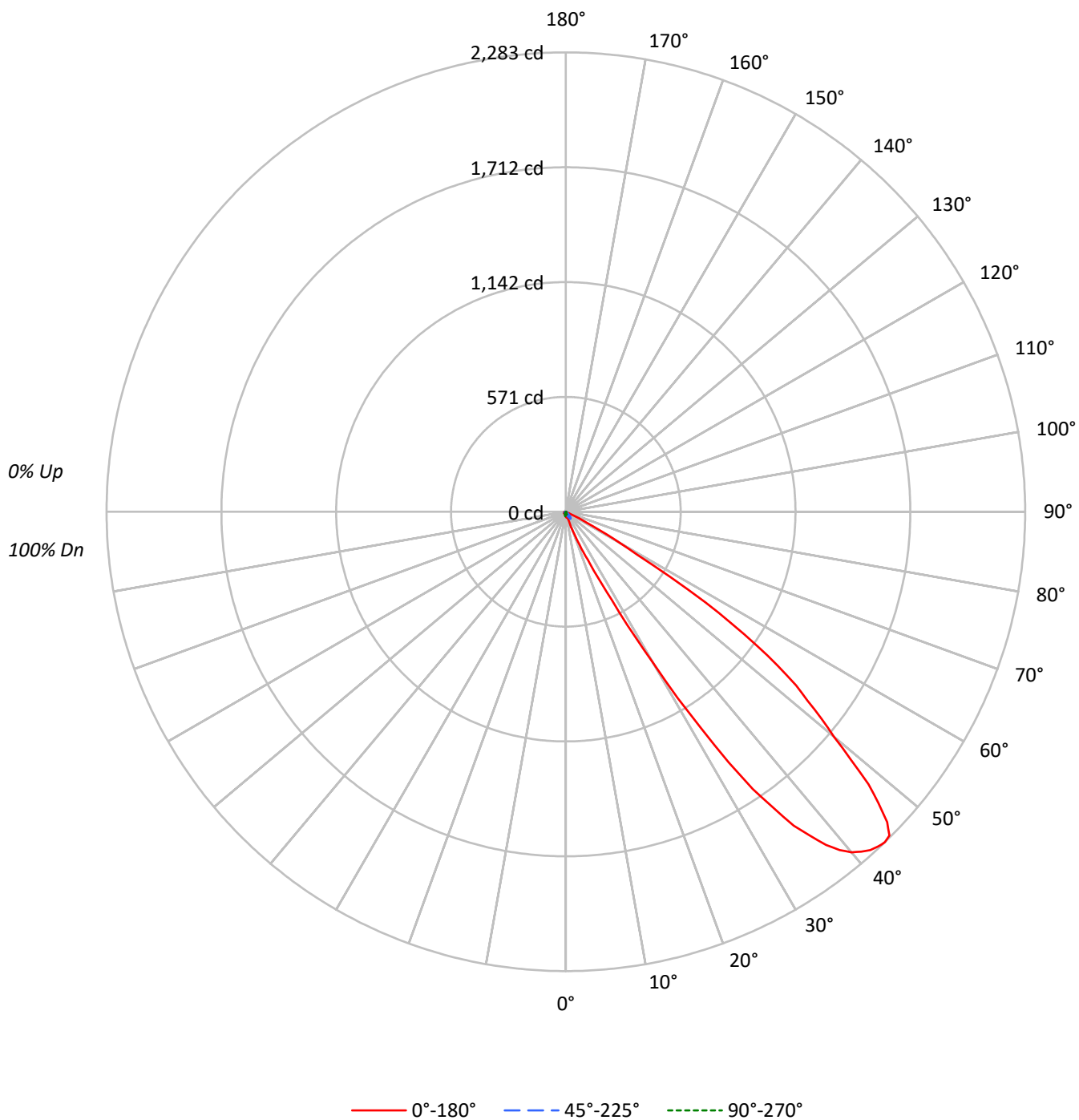
Lumens per Lamp: N/A
Luminaire Lumens: 476.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4185	4185	4185	4185	4185
5°	4772	4564	4063	3613	3544
10°	4757	4320	3445	3008	3008
15°	5295	3726	2692	2532	2692
20°	18731	3684	2071	2144	2383
25°	53892	4694	1672	1995	2299
30°	171919	7239	1332	1909	2327
35°	376570	8536	1135	1850	2376
40°	496741	7711	944	1888	2540
45°	553976	5407	926	2046	2752
50°	466307	2813	911	2143	3028
55°	348633	1141	871	2402	3393
60°	107915	276	861	2583	3754
65°	9210	0	1019	2730	4116
70°	655	201	1057	3172	4633
75°	532	266	1397	3327	5323
80°	397	397	2083	3769	6248
85°	790	790	3359	4150	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 553976 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	5.6	1.2
20°-30°	26.3	5.5
30°-40°	126.8	26.6
40°-50°	198.7	41.8
50°-60°	101.9	21.4
60°-70°	9.6	2.0
70°-80°	3.2	0.7
80°-90°	1.6	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°	34.1	7.2
0°-40°	160.9	33.8
0°-60°	461.5	97.0
0°-90°	476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	28	26	24	21	20	3
15°	30	21	15	14	15	13
25°	284	25	9	10	12	176
35°	1791	41	5	9	11	1087
45°	2274	22	4	8	11	1664
55°	1161	4	3	8	11	967
65°	23	0	2	7	10	71
75°	1	0	2	5	8	1
85°	0	0	2	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	26.4	26.4	26.4	26.4	26.4	26.4	26.0	26.0	26.4	26.0	26.0
5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.2	27.2	27.2	26.4
7.5°	28.1	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.2	27.2	26.0
10°	27.2	27.2	27.2	27.2	26.8	26.8	26.8	26.4	26.4	26.4	24.7
12.5°	27.2	27.2	27.2	27.2	26.8	26.8	26.4	26.4	26.0	25.6	22.6
15°	29.7	29.7	29.7	29.3	28.9	28.5	28.1	27.6	27.2	26.4	20.9
17.5°	43.6	42.3	41.9	40.2	38.1	36.0	34.3	32.7	31.0	29.7	20.1
20°	102.2	101.8	99.7	94.7	89.2	82.9	76.7	69.5	59.5	52.8	20.1
22.5°	177.2	174.7	170.9	167.1	157.5	146.2	134.5	121.1	108.1	94.2	21.4
25°	283.6	289.4	276.9	266.8	250.1	229.5	207.3	188.9	165.5	143.7	24.7
27.5°	493.0	496.8	472.1	439.4	400.4	357.3	315.4	284.0	244.6	208.6	31.0
30°	864.5	868.3	826.8	757.3	676.9	606.1	510.2	426.0	348.5	288.6	36.4
31°	1079.0	1049.7	1001.5	934.1	832.3	725.5	610.3	508.5	410.5	331.7	38.1
32°	1265.4	1262.9	1206.8	1104.6	1002.4	870.4	727.6	594.8	474.6	375.3	39.4
33°	1485.3	1468.6	1389.4	1293.0	1157.8	1025.0	840.7	689.0	540.3	423.9	40.2
34°	1661.7	1616.4	1583.7	1473.6	1330.7	1161.5	964.2	788.7	622.4	470.8	40.6
35°	1791.1	1781.4	1717.8	1615.2	1469.8	1296.8	1097.4	892.2	691.1	525.3	40.6
36°	1928.1	1898.3	1836.3	1743.3	1601.8	1422.9	1199.2	981.8	771.1	574.3	40.2
37°	2013.9	1996.3	1934.8	1838.8	1700.2	1529.3	1313.2	1076.5	834.8	623.3	39.4
38°	2102.3	2066.7	2006.0	1914.2	1778.1	1617.7	1395.7	1149.4	893.4	666.4	38.1
39°	2163.5	2126.6	2064.6	1973.3	1840.1	1680.9	1461.0	1211.4	944.5	698.7	36.4
40°	2209.5	2173.9	2111.1	2017.3	1885.7	1730.8	1515.5	1266.2	987.3	726.7	34.3
41°	2238.0	2204.9	2142.5	2049.1	1917.2	1759.2	1551.1	1301.8	1016.2	745.6	32.3
42°	2261.9	2228.0	2164.3	2068.8	1936.4	1783.5	1572.9	1324.5	1035.9	755.2	30.6
43°	2275.3	2241.4	2179.4	2081.8	1948.2	1794.9	1584.6	1334.9	1042.6	754.0	27.6
44°	2282.8	2247.6	2185.2	2087.6	1953.2	1797.8	1585.4	1332.8	1038.0	743.9	25.1
45°	2274.5	2239.7	2179.4	2081.8	1944.4	1788.6	1577.0	1321.5	1020.4	724.2	22.2
46°	2220.0	2193.2	2137.9	2048.3	1916.7	1765.1	1555.7	1299.7	993.1	699.9	18.8
47°	2124.1	2102.7	2049.1	1982.5	1863.5	1722.0	1516.3	1258.3	955.0	663.5	15.1
48°	2024.0	1992.6	1942.7	1874.4	1773.9	1644.5	1451.4	1197.5	897.2	615.7	13.4
49°	1876.1	1857.7	1813.7	1737.5	1654.1	1540.2	1359.6	1119.6	826.4	563.8	11.7
50°	1740.4	1727.8	1666.3	1610.1	1521.8	1415.4	1235.2	1017.0	738.5	499.3	10.5
51°	1634.4	1619.3	1574.9	1505.0	1410.8	1287.2	1117.5	883.8	637.5	422.6	8.4
52°	1523.8	1515.5	1476.1	1404.0	1311.5	1188.3	1003.2	770.7	539.5	357.3	6.7
53°	1433.4	1421.2	1373.1	1309.0	1208.9	1081.5	879.2	665.6	457.0	300.3	5.9
54°	1301.4	1296.4	1265.4	1198.4	1089.9	951.3	766.9	560.4	381.2	254.7	5.0
55°	1161.1	1144.3	1112.9	1059.7	960.0	830.6	637.1	464.5	308.3	214.5	3.8
56°	990.2	989.4	933.2	888.8	800.5	663.1	508.9	362.7	250.5	178.9	3.4
57°	826.8	800.5	746.4	702.4	607.4	503.1	377.8	271.8	196.0	144.9	2.5
58°	611.5	597.7	583.5	519.0	431.0	356.5	269.8	191.0	144.9	110.6	1.7
59°	415.1	414.7	397.9	348.9	298.2	222.0	168.4	129.8	99.7	81.3	1.3
60°	313.3	305.8	272.3	240.0	187.7	140.3	99.7	76.7	62.0	52.4	0.8
62.5°	109.7	113.9	100.1	82.9	63.2	51.9	39.8	32.3	26.4	21.4	0.0
65°	22.6	24.7	21.4	20.1	15.9	13.8	12.1	10.5	8.8	7.5	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.9	2.5	2.5	2.5	2.1	2.1	2.1	2.1	1.7	1.7	0.4
70°	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8	0.8	0.4
72.5°	1.3	1.3	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	25.6	24.7	23.5	23.0	22.6	22.6
5°	25.1	23.5	22.2	20.9	20.5	20.5
7.5°	23.9	21.8	20.1	19.3	18.8	18.4
10°	22.6	19.7	18.0	17.2	17.2	17.2
12.5°	20.1	17.6	15.9	15.5	15.9	15.9
15°	18.0	15.1	14.2	14.2	14.7	15.1
17.5°	15.5	13.4	12.6	13.0	13.4	13.8
20°	13.8	11.3	11.3	11.7	13.0	13.0
22.5°	12.1	10.1	10.1	11.3	12.1	12.6
25°	10.9	8.8	9.2	10.5	11.7	12.1
27.5°	9.2	7.5	8.4	10.1	11.3	11.7
30°	8.0	6.7	8.0	9.6	10.9	11.7
31°	7.5	6.3	8.0	9.2	10.9	11.7
32°	6.7	6.3	7.5	9.2	10.9	11.3
33°	6.3	5.9	7.5	9.2	10.9	11.3
34°	5.9	5.4	7.1	9.2	10.9	11.3
35°	5.0	5.4	7.1	8.8	10.5	11.3
36°	4.6	5.0	7.1	8.8	10.5	11.3
37°	4.2	5.0	6.7	8.8	10.5	11.3
38°	3.8	4.6	6.7	8.8	10.5	11.3
39°	3.4	4.6	6.3	8.8	10.5	11.3
40°	2.9	4.2	6.3	8.4	10.5	11.3
41°	2.9	4.2	6.3	8.4	10.5	11.3
42°	2.5	4.2	6.3	8.4	10.5	11.3
43°	2.1	3.8	6.3	8.4	10.5	11.3
44°	1.7	3.8	5.9	8.4	10.5	11.3
45°	1.7	3.8	5.9	8.4	10.5	11.3
46°	1.3	3.4	5.9	8.4	10.5	11.3
47°	0.8	3.4	5.9	8.0	10.5	11.3
48°	0.8	3.4	5.9	8.0	10.5	11.3
49°	0.8	3.4	5.4	8.0	10.5	11.3
50°	0.8	3.4	5.4	8.0	10.5	11.3
51°	0.4	2.9	5.4	8.0	10.5	11.3
52°	0.4	2.9	5.4	8.0	10.5	11.7
53°	0.4	2.9	5.4	8.0	10.5	11.3
54°	0.4	2.9	5.0	8.0	10.5	11.3
55°	0.4	2.9	5.0	8.0	10.5	11.3
56°	0.4	2.5	5.0	7.5	10.5	11.3
57°	0.8	2.5	5.0	7.5	10.5	10.9
58°	0.8	2.5	5.0	7.5	10.1	10.9
59°	0.8	2.5	5.0	7.5	10.1	10.9
60°	0.8	2.5	4.6	7.5	10.1	10.9
62.5°	0.8	2.5	4.6	7.1	9.6	10.5
65°	0.8	2.5	4.2	6.7	9.6	10.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.1	4.2	6.3	9.2	9.6
70°	1.3	2.1	3.8	6.3	8.8	9.2
72.5°	1.3	2.1	3.8	5.4	8.0	8.8
75°	1.3	2.1	3.4	5.0	7.5	8.0
77.5°	1.3	2.1	2.9	4.6	6.7	7.1
80°	1.7	2.1	2.5	3.8	5.9	6.3
82.5°	1.7	2.1	2.1	2.9	4.6	5.0
85°	1.3	1.7	1.7	2.1	2.9	3.4
87.5°	1.3	1.7	1.3	0.8	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)