

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: P1307086

Luminaire Tested: P3SQAS17R459027DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R459027DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

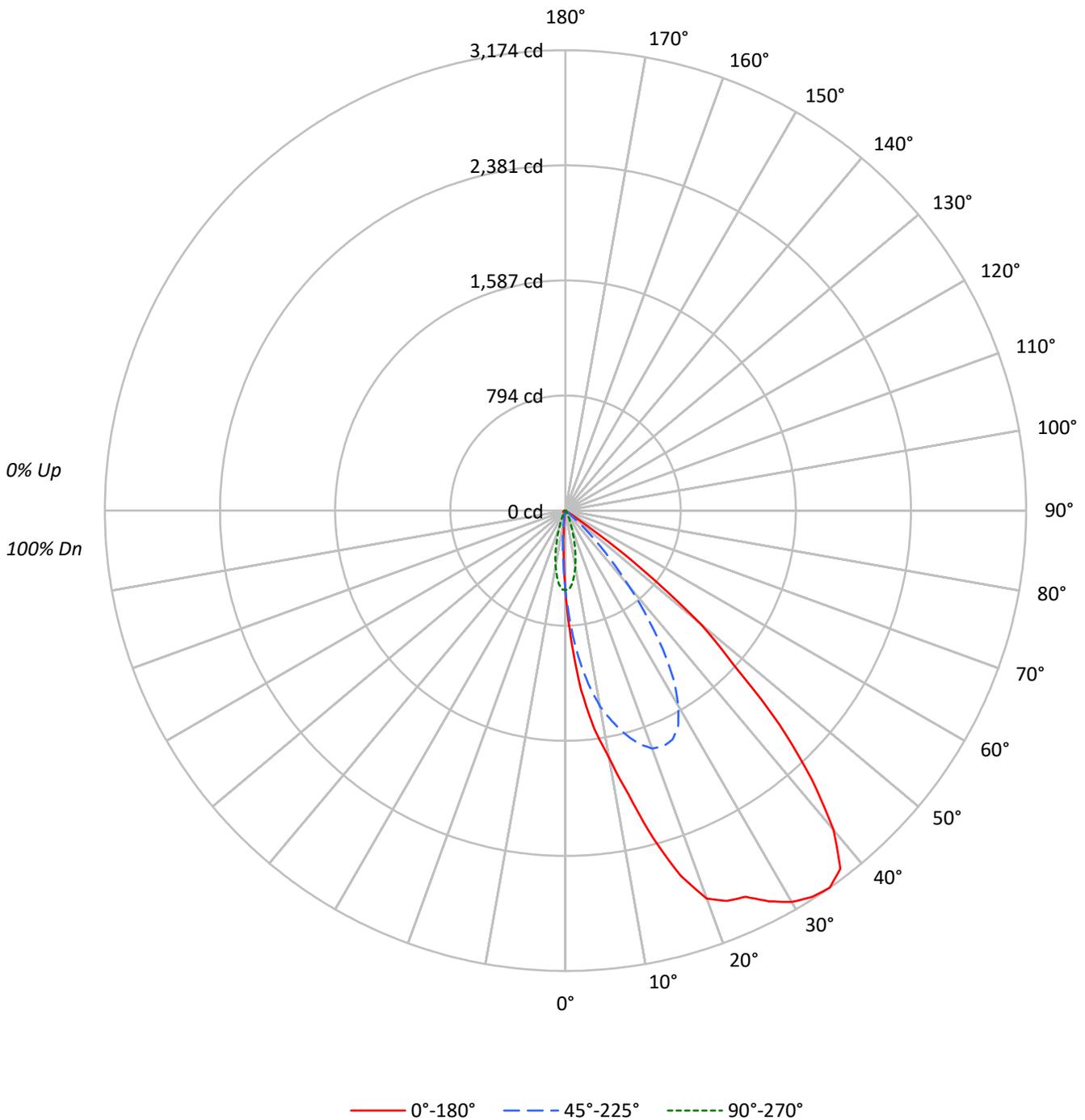
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.9 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	94240	94240	94240	94240	94240
5°	214769	174229	88152	35337	24117
10°	302646	239340	68133	7782	3568
15°	417057	284760	43523	2567	2140
20°	521492	319816	22708	1759	1759
25°	558070	331140	10508	1368	1596
30°	619426	309236	4793	1432	1670
35°	667255	246512	1514	1514	2018
40°	645640	152766	809	1888	2428
45°	507018	72045	877	2338	2923
50°	325750	8386	1286	2894	3858
55°	49483	721	1441	3603	4684
60°	827	827	1653	4133	4960
65°	978	978	1956	4401	5868
70°	1209	1209	2417	4834	6647
75°	799	1597	3194	5590	7187
80°	1190	2380	3570	5951	8331
85°	0	2371	4742	7114	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 507018 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	4.2
10°-20°	216.5	15.1
20°-30°	380.4	26.5
30°-40°	431.9	30.0
40°-50°	279.7	19.4
50°-60°	54.9	3.8
60°-70°	6.7	0.5
70°-80°	5.5	0.4
80°-90°	2.5	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°	656.8	45.7
0°-40°	1088.7	75.7
0°-60°	1423.2	99.0
0°-90°	1437.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	547	547	547	547	547	
5°	1242	1008	510	204	140	132
15°	2339	1597	244	14	12	674
25°	2937	1743	55	7	8	1377
35°	3174	1172	7	7	10	1951
45°	2082	296	4	10	12	1569
55°	165	2	5	12	16	315
65°	2	2	5	11	14	2
75°	1	2	5	8	11	1
85°	0	1	2	4	4	0
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°	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2
2.5°	888.7	886.3	889.9	865.9	864.7	846.6	841.8	821.4	793.7	780.5	749.2
5°	1242.3	1230.3	1230.3	1201.4	1191.8	1171.3	1136.5	1093.2	1057.1	1007.8	954.9
7.5°	1515.3	1512.9	1512.9	1487.6	1463.6	1434.7	1387.8	1338.5	1280.8	1205.0	1128.0
10°	1730.6	1734.2	1723.3	1700.5	1665.6	1634.3	1579.0	1518.9	1447.9	1368.6	1266.3
12.5°	2002.3	1975.9	1967.5	1915.8	1871.3	1811.1	1745.0	1676.4	1588.6	1488.8	1373.4
15°	2339.1	2305.4	2271.7	2203.2	2128.6	2036.0	1932.6	1831.6	1718.5	1597.1	1452.8
17.5°	2639.7	2639.7	2595.2	2487.0	2390.8	2253.7	2114.2	1979.5	1846.0	1686.1	1505.7
20°	2845.4	2834.6	2800.9	2721.5	2612.1	2456.9	2275.3	2086.5	1925.4	1745.0	1535.7
22.5°	2912.7	2910.3	2911.5	2864.6	2776.8	2615.7	2393.2	2170.7	1968.7	1759.4	1521.3
25°	2936.8	2941.6	2953.6	2935.6	2869.4	2708.3	2465.4	2210.4	1981.9	1742.6	1466.0
27.5°	3036.6	3027.0	3040.2	3028.2	2953.6	2761.2	2479.8	2200.8	1953.0	1681.2	1367.4
30°	3114.8	3112.4	3135.2	3124.4	3027.0	2794.9	2466.6	2164.7	1882.1	1555.0	1212.2
32.5°	3159.3	3160.5	3166.5	3122.0	2977.7	2721.5	2401.6	2091.3	1748.6	1390.2	1010.2
35°	3173.7	3166.5	3132.8	3023.4	2826.1	2551.9	2241.7	1917.0	1567.0	1172.5	798.5
37.5°	3111.2	3073.9	2987.3	2823.7	2595.2	2339.1	2037.2	1696.9	1318.1	926.0	595.3
40°	2871.8	2822.5	2713.1	2545.9	2333.1	2085.3	1776.3	1420.3	1022.2	679.5	418.5
42.5°	2513.5	2488.2	2374.0	2228.4	2048.0	1797.9	1479.2	1118.4	756.4	469.0	267.0
45°	2081.7	2049.2	1977.1	1848.4	1706.5	1444.3	1147.3	800.9	515.9	295.8	132.3
47.5°	1561.0	1563.4	1514.1	1416.7	1277.2	1058.3	785.3	537.6	323.5	152.7	30.1
50°	1215.8	1199.0	1129.3	1029.4	867.1	704.7	507.5	339.1	170.8	31.3	2.4
52.5°	673.5	684.3	647.0	614.5	530.4	420.9	299.5	172.0	36.1	3.6	2.4
55°	164.8	174.4	167.2	170.8	176.8	157.5	121.5	33.7	3.6	2.4	2.4
57.5°	3.6	3.6	3.6	3.6	6.0	8.4	8.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	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	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
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°	547.2	547.2	547.2	547.2	547.2	547.2	547.2	547.2
2.5°	733.6	710.7	668.7	543.6	436.5	352.4	301.9	297.0
5°	908.0	846.6	757.6	509.9	322.3	204.4	147.9	139.5
7.5°	1046.3	959.7	822.6	454.6	220.1	104.6	57.7	48.1
10°	1160.5	1037.9	856.3	389.6	138.3	44.5	24.1	20.4
12.5°	1238.7	1090.8	862.3	317.5	79.4	21.6	15.6	14.4
15°	1289.2	1107.6	833.4	244.1	44.5	14.4	13.2	12.0
17.5°	1309.6	1093.2	778.1	176.8	24.1	10.8	10.8	10.8
20°	1300.0	1046.3	696.3	123.9	15.6	9.6	9.6	9.6
22.5°	1254.3	965.7	594.1	83.0	10.8	8.4	8.4	8.4
25°	1164.1	856.3	485.9	55.3	7.2	7.2	8.4	8.4
27.5°	1029.4	721.6	371.6	37.3	6.0	7.2	8.4	8.4
30°	859.9	571.2	267.0	24.1	6.0	7.2	7.2	8.4
32.5°	683.1	416.1	175.6	14.4	4.8	7.2	8.4	9.6
35°	495.5	283.8	111.8	7.2	6.0	7.2	8.4	9.6
37.5°	347.6	185.2	64.9	4.8	6.0	7.2	9.6	9.6
40°	226.1	103.4	24.1	3.6	6.0	8.4	9.6	10.8
42.5°	117.9	36.1	4.8	3.6	6.0	8.4	10.8	12.0
45°	30.1	4.8	1.2	3.6	7.2	9.6	12.0	12.0
47.5°	3.6	1.2	1.2	4.8	7.2	10.8	12.0	13.2
50°	1.2	2.4	2.4	4.8	7.2	10.8	13.2	14.4
52.5°	2.4	2.4	2.4	4.8	8.4	10.8	14.4	15.6
55°	2.4	2.4	2.4	4.8	8.4	12.0	14.4	15.6
57.5°	2.4	2.4	2.4	4.8	8.4	12.0	14.4	14.4
60°	2.4	2.4	2.4	4.8	8.4	12.0	14.4	14.4
62.5°	2.4	2.4	3.6	4.8	8.4	10.8	14.4	14.4
65°	2.4	3.6	3.6	4.8	8.4	10.8	13.2	14.4
67.5°	2.4	2.4	3.6	4.8	8.4	10.8	13.2	14.4
70°	2.4	2.4	3.6	4.8	7.2	9.6	12.0	13.2
72.5°	2.4	2.4	3.6	4.8	7.2	9.6	10.8	12.0
75°	2.4	2.4	3.6	4.8	6.0	8.4	10.8	10.8
77.5°	2.4	2.4	3.6	3.6	6.0	7.2	9.6	9.6
80°	2.4	2.4	3.6	3.6	4.8	6.0	7.2	8.4
82.5°	2.4	2.4	2.4	3.6	3.6	4.8	6.0	6.0
85°	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6
87.5°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)