

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: P1318041

Luminaire Tested: P3SQAS13R509835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318041
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: P3SQAS13R509835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

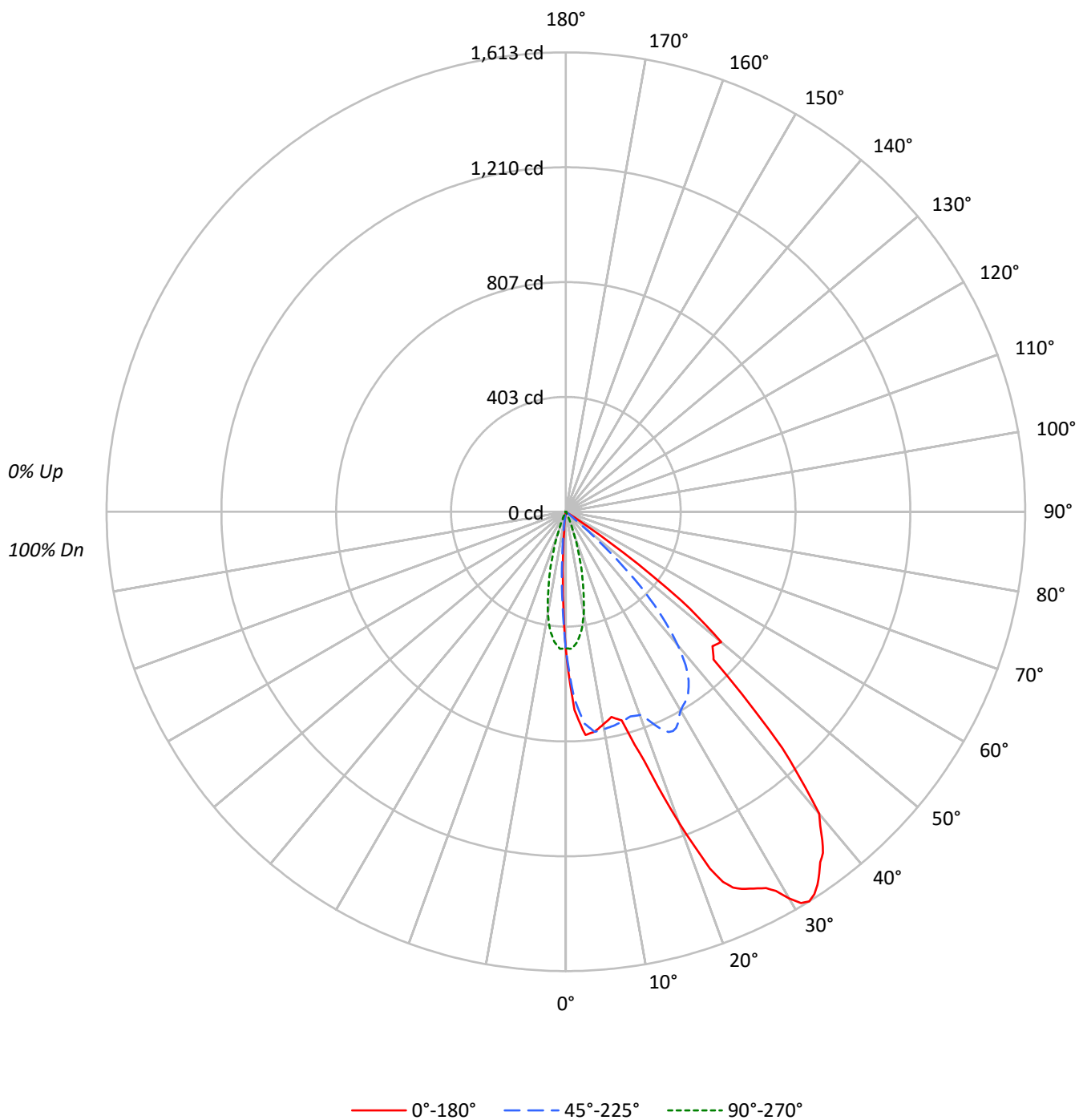
Lumens per Lamp: N/A
Luminaire Lumens: 772.1 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	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°	82546	82546	82546	82546	82546
5°	136022	129073	79335	23564	11773
10°	132559	135462	63569	1189	1591
15°	135150	135952	38067	1212	410
20°	213021	139198	15688	0	0
25°	277705	162169	3744	0	0
30°	311702	160365	159	0	0
35°	326195	157936	0	0	0
40°	311197	137208	0	0	0
45°	178700	90555	0	0	0
50°	190713	10342	0	0	0
55°	54347	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	403	0	0
75°	0	532	532	0	0
80°	0	793	1488	793	0
85°	0	1581	2964	1581	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 197332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	5.2
10°-20°	101.4	13.1
20°-30°	194.8	25.2
30°-40°	226.7	29.4
40°-50°	162.3	21.0
50°-60°	45.2	5.9
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.6	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°	336.5	43.6
0°-40°	563.2	73.0
0°-60°	770.7	99.8
0°-90°	772.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	479	479	479	479	479	
5°	787	747	459	136	68	72
15°	758	762	214	7	2	245
25°	1461	853	20	0	0	665
35°	1552	751	0	0	0	960
45°	734	372	0	0	0	690
55°	181	0	0	0	0	228
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°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	696.6	700.4	701.2	692.1	693.6	680.7	681.5	672.4	650.5	574.0	481.6
5°	786.8	784.5	786.8	783.7	786.8	779.2	774.6	770.9	746.6	638.3	458.9
7.5°	778.4	775.4	779.9	781.5	786.8	784.5	785.2	787.5	779.2	673.2	420.3
10°	758.0	757.2	759.5	759.5	765.6	766.3	769.3	773.9	774.6	685.3	363.5
12.5°	738.3	736.0	736.0	735.3	738.3	737.5	745.1	755.7	770.1	677.7	285.5
15°	758.0	755.7	752.7	744.3	738.3	731.5	732.2	739.0	762.5	658.0	213.5
17.5°	917.0	904.9	889.7	863.2	835.2	786.8	758.0	739.8	753.4	627.7	142.4
20°	1162.3	1157.0	1132.8	1089.6	1044.2	973.0	884.4	813.3	759.5	589.9	85.6
21°	1255.5	1252.4	1226.7	1186.6	1135.1	1048.8	957.9	872.3	771.6	574.0	67.4
22°	1350.9	1339.5	1319.1	1274.4	1220.6	1134.3	1032.8	938.2	795.8	553.5	51.5
23°	1412.2	1405.4	1383.4	1347.9	1296.4	1212.3	1108.6	1005.6	819.3	530.8	38.6
24°	1444.0	1441.7	1424.3	1399.3	1355.4	1269.9	1171.4	1065.4	839.0	504.3	28.0
25°	1461.4	1453.9	1443.3	1425.1	1391.8	1317.6	1229.7	1117.7	853.4	477.8	19.7
26°	1472.0	1467.5	1450.8	1434.9	1403.1	1342.6	1267.6	1149.5	857.2	445.2	13.6
27°	1484.2	1473.6	1457.7	1438.7	1403.1	1350.1	1282.0	1163.1	852.6	411.9	9.1
28°	1497.0	1489.5	1467.5	1443.3	1400.9	1350.1	1276.7	1144.9	839.0	380.1	5.3
29°	1522.0	1512.2	1484.9	1449.3	1401.6	1348.6	1256.2	1107.1	820.8	344.5	3.0
30°	1567.4	1547.0	1513.7	1463.7	1406.9	1345.6	1222.2	1050.3	806.4	304.4	0.8
31°	1603.0	1591.7	1553.1	1490.2	1422.1	1337.3	1182.0	994.2	796.6	269.6	0.0
32°	1612.9	1604.6	1576.5	1517.5	1447.8	1330.4	1136.6	939.7	789.0	231.0	0.0
33°	1601.5	1596.2	1566.7	1512.9	1454.6	1321.4	1084.3	885.9	780.7	196.1	0.0
34°	1580.3	1573.5	1547.8	1493.2	1437.2	1282.0	1034.4	845.1	768.6	163.6	0.0
35°	1551.5	1546.2	1519.7	1466.0	1405.4	1220.6	984.4	817.8	751.2	131.0	0.0
36°	1520.5	1519.0	1484.9	1431.9	1364.5	1161.6	923.8	797.4	733.7	103.7	0.0
37°	1500.1	1492.5	1455.4	1403.1	1316.1	1092.7	875.3	790.5	709.5	80.3	0.0
38°	1463.0	1464.5	1422.1	1374.4	1266.8	1032.8	836.0	785.2	682.3	58.3	0.0
39°	1419.0	1419.8	1375.9	1335.0	1208.5	970.0	803.4	779.9	648.2	37.1	0.0
40°	1384.2	1383.4	1333.5	1289.5	1145.7	910.9	786.0	772.4	610.3	21.2	0.0
42.5°	1125.2	1129.8	1135.8	1154.0	998.0	807.2	769.3	730.0	502.8	0.0	0.0
45°	733.7	751.2	755.7	810.2	809.5	764.8	730.0	654.2	371.8	0.0	0.0
47.5°	698.2	703.5	713.3	734.5	745.9	723.9	652.7	546.7	202.9	0.0	0.0
50°	711.8	711.0	713.3	713.3	692.9	636.1	535.4	403.6	38.6	0.0	0.0
52.5°	511.1	530.1	550.5	559.6	533.1	473.3	390.7	237.0	0.0	0.0	0.0
55°	181.0	174.9	170.4	186.3	182.5	205.2	169.6	55.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	3.0	6.8	9.1	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	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5



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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	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	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):

	112.5°	135°	157.5°	180°
0°	479.3	479.3	479.3	479.3
2.5°	383.9	294.6	238.5	242.3
5°	269.6	136.3	84.1	68.1
7.5°	161.3	41.6	8.3	6.8
10°	75.7	6.8	7.6	9.1
12.5°	22.7	6.1	8.3	7.6
15°	6.1	6.8	3.8	2.3
17.5°	2.3	3.0	0.0	0.0
20°	1.5	0.0	0.0	0.0
21°	1.5	0.0	0.0	0.0
22°	0.8	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°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.8	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.0	0.0
87.5°	0.8	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)