

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: P1316289

Luminaire Tested: P3SQAS13R509827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316289
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: P3SQAS13R509827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

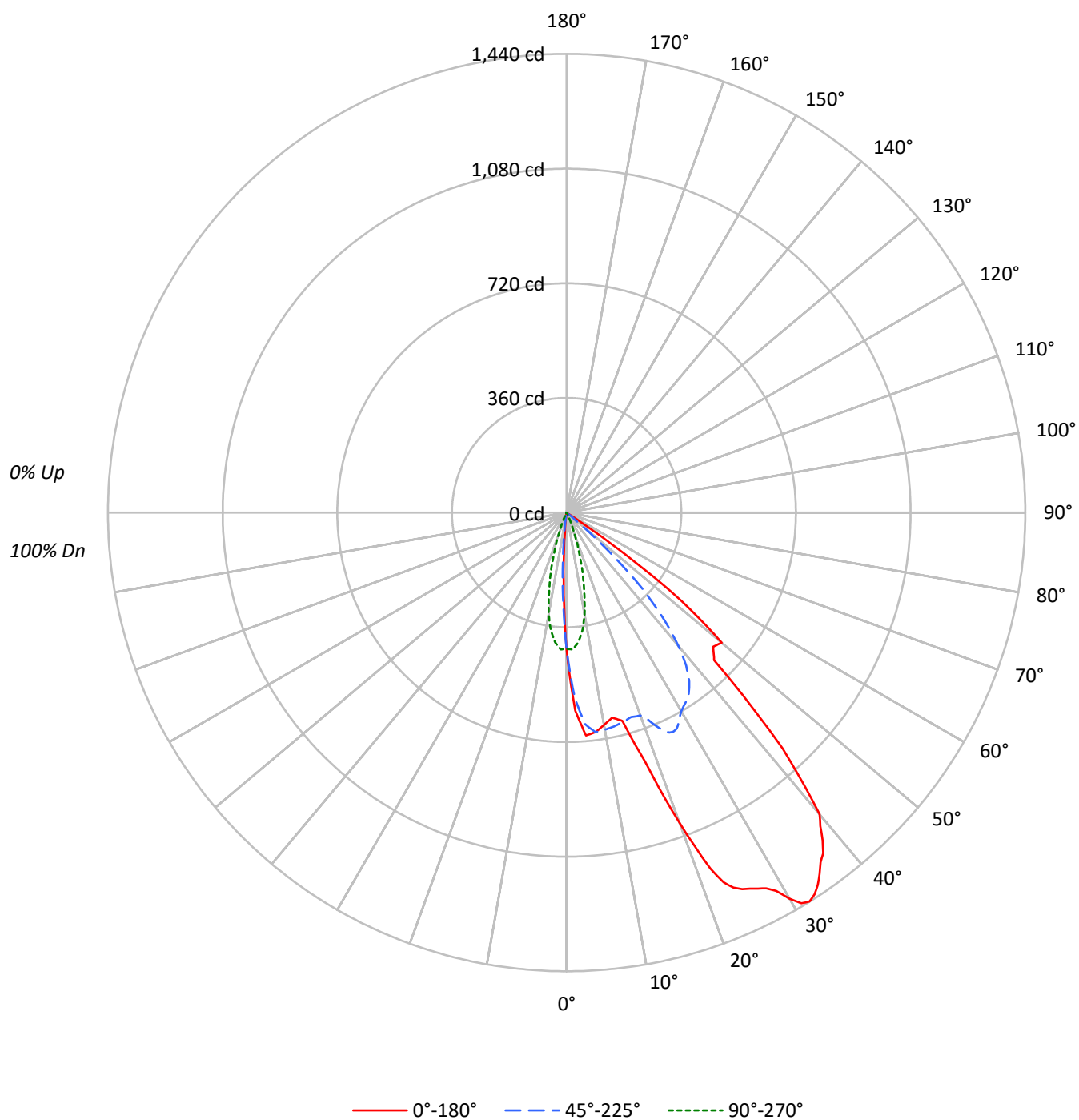
Lumens per Lamp: N/A
Luminaire Lumens: 689.0 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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°	73677	73677	73677	73677	73677
5°	121397	115190	70795	21022	10511
10°	118306	120912	56731	1067	1417
15°	120619	121332	33984	1088	357
20°	190130	124224	14002	0	0
25°	247852	144724	3344	0	0
30°	278193	143124	139	0	0
35°	291126	140948	0	0	0
40°	277743	122460	0	0	0
45°	159507	80813	0	0	0
50°	170216	9244	0	0	0
55°	48492	0	0	0	0
60°	0	0	241	0	0
65°	0	285	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	1389	694	0
85°	0	1383	2766	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 176118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	5.2
10°-20°	90.5	13.1
20°-30°	173.9	25.2
30°-40°	202.4	29.4
40°-50°	144.8	21.0
50°-60°	40.3	5.9
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	300.3	43.6
0°-40°	502.7	73.0
0°-60°	687.8	99.8
0°-90°	689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	428	428	428	428	428	
5°	702	666	410	122	61	64
15°	676	680	191	6	2	218
25°	1304	762	18	0	0	593
35°	1385	670	0	0	0	857
45°	655	332	0	0	0	616
55°	162	0	0	0	0	203
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	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°	427.8	427.8	427.8	427.8	427.8	427.8	427.8	427.8	427.8	427.8	427.8
2.5°	621.7	625.1	625.8	617.7	619.0	607.6	608.2	600.1	580.5	512.3	429.8
5°	702.2	700.1	702.2	699.5	702.2	695.4	691.4	688.0	666.3	569.7	409.5
7.5°	694.7	692.0	696.1	697.4	702.2	700.1	700.8	702.8	695.4	600.8	375.1
10°	676.5	675.8	677.8	677.8	683.2	683.9	686.6	690.7	691.4	611.6	324.4
12.5°	658.9	656.9	656.9	656.2	658.9	658.2	665.0	674.5	687.3	604.8	254.8
15°	676.5	674.5	671.8	664.3	658.9	652.8	653.5	659.6	680.5	587.3	190.6
17.5°	818.4	807.6	794.1	770.4	745.4	702.2	676.5	660.3	672.4	560.2	127.1
20°	1037.4	1032.6	1011.0	972.5	931.9	868.4	789.3	725.8	677.8	526.5	76.4
21°	1120.5	1117.8	1094.8	1059.0	1013.0	936.0	854.9	778.5	688.7	512.3	60.1
22°	1205.6	1195.5	1177.3	1137.4	1089.4	1012.4	921.8	837.3	710.3	494.0	46.0
23°	1260.4	1254.3	1234.7	1202.9	1157.0	1082.0	989.4	897.5	731.2	473.7	34.5
24°	1288.8	1286.7	1271.2	1248.9	1209.7	1133.3	1045.5	950.9	748.8	450.1	25.0
25°	1304.3	1297.6	1288.1	1271.9	1242.1	1175.9	1097.5	997.5	761.6	426.4	17.6
26°	1313.8	1309.7	1294.9	1280.7	1252.3	1198.2	1131.3	1025.9	765.0	397.4	12.2
27°	1324.6	1315.1	1300.9	1284.0	1252.3	1205.0	1144.1	1038.0	761.0	367.6	8.1
28°	1336.1	1329.3	1309.7	1288.1	1250.2	1205.0	1139.4	1021.8	748.8	339.3	4.7
29°	1358.4	1349.6	1325.3	1293.5	1250.9	1203.6	1121.2	988.0	732.6	307.5	2.7
30°	1398.9	1380.7	1350.9	1306.3	1255.7	1200.9	1090.8	937.3	719.7	271.7	0.7
31°	1430.7	1420.6	1386.1	1330.0	1269.2	1193.5	1054.9	887.3	711.0	240.6	0.0
32°	1439.5	1432.0	1407.0	1354.3	1292.1	1187.4	1014.4	838.7	704.2	206.1	0.0
33°	1429.3	1424.6	1398.3	1350.3	1298.2	1179.3	967.8	790.7	696.8	175.0	0.0
34°	1410.4	1404.3	1381.4	1332.7	1282.7	1144.1	923.2	754.2	685.9	146.0	0.0
35°	1384.7	1380.0	1356.4	1308.4	1254.3	1089.4	878.6	729.9	670.4	116.9	0.0
36°	1357.0	1355.7	1325.3	1278.0	1217.8	1036.7	824.5	711.6	654.9	92.6	0.0
37°	1338.8	1332.0	1298.9	1252.3	1174.6	975.2	781.2	705.5	633.2	71.6	0.0
38°	1305.7	1307.0	1269.2	1226.6	1130.6	921.8	746.1	700.8	608.9	52.0	0.0
39°	1266.5	1267.1	1227.9	1191.5	1078.6	865.7	717.0	696.1	578.5	33.1	0.0
40°	1235.4	1234.7	1190.1	1150.9	1022.5	813.0	701.5	689.3	544.7	18.9	0.0
42.5°	1004.3	1008.3	1013.7	1029.9	890.7	720.4	686.6	651.5	448.7	0.0	0.0
45°	654.9	670.4	674.5	723.1	722.4	682.6	651.5	583.9	331.8	0.0	0.0
47.5°	623.1	627.8	636.6	655.5	665.7	646.1	582.5	487.9	181.1	0.0	0.0
50°	635.3	634.6	636.6	636.6	618.4	567.7	477.8	360.2	34.5	0.0	0.0
52.5°	456.2	473.1	491.3	499.4	475.8	422.4	348.7	211.5	0.0	0.0	0.0
55°	161.5	156.1	152.1	166.2	162.9	183.1	151.4	49.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.7	6.1	8.1	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	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4



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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	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
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°	427.8	427.8	427.8	427.8
2.5°	342.6	262.9	212.9	216.3
5°	240.6	121.6	75.0	60.8
7.5°	143.9	37.2	7.4	6.1
10°	67.6	6.1	6.8	8.1
12.5°	20.3	5.4	7.4	6.8
15°	5.4	6.1	3.4	2.0
17.5°	2.0	2.7	0.0	0.0
20°	1.4	0.0	0.0	0.0
21°	1.4	0.0	0.0	0.0
22°	0.7	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°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.7	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)