

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: P1306769

Luminaire Tested: P3SQAS09R509027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306769
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: P3SQAS09R509027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

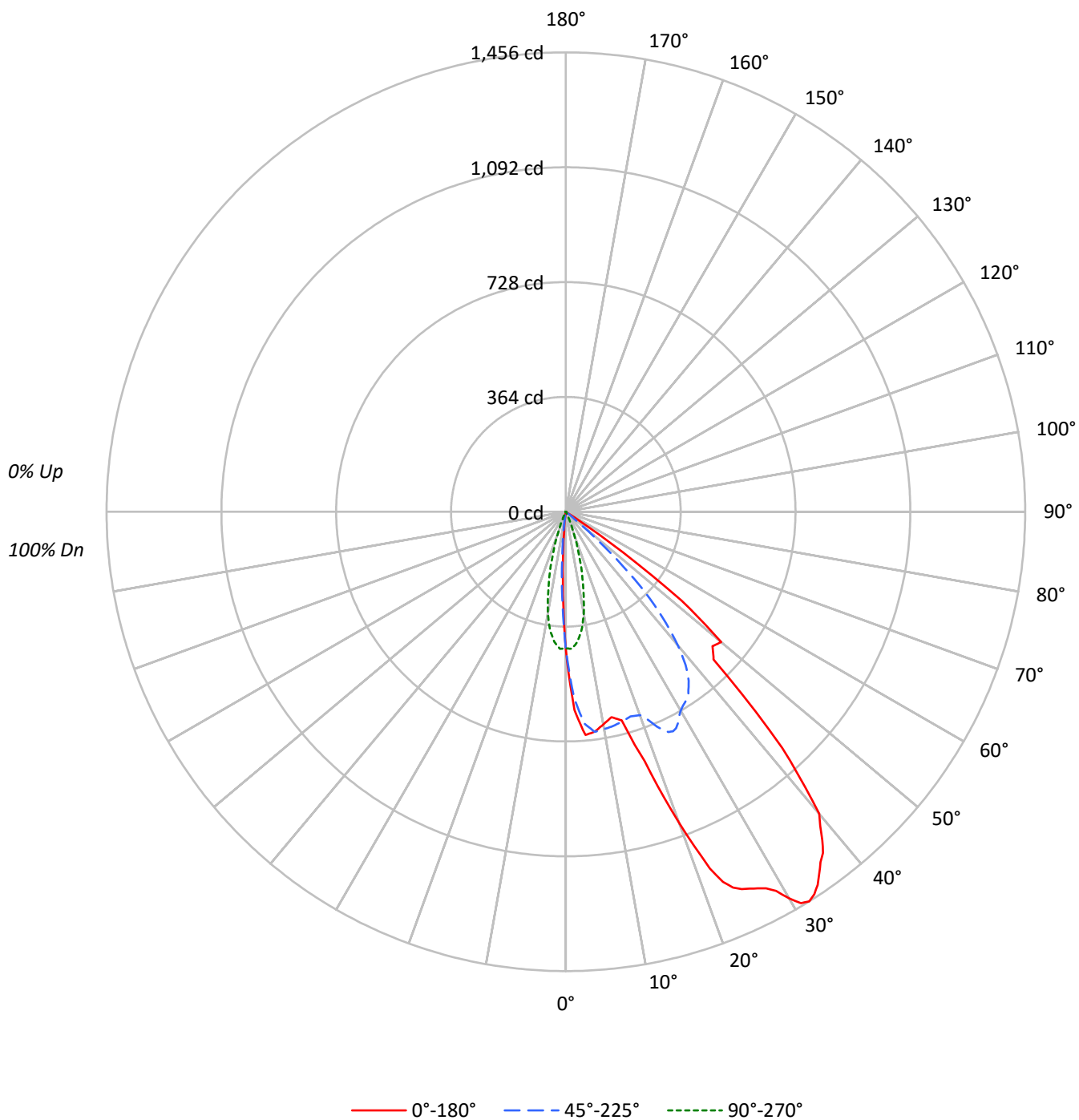
Lumens per Lamp: N/A
Luminaire Lumens: 697.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	74538	74538	74538	74538	74538
5°	122797	116539	71624	21282	10632
10°	119670	122311	57395	1084	1434
15°	122009	122740	34376	1105	374
20°	192329	125672	14167	0	0
25°	250740	146416	3382	0	0
30°	281435	144794	139	0	0
35°	294511	142588	0	0	0
40°	280958	123876	0	0	0
45°	161358	81763	0	0	0
50°	172172	9351	0	0	0
55°	49063	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: 178164 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	5.2
10°-20°	91.6	13.1
20°-30°	175.9	25.2
30°-40°	204.7	29.4
40°-50°	146.5	21.0
50°-60°	40.8	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°	303.8	43.6
0°-40°	508.5	73.0
0°-60°	695.8	99.8
0°-90°	697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	433	433	433	433	433	
5°	710	674	414	123	62	65
15°	684	688	193	6	2	221
25°	1320	770	18	0	0	600
35°	1401	678	0	0	0	867
45°	662	336	0	0	0	623
55°	163	0	0	0	0	206
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°	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8	432.8
2.5°	629.0	632.4	633.1	624.9	626.2	614.6	615.3	607.1	587.3	518.2	434.8
5°	710.3	708.3	710.3	707.6	710.3	703.5	699.4	696.0	674.1	576.3	414.3
7.5°	702.8	700.1	704.2	705.5	710.3	708.3	709.0	711.0	703.5	607.8	379.4
10°	684.3	683.7	685.7	685.7	691.2	691.9	694.6	698.7	699.4	618.7	328.2
12.5°	666.6	664.5	664.5	663.8	666.6	665.9	672.7	682.3	695.3	611.9	257.7
15°	684.3	682.3	679.6	672.0	666.6	660.4	661.1	667.2	688.4	594.1	192.8
17.5°	827.9	817.0	803.3	779.4	754.1	710.3	684.3	667.9	680.2	566.8	128.5
20°	1049.4	1044.6	1022.8	983.8	942.8	878.5	798.5	734.2	685.7	532.6	77.3
21°	1133.5	1130.8	1107.5	1071.3	1024.8	946.9	864.8	787.6	696.6	518.2	60.8
22°	1219.6	1209.4	1190.9	1150.6	1102.1	1024.1	932.5	847.1	718.5	499.8	46.5
23°	1275.0	1268.9	1249.0	1216.9	1170.4	1094.5	1000.9	907.9	739.7	479.2	34.9
24°	1303.7	1301.7	1286.0	1263.4	1223.7	1146.5	1057.6	961.9	757.5	455.3	25.3
25°	1319.5	1312.6	1303.1	1286.6	1256.6	1189.6	1110.3	1009.1	770.5	431.4	17.8
26°	1329.0	1324.9	1309.9	1295.5	1266.8	1212.1	1144.4	1037.8	773.9	402.0	12.3
27°	1340.0	1330.4	1316.0	1298.9	1266.8	1219.0	1157.4	1050.1	769.8	371.9	8.2
28°	1351.6	1344.8	1324.9	1303.1	1264.8	1219.0	1152.6	1033.7	757.5	343.2	4.8
29°	1374.2	1365.3	1340.7	1308.5	1265.4	1217.6	1134.2	999.5	741.1	311.1	2.7
30°	1415.2	1396.7	1366.6	1321.5	1270.2	1214.9	1103.4	948.2	728.1	274.8	0.7
31°	1447.3	1437.0	1402.2	1345.4	1283.9	1207.3	1067.2	897.6	719.2	243.4	0.0
32°	1456.2	1448.7	1423.4	1370.0	1307.2	1201.2	1026.2	848.4	712.4	208.5	0.0
33°	1445.9	1441.1	1414.5	1365.9	1313.3	1193.0	979.0	799.9	704.9	177.1	0.0
34°	1426.8	1420.6	1397.4	1348.2	1297.6	1157.4	933.9	763.0	693.9	147.7	0.0
35°	1400.8	1396.0	1372.1	1323.6	1268.9	1102.1	888.8	738.3	678.2	118.3	0.0
36°	1372.8	1371.4	1340.7	1292.8	1231.9	1048.7	834.1	719.9	662.5	93.7	0.0
37°	1354.3	1347.5	1314.0	1266.8	1188.2	986.5	790.3	713.7	640.6	72.5	0.0
38°	1320.8	1322.2	1283.9	1240.8	1143.8	932.5	754.8	709.0	616.0	52.6	0.0
39°	1281.2	1281.9	1242.2	1205.3	1091.1	875.8	725.4	704.2	585.2	33.5	0.0
40°	1249.7	1249.0	1203.9	1164.3	1034.4	822.4	709.6	697.3	551.0	19.1	0.0
42.5°	1015.9	1020.0	1025.5	1041.9	901.1	728.8	694.6	659.0	453.9	0.0	0.0
45°	662.5	678.2	682.3	731.5	730.8	690.5	659.0	590.7	335.7	0.0	0.0
47.5°	630.3	635.1	644.0	663.1	673.4	653.6	589.3	493.6	183.2	0.0	0.0
50°	642.6	642.0	644.0	644.0	625.5	574.3	483.3	364.4	34.9	0.0	0.0
52.5°	461.5	478.6	497.0	505.2	481.3	427.3	352.8	214.0	0.0	0.0	0.0
55°	163.4	157.9	153.8	168.2	164.8	185.3	153.1	49.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.7	6.2	8.2	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°	432.8	432.8	432.8	432.8
2.5°	346.6	265.9	215.4	218.8
5°	243.4	123.1	75.9	61.5
7.5°	145.6	37.6	7.5	6.2
10°	68.4	6.2	6.8	8.2
12.5°	20.5	5.5	7.5	6.8
15°	5.5	6.2	3.4	2.1
17.5°	2.1	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)