

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: P1313290

Luminaire Tested: P3SQAS09R509730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313290
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: P3SQAS09R509730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

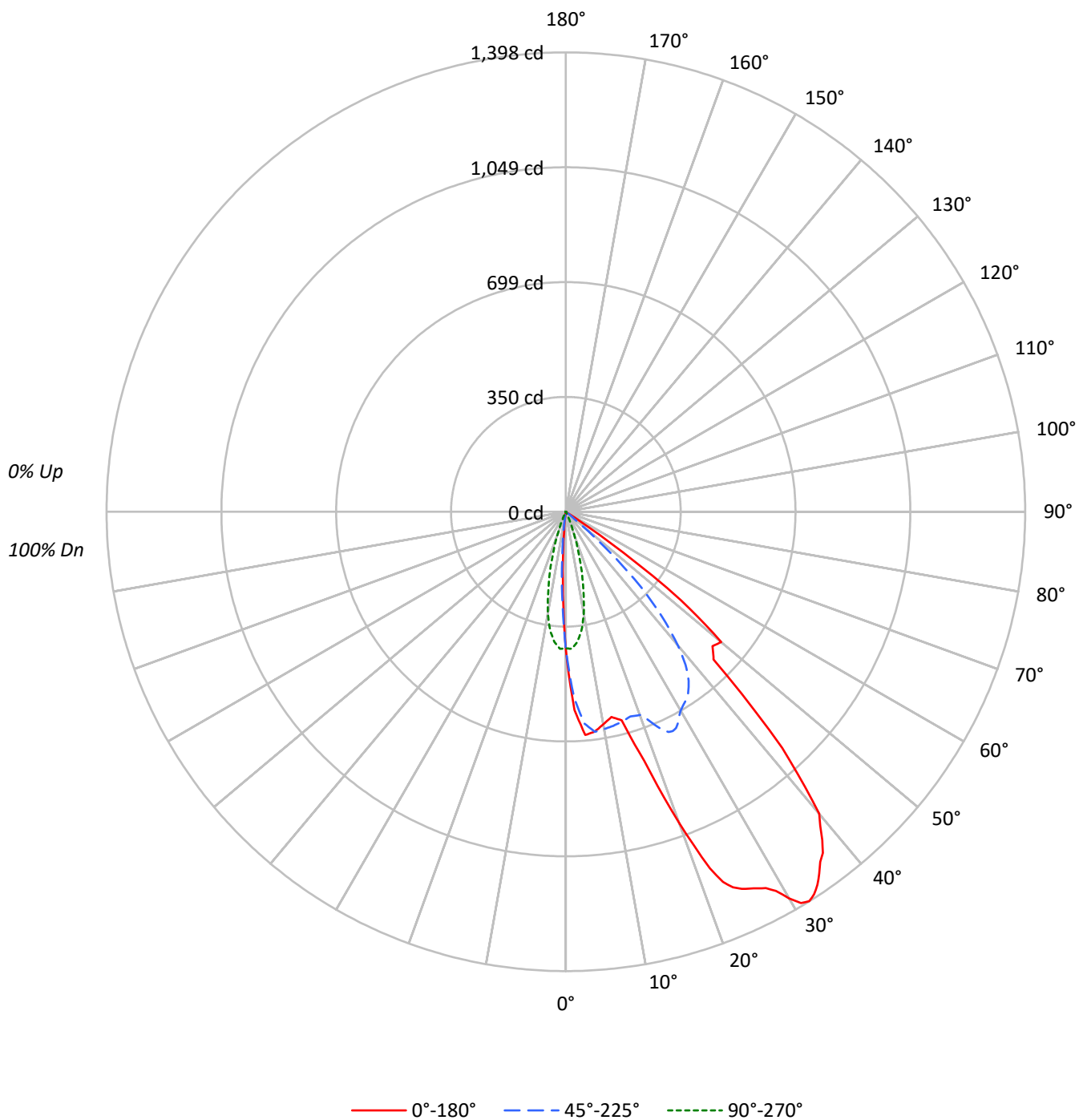
Lumens per Lamp: N/A
Luminaire Lumens: 669.1 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	71541	71541	71541	71541	71541
5°	117870	111854	68755	20417	10217
10°	114861	117397	55087	1032	1382
15°	117106	117819	32985	1052	357
20°	184613	120632	13581	0	0
25°	240669	140525	3249	0	0
30°	270119	138967	139	0	0
35°	282674	136848	0	0	0
40°	269672	118908	0	0	0
45°	154880	78475	0	0	0
50°	165260	8976	0	0	0
55°	47081	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	1289	694	0
85°	0	1383	2569	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 171003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	5.2
10°-20°	87.9	13.1
20°-30°	168.8	25.2
30°-40°	196.5	29.4
40°-50°	140.6	21.0
50°-60°	39.1	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°	291.6	43.6
0°-40°	488.1	73.0
0°-60°	667.9	99.8
0°-90°	669.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	415	415	415	415	415	
5°	682	647	398	118	59	63
15°	657	661	185	6	2	212
25°	1266	740	17	0	0	576
35°	1344	651	0	0	0	832
45°	636	322	0	0	0	598
55°	157	0	0	0	0	197
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°	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4
2.5°	603.7	607.0	607.6	599.8	601.1	589.9	590.6	582.7	563.7	497.4	417.3
5°	681.8	679.8	681.8	679.2	681.8	675.2	671.3	668.0	647.0	553.2	397.7
7.5°	674.6	671.9	675.9	677.2	681.8	679.8	680.5	682.4	675.2	583.4	364.2
10°	656.8	656.2	658.2	658.2	663.4	664.1	666.7	670.6	671.3	593.9	315.0
12.5°	639.8	637.8	637.8	637.2	639.8	639.1	645.7	654.9	667.3	587.3	247.4
15°	656.8	654.9	652.3	645.0	639.8	633.9	634.5	640.4	660.8	570.2	185.0
17.5°	794.6	784.2	771.0	748.1	723.8	681.8	656.8	641.1	652.9	544.0	123.4
20°	1007.3	1002.7	981.7	944.3	904.9	843.2	766.4	704.8	658.2	511.2	74.1
21°	1088.0	1085.3	1063.0	1028.3	983.6	908.8	830.1	755.9	668.7	497.4	58.4
22°	1170.6	1160.8	1143.1	1104.4	1057.8	983.0	895.0	813.0	689.7	479.7	44.6
23°	1223.8	1217.9	1198.9	1168.0	1123.4	1050.6	960.7	871.4	710.0	460.0	33.5
24°	1251.4	1249.4	1234.3	1212.6	1174.6	1100.4	1015.1	923.3	727.1	437.0	24.3
25°	1266.5	1259.9	1250.7	1235.0	1206.1	1141.8	1065.7	968.5	739.5	414.1	17.1
26°	1275.6	1271.7	1257.3	1243.5	1215.9	1163.4	1098.5	996.1	742.8	385.8	11.8
27°	1286.1	1277.0	1263.2	1246.8	1215.9	1170.0	1110.9	1007.9	738.9	357.0	7.9
28°	1297.3	1290.7	1271.7	1250.7	1214.0	1170.0	1106.3	992.2	727.1	329.4	4.6
29°	1318.9	1310.4	1286.8	1256.0	1214.6	1168.7	1088.6	959.4	711.3	298.6	2.6
30°	1358.3	1340.6	1311.7	1268.4	1219.2	1166.1	1059.1	910.1	698.8	263.8	0.7
31°	1389.2	1379.3	1345.9	1291.4	1232.3	1158.8	1024.3	861.6	690.3	233.6	0.0
32°	1397.7	1390.5	1366.2	1315.0	1254.6	1152.9	984.9	814.3	683.8	200.1	0.0
33°	1387.8	1383.3	1357.7	1311.1	1260.5	1145.1	939.7	767.7	676.5	170.0	0.0
34°	1369.5	1363.6	1341.3	1294.0	1245.5	1110.9	896.4	732.3	666.0	141.7	0.0
35°	1344.5	1339.9	1317.0	1270.4	1217.9	1057.8	853.1	708.7	650.9	113.5	0.0
36°	1317.6	1316.3	1286.8	1240.9	1182.5	1006.6	800.6	691.0	635.9	89.9	0.0
37°	1299.9	1293.4	1261.2	1215.9	1140.5	946.9	758.6	685.1	614.9	69.6	0.0
38°	1267.8	1269.1	1232.3	1191.0	1097.8	895.0	724.4	680.5	591.2	50.5	0.0
39°	1229.7	1230.4	1192.3	1156.9	1047.3	840.6	696.2	675.9	561.7	32.2	0.0
40°	1199.5	1198.9	1155.6	1117.5	992.8	789.4	681.1	669.3	528.9	18.4	0.0
42.5°	975.1	979.0	984.3	1000.0	864.9	699.5	666.7	632.6	435.7	0.0	0.0
45°	635.9	650.9	654.9	702.1	701.5	662.8	632.6	567.0	322.2	0.0	0.0
47.5°	605.0	609.6	618.1	636.5	646.4	627.3	565.6	473.8	175.9	0.0	0.0
50°	616.8	616.2	618.1	618.1	600.4	551.2	463.9	349.8	33.5	0.0	0.0
52.5°	442.9	459.3	477.1	484.9	462.0	410.1	338.6	205.4	0.0	0.0	0.0
55°	156.8	151.6	147.6	161.4	158.1	177.8	147.0	47.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.6	5.9	7.9	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	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3



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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	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.3
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°	415.4	415.4	415.4	415.4
2.5°	332.7	255.3	206.7	210.0
5°	233.6	118.1	72.8	59.1
7.5°	139.8	36.1	7.2	5.9
10°	65.6	5.9	6.6	7.9
12.5°	19.7	5.2	7.2	6.6
15°	5.2	5.9	3.3	2.0
17.5°	2.0	2.6	0.0	0.0
20°	1.3	0.0	0.0	0.0
21°	1.3	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)