

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: P1307887

Luminaire Tested: P3SQAS09R509030DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307887
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: P3SQAS09R509030DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

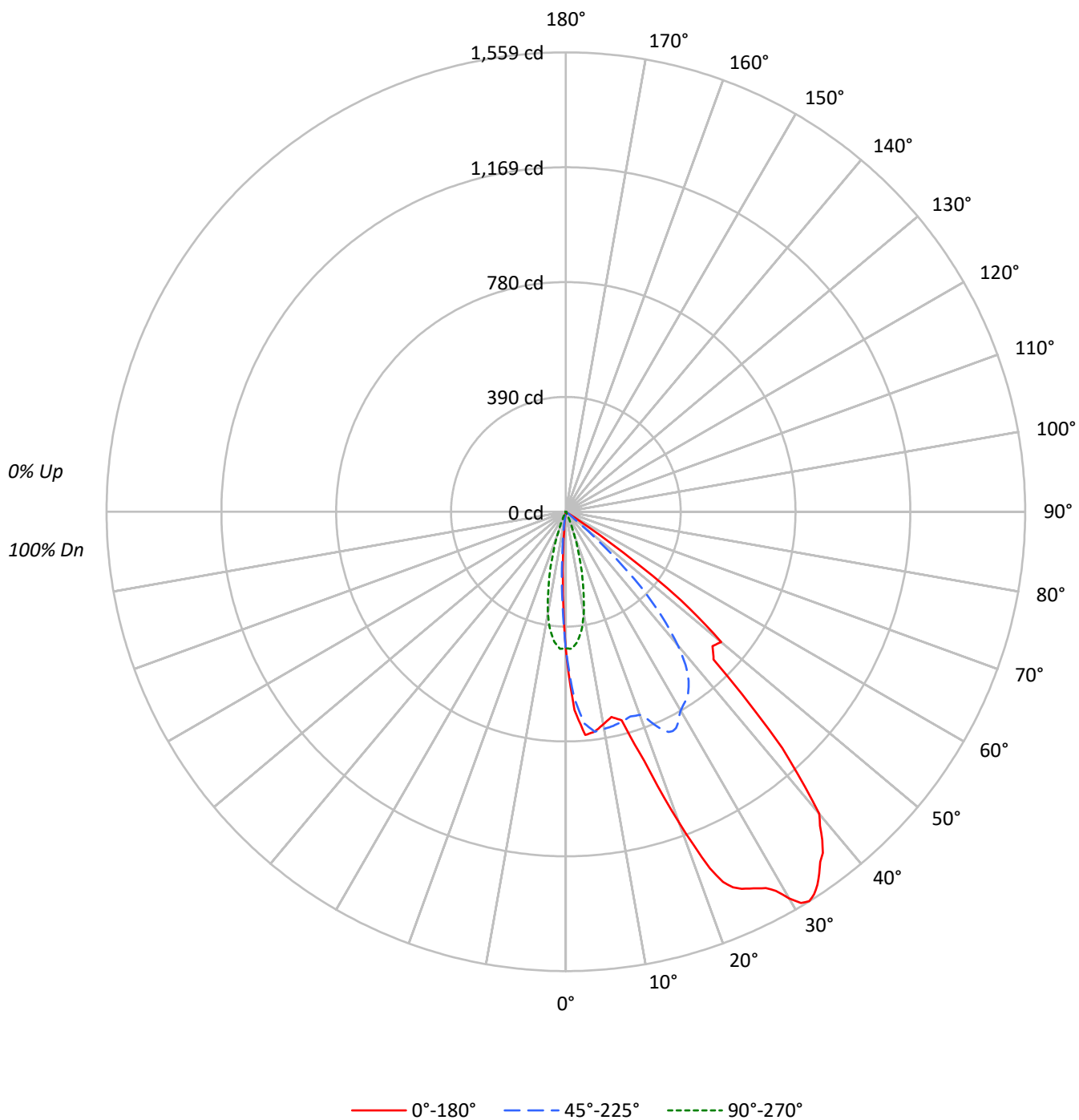
Lumens per Lamp: N/A
Luminaire Lumens: 746.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	100	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°	79774	79774	79774	79774	79774
5°	131441	124733	76655	22768	11393
10°	128099	130897	61418	1154	1539
15°	130603	131370	36783	1177	392
20°	205855	134506	15157	0	0
25°	268356	156696	3611	0	0
30°	301222	154976	139	0	0
35°	315220	152617	0	0	0
40°	300720	132599	0	0	0
45°	172684	87511	0	0	0
50°	184283	9994	0	0	0
55°	52516	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	1488	694	0
85°	0	1383	2964	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 190683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	5.2
10°-20°	98.0	13.1
20°-30°	188.3	25.2
30°-40°	219.1	29.4
40°-50°	156.8	21.0
50°-60°	43.6	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°	325.2	43.6
0°-40°	544.3	73.0
0°-60°	744.7	99.8
0°-90°	746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	463	463	463	463	463	
5°	760	722	443	132	66	70
15°	732	737	206	7	2	236
25°	1412	825	19	0	0	642
35°	1499	726	0	0	0	928
45°	709	359	0	0	0	667
55°	175	0	0	0	0	220
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°	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2
2.5°	673.2	676.8	677.6	668.8	670.3	657.8	658.5	649.8	628.5	554.6	465.4
5°	760.3	758.1	760.3	757.3	760.3	752.9	748.5	744.9	721.5	616.8	443.4
7.5°	752.2	749.3	753.7	755.1	760.3	758.1	758.8	761.0	752.9	650.5	406.1
10°	732.5	731.7	733.9	733.9	739.8	740.5	743.4	747.8	748.5	662.2	351.2
12.5°	713.4	711.2	711.2	710.5	713.4	712.7	720.0	730.3	744.2	654.9	275.9
15°	732.5	730.3	727.3	719.3	713.4	706.8	707.6	714.2	736.8	635.9	206.3
17.5°	886.1	874.4	859.8	834.2	807.1	760.3	732.5	714.9	728.1	606.6	137.6
20°	1123.2	1118.1	1094.7	1052.9	1009.0	940.3	854.6	785.9	733.9	570.0	82.7
21°	1213.2	1210.3	1185.4	1146.6	1096.8	1013.4	925.6	842.9	745.6	554.6	65.1
22°	1305.4	1294.4	1274.7	1231.5	1179.5	1096.1	998.1	906.6	769.0	534.9	49.8
23°	1364.7	1358.1	1336.9	1302.5	1252.7	1171.5	1071.2	971.7	791.7	512.9	37.3
24°	1395.4	1393.2	1376.4	1352.2	1309.8	1227.1	1132.0	1029.5	810.7	487.3	27.1
25°	1412.2	1404.9	1394.7	1377.1	1344.9	1273.2	1188.3	1080.0	824.6	461.7	19.0
26°	1422.5	1418.1	1402.0	1386.6	1355.9	1297.3	1224.9	1110.7	828.3	430.3	13.2
27°	1434.2	1423.9	1408.6	1390.3	1355.9	1304.7	1238.8	1123.9	823.9	398.1	8.8
28°	1446.6	1439.3	1418.1	1394.7	1353.7	1304.7	1233.7	1106.4	810.7	367.3	5.1
29°	1470.8	1461.2	1434.9	1400.5	1354.4	1303.2	1213.9	1069.8	793.2	332.9	2.9
30°	1514.7	1494.9	1462.7	1414.4	1359.5	1300.3	1181.0	1014.9	779.3	294.2	0.7
31°	1549.0	1538.1	1500.8	1440.0	1374.2	1292.2	1142.2	960.7	769.8	260.5	0.0
32°	1558.6	1550.5	1523.4	1466.4	1399.0	1285.6	1098.3	908.1	762.5	223.2	0.0
33°	1547.6	1542.5	1513.9	1462.0	1405.6	1276.8	1047.8	856.1	754.4	189.5	0.0
34°	1527.1	1520.5	1495.6	1442.9	1388.8	1238.8	999.5	816.6	742.7	158.1	0.0
35°	1499.3	1494.2	1468.6	1416.6	1358.1	1179.5	951.2	790.3	725.9	126.6	0.0
36°	1469.3	1467.8	1434.9	1383.7	1318.6	1122.5	892.7	770.5	709.0	100.2	0.0
37°	1449.5	1442.2	1406.4	1355.9	1271.7	1055.9	845.9	763.9	685.6	77.6	0.0
38°	1413.7	1415.1	1374.2	1328.1	1224.2	998.1	807.8	758.8	659.3	56.3	0.0
39°	1371.2	1372.0	1329.5	1290.0	1167.8	937.3	776.4	753.7	626.4	35.9	0.0
40°	1337.6	1336.9	1288.6	1246.1	1107.1	880.3	759.5	746.4	589.8	20.5	0.0
42.5°	1087.3	1091.7	1097.6	1115.1	964.4	780.0	743.4	705.4	485.9	0.0	0.0
45°	709.0	725.9	730.3	782.9	782.2	739.0	705.4	632.2	359.3	0.0	0.0
47.5°	674.6	679.8	689.3	709.8	720.7	699.5	630.7	528.3	196.1	0.0	0.0
50°	687.8	687.1	689.3	689.3	669.5	614.6	517.3	390.0	37.3	0.0	0.0
52.5°	493.9	512.2	532.0	540.7	515.1	457.3	377.6	229.0	0.0	0.0	0.0
55°	174.9	169.0	164.6	180.0	176.3	198.3	163.9	53.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.9	6.6	8.8	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	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	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	0.7	0.7	0.7	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	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°	463.2	463.2	463.2	463.2
2.5°	371.0	284.6	230.5	234.2
5°	260.5	131.7	81.2	65.9
7.5°	155.9	40.2	8.0	6.6
10°	73.2	6.6	7.3	8.8
12.5°	22.0	5.9	8.0	7.3
15°	5.9	6.6	3.7	2.2
17.5°	2.2	2.9	0.0	0.0
20°	1.5	0.0	0.0	0.0
21°	1.5	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)