

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: P1312881

Luminaire Tested: P3SQAS02R209730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R209730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

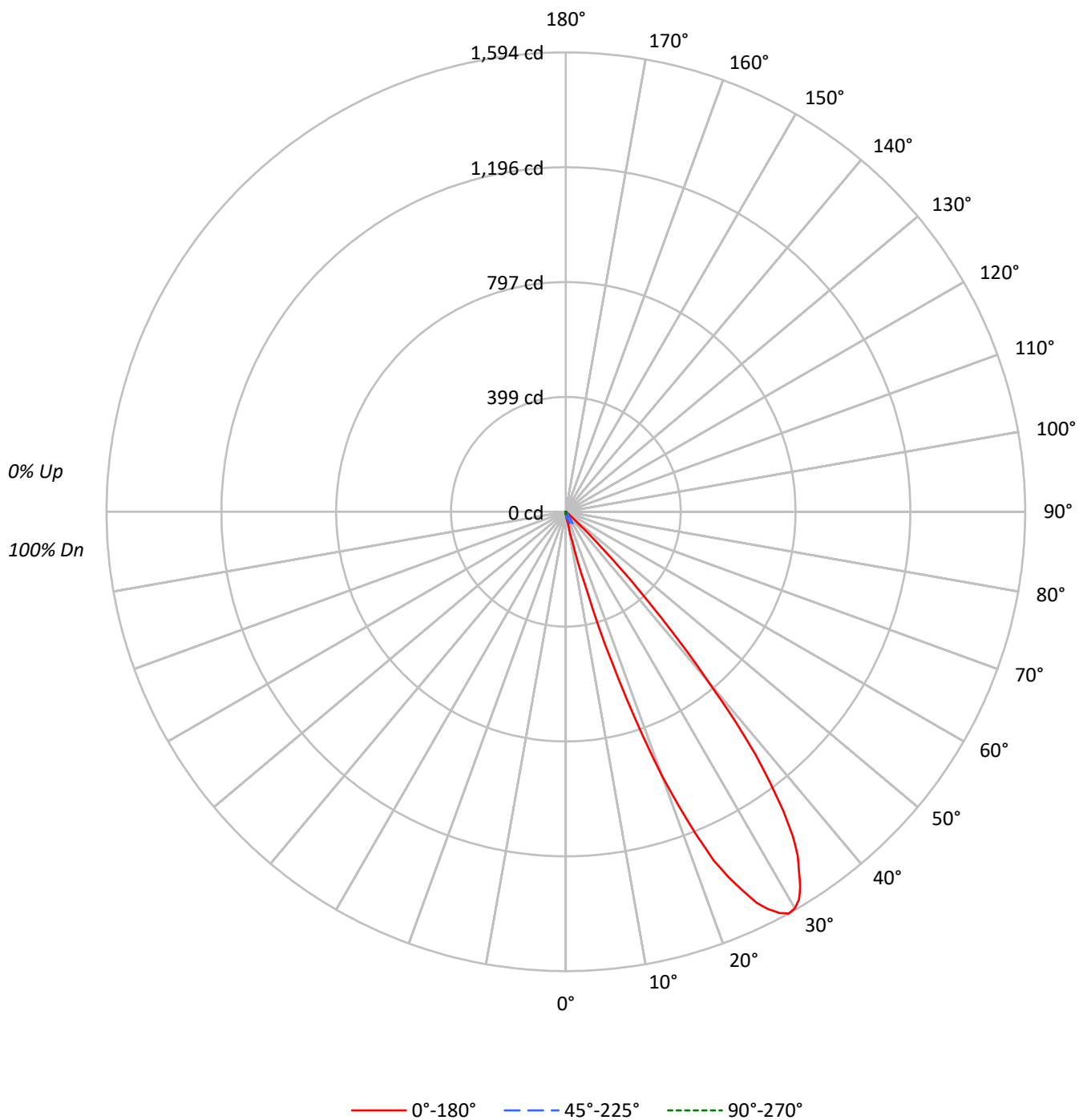
Lumens per Lamp: N/A
Luminaire Lumens: 220.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1361	1361	1361	1361	1361
5°	2956	2075	1245	571	415
10°	7345	3672	874	122	0
15°	51689	5028	499	0	0
20°	178639	8467	202	0	0
25°	275368	10813	76	0	0
30°	316057	8352	0	0	0
35°	288666	3175	0	0	0
40°	173044	1484	0	0	0
45°	42526	682	0	0	0
50°	4689	188	0	0	0
55°	661	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	352	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 45351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	17.2	7.8
20°-30°	86.9	39.5
30°-40°	94.0	42.7
40°-50°	19.9	9.0
50°-60°	0.6	0.3
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	105.0	47.7
0°-40°	199.0	90.5
0°-60°	219.5	99.8
0°-90°	220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	220.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	12	7	3	2	2
15°	290	28	3	0	0	121
25°	1449	57	0	0	0	655
35°	1373	15	0	0	0	810
45°	175	3	0	0	0	192
55°	2	0	0	0	0	4
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	10.7	10.5	10.7	10.5	10.7	10.7	10.7	10.5	10.5	10.5	10.5
5°	17.1	17.1	16.8	17.1	17.1	17.1	17.1	16.8	16.8	16.6	16.6
7.5°	26.9	26.9	26.7	26.7	26.9	27.1	26.3	26.7	26.7	26.7	26.5
10°	42.0	42.9	42.0	43.1	42.2	41.6	42.7	41.6	41.6	41.4	40.7
12.5°	105.9	103.5	102.0	98.2	102.0	99.1	99.8	99.1	96.9	94.1	92.3
15°	289.9	289.9	281.4	292.8	284.4	287.5	271.7	272.0	263.9	255.1	250.3
17.5°	606.1	611.5	605.9	602.4	594.9	584.2	579.8	568.7	554.0	536.9	535.0
20°	974.7	951.8	962.5	952.6	946.5	933.4	918.7	909.5	896.6	875.0	843.0
21°	1090.7	1089.8	1089.6	1089.4	1080.4	1059.0	1045.6	1027.3	1009.1	986.8	960.1
22°	1207.5	1211.7	1213.5	1200.8	1182.4	1172.8	1163.6	1138.4	1109.7	1098.1	1066.4
23°	1314.8	1310.8	1299.4	1293.5	1279.3	1276.5	1249.1	1233.1	1205.1	1192.4	1154.8
24°	1387.8	1385.9	1380.6	1371.9	1360.5	1343.0	1326.6	1301.4	1278.4	1257.6	1222.6
25°	1449.1	1450.8	1441.2	1435.3	1423.1	1403.4	1383.2	1355.7	1334.2	1309.9	1269.5
26°	1509.7	1497.5	1489.8	1481.0	1467.7	1445.2	1425.7	1401.0	1374.9	1347.8	1308.2
27°	1547.1	1536.2	1524.6	1516.0	1500.7	1479.3	1458.5	1431.2	1402.1	1374.7	1334.0
28°	1576.7	1564.6	1553.2	1543.0	1525.5	1502.5	1477.5	1449.8	1419.6	1391.3	1349.8
29°	1594.2	1579.9	1567.7	1556.1	1540.1	1515.2	1490.0	1460.3	1431.2	1401.6	1359.2
30°	1589.3	1577.1	1565.3	1553.5	1537.3	1513.9	1488.9	1460.5	1431.2	1402.1	1359.0
31°	1570.5	1555.4	1546.9	1535.1	1521.1	1497.2	1475.8	1444.7	1418.2	1386.7	1343.6
32°	1534.4	1524.8	1513.4	1504.2	1490.7	1465.3	1444.3	1418.9	1387.6	1361.8	1316.5
33°	1485.4	1476.4	1470.8	1460.0	1446.9	1429.4	1404.2	1381.1	1345.8	1319.4	1274.1
34°	1438.6	1427.2	1413.0	1409.9	1398.6	1376.0	1353.3	1329.6	1298.1	1264.4	1218.7
35°	1373.0	1361.1	1348.0	1349.1	1335.5	1309.3	1286.1	1259.6	1229.6	1190.0	1146.7
36°	1285.2	1277.3	1275.4	1270.1	1254.6	1223.3	1201.2	1167.9	1142.8	1094.4	1057.2
37°	1178.2	1181.1	1166.8	1160.1	1141.9	1120.0	1107.6	1064.9	1035.6	999.2	948.9
38°	1070.1	1066.0	1049.1	1053.3	1028.3	1005.6	970.4	945.0	912.2	878.5	838.2
39°	935.1	924.9	904.7	905.6	886.8	861.2	827.1	797.1	777.4	745.0	706.5
40°	769.7	765.4	758.4	746.8	722.0	710.9	680.5	648.1	631.5	586.6	567.8
42.5°	427.1	421.2	409.4	405.2	392.1	379.0	361.2	339.6	329.1	315.7	286.0
45°	174.6	186.2	183.4	180.1	170.0	170.7	158.0	159.5	147.9	140.0	134.6
47.5°	38.5	41.8	42.0	40.5	42.0	40.7	40.0	38.9	39.2	39.8	38.3
50°	17.5	17.3	17.7	17.5	17.3	17.1	16.8	16.2	16.6	16.2	15.8
52.5°	6.8	7.0	7.0	6.6	6.8	6.8	6.8	6.6	6.6	6.6	6.6
55°	2.2	2.2	2.2	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.0
57.5°	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	10.1	9.2	8.5	7.9	6.6	5.5	5.0	5.0
5°	15.5	12.0	9.0	7.2	5.0	3.3	2.6	2.4
7.5°	23.4	16.2	9.4	6.1	3.3	1.8	1.1	0.9
10°	33.9	21.0	9.8	5.0	2.0	0.7	0.0	0.0
12.5°	59.3	25.2	9.8	3.9	0.9	0.0	0.0	0.0
15°	135.9	28.2	9.4	2.8	0.2	0.0	0.0	0.0
17.5°	282.2	35.4	8.3	2.0	0.0	0.0	0.0	0.0
20°	450.7	46.2	6.6	1.1	0.0	0.0	0.0	0.0
21°	520.1	49.9	5.9	0.9	0.0	0.0	0.0	0.0
22°	570.0	53.4	5.3	0.7	0.0	0.0	0.0	0.0
23°	624.9	55.6	4.6	0.4	0.0	0.0	0.0	0.0
24°	665.4	56.9	3.9	0.4	0.0	0.0	0.0	0.0
25°	690.5	56.9	3.5	0.4	0.0	0.0	0.0	0.0
26°	705.4	55.6	3.1	0.2	0.0	0.0	0.0	0.0
27°	708.9	53.4	2.6	0.2	0.0	0.0	0.0	0.0
28°	704.5	50.5	2.2	0.0	0.0	0.0	0.0	0.0
29°	690.7	46.4	2.0	0.0	0.0	0.0	0.0	0.0
30°	675.9	42.0	1.5	0.0	0.0	0.0	0.0	0.0
31°	650.5	36.1	1.3	0.0	0.0	0.0	0.0	0.0
32°	621.2	30.0	1.1	0.0	0.0	0.0	0.0	0.0
33°	582.0	23.6	0.9	0.0	0.0	0.0	0.0	0.0
34°	524.2	18.6	0.9	0.0	0.0	0.0	0.0	0.0
35°	472.4	15.1	0.7	0.0	0.0	0.0	0.0	0.0
36°	404.6	12.0	0.7	0.0	0.0	0.0	0.0	0.0
37°	346.6	10.1	0.7	0.0	0.0	0.0	0.0	0.0
38°	290.1	8.5	0.4	0.0	0.0	0.0	0.0	0.0
39°	235.4	7.4	0.4	0.0	0.0	0.0	0.0	0.0
40°	187.7	6.6	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	101.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	56.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	24.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)