

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: P1316627

Luminaire Tested: P3SQAS02R159830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R159830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

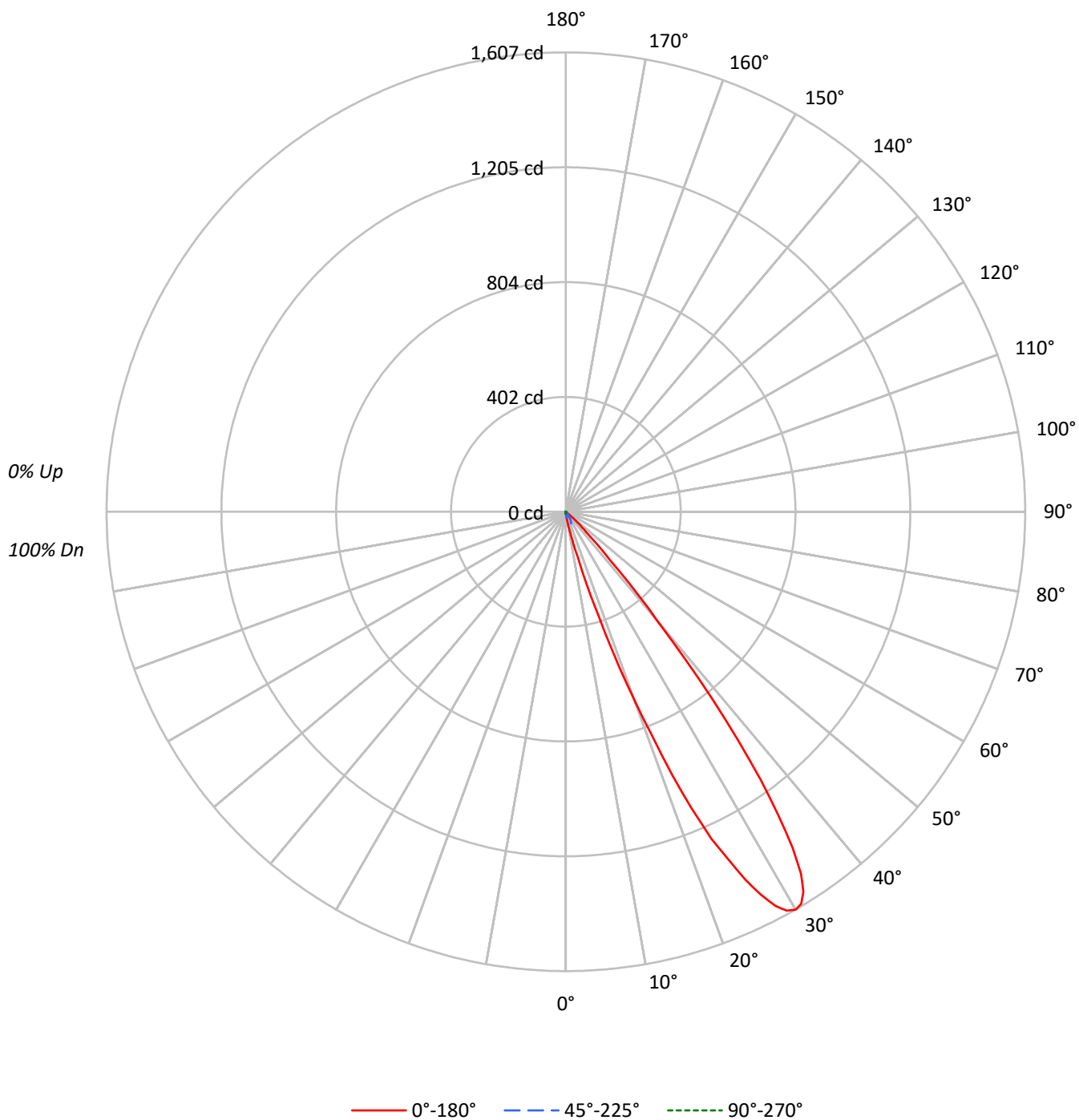
Lumens per Lamp: N/A
Luminaire Lumens: 170.0 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	94	92		
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
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°	1051	1051	1051	1051	1051
5°	3025	2282	899	363	242
10°	7870	3410	595	0	0
15°	31487	5581	321	0	0
20°	128659	8229	92	0	0
25°	254332	8152	0	0	0
30°	319657	6443	0	0	0
35°	272751	3953	0	0	0
40°	112298	1237	0	0	0
45°	24307	511	0	0	0
50°	3108	0	0	0	0
55°	270	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 25428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	11.9	7.0
20°-30°	69.4	40.8
30°-40°	74.5	43.8
40°-50°	12.6	7.4
50°-60°	0.4	0.2
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°	82.2	48.3
0°-40°	156.6	92.1
0°-60°	169.6	99.7
0°-90°	170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	170.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	18	13	5	2	1	2
15°	177	31	2	0	0	82
25°	1338	43	0	0	0	606
35°	1297	19	0	0	0	746
45°	100	2	0	0	0	118
55°	1	0	0	0	0	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
2.5°	11.1	11.3	11.4	11.4	11.4	11.4	11.3	11.3	11.3	11.3	11.1
5°	17.5	17.5	17.5	17.5	17.5	17.5	17.3	17.3	17.3	17.3	17.3
7.5°	25.0	24.7	24.8	24.3	24.7	24.5	24.3	24.7	24.7	23.8	23.8
10°	45.0	44.9	43.1	43.4	43.8	43.6	43.6	42.5	42.4	41.7	40.9
12.5°	86.9	88.8	90.3	90.3	86.9	88.1	85.8	86.3	86.7	85.6	81.9
15°	176.6	179.8	176.4	179.7	178.4	173.8	168.6	161.6	164.3	159.5	157.8
17.5°	386.8	394.2	391.1	376.3	381.1	369.7	362.5	359.9	352.3	330.0	320.7
20°	702.0	710.9	702.5	685.2	690.7	669.1	663.6	658.4	625.1	613.0	574.0
21°	834.7	842.0	845.2	827.1	816.1	798.9	784.6	779.9	759.7	736.3	696.3
22°	994.8	986.2	966.9	969.4	953.0	938.9	919.0	900.3	877.7	845.0	811.9
23°	1127.5	1117.5	1108.3	1097.3	1079.6	1069.5	1041.1	1020.6	991.2	956.2	924.4
24°	1251.0	1235.6	1229.9	1210.2	1205.2	1182.7	1159.6	1132.8	1097.4	1060.1	1024.9
25°	1338.4	1340.7	1335.7	1333.4	1307.8	1284.8	1261.9	1220.6	1190.4	1157.3	1103.2
26°	1432.1	1433.2	1430.6	1413.5	1390.4	1367.9	1338.4	1302.5	1258.7	1222.0	1173.1
27°	1503.8	1499.5	1495.9	1475.5	1456.6	1428.1	1401.3	1358.8	1316.1	1272.4	1215.6
28°	1561.0	1552.9	1548.5	1530.9	1508.8	1473.9	1441.0	1401.3	1358.6	1311.8	1250.3
29°	1595.5	1586.9	1581.9	1562.6	1537.0	1506.4	1473.2	1429.6	1383.6	1331.4	1269.6
30°	1607.4	1602.4	1594.6	1574.6	1548.1	1516.3	1482.1	1434.8	1386.7	1333.2	1267.8
31°	1599.6	1593.1	1585.6	1564.0	1535.4	1505.0	1465.3	1415.6	1365.0	1314.1	1244.7
32°	1568.3	1564.4	1555.2	1526.3	1503.0	1463.7	1424.6	1378.1	1322.9	1268.2	1205.4
33°	1509.7	1503.2	1495.4	1468.9	1439.2	1401.5	1362.5	1315.0	1260.1	1202.4	1133.4
34°	1420.3	1412.1	1402.2	1384.5	1346.6	1313.9	1268.9	1213.3	1167.9	1112.4	1050.1
35°	1297.3	1285.3	1273.5	1260.1	1217.6	1187.4	1157.0	1108.5	1064.7	1012.5	941.9
36°	1159.3	1154.6	1145.0	1109.6	1095.8	1054.7	1030.2	974.6	939.2	888.1	829.8
37°	1003.2	975.9	989.8	970.0	928.5	915.6	886.5	838.8	800.5	746.5	704.3
38°	835.9	818.0	827.9	807.8	786.2	756.5	734.4	699.5	656.6	614.2	574.2
39°	662.5	648.0	658.7	645.2	612.3	599.9	580.3	553.6	519.1	486.1	448.2
40°	499.5	480.9	495.2	475.9	460.9	440.7	430.6	406.2	384.7	364.9	340.7
42.5°	228.1	226.1	222.9	215.9	214.3	214.5	202.2	194.1	183.2	170.5	162.9
45°	99.8	102.3	104.4	100.5	100.3	98.1	97.4	92.1	89.9	85.8	80.8
47.5°	49.2	50.1	49.5	50.6	49.7	48.3	47.9	47.2	45.0	44.9	42.5
50°	11.6	11.4	11.4	11.6	11.4	11.4	11.3	10.9	10.7	10.9	10.4
52.5°	3.8	3.9	3.8	3.6	3.8	3.9	3.8	3.8	3.8	3.8	3.8
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.9	0.9	0.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
2.5°	10.9	9.3	7.7	6.1	4.5	3.6	3.4	3.2
5°	16.4	13.2	8.8	5.2	3.0	2.1	1.6	1.4
7.5°	22.2	16.4	9.7	4.3	2.1	0.9	0.4	0.2
10°	31.8	19.5	10.0	3.4	1.1	0.0	0.0	0.0
12.5°	62.4	22.3	9.8	2.7	0.2	0.0	0.0	0.0
15°	103.7	31.3	9.1	1.8	0.0	0.0	0.0	0.0
17.5°	169.8	40.4	7.9	1.3	0.0	0.0	0.0	0.0
20°	263.3	44.9	6.1	0.5	0.0	0.0	0.0	0.0
21°	308.7	45.2	5.4	0.4	0.0	0.0	0.0	0.0
22°	348.1	45.2	4.6	0.2	0.0	0.0	0.0	0.0
23°	384.5	44.7	4.1	0.0	0.0	0.0	0.0	0.0
24°	414.6	44.0	3.8	0.0	0.0	0.0	0.0	0.0
25°	437.1	42.9	3.4	0.0	0.0	0.0	0.0	0.0
26°	447.4	41.5	2.9	0.0	0.0	0.0	0.0	0.0
27°	452.6	39.5	2.5	0.0	0.0	0.0	0.0	0.0
28°	449.1	37.4	2.1	0.0	0.0	0.0	0.0	0.0
29°	440.1	35.0	1.6	0.0	0.0	0.0	0.0	0.0
30°	428.5	32.4	1.3	0.0	0.0	0.0	0.0	0.0
31°	411.5	29.7	0.9	0.0	0.0	0.0	0.0	0.0
32°	388.3	27.0	0.7	0.0	0.0	0.0	0.0	0.0
33°	357.2	24.1	0.4	0.0	0.0	0.0	0.0	0.0
34°	318.7	21.3	0.2	0.0	0.0	0.0	0.0	0.0
35°	275.7	18.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	238.7	16.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	201.5	12.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	168.8	10.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	139.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	115.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	64.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	38.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	22.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	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	0.0	0.4	0.5	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.5	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	0.5	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.5	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)