

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: P1314087

Luminaire Tested: P3SQAS05R409735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R409735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

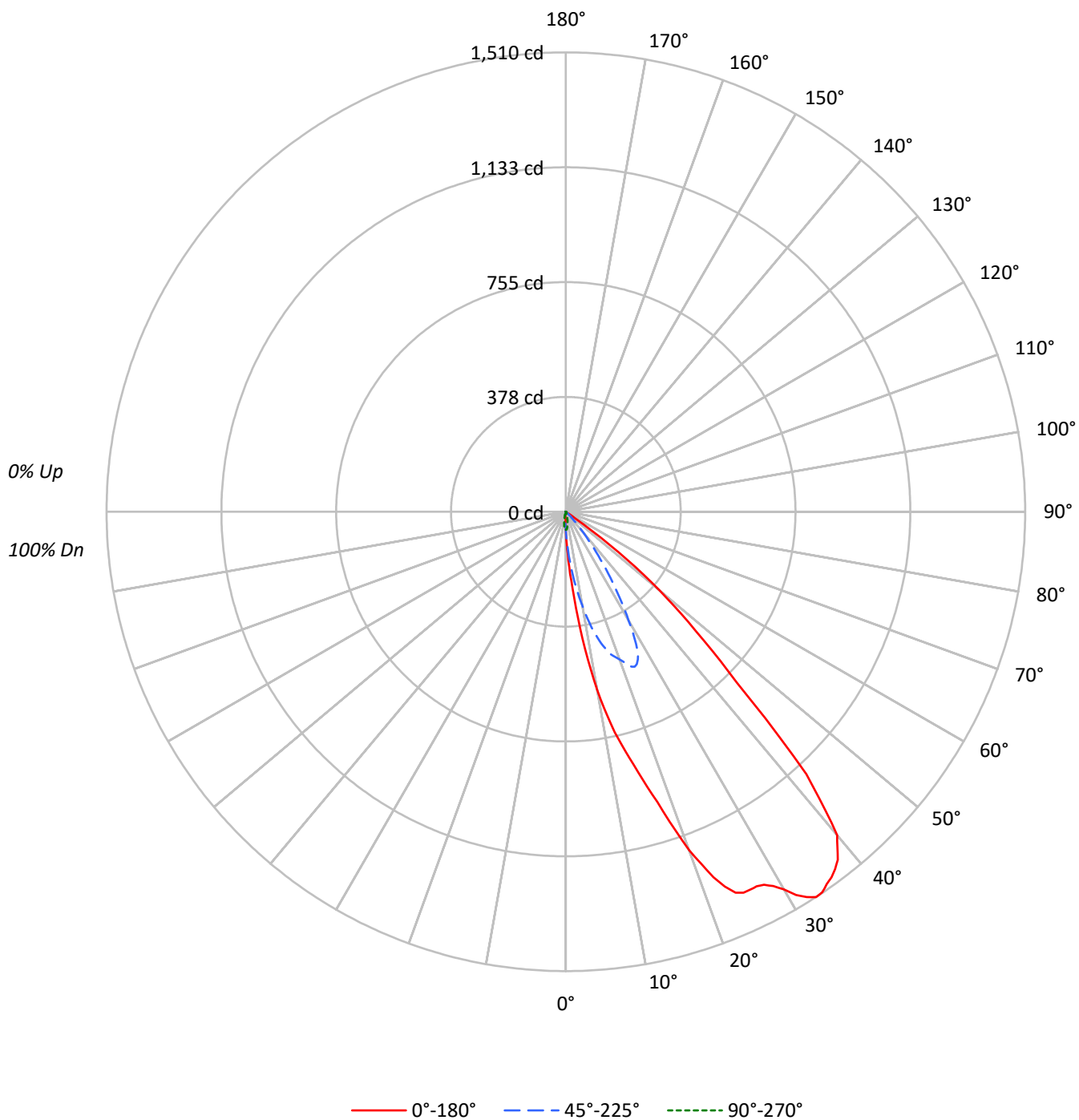
Lumens per Lamp: N/A
Luminaire Lumens: 507.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10213	10213	10213	10213	10213
5°	43341	29545	8955	1608	813
10°	104193	54947	5561	157	0
15°	153354	79842	2336	0	0
20°	216760	94643	861	0	0
25°	262541	105047	0	0	0
30°	285054	82171	0	0	0
35°	314337	48104	0	0	0
40°	311984	19514	0	0	0
45°	193216	5675	0	0	0
50°	107574	134	0	0	0
55°	10509	0	0	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	252	453	0	0
75°	0	333	599	0	0
80°	0	496	893	0	0
85°	0	988	1778	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 194117 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	2.2
10°-20°	65.4	12.9
20°-30°	149.2	29.4
30°-40°	176.1	34.7
40°-50°	94.1	18.6
50°-60°	10.2	2.0
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.3	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°	225.6	44.5
0°-40°	401.8	79.2
0°-60°	506.1	99.8
0°-90°	507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	507.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	251	171	52	9	5	35
15°	860	448	13	0	0	255
25°	1382	553	0	0	0	627
35°	1495	229	0	0	0	923
45°	793	23	0	0	0	654
55°	35	0	0	0	0	98
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°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	138.2	135.4	137.3	133.5	133.5	125.1	125.6	118.6	108.3	82.6	58.8
5°	250.7	261.9	253.1	241.4	234.9	226.5	215.2	203.6	170.9	103.2	51.8
7.5°	419.8	418.8	403.9	391.3	376.8	354.4	333.4	304.9	243.3	118.1	43.0
10°	595.8	592.5	575.7	565.0	537.4	505.2	462.2	416.5	314.2	123.3	31.8
12.5°	742.4	738.2	724.2	706.0	675.6	635.0	588.8	528.6	388.9	117.7	20.5
15°	860.1	859.1	845.6	820.8	789.1	749.4	697.1	624.7	447.8	103.2	13.1
17.5°	999.7	1005.3	981.0	954.4	908.6	853.1	789.1	706.4	491.2	85.4	8.4
20°	1182.7	1174.8	1152.4	1113.6	1069.7	1002.9	912.4	794.2	516.4	66.3	4.7
21°	1238.7	1235.5	1212.1	1176.2	1127.6	1059.9	966.5	839.1	528.1	59.3	3.7
22°	1295.7	1290.1	1271.9	1236.9	1191.1	1114.5	1011.8	885.3	543.0	51.8	2.3
23°	1338.2	1335.9	1321.8	1287.3	1240.1	1165.9	1060.8	928.2	553.3	44.8	1.4
24°	1370.9	1368.1	1354.1	1327.9	1287.3	1209.8	1110.3	974.5	557.5	38.8	0.5
25°	1381.6	1383.0	1374.6	1354.1	1320.0	1242.5	1147.2	1010.9	552.8	33.2	0.0
26°	1382.1	1386.3	1380.2	1368.5	1340.5	1268.6	1181.8	1032.4	540.7	28.0	0.0
27°	1382.1	1386.3	1380.2	1371.3	1343.8	1283.6	1200.4	1034.7	522.0	23.8	0.0
28°	1388.6	1390.9	1383.0	1372.3	1342.4	1288.2	1205.6	1020.7	492.1	20.5	0.0
29°	1406.8	1404.5	1391.4	1376.9	1341.0	1288.2	1190.2	994.1	454.8	17.3	0.0
30°	1433.4	1433.4	1412.9	1390.0	1347.5	1287.8	1165.4	946.0	413.2	14.0	0.0
31°	1469.4	1466.1	1445.6	1411.5	1361.5	1287.8	1129.0	892.7	374.9	12.1	0.0
32°	1493.7	1491.8	1472.2	1432.0	1384.4	1287.8	1089.8	833.9	333.4	9.8	0.0
33°	1510.5	1506.7	1484.3	1442.8	1398.4	1281.2	1045.9	770.9	296.0	7.9	0.0
34°	1508.1	1507.2	1483.9	1440.9	1395.6	1254.1	995.0	700.8	261.5	6.5	0.0
35°	1495.1	1495.1	1466.6	1422.2	1375.5	1214.5	944.6	641.1	228.8	4.7	0.0
36°	1485.3	1481.5	1449.3	1399.8	1341.9	1151.9	869.9	580.8	193.8	3.7	0.0
37°	1470.8	1463.8	1427.8	1374.6	1294.3	1084.2	791.4	527.2	163.9	2.3	0.0
38°	1452.1	1441.4	1397.5	1345.2	1242.0	1006.2	711.6	466.9	136.3	1.4	0.0
39°	1418.0	1409.2	1363.9	1307.4	1179.4	924.0	634.1	410.4	110.2	0.5	0.0
40°	1387.7	1372.3	1320.9	1256.0	1106.1	831.1	557.0	354.9	86.8	0.0	0.0
42.5°	1170.1	1153.8	1142.1	1077.6	881.1	596.7	388.9	227.4	45.3	0.0	0.0
45°	793.3	797.0	760.6	717.2	581.3	388.9	243.3	126.5	23.3	0.0	0.0
47.5°	578.5	568.7	519.2	437.0	340.9	227.4	127.0	61.2	9.3	0.0	0.0
50°	401.5	382.9	338.0	276.4	185.4	108.3	56.0	28.5	0.5	0.0	0.0
52.5°	218.1	205.0	173.7	126.1	77.0	41.6	22.4	11.7	0.0	0.0	0.0
55°	35.0	24.3	25.2	21.5	16.8	12.1	7.0	1.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9



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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	0.5	0.5	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9
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°	59.3	59.3	59.3	59.3
2.5°	39.7	27.1	20.5	17.7
5°	22.9	9.3	5.1	4.7
7.5°	11.2	3.3	1.9	1.9
10°	4.7	0.9	0.0	0.0
12.5°	1.4	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.0	0.0	0.0
85°	0.5	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)