

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: P1313853

Luminaire Tested: P3SQAS02R209735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313853
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: P3SQAS02R209735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

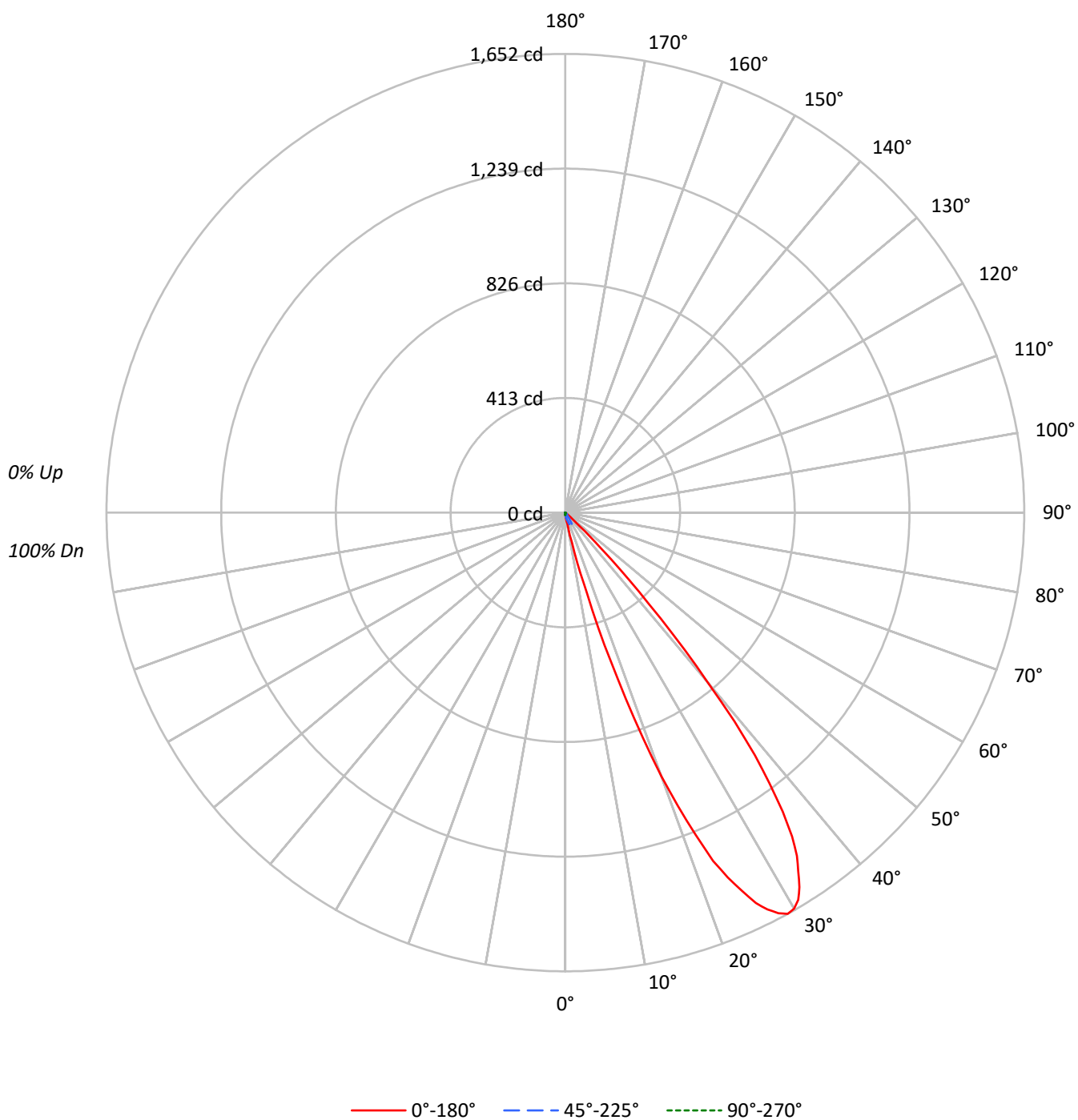
Lumens per Lamp: N/A
Luminaire Lumens: 228.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	49		
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°	1412	1412	1412	1412	1412
5°	3060	2161	1297	588	432
10°	7607	3812	909	122	0
15°	53561	5224	517	0	0
20°	185145	8761	202	0	0
25°	285382	11212	95	0	0
30°	327551	8651	0	0	0
35°	299158	3280	0	0	0
40°	179339	1529	0	0	0
45°	44060	706	0	0	0
50°	4850	188	0	0	0
55°	691	0	60	0	0
60°	0	0	172	0	0
65°	0	0	204	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: 47007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	17.8	7.8
20°-30°	90.1	39.5
30°-40°	97.4	42.7
40°-50°	20.6	9.0
50°-60°	0.6	0.3
60°-70°	0.2	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°	108.8	47.7
0°-40°	206.3	90.5
0°-60°	227.5	99.8
0°-90°	228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	12	8	3	2	2
15°	300	29	3	0	0	125
25°	1502	59	0	0	0	679
35°	1423	16	0	0	0	839
45°	181	3	0	0	0	199
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°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	11.1	10.9	11.1	10.9	11.1	11.1	11.1	10.9	10.9	10.9	10.9
5°	17.7	17.7	17.5	17.7	17.7	17.7	17.7	17.5	17.5	17.2	17.2
7.5°	27.9	27.9	27.7	27.7	27.9	28.1	27.2	27.7	27.7	27.7	27.4
10°	43.5	44.4	43.5	44.7	43.8	43.1	44.2	43.1	43.1	42.9	42.2
12.5°	109.7	107.3	105.7	101.8	105.7	102.7	103.4	102.7	100.5	97.5	95.7
15°	300.4	300.4	291.6	303.4	294.8	298.0	281.6	281.9	273.5	264.4	259.4
17.5°	628.1	633.8	627.9	624.3	616.5	605.4	600.9	589.3	574.1	556.5	554.4
20°	1010.2	986.4	997.5	987.3	980.9	967.3	952.1	942.6	929.2	906.8	873.7
21°	1130.4	1129.5	1129.2	1129.0	1119.7	1097.5	1083.7	1064.6	1045.8	1022.7	995.0
22°	1251.5	1255.8	1257.6	1244.4	1225.4	1215.4	1205.9	1179.8	1150.1	1138.1	1105.2
23°	1362.6	1358.5	1346.7	1340.6	1325.8	1322.9	1294.5	1278.0	1249.0	1235.8	1196.8
24°	1438.3	1436.3	1430.8	1421.7	1410.0	1391.8	1374.8	1348.7	1324.9	1303.4	1267.1
25°	1501.8	1503.6	1493.6	1487.5	1474.8	1454.4	1433.5	1405.0	1382.7	1357.6	1315.6
26°	1564.6	1551.9	1544.0	1534.9	1521.1	1497.7	1477.5	1451.9	1424.9	1396.8	1355.8
27°	1603.4	1592.0	1580.0	1571.2	1555.3	1533.1	1511.5	1483.2	1453.0	1424.7	1382.5
28°	1634.0	1621.5	1609.7	1599.1	1580.9	1557.1	1531.3	1502.5	1471.2	1441.9	1398.8
29°	1652.1	1637.4	1624.7	1612.7	1596.1	1570.3	1544.2	1513.4	1483.2	1452.6	1408.6
30°	1647.1	1634.4	1622.2	1610.0	1593.2	1568.9	1543.1	1513.6	1483.2	1453.0	1408.4
31°	1627.6	1612.0	1603.2	1590.9	1576.4	1551.7	1529.5	1497.3	1469.8	1437.2	1392.5
32°	1590.2	1580.2	1568.5	1558.9	1544.9	1518.6	1496.8	1470.5	1438.1	1411.3	1364.4
33°	1539.4	1530.1	1524.2	1513.1	1499.5	1481.4	1455.3	1431.3	1394.8	1367.3	1320.4
34°	1490.9	1479.1	1464.4	1461.2	1449.4	1426.1	1402.5	1378.0	1345.3	1310.4	1263.0
35°	1422.9	1410.6	1397.0	1398.2	1384.1	1356.9	1332.9	1305.4	1274.4	1233.3	1188.4
36°	1332.0	1323.8	1321.7	1316.3	1300.2	1267.8	1244.9	1210.4	1184.3	1134.2	1095.7
37°	1221.1	1224.0	1209.3	1202.2	1183.4	1160.8	1147.8	1103.6	1073.2	1035.6	983.4
38°	1109.1	1104.7	1087.3	1091.6	1065.7	1042.2	1005.7	979.4	945.3	910.4	868.7
39°	969.1	958.5	937.6	938.5	919.0	892.5	857.1	826.1	805.7	772.1	732.2
40°	797.7	793.2	785.9	773.9	748.3	736.7	705.2	671.6	654.4	607.9	588.4
42.5°	442.6	436.5	424.3	419.9	406.3	392.7	374.4	351.9	341.0	327.2	296.4
45°	180.9	193.0	190.0	186.6	176.2	176.9	163.7	165.3	153.3	145.1	139.5
47.5°	39.9	43.3	43.5	41.9	43.5	42.2	41.5	40.4	40.6	41.3	39.7
50°	18.1	17.9	18.4	18.1	17.9	17.7	17.5	16.8	17.2	16.8	16.3
52.5°	7.0	7.3	7.3	6.8	7.0	7.0	7.0	6.8	6.8	6.8	6.8
55°	2.3	2.3	2.3	2.0	2.0	2.3	2.3	2.3	2.3	2.3	2.0
57.5°	0.2	0.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.5
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°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	10.4	9.5	8.8	8.2	6.8	5.7	5.2	5.2
5°	16.1	12.5	9.3	7.5	5.2	3.4	2.7	2.5
7.5°	24.3	16.8	9.8	6.3	3.4	1.8	1.1	0.9
10°	35.1	21.8	10.2	5.2	2.0	0.7	0.0	0.0
12.5°	61.5	26.1	10.2	4.1	0.9	0.0	0.0	0.0
15°	140.8	29.3	9.8	2.9	0.2	0.0	0.0	0.0
17.5°	292.5	36.7	8.6	2.0	0.0	0.0	0.0	0.0
20°	467.1	47.8	6.8	1.1	0.0	0.0	0.0	0.0
21°	539.0	51.7	6.1	0.9	0.0	0.0	0.0	0.0
22°	590.7	55.3	5.4	0.7	0.0	0.0	0.0	0.0
23°	647.6	57.6	4.8	0.5	0.0	0.0	0.0	0.0
24°	689.6	59.0	4.1	0.5	0.0	0.0	0.0	0.0
25°	715.6	59.0	3.6	0.5	0.0	0.0	0.0	0.0
26°	731.1	57.6	3.2	0.2	0.0	0.0	0.0	0.0
27°	734.7	55.3	2.7	0.2	0.0	0.0	0.0	0.0
28°	730.1	52.4	2.3	0.0	0.0	0.0	0.0	0.0
29°	715.9	48.1	2.0	0.0	0.0	0.0	0.0	0.0
30°	700.4	43.5	1.6	0.0	0.0	0.0	0.0	0.0
31°	674.1	37.4	1.4	0.0	0.0	0.0	0.0	0.0
32°	643.8	31.1	1.1	0.0	0.0	0.0	0.0	0.0
33°	603.2	24.5	0.9	0.0	0.0	0.0	0.0	0.0
34°	543.3	19.3	0.9	0.0	0.0	0.0	0.0	0.0
35°	489.6	15.6	0.7	0.0	0.0	0.0	0.0	0.0
36°	419.3	12.5	0.7	0.0	0.0	0.0	0.0	0.0
37°	359.2	10.4	0.7	0.0	0.0	0.0	0.0	0.0
38°	300.7	8.8	0.5	0.0	0.0	0.0	0.0	0.0
39°	244.0	7.7	0.5	0.0	0.0	0.0	0.0	0.0
40°	194.6	6.8	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	105.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	58.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	25.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.3	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°	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.5	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	0.5	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	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)