

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: P1307477

Luminaire Tested: P3SQAS02R209030DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307477
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: P3SQAS02R209030DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

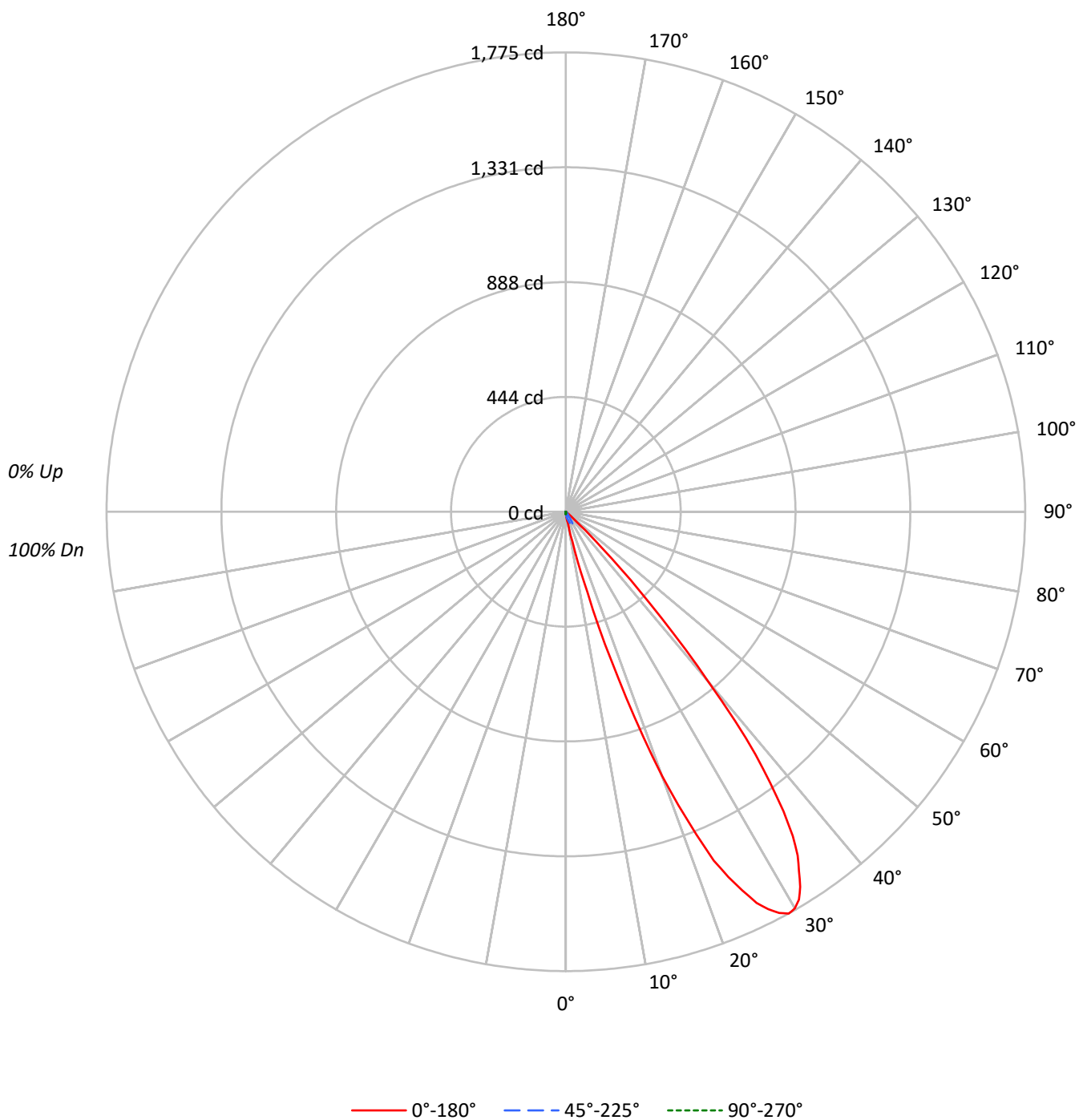
Lumens per Lamp: N/A
Luminaire Lumens: 245.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	1516	1516	1516	1516	1516
5°	3285	2317	1383	640	467
10°	8184	4092	979	122	0
15°	57572	5599	571	0	0
20°	198946	9420	220	0	0
25°	306665	12048	95	0	0
30°	351992	9307	0	0	0
35°	321465	3532	0	0	0
40°	192716	1641	0	0	0
45°	47348	779	0	0	0
50°	5225	188	0	0	0
55°	721	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: 50514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	19.1	7.8
20°-30°	96.8	39.5
30°-40°	104.7	42.7
40°-50°	22.1	9.0
50°-60°	0.7	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°	116.9	47.7
0°-40°	221.6	90.5
0°-60°	244.4	99.8
0°-90°	245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	245.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	19	13	8	4	3	3
15°	323	31	3	0	0	135
25°	1614	63	0	0	0	729
35°	1529	17	0	0	0	902
45°	194	3	0	0	0	214
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°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
2.5°	11.9	11.7	11.9	11.7	11.9	11.9	11.9	11.7	11.7	11.7	11.7
5°	19.0	19.0	18.8	19.0	19.0	19.0	19.0	18.8	18.8	18.5	18.5
7.5°	30.0	30.0	29.7	29.7	30.0	30.2	29.2	29.7	29.7	29.7	29.5
10°	46.8	47.8	46.8	48.0	47.0	46.3	47.5	46.3	46.3	46.1	45.3
12.5°	117.9	115.3	113.5	109.4	113.5	110.4	111.1	110.4	107.9	104.8	102.8
15°	322.9	322.9	313.3	326.0	316.8	320.2	302.6	302.9	293.9	284.1	278.7
17.5°	674.9	681.0	674.7	670.8	662.5	650.6	645.7	633.3	616.9	597.9	595.8
20°	1085.5	1059.9	1071.9	1060.9	1054.1	1039.5	1023.1	1012.9	998.5	974.4	938.8
21°	1214.7	1213.7	1213.4	1213.2	1203.2	1179.3	1164.5	1144.0	1123.8	1098.9	1069.2
22°	1344.8	1349.4	1351.3	1337.2	1316.7	1306.0	1295.8	1267.8	1235.8	1222.9	1187.6
23°	1464.2	1459.8	1447.1	1440.5	1424.7	1421.5	1391.1	1373.3	1342.1	1328.0	1286.0
24°	1545.5	1543.3	1537.5	1527.8	1515.1	1495.6	1477.3	1449.3	1423.7	1400.6	1361.6
25°	1613.8	1615.7	1605.0	1598.4	1584.8	1562.8	1540.4	1509.7	1485.8	1458.8	1413.7
26°	1681.3	1667.6	1659.1	1649.3	1634.5	1609.4	1587.7	1560.2	1531.2	1501.0	1456.8
27°	1722.9	1710.7	1697.8	1688.3	1671.3	1647.4	1624.2	1593.8	1561.4	1530.9	1485.6
28°	1755.8	1742.4	1729.8	1718.3	1698.8	1673.2	1645.4	1614.5	1580.9	1549.4	1503.1
29°	1775.3	1759.5	1745.8	1732.9	1715.1	1687.4	1659.3	1626.2	1593.8	1560.9	1513.6
30°	1770.0	1756.3	1743.2	1730.0	1712.0	1685.9	1658.1	1626.4	1593.8	1561.4	1513.4
31°	1749.0	1732.2	1722.7	1709.5	1693.9	1667.4	1643.5	1608.9	1579.4	1544.3	1496.3
32°	1708.8	1698.1	1685.4	1675.2	1660.1	1631.8	1608.4	1580.1	1545.3	1516.5	1466.1
33°	1654.2	1644.2	1637.9	1626.0	1611.3	1591.8	1563.8	1538.0	1498.8	1469.3	1418.8
34°	1602.1	1589.4	1573.6	1570.2	1557.5	1532.4	1507.0	1480.7	1445.6	1408.1	1357.2
35°	1529.0	1515.8	1501.2	1502.4	1487.3	1458.1	1432.2	1402.8	1369.4	1325.3	1277.0
36°	1431.3	1422.5	1420.3	1414.5	1397.2	1362.3	1337.7	1300.7	1272.6	1218.8	1177.4
37°	1312.1	1315.3	1299.4	1291.9	1271.7	1247.3	1233.4	1185.9	1153.2	1112.8	1056.8
38°	1191.7	1187.1	1168.4	1173.0	1145.2	1119.9	1080.6	1052.4	1015.8	978.3	933.5
39°	1041.4	1030.0	1007.5	1008.5	987.6	959.1	921.0	887.7	865.7	829.7	786.8
40°	857.2	852.3	844.5	831.6	804.1	791.7	757.8	721.7	703.2	653.3	632.3
42.5°	475.6	469.0	455.9	451.3	436.6	422.0	402.3	378.2	366.5	351.6	318.5
45°	194.4	207.4	204.2	200.5	189.3	190.1	175.9	177.6	164.7	155.9	149.9
47.5°	42.9	46.5	46.8	45.1	46.8	45.3	44.6	43.4	43.6	44.3	42.6
50°	19.5	19.2	19.7	19.5	19.2	19.0	18.8	18.0	18.5	18.0	17.5
52.5°	7.6	7.8	7.8	7.3	7.6	7.6	7.6	7.3	7.3	7.3	7.3
55°	2.4	2.4	2.4	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.2
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°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
2.5°	11.2	10.2	9.5	8.8	7.3	6.1	5.6	5.6
5°	17.3	13.4	10.0	8.0	5.6	3.7	2.9	2.7
7.5°	26.1	18.0	10.5	6.8	3.7	1.9	1.2	1.0
10°	37.8	23.4	11.0	5.6	2.2	0.7	0.0	0.0
12.5°	66.0	28.0	11.0	4.4	1.0	0.0	0.0	0.0
15°	151.3	31.4	10.5	3.2	0.2	0.0	0.0	0.0
17.5°	314.3	39.5	9.3	2.2	0.0	0.0	0.0	0.0
20°	501.9	51.4	7.3	1.2	0.0	0.0	0.0	0.0
21°	579.2	55.6	6.6	1.0	0.0	0.0	0.0	0.0
22°	634.7	59.5	5.8	0.7	0.0	0.0	0.0	0.0
23°	695.9	61.9	5.1	0.5	0.0	0.0	0.0	0.0
24°	741.0	63.4	4.4	0.5	0.0	0.0	0.0	0.0
25°	769.0	63.4	3.9	0.5	0.0	0.0	0.0	0.0
26°	785.6	61.9	3.4	0.2	0.0	0.0	0.0	0.0
27°	789.5	59.5	2.9	0.2	0.0	0.0	0.0	0.0
28°	784.6	56.3	2.4	0.0	0.0	0.0	0.0	0.0
29°	769.2	51.7	2.2	0.0	0.0	0.0	0.0	0.0
30°	752.7	46.8	1.7	0.0	0.0	0.0	0.0	0.0
31°	724.4	40.2	1.5	0.0	0.0	0.0	0.0	0.0
32°	691.8	33.4	1.2	0.0	0.0	0.0	0.0	0.0
33°	648.1	26.3	1.0	0.0	0.0	0.0	0.0	0.0
34°	583.8	20.7	1.0	0.0	0.0	0.0	0.0	0.0
35°	526.1	16.8	0.7	0.0	0.0	0.0	0.0	0.0
36°	450.5	13.4	0.7	0.0	0.0	0.0	0.0	0.0
37°	386.0	11.2	0.7	0.0	0.0	0.0	0.0	0.0
38°	323.1	9.5	0.5	0.0	0.0	0.0	0.0	0.0
39°	262.2	8.3	0.5	0.0	0.0	0.0	0.0	0.0
40°	209.1	7.3	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	112.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	62.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	27.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	9.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.2	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)