

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: P1305371

Luminaire Tested: P3SQAS02R159024DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305371
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: P3SQAS02R159024DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

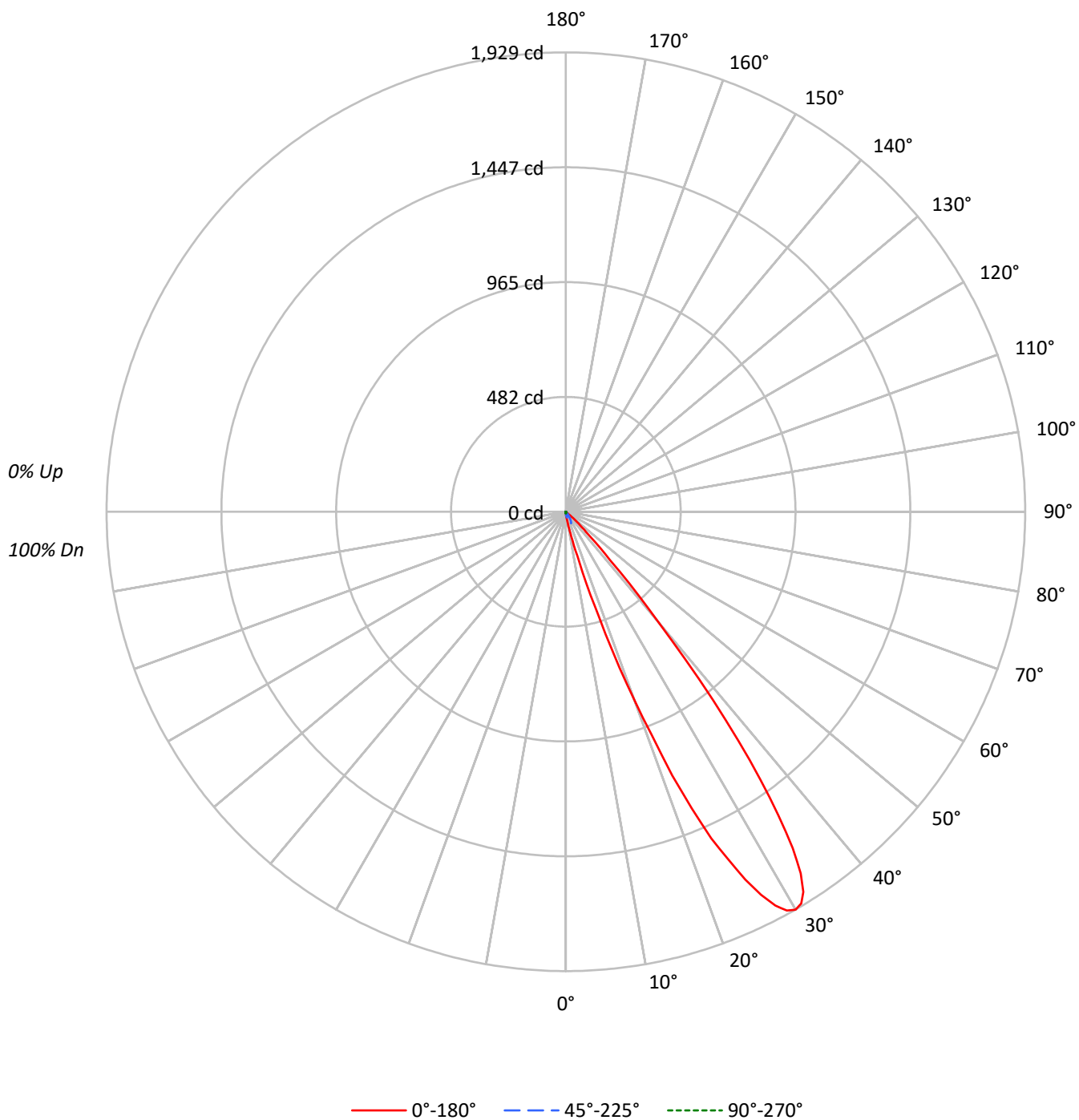
Lumens per Lamp: N/A
Luminaire Lumens: 204.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	58	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1257	1257	1257	1257	1257
5°	3630	2749	1072	449	294
10°	9461	4092	717	0	0
15°	37781	6686	374	0	0
20°	154391	9860	110	0	0
25°	305202	9786	0	0	0
30°	383592	7716	0	0	0
35°	327309	4731	0	0	0
40°	134758	1506	0	0	0
45°	29154	633	0	0	0
50°	3724	0	0	0	0
55°	330	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	302	0	0
75°	0	133	399	0	0
80°	0	198	595	0	0
85°	0	395	1186	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 30518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	14.3	7.0
20°-30°	83.3	40.9
30°-40°	89.3	43.8
40°-50°	15.1	7.4
50°-60°	0.5	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°	98.6	48.3
0°-40°	188.0	92.1
0°-60°	203.5	99.8
0°-90°	204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	21	16	6	3	2	3
15°	212	38	2	0	0	98
25°	1606	52	0	0	0	727
35°	1557	22	0	0	0	895
45°	120	3	0	0	0	141
55°	1	0	0	0	0	3
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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	13.3	13.5	13.7	13.7	13.7	13.7	13.5	13.5	13.5	13.5	13.3
5°	21.0	21.0	21.0	21.0	21.0	21.0	20.8	20.8	20.8	20.8	20.8
7.5°	30.0	29.6	29.8	29.2	29.6	29.4	29.2	29.6	29.6	28.5	28.5
10°	54.1	53.8	51.7	52.1	52.6	52.3	52.3	51.1	50.8	50.0	49.1
12.5°	104.3	106.6	108.3	108.3	104.3	105.8	103.0	103.6	104.0	102.8	98.2
15°	211.9	215.8	211.7	215.6	214.1	208.5	202.3	193.9	197.1	191.3	189.4
17.5°	464.2	473.0	469.4	451.6	457.4	443.6	435.0	431.8	422.8	396.0	384.8
20°	842.4	853.1	843.1	822.2	828.9	802.9	796.3	790.1	750.2	735.6	688.8
21°	1001.6	1010.4	1014.2	992.6	979.3	958.7	941.5	935.9	911.7	883.6	835.5
22°	1193.8	1183.5	1160.3	1163.3	1143.6	1126.6	1102.8	1080.3	1053.3	1014.0	974.3
23°	1353.0	1340.9	1330.0	1316.7	1295.5	1283.5	1249.3	1224.7	1189.5	1147.5	1109.3
24°	1501.2	1482.7	1475.9	1452.3	1446.3	1419.2	1391.6	1359.4	1316.9	1272.1	1229.8
25°	1606.1	1608.9	1602.9	1600.1	1569.4	1541.7	1514.3	1464.7	1428.5	1388.8	1323.8
26°	1718.5	1719.8	1716.8	1696.2	1668.5	1641.5	1606.1	1563.0	1510.4	1466.4	1407.7
27°	1804.5	1799.4	1795.1	1770.6	1747.9	1713.8	1681.6	1630.5	1579.3	1526.9	1458.7
28°	1873.2	1863.5	1858.1	1837.1	1810.5	1768.7	1729.2	1681.6	1630.3	1574.1	1500.3
29°	1914.6	1904.3	1898.3	1875.1	1844.4	1807.7	1767.8	1715.5	1660.4	1597.7	1523.5
30°	1928.9	1922.9	1913.5	1889.5	1857.7	1819.5	1778.6	1721.7	1664.0	1599.9	1521.4
31°	1919.5	1911.8	1902.8	1876.8	1842.5	1806.0	1758.4	1698.8	1638.1	1576.9	1493.7
32°	1882.0	1877.2	1866.3	1831.5	1803.7	1756.5	1709.5	1653.7	1587.4	1521.8	1446.5
33°	1811.6	1803.9	1794.4	1762.7	1727.1	1681.8	1635.0	1578.0	1512.1	1442.8	1360.0
34°	1704.3	1694.5	1682.7	1661.4	1616.0	1576.7	1522.6	1455.9	1401.4	1334.9	1260.1
35°	1556.8	1542.4	1528.2	1512.1	1461.1	1424.8	1388.4	1330.2	1277.7	1215.0	1130.3
36°	1391.1	1385.6	1374.0	1331.5	1315.0	1265.7	1236.3	1169.5	1127.1	1065.7	995.8
37°	1203.9	1171.0	1187.8	1164.0	1114.2	1098.8	1063.8	1006.5	960.6	895.8	845.2
38°	1003.1	981.6	993.4	969.4	943.4	907.8	881.2	839.4	787.9	737.1	689.0
39°	795.0	777.6	790.5	774.2	734.7	719.9	696.3	664.4	623.0	583.3	537.8
40°	599.4	577.1	594.2	571.0	553.0	528.8	516.8	487.4	461.6	437.8	408.9
42.5°	273.7	271.4	267.5	259.1	257.2	257.4	242.6	233.0	219.9	204.6	195.4
45°	119.7	122.7	125.3	120.6	120.3	117.8	116.9	110.5	107.9	103.0	97.0
47.5°	59.0	60.1	59.4	60.7	59.6	57.9	57.5	56.6	54.1	53.8	51.1
50°	13.9	13.7	13.7	13.9	13.7	13.7	13.5	13.1	12.9	13.1	12.4
52.5°	4.5	4.7	4.5	4.3	4.5	4.7	4.5	4.5	4.5	4.5	4.5
55°	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.1	1.1
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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	13.1	11.2	9.2	7.3	5.4	4.3	4.1	3.9
5°	19.7	15.9	10.5	6.2	3.6	2.6	1.9	1.7
7.5°	26.6	19.7	11.6	5.1	2.6	1.1	0.4	0.2
10°	38.2	23.4	12.0	4.1	1.3	0.0	0.0	0.0
12.5°	74.9	26.8	11.8	3.2	0.2	0.0	0.0	0.0
15°	124.4	37.5	10.9	2.1	0.0	0.0	0.0	0.0
17.5°	203.8	48.5	9.4	1.5	0.0	0.0	0.0	0.0
20°	316.0	53.8	7.3	0.6	0.0	0.0	0.0	0.0
21°	370.5	54.3	6.4	0.4	0.0	0.0	0.0	0.0
22°	417.7	54.3	5.6	0.2	0.0	0.0	0.0	0.0
23°	461.4	53.6	4.9	0.0	0.0	0.0	0.0	0.0
24°	497.5	52.8	4.5	0.0	0.0	0.0	0.0	0.0
25°	524.5	51.5	4.1	0.0	0.0	0.0	0.0	0.0
26°	536.9	49.8	3.4	0.0	0.0	0.0	0.0	0.0
27°	543.2	47.4	3.0	0.0	0.0	0.0	0.0	0.0
28°	538.9	44.8	2.6	0.0	0.0	0.0	0.0	0.0
29°	528.1	42.0	1.9	0.0	0.0	0.0	0.0	0.0
30°	514.2	38.8	1.5	0.0	0.0	0.0	0.0	0.0
31°	493.8	35.6	1.1	0.0	0.0	0.0	0.0	0.0
32°	465.9	32.4	0.9	0.0	0.0	0.0	0.0	0.0
33°	428.6	29.0	0.4	0.0	0.0	0.0	0.0	0.0
34°	382.5	25.5	0.2	0.0	0.0	0.0	0.0	0.0
35°	330.8	22.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	286.4	19.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	241.8	15.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	202.5	12.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	167.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0
40°	138.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	76.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	46.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	27.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.9	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	0.6	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.6	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	0.6	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.6	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)