

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: P1340530

Luminaire Tested: P3A09R209835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R209835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

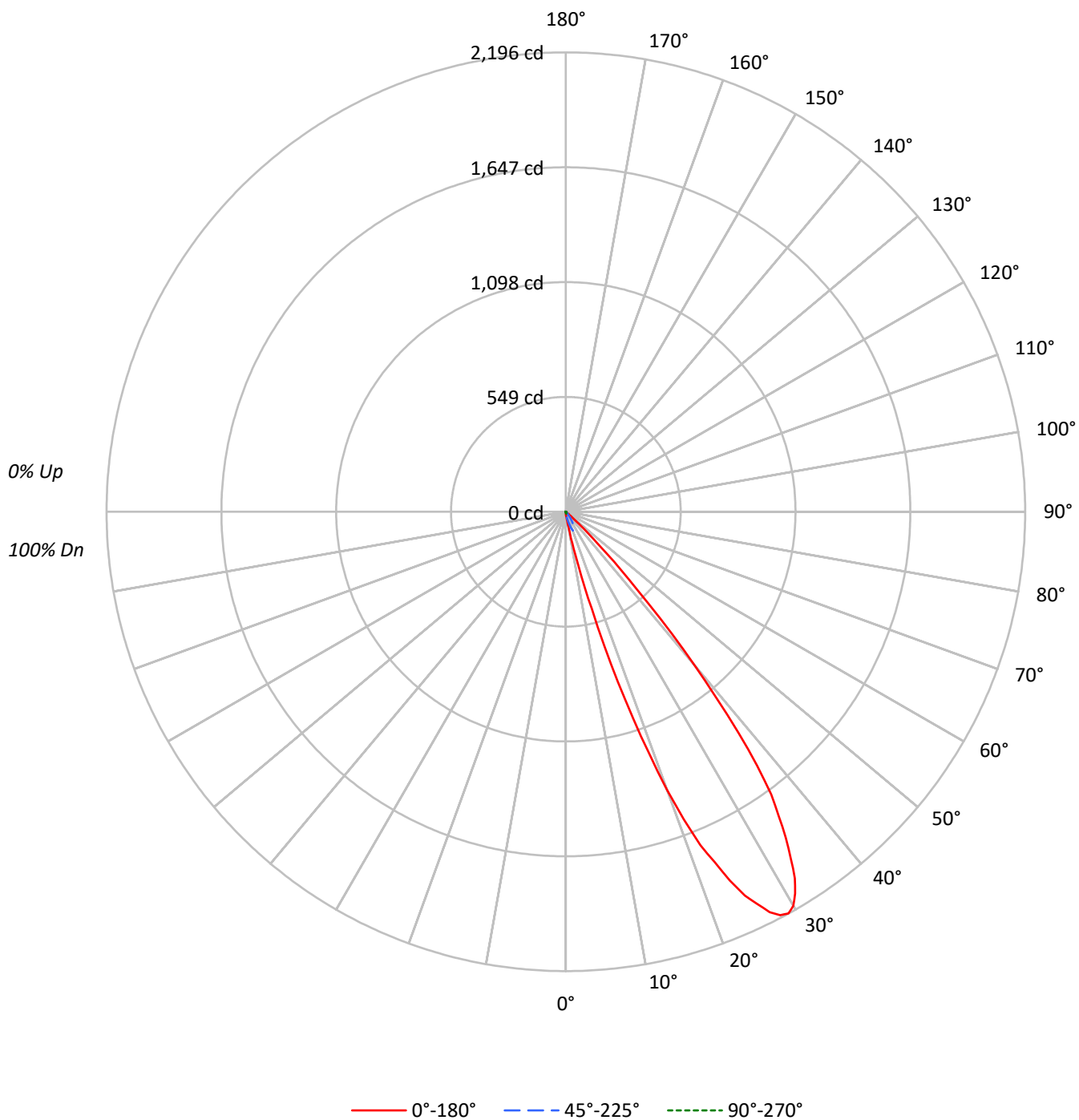
Lumens per Lamp: N/A
Luminaire Lumens: 308.0 lumens
Efficiency: N/A
Efficacy: 28.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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

TEST NUMBER: P1340530

CATALOG NUMBER: P3A09R209835DE010 E3A301WMH

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2324	2324	2324	2324	2324
5°	5349	4006	2223	1343	1167
10°	16856	6969	1804	757	557
15°	109240	12872	1339	250	68
20°	329682	22029	910	0	0
25°	489609	22235	532	0	0
30°	550591	16914	203	0	0
35°	475073	10092	161	0	0
40°	273541	3435	0	0	0
45°	66736	1395	93	0	93
50°	8017	375	102	102	273
55°	1070	0	229	229	421
60°	132	0	351	351	614
65°	156	156	571	571	882
70°	192	192	705	705	898
75°	0	254	932	678	932
80°	0	379	1010	758	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 67170 cd/sqm

TEST NUMBER: P1340530

CATALOG NUMBER: P3A09R209835DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	28.5	9.3
20°-30°	124.4	40.4
30°-40°	125.3	40.7
40°-50°	25.1	8.2
50°-60°	1.3	0.4
60°-70°	0.8	0.3
70°-80°	0.7	0.2
80°-90°	0.4	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°	154.4	50.1
0°-40°	279.7	90.8
0°-60°	306.1	99.4
0°-90°	308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	308.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	18	10	6	5	4
15°	481	57	6	1	0	188
25°	2024	92	2	0	0	912
35°	1775	38	1	0	0	1056
45°	215	4	0	0	0	234
55°	3	0	1	1	1	5
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1340530

CATALOG NUMBER: P3A09R209835DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
2.5°	15.9	15.9	15.6	15.6	15.4	15.6	15.1	15.4	15.4	15.1	13.7
5°	24.3	24.9	24.6	24.6	24.3	24.6	24.0	23.5	22.9	22.9	18.2
7.5°	40.0	39.7	39.1	39.4	38.6	38.0	37.4	37.2	35.5	34.6	23.8
10°	75.7	77.4	76.0	75.7	70.7	70.4	67.1	62.3	58.1	55.9	31.3
12.5°	208.5	217.4	203.4	196.7	192.8	177.7	171.3	154.8	138.9	126.9	39.7
15°	481.2	503.3	475.0	477.0	453.5	410.5	372.8	340.3	302.1	263.5	56.7
17.5°	942.8	924.9	909.5	883.6	835.8	772.6	691.3	608.9	537.6	463.0	79.1
20°	1412.8	1396.9	1361.9	1305.2	1244.3	1150.7	1054.0	930.2	810.3	698.0	94.4
21°	1574.6	1569.3	1512.0	1477.1	1383.2	1293.8	1182.3	1049.8	914.9	781.8	97.0
22°	1719.0	1687.2	1656.5	1604.8	1511.4	1414.2	1290.1	1150.7	1004.3	856.4	97.2
23°	1819.1	1804.6	1775.5	1717.1	1624.3	1510.0	1379.3	1233.4	1079.2	909.3	96.4
24°	1929.7	1911.3	1868.8	1800.6	1707.0	1594.1	1444.9	1300.2	1132.5	953.7	94.2
25°	2023.6	1994.8	1944.5	1871.1	1768.8	1652.3	1502.2	1343.2	1169.7	983.6	91.9
26°	2084.5	2068.9	2004.3	1924.4	1814.9	1694.7	1541.6	1376.2	1193.7	997.3	88.3
27°	2148.0	2119.2	2055.8	1963.8	1845.1	1722.4	1564.0	1392.1	1202.1	997.8	83.8
28°	2184.3	2153.0	2081.2	1984.5	1864.6	1737.8	1576.8	1397.1	1200.4	989.2	78.5
29°	2195.8	2156.4	2086.2	1987.9	1869.4	1738.9	1574.9	1389.9	1185.6	967.9	72.4
30°	2174.5	2134.3	2067.8	1971.9	1854.3	1724.9	1556.7	1365.8	1159.4	937.5	66.8
31°	2128.1	2094.0	2029.8	1933.6	1820.8	1692.2	1515.6	1326.4	1114.6	896.7	60.4
32°	2066.9	2033.4	1970.3	1883.4	1768.5	1638.9	1459.5	1265.0	1062.1	835.8	53.9
33°	1975.0	1955.7	1899.0	1816.0	1701.2	1562.6	1384.0	1191.5	987.2	768.2	48.3
34°	1882.0	1857.6	1818.0	1727.2	1603.6	1465.3	1285.7	1090.1	895.8	692.4	43.0
35°	1774.7	1760.1	1697.8	1625.2	1501.1	1359.7	1181.1	991.4	789.4	608.0	37.7
36°	1670.7	1648.4	1577.4	1500.5	1380.1	1227.3	1050.9	872.7	697.5	529.0	32.1
37°	1519.8	1485.7	1435.1	1354.1	1213.3	1083.1	922.1	756.7	584.3	443.5	26.0
38°	1342.4	1326.4	1256.3	1174.7	1058.2	934.7	775.4	635.1	482.0	370.2	19.8
39°	1133.1	1132.8	1065.7	1006.8	892.8	781.6	637.9	515.5	397.9	298.2	15.4
40°	955.6	922.7	881.3	807.3	719.8	625.4	499.6	403.5	308.8	240.3	12.0
42.5°	501.0	498.2	473.9	418.3	369.4	313.8	249.5	207.9	162.6	132.4	7.5
45°	215.2	216.6	199.8	191.4	172.4	149.2	126.0	105.1	90.0	72.9	4.5
47.5°	54.5	52.3	51.7	53.7	53.7	52.0	46.7	43.9	40.5	37.2	2.5
50°	23.5	22.9	22.4	22.4	21.0	20.1	18.7	17.0	15.6	14.0	1.1
52.5°	8.7	8.9	9.2	8.9	8.9	8.7	8.7	8.4	7.5	6.7	0.6
55°	2.8	2.8	2.8	3.1	3.1	3.4	3.4	3.4	3.4	3.1	0.0
57.5°	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.6	10.6	10.6	10.6	10.6	10.6
2.5°	12.3	10.9	9.2	7.8	7.5	7.3
5°	13.7	10.1	7.5	6.1	5.6	5.3
7.5°	14.8	9.2	6.1	4.5	3.9	3.6
10°	15.4	8.1	5.0	3.4	2.5	2.5
12.5°	15.6	7.0	3.6	2.2	1.4	1.4
15°	15.4	5.9	2.8	1.1	0.3	0.3
17.5°	14.0	4.8	1.7	0.3	0.0	0.0
20°	12.0	3.9	1.1	0.0	0.0	0.0
21°	11.5	3.4	0.8	0.0	0.0	0.0
22°	10.6	3.1	0.6	0.0	0.0	0.0
23°	9.8	2.8	0.6	0.0	0.0	0.0
24°	8.9	2.5	0.3	0.0	0.0	0.0
25°	8.4	2.2	0.3	0.0	0.0	0.0
26°	7.8	2.0	0.3	0.0	0.0	0.0
27°	7.0	1.7	0.0	0.0	0.0	0.0
28°	6.4	1.4	0.0	0.0	0.0	0.0
29°	5.6	1.1	0.0	0.0	0.0	0.0
30°	4.8	0.8	0.0	0.0	0.0	0.0
31°	3.9	0.8	0.0	0.0	0.0	0.0
32°	3.4	0.6	0.0	0.0	0.0	0.0
33°	2.8	0.6	0.0	0.0	0.0	0.0
34°	2.5	0.6	0.0	0.0	0.0	0.0
35°	2.2	0.6	0.0	0.0	0.0	0.0
36°	1.7	0.3	0.0	0.0	0.0	0.0
37°	1.4	0.3	0.0	0.0	0.0	0.0
38°	1.1	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.8
52.5°	0.0	0.6	0.3	0.3	0.8	0.8
55°	0.3	0.6	0.3	0.6	1.1	1.1
57.5°	0.3	0.6	0.6	0.8	1.1	1.4
60°	0.6	0.8	0.8	0.8	1.4	1.4
62.5°	0.6	0.8	1.1	1.1	1.4	1.7
65°	0.6	1.1	1.1	1.1	1.4	1.7
67.5°	0.8	1.1	1.1	1.1	1.4	1.7
70°	0.8	1.1	1.1	1.1	1.4	1.4
72.5°	0.8	1.1	0.8	1.1	1.1	1.4
75°	0.8	1.1	0.8	0.8	1.1	1.1
77.5°	0.6	0.8	0.8	0.6	0.8	0.8
80°	0.6	0.8	0.6	0.6	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.8	0.6	0.3	0.6	0.6
85°	0.6	0.8	0.6	0.3	0.3	0.3
87.5°	0.6	0.8	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)