

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: P1340434

Luminaire Tested: P3A09R209727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340434
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: P3A09R209727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

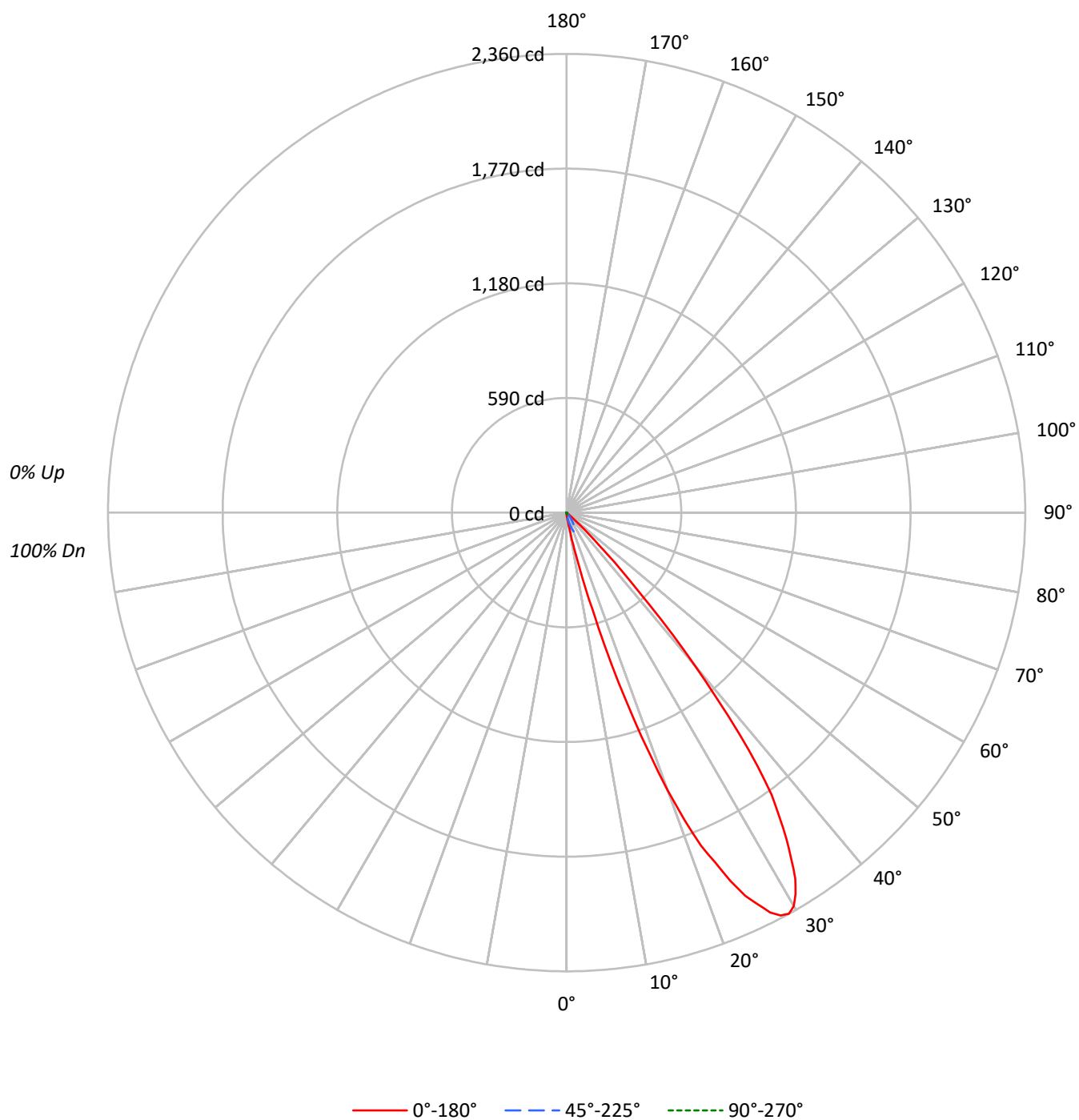
Lumens per Lamp: N/A
Luminaire Lumens: 331.0 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	93	93	93	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	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2500	2500	2500	2500	2500
5°	5745	4292	2377	1453	1255
10°	18125	7481	1937	802	601
15°	117390	13848	1430	272	68
20°	354301	23685	980	0	0
25°	526167	23905	581	0	0
30°	591711	18180	228	0	0
35°	510543	10842	161	0	0
40°	293979	3693	0	0	0
45°	71697	1489	93	0	93
50°	8597	409	102	102	307
55°	1147	0	229	229	459
60°	132	0	395	395	658
65°	156	156	623	623	934
70°	192	192	769	769	962
75°	0	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 72163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	30.7	9.3
20°-30°	133.7	40.4
30°-40°	134.6	40.7
40°-50°	27.0	8.2
50°-60°	1.4	0.4
60°-70°	0.9	0.3
70°-80°	0.8	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°	165.9	50.1
0°-40°	300.6	90.8
0°-60°	328.9	99.4
0°-90°	331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	331.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	26	20	11	7	6	4
15°	517	61	6	1	0	203
25°	2175	99	2	0	0	981
35°	1907	40	1	0	0	1135
45°	231	5	0	0	0	252
55°	3	0	1	1	1	6
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	17.1	17.1	16.8	16.8	16.5	16.8	16.2	16.5	16.5	16.2	14.7
5°	26.1	26.7	26.4	26.4	26.1	26.4	25.8	25.2	24.6	24.6	19.5
7.5°	42.9	42.6	42.0	42.3	41.4	40.8	40.2	39.9	38.1	37.2	25.5
10°	81.4	83.2	81.7	81.4	76.0	75.7	72.1	67.0	62.5	60.1	33.6
12.5°	224.0	233.6	218.6	211.4	207.2	191.0	184.1	166.4	149.2	136.3	42.6
15°	517.1	540.8	510.5	512.6	487.4	441.1	400.6	365.8	324.6	283.2	61.0
17.5°	1013.2	994.0	977.5	949.5	898.2	830.3	742.9	654.3	577.8	497.6	85.0
20°	1518.3	1501.2	1463.6	1402.7	1337.2	1236.6	1132.7	999.7	870.9	750.1	101.5
21°	1692.2	1686.5	1624.9	1587.4	1486.5	1390.4	1270.6	1128.2	983.2	840.2	104.2
22°	1847.4	1813.2	1780.2	1724.6	1624.3	1519.8	1386.5	1236.6	1079.3	920.4	104.5
23°	1954.9	1939.3	1908.1	1845.3	1745.6	1622.8	1482.3	1325.5	1159.7	977.2	103.6
24°	2073.8	2054.0	2008.4	1935.1	1834.5	1713.2	1552.8	1397.3	1217.1	1024.9	101.2
25°	2174.7	2143.8	2089.8	2010.8	1900.9	1775.6	1614.4	1443.5	1257.0	1057.0	98.8
26°	2240.2	2223.4	2154.0	2068.1	1950.4	1821.3	1656.7	1479.0	1282.9	1071.8	94.9
27°	2308.4	2277.4	2209.3	2110.5	1982.9	1851.0	1680.8	1496.1	1291.9	1072.4	90.1
28°	2347.4	2313.8	2236.6	2132.7	2003.9	1867.5	1694.6	1501.5	1290.1	1063.0	84.4
29°	2359.7	2317.4	2242.0	2136.3	2009.0	1868.7	1692.5	1493.7	1274.2	1040.2	77.8
30°	2336.9	2293.7	2222.2	2119.2	1992.8	1853.7	1672.9	1467.8	1245.9	1007.5	71.8
31°	2287.1	2250.4	2181.3	2078.0	1956.7	1818.6	1628.8	1425.5	1197.9	963.6	64.9
32°	2221.3	2185.2	2117.4	2024.0	1900.6	1761.2	1568.4	1359.4	1141.4	898.2	58.0
33°	2122.5	2101.8	2040.8	1951.6	1828.2	1679.3	1487.4	1280.5	1060.9	825.5	52.0
34°	2022.5	1996.4	1953.7	1856.1	1723.4	1574.7	1381.7	1171.5	962.7	744.1	46.2
35°	1907.2	1891.6	1824.6	1746.5	1613.2	1461.2	1269.3	1065.4	848.3	653.4	40.5
36°	1795.5	1771.4	1695.2	1612.6	1483.2	1318.9	1129.4	937.8	749.5	568.5	34.5
37°	1633.3	1596.7	1542.3	1455.2	1303.9	1163.9	991.0	813.2	627.9	476.6	27.9
38°	1442.6	1425.5	1350.1	1262.4	1137.2	1004.5	833.3	682.6	518.0	397.9	21.3
39°	1217.7	1217.4	1145.3	1082.0	959.4	839.9	685.6	554.0	427.6	320.4	16.5
40°	1027.0	991.6	947.1	867.6	773.6	672.1	536.9	433.6	331.8	258.3	12.9
42.5°	538.4	535.4	509.3	449.5	397.0	337.2	268.2	223.4	174.8	142.3	8.1
45°	231.2	232.7	214.7	205.7	185.3	160.4	135.4	112.9	96.7	78.4	4.8
47.5°	58.6	56.2	55.6	57.7	57.7	55.9	50.1	47.1	43.5	39.9	2.7
50°	25.2	24.6	24.0	24.0	22.5	21.6	20.1	18.3	16.8	15.0	1.2
52.5°	9.3	9.6	9.9	9.6	9.6	9.3	9.3	9.0	8.1	7.2	0.6
55°	3.0	3.0	3.0	3.3	3.3	3.6	3.6	3.6	3.6	3.3	0.0
57.5°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	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°	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	13.2	11.7	9.9	8.4	8.1	7.8
5°	14.7	10.8	8.1	6.6	6.0	5.7
7.5°	15.9	9.9	6.6	4.8	4.2	3.9
10°	16.5	8.7	5.4	3.6	2.7	2.7
12.5°	16.8	7.5	3.9	2.4	1.5	1.5
15°	16.5	6.3	3.0	1.2	0.3	0.3
17.5°	15.0	5.1	1.8	0.3	0.0	0.0
20°	12.9	4.2	1.2	0.0	0.0	0.0
21°	12.3	3.6	0.9	0.0	0.0	0.0
22°	11.4	3.3	0.6	0.0	0.0	0.0
23°	10.5	3.0	0.6	0.0	0.0	0.0
24°	9.6	2.7	0.3	0.0	0.0	0.0
25°	9.0	2.4	0.3	0.0	0.0	0.0
26°	8.4	2.1	0.3	0.0	0.0	0.0
27°	7.5	1.8	0.0	0.0	0.0	0.0
28°	6.9	1.5	0.0	0.0	0.0	0.0
29°	6.0	1.2	0.0	0.0	0.0	0.0
30°	5.1	0.9	0.0	0.0	0.0	0.0
31°	4.2	0.9	0.0	0.0	0.0	0.0
32°	3.6	0.6	0.0	0.0	0.0	0.0
33°	3.0	0.6	0.0	0.0	0.0	0.0
34°	2.7	0.6	0.0	0.0	0.0	0.0
35°	2.4	0.6	0.0	0.0	0.0	0.0
36°	1.8	0.3	0.0	0.0	0.0	0.0
37°	1.5	0.3	0.0	0.0	0.0	0.0
38°	1.2	0.3	0.0	0.0	0.0	0.0
39°	0.9	0.0	0.0	0.0	0.0	0.0
40°	0.9	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	0.9
52.5°	0.0	0.6	0.3	0.3	0.9	0.9
55°	0.3	0.6	0.3	0.6	1.2	1.2
57.5°	0.3	0.6	0.6	0.9	1.2	1.5
60°	0.6	0.9	0.9	0.9	1.5	1.5
62.5°	0.6	0.9	1.2	1.2	1.5	1.8
65°	0.6	1.2	1.2	1.2	1.5	1.8
67.5°	0.9	1.2	1.2	1.2	1.5	1.8
70°	0.9	1.2	1.2	1.2	1.5	1.5
72.5°	0.9	1.2	0.9	1.2	1.2	1.5
75°	0.9	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)