

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: P1340450

Luminaire Tested: P3A09R209730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340450
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: P3A09R209730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

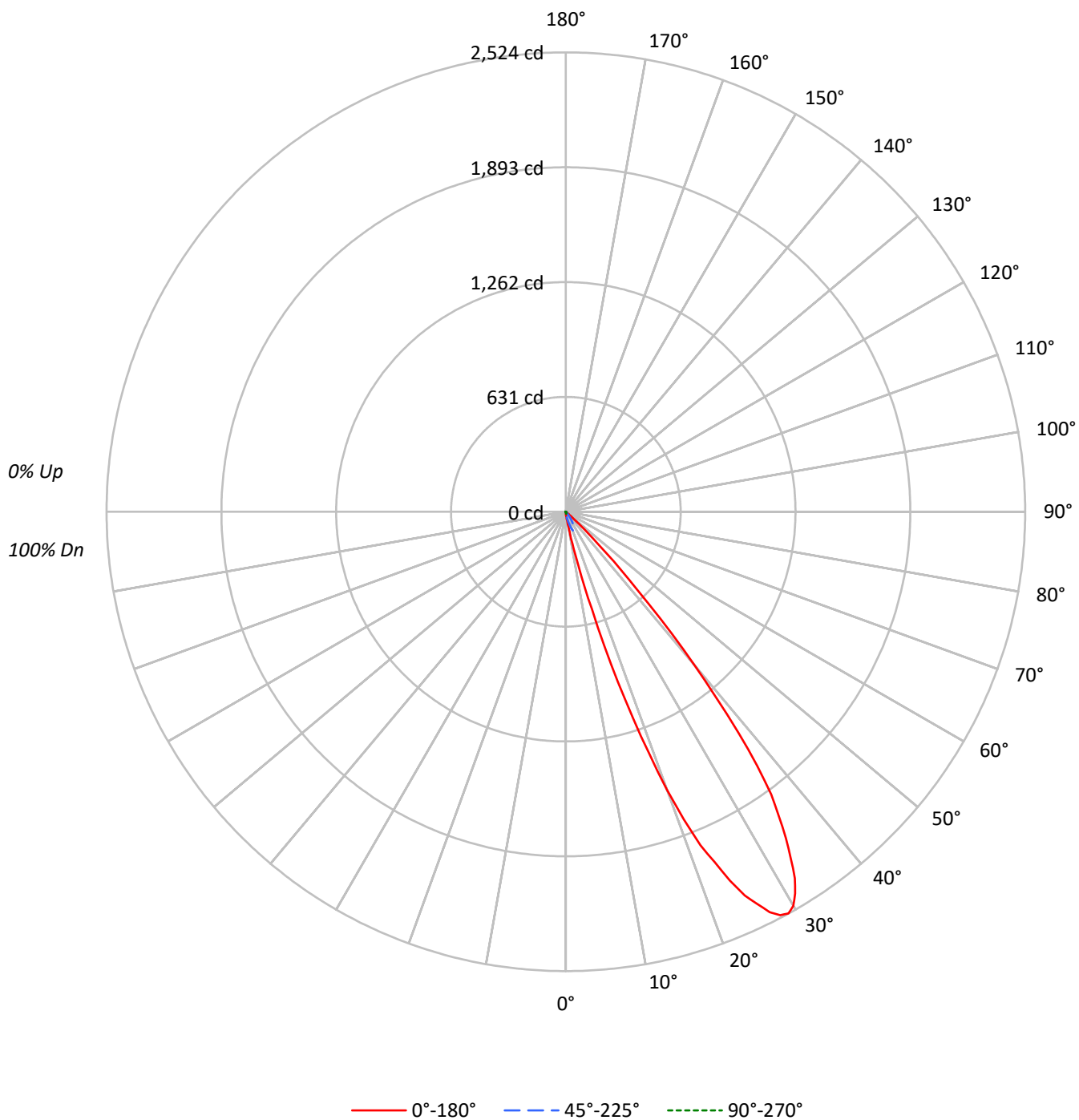
Lumens per Lamp: N/A
Luminaire Lumens: 354.0 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	2675	2675	2675	2675	2675
5°	6141	4600	2553	1563	1343
10°	19372	8016	2071	868	646
15°	125540	14801	1521	295	68
20°	378920	25342	1050	0	0
25°	562750	25574	629	0	0
30°	632832	19446	253	0	0
35°	546012	11618	161	0	0
40°	314418	3950	0	0	0
45°	76690	1582	93	0	93
50°	9211	443	102	102	341
55°	1223	0	229	229	497
60°	132	0	439	439	702
65°	156	156	675	675	986
70°	192	192	833	833	1026
75°	0	254	1101	847	1101
80°	0	379	1263	758	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 77186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	32.8	9.3
20°-30°	143.0	40.4
30°-40°	144.0	40.7
40°-50°	28.9	8.2
50°-60°	1.4	0.4
60°-70°	1.0	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°	177.4	50.1
0°-40°	321.4	90.8
0°-60°	351.8	99.4
0°-90°	354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	28	21	12	7	6	4
15°	553	65	7	1	0	217
25°	2326	106	3	0	0	1049
35°	2040	43	1	0	0	1214
45°	247	5	0	0	0	269
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°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
2.5°	18.3	18.3	18.0	18.0	17.7	18.0	17.3	17.7	17.7	17.3	15.7
5°	27.9	28.6	28.3	28.3	27.9	28.3	27.6	27.0	26.3	26.3	20.9
7.5°	45.9	45.6	45.0	45.3	44.3	43.7	43.0	42.7	40.8	39.8	27.3
10°	87.0	89.0	87.4	87.0	81.3	80.9	77.1	71.6	66.8	64.2	36.0
12.5°	239.6	249.9	233.8	226.1	221.6	204.3	196.9	177.9	159.6	145.8	45.6
15°	553.0	578.4	546.0	548.2	521.2	471.8	428.4	391.2	347.2	302.9	65.2
17.5°	1083.6	1063.0	1045.4	1015.5	960.6	888.0	794.6	699.8	617.9	532.2	90.9
20°	1623.8	1605.5	1565.3	1500.1	1430.1	1322.5	1211.4	1069.1	931.4	802.3	108.6
21°	1809.7	1803.6	1737.8	1697.7	1589.8	1487.0	1358.8	1206.6	1051.5	898.6	111.4
22°	1975.8	1939.2	1903.8	1844.4	1737.2	1625.4	1482.8	1322.5	1154.3	984.4	111.8
23°	2090.8	2074.1	2040.7	1973.5	1866.9	1735.6	1585.3	1417.6	1240.3	1045.1	110.8
24°	2217.9	2196.7	2147.9	2069.6	1962.0	1832.2	1660.7	1494.4	1301.7	1096.1	108.2
25°	2325.9	2292.8	2235.0	2150.5	2033.0	1899.0	1726.6	1543.8	1344.4	1130.5	105.7
26°	2395.9	2377.9	2303.7	2211.8	2085.9	1947.8	1771.9	1581.7	1372.0	1146.2	101.5
27°	2468.8	2435.7	2362.8	2257.1	2120.6	1979.6	1797.5	1600.0	1381.6	1146.9	96.3
28°	2510.5	2474.6	2392.0	2280.9	2143.1	1997.3	1812.3	1605.8	1379.7	1136.9	90.2
29°	2523.7	2478.4	2397.8	2284.7	2148.6	1998.6	1810.1	1597.5	1362.7	1112.5	83.2
30°	2499.3	2453.0	2376.6	2266.4	2131.2	1982.5	1789.2	1569.8	1332.5	1077.5	76.8
31°	2446.0	2406.8	2332.9	2222.4	2092.7	1945.0	1742.0	1524.6	1281.1	1030.6	69.4
32°	2375.6	2337.1	2264.5	2164.6	2032.6	1883.6	1677.4	1453.9	1220.7	960.6	62.0
33°	2270.0	2247.8	2182.6	2087.2	1955.2	1795.9	1590.7	1369.4	1134.7	882.9	55.6
34°	2163.0	2135.1	2089.5	1985.1	1843.1	1684.2	1477.7	1252.9	1029.6	795.8	49.5
35°	2039.7	2023.0	1951.4	1867.9	1725.3	1562.8	1357.6	1139.5	907.3	698.8	43.4
36°	1920.2	1894.5	1813.0	1724.6	1586.2	1410.5	1207.9	1003.0	801.6	608.0	36.9
37°	1746.8	1707.6	1649.5	1556.4	1394.5	1244.8	1059.8	869.7	671.5	509.7	29.9
38°	1542.9	1524.6	1443.9	1350.2	1216.2	1074.3	891.2	730.0	554.0	425.5	22.8
39°	1302.3	1302.0	1224.9	1157.1	1026.1	898.3	733.2	592.5	457.3	342.7	17.7
40°	1098.4	1060.5	1012.9	927.8	827.3	718.8	574.2	463.8	354.9	276.2	13.8
42.5°	575.8	572.6	544.7	480.8	424.6	360.7	286.8	238.9	186.9	152.2	8.7
45°	247.3	248.9	229.6	220.0	198.2	171.5	144.8	120.8	103.4	83.8	5.1
47.5°	62.6	60.1	59.4	61.7	61.7	59.7	53.6	50.4	46.6	42.7	2.9
50°	27.0	26.3	25.7	25.7	24.1	23.1	21.5	19.6	18.0	16.1	1.3
52.5°	10.0	10.3	10.6	10.3	10.3	10.0	10.0	9.6	8.7	7.7	0.6
55°	3.2	3.2	3.2	3.5	3.5	3.9	3.9	3.9	3.9	3.5	0.0
57.5°	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	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°	12.2	12.2	12.2	12.2	12.2	12.2
2.5°	14.1	12.5	10.6	9.0	8.7	8.4
5°	15.7	11.6	8.7	7.1	6.4	6.1
7.5°	17.0	10.6	7.1	5.1	4.5	4.2
10°	17.7	9.3	5.8	3.9	2.9	2.9
12.5°	18.0	8.0	4.2	2.6	1.6	1.6
15°	17.7	6.7	3.2	1.3	0.3	0.3
17.5°	16.1	5.5	1.9	0.3	0.0	0.0
20°	13.8	4.5	1.3	0.0	0.0	0.0
21°	13.2	3.9	1.0	0.0	0.0	0.0
22°	12.2	3.5	0.6	0.0	0.0	0.0
23°	11.2	3.2	0.6	0.0	0.0	0.0
24°	10.3	2.9	0.3	0.0	0.0	0.0
25°	9.6	2.6	0.3	0.0	0.0	0.0
26°	9.0	2.2	0.3	0.0	0.0	0.0
27°	8.0	1.9	0.0	0.0	0.0	0.0
28°	7.4	1.6	0.0	0.0	0.0	0.0
29°	6.4	1.3	0.0	0.0	0.0	0.0
30°	5.5	1.0	0.0	0.0	0.0	0.0
31°	4.5	1.0	0.0	0.0	0.0	0.0
32°	3.9	0.6	0.0	0.0	0.0	0.0
33°	3.2	0.6	0.0	0.0	0.0	0.0
34°	2.9	0.6	0.0	0.0	0.0	0.0
35°	2.6	0.6	0.0	0.0	0.0	0.0
36°	1.9	0.3	0.0	0.0	0.0	0.0
37°	1.6	0.3	0.0	0.0	0.0	0.0
38°	1.3	0.3	0.0	0.0	0.0	0.0
39°	1.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	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	1.0
52.5°	0.0	0.6	0.3	0.3	1.0	1.0
55°	0.3	0.6	0.3	0.6	1.3	1.3
57.5°	0.3	0.6	0.6	1.0	1.3	1.6
60°	0.6	1.0	1.0	1.0	1.6	1.6
62.5°	0.6	1.0	1.3	1.3	1.6	1.9
65°	0.6	1.3	1.3	1.3	1.6	1.9
67.5°	1.0	1.3	1.3	1.3	1.6	1.9
70°	1.0	1.3	1.3	1.3	1.6	1.6
72.5°	1.0	1.3	1.0	1.3	1.3	1.6
75°	1.0	1.3	1.0	1.0	1.3	1.3
77.5°	0.6	1.0	1.0	0.6	1.0	1.0
80°	0.6	1.0	0.6	0.6	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	1.0	0.6	0.3	0.6	0.6
85°	0.6	1.0	0.6	0.3	0.3	0.3
87.5°	0.6	1.0	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)