

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: P1339934

Luminaire Tested: P3A09R159727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R159727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

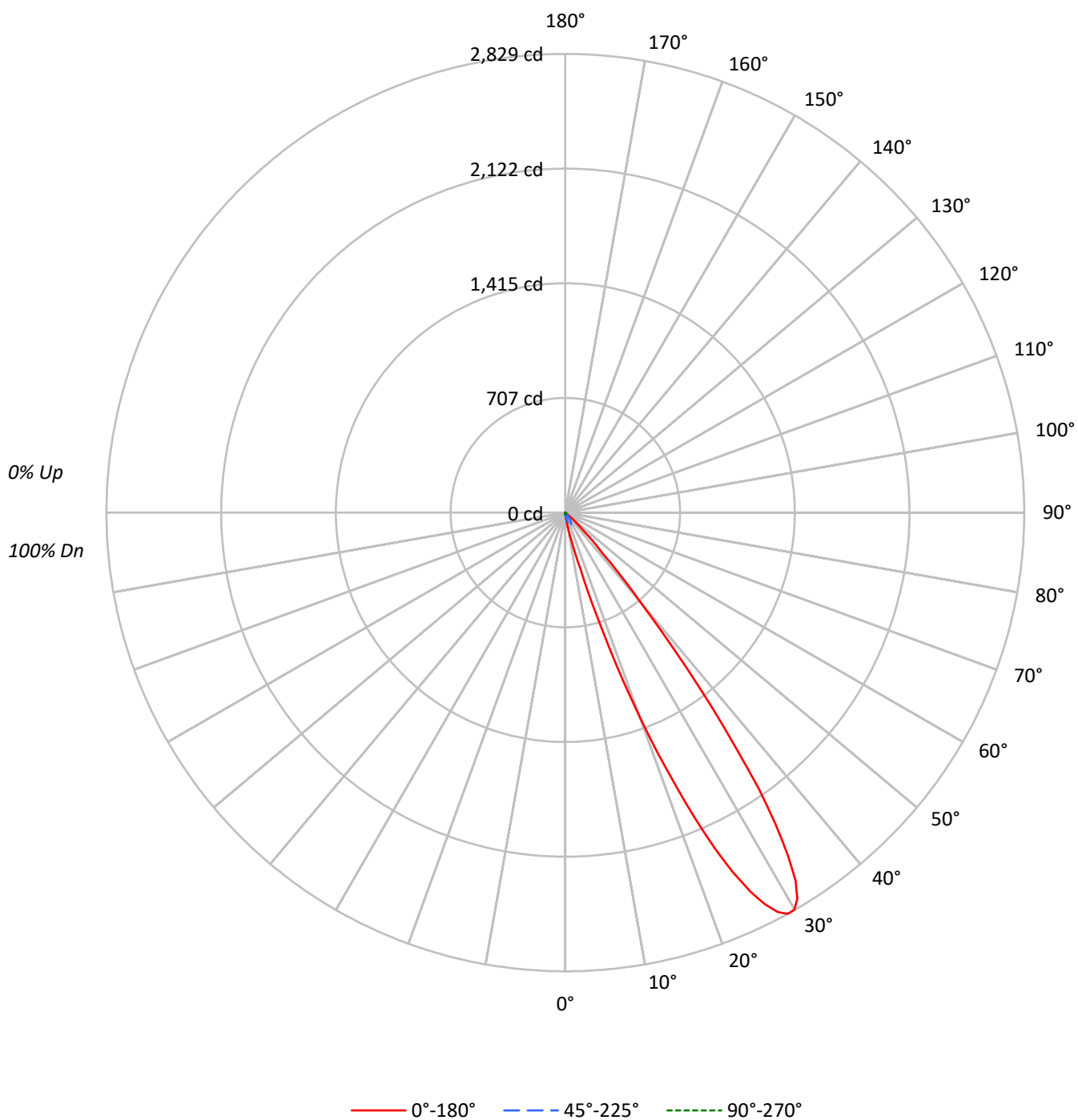
Lumens per Lamp: N/A
Luminaire Lumens: 309.0 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2237	2237	2237	2237	2237
5°	4821	3566	2113	1123	924
10°	21420	6769	1670	468	334
15°	80999	15619	1158	204	136
20°	311504	22029	700	70	70
25°	592341	20662	363	0	0
30°	715553	16661	152	0	0
35°	558085	11350	80	0	0
40°	203667	5582	86	0	86
45°	52284	1675	93	0	186
50°	8801	205	102	102	307
55°	1147	0	229	344	573
60°	132	132	395	526	789
65°	156	156	623	778	934
70°	192	192	769	769	962
75°	254	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52284 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	23.7	7.7
20°-30°	131.3	42.5
30°-40°	126.9	41.1
40°-50°	22.1	7.1
50°-60°	1.6	0.5
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°	156.4	50.6
0°-40°	283.3	91.7
0°-60°	306.9	99.3
0°-90°	309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	309.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	10	5	4	4
15°	357	69	5	1	1	159
25°	2448	85	2	0	0	1095
35°	2085	42	0	0	0	1199
45°	169	5	0	0	1	181
55°	3	0	1	1	2	6
65°	0	0	1	2	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°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	15.0	14.4	14.7	14.7	14.7	14.7	14.7	14.1	14.1	14.4	12.9
5°	21.9	21.9	21.6	21.9	21.9	21.6	21.0	20.7	20.7	20.1	16.2
7.5°	43.9	43.3	43.3	42.7	39.7	38.8	38.2	36.7	34.0	33.4	21.0
10°	96.2	96.5	94.4	91.7	91.4	86.9	85.4	82.7	77.5	72.4	30.4
12.5°	174.6	170.7	165.6	165.9	157.2	154.2	147.3	139.8	132.0	123.8	49.9
15°	356.8	345.7	352.3	336.0	317.7	297.0	275.9	249.5	226.9	202.9	68.8
17.5°	751.4	762.3	743.9	674.5	631.8	581.6	511.0	442.8	384.4	337.6	84.2
20°	1334.9	1350.8	1288.6	1228.2	1124.5	1011.4	893.6	760.2	632.4	521.8	94.4
21°	1578.6	1569.0	1543.5	1446.7	1327.1	1196.0	1051.7	904.4	749.6	606.0	95.3
22°	1814.3	1818.8	1759.3	1658.0	1533.6	1388.4	1212.2	1030.4	863.6	674.5	93.8
23°	2049.0	2063.5	1984.7	1889.7	1733.1	1569.3	1365.5	1169.3	963.1	753.0	90.8
24°	2266.4	2256.4	2203.2	2083.6	1916.2	1724.4	1512.8	1274.8	1044.8	820.0	88.4
25°	2448.2	2447.0	2363.5	2247.1	2055.7	1843.2	1609.9	1361.0	1114.8	865.4	85.4
26°	2597.0	2572.7	2506.8	2365.0	2175.9	1951.7	1689.6	1423.8	1154.2	888.2	82.4
27°	2711.8	2694.4	2606.0	2458.4	2261.0	2013.0	1740.7	1455.1	1172.3	895.7	78.5
28°	2789.1	2770.1	2676.1	2524.0	2307.8	2051.5	1767.7	1468.3	1172.3	888.5	74.8
29°	2829.1	2803.2	2709.4	2546.5	2318.7	2056.0	1761.1	1455.4	1153.9	866.3	70.6
30°	2826.0	2793.9	2695.6	2526.1	2286.5	2019.0	1724.1	1408.8	1112.4	833.2	65.8
31°	2777.4	2741.3	2631.6	2456.9	2220.1	1949.3	1654.4	1346.3	1055.6	790.2	61.0
32°	2678.5	2632.8	2525.8	2351.7	2117.9	1845.0	1553.1	1249.8	970.6	727.4	55.9
33°	2517.4	2471.4	2356.5	2193.3	1979.6	1712.7	1418.7	1146.1	873.8	652.6	51.7
34°	2315.7	2273.6	2174.7	2010.3	1805.3	1545.3	1264.2	1002.7	773.4	578.3	47.2
35°	2084.8	2017.8	1928.2	1798.1	1598.2	1336.7	1097.4	869.3	670.0	500.5	42.4
36°	1772.5	1784.5	1689.6	1530.2	1364.6	1159.6	930.0	724.7	560.3	426.5	38.2
37°	1495.7	1476.7	1416.3	1293.1	1148.8	945.3	779.4	614.4	471.3	360.7	33.7
38°	1206.5	1210.7	1151.5	1056.8	913.8	777.3	627.3	504.7	394.4	306.9	29.5
39°	944.4	941.1	925.2	837.4	707.9	618.3	508.3	418.4	328.5	258.8	24.9
40°	711.5	716.9	679.6	626.7	551.3	477.6	404.9	333.6	271.7	218.2	19.5
42.5°	346.0	354.4	329.7	316.2	282.8	254.0	214.3	174.9	148.8	128.6	8.7
45°	168.6	163.8	161.7	155.1	147.3	131.7	116.6	100.1	87.5	75.4	5.4
47.5°	86.3	83.9	83.9	81.2	78.5	73.3	65.8	60.4	54.4	46.9	2.1
50°	25.8	25.5	25.2	25.5	24.6	25.5	26.2	26.5	24.0	23.7	0.6
52.5°	10.2	10.5	10.2	11.1	11.1	10.8	11.1	10.8	10.5	9.3	0.0
55°	3.0	3.0	3.0	3.0	3.0	3.0	3.3	3.6	3.3	3.6	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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°	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	12.0	10.5	8.7	7.2	6.6	6.3
5°	12.9	9.6	6.6	5.1	4.5	4.2
7.5°	13.8	8.7	5.1	3.6	2.7	2.4
10°	14.4	7.5	3.9	2.1	1.5	1.5
12.5°	14.4	6.0	2.7	1.2	0.9	0.9
15°	14.1	5.1	1.8	0.9	0.6	0.6
17.5°	13.8	3.9	1.2	0.6	0.3	0.6
20°	12.9	3.0	0.6	0.3	0.3	0.3
21°	12.6	2.7	0.6	0.3	0.3	0.3
22°	12.0	2.4	0.3	0.0	0.3	0.3
23°	11.4	1.8	0.3	0.0	0.0	0.0
24°	10.5	1.5	0.3	0.0	0.0	0.0
25°	9.9	1.5	0.3	0.0	0.0	0.0
26°	9.3	0.9	0.0	0.0	0.0	0.0
27°	8.4	0.6	0.0	0.0	0.0	0.0
28°	7.8	0.6	0.0	0.0	0.0	0.0
29°	6.9	0.6	0.0	0.0	0.0	0.0
30°	6.0	0.6	0.0	0.0	0.0	0.0
31°	4.8	0.3	0.0	0.0	0.0	0.0
32°	3.9	0.3	0.0	0.0	0.0	0.0
33°	2.7	0.3	0.0	0.0	0.0	0.0
34°	1.8	0.3	0.0	0.0	0.0	0.0
35°	1.5	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.3	0.0	0.0	0.0	0.3
37°	0.9	0.3	0.0	0.0	0.0	0.3
38°	0.6	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.6	0.9	1.2
55°	0.3	0.6	0.6	0.9	1.2	1.5
57.5°	0.3	0.9	0.9	1.2	1.5	1.5
60°	0.6	0.9	1.2	1.2	1.8	1.8
62.5°	0.6	1.2	1.2	1.2	1.8	1.8
65°	0.6	1.2	1.2	1.5	1.8	1.8
67.5°	0.6	1.2	1.2	1.2	1.5	1.8
70°	0.6	1.2	0.9	1.2	1.5	1.5
72.5°	0.6	1.2	0.9	0.9	1.2	1.5
75°	0.6	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	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)