

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: P1339982

Luminaire Tested: P3A09R159740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339982
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: P3A09R159740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

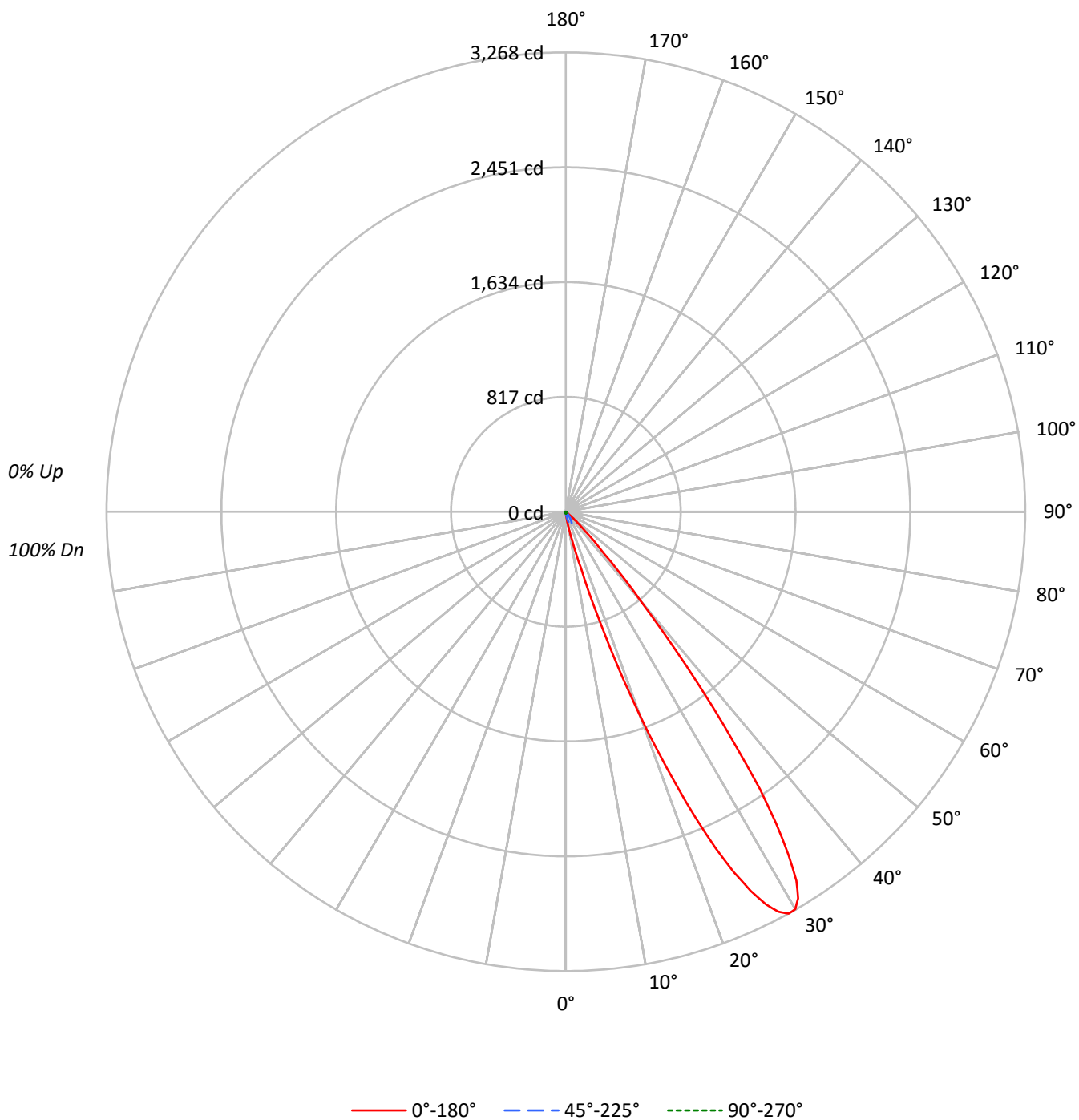
Lumens per Lamp: N/A
Luminaire Lumens: 356.9 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2588	2588	2588	2588	2588
5°	5591	4138	2443	1299	1079
10°	24738	7815	1937	534	379
15°	93576	18048	1339	227	159
20°	359878	25436	817	70	70
25°	684354	23856	411	0	0
30°	826709	19269	177	0	0
35°	644790	13117	80	0	0
40°	235298	6469	86	0	86
45°	60409	1954	93	0	217
50°	10200	239	102	102	341
55°	1338	0	268	382	650
60°	132	132	439	614	921
65°	156	156	726	882	1090
70°	192	192	898	898	1090
75°	254	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60409 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	27.3	7.7
20°-30°	151.7	42.5
30°-40°	146.6	41.1
40°-50°	25.5	7.1
50°-60°	1.8	0.5
60°-70°	1.1	0.3
70°-80°	0.9	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°	180.7	50.6
0°-40°	327.3	91.7
0°-60°	354.6	99.3
0°-90°	356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	356.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	25	19	11	6	5	5
15°	412	80	6	1	1	184
25°	2828	99	2	0	0	1265
35°	2409	49	0	0	0	1385
45°	195	6	0	0	1	209
55°	4	0	1	1	2	7
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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	17.4	16.7	17.0	17.0	17.0	17.0	17.0	16.3	16.3	16.7	14.9
5°	25.4	25.4	25.0	25.4	25.4	25.0	24.3	24.0	24.0	23.3	18.8
7.5°	50.7	50.0	50.0	49.3	45.8	44.8	44.1	42.4	39.2	38.5	24.3
10°	111.1	111.5	109.0	105.9	105.6	100.4	98.6	95.5	89.6	83.7	35.1
12.5°	201.8	197.3	191.3	191.7	181.6	178.2	170.2	161.5	152.5	143.1	57.6
15°	412.2	399.4	407.0	388.2	367.1	343.1	318.8	288.2	262.2	234.4	79.5
17.5°	868.2	880.7	859.5	779.3	730.0	672.0	590.4	511.5	444.2	390.0	97.2
20°	1542.2	1560.6	1488.8	1419.0	1299.1	1168.6	1032.4	878.2	730.7	602.9	109.0
21°	1823.9	1812.8	1783.2	1671.4	1533.2	1381.8	1215.1	1044.9	866.1	700.1	110.1
22°	2096.1	2101.3	2032.6	1915.5	1771.8	1604.0	1400.5	1190.4	997.7	779.3	108.3
23°	2367.3	2384.0	2293.0	2183.3	2002.4	1813.1	1577.7	1350.9	1112.7	869.9	104.9
24°	2618.4	2607.0	2545.5	2407.3	2213.9	1992.3	1747.8	1472.8	1207.1	947.4	102.1
25°	2828.5	2827.1	2730.6	2596.2	2375.0	2129.5	1860.0	1572.4	1288.0	999.8	98.6
26°	3000.4	2972.3	2896.2	2732.3	2513.9	2254.8	1952.0	1645.0	1333.5	1026.2	95.2
27°	3133.1	3112.9	3010.8	2840.3	2612.2	2325.7	2011.0	1681.1	1354.4	1034.9	90.6
28°	3222.3	3200.5	3091.8	2916.0	2666.3	2370.1	2042.3	1696.4	1354.4	1026.5	86.5
29°	3268.5	3238.7	3130.3	2942.1	2678.9	2375.3	2034.7	1681.5	1333.2	1000.8	81.6
30°	3265.0	3227.9	3114.3	2918.5	2641.7	2332.6	1991.9	1627.7	1285.3	962.6	76.1
31°	3208.8	3167.1	3040.4	2838.6	2564.9	2252.1	1911.4	1555.4	1219.6	913.0	70.5
32°	3094.5	3041.7	2918.1	2717.1	2446.9	2131.6	1794.4	1444.0	1121.3	840.4	64.6
33°	2908.4	2855.3	2722.6	2534.0	2287.1	1978.8	1639.1	1324.1	1009.5	753.9	59.7
34°	2675.4	2626.8	2512.5	2322.6	2085.7	1785.3	1460.6	1158.5	893.5	668.1	54.5
35°	2408.7	2331.2	2227.7	2077.4	1846.4	1544.3	1267.9	1004.3	774.1	578.2	49.0
36°	2047.9	2061.7	1952.0	1768.0	1576.6	1339.8	1074.5	837.3	647.3	492.8	44.1
37°	1728.0	1706.1	1636.3	1494.0	1327.3	1092.2	900.5	709.8	544.5	416.7	38.9
38°	1393.9	1398.8	1330.4	1221.0	1055.7	898.0	724.8	583.1	455.6	354.6	34.0
39°	1091.1	1087.3	1068.9	967.5	817.8	714.3	587.2	483.4	379.6	299.0	28.8
40°	822.0	828.2	785.2	724.1	636.9	551.8	467.8	385.5	313.9	252.1	22.6
42.5°	399.7	409.4	381.0	365.3	326.8	293.4	247.6	202.1	171.9	148.6	10.1
45°	194.8	189.3	186.8	179.2	170.2	152.1	134.7	115.6	101.1	87.2	6.3
47.5°	99.7	96.9	96.9	93.8	90.6	84.7	76.1	69.8	62.9	54.2	2.4
50°	29.9	29.5	29.2	29.5	28.5	29.5	30.2	30.6	27.8	27.4	0.7
52.5°	11.8	12.2	11.8	12.8	12.8	12.5	12.8	12.5	12.2	10.8	0.0
55°	3.5	3.5	3.5	3.5	3.5	3.5	3.8	4.2	3.8	4.2	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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°	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	13.9	12.2	10.1	8.3	7.6	7.3
5°	14.9	11.1	7.6	5.9	5.2	4.9
7.5°	16.0	10.1	5.9	4.2	3.1	2.8
10°	16.7	8.7	4.5	2.4	1.7	1.7
12.5°	16.7	6.9	3.1	1.4	1.0	1.0
15°	16.3	5.9	2.1	1.0	0.7	0.7
17.5°	16.0	4.5	1.4	0.7	0.3	0.7
20°	14.9	3.5	0.7	0.3	0.3	0.3
21°	14.6	3.1	0.7	0.3	0.3	0.3
22°	13.9	2.8	0.3	0.0	0.3	0.3
23°	13.2	2.1	0.3	0.0	0.0	0.0
24°	12.2	1.7	0.3	0.0	0.0	0.0
25°	11.5	1.7	0.3	0.0	0.0	0.0
26°	10.8	1.0	0.0	0.0	0.0	0.0
27°	9.7	0.7	0.0	0.0	0.0	0.0
28°	9.0	0.7	0.0	0.0	0.0	0.0
29°	8.0	0.7	0.0	0.0	0.0	0.0
30°	6.9	0.7	0.0	0.0	0.0	0.0
31°	5.6	0.3	0.0	0.0	0.0	0.0
32°	4.5	0.3	0.0	0.0	0.0	0.0
33°	3.1	0.3	0.0	0.0	0.0	0.0
34°	2.1	0.3	0.0	0.0	0.0	0.0
35°	1.7	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.3	0.0	0.0	0.0	0.3
37°	1.0	0.3	0.0	0.0	0.0	0.3
38°	0.7	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	0.7
45°	0.0	0.3	0.0	0.0	0.3	0.7
47.5°	0.0	0.3	0.0	0.0	0.7	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.7	1.0	1.4
55°	0.3	0.7	0.7	1.0	1.4	1.7
57.5°	0.3	1.0	1.0	1.4	1.7	1.7
60°	0.7	1.0	1.4	1.4	2.1	2.1
62.5°	0.7	1.4	1.4	1.4	2.1	2.1
65°	0.7	1.4	1.4	1.7	2.1	2.1
67.5°	0.7	1.4	1.4	1.4	1.7	2.1
70°	0.7	1.4	1.0	1.4	1.7	1.7
72.5°	0.7	1.4	1.0	1.0	1.4	1.7
75°	0.7	1.4	1.0	1.0	1.4	1.4
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)