

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: P1344076

Luminaire Tested: P3A13R209835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344076
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: P3A13R209835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

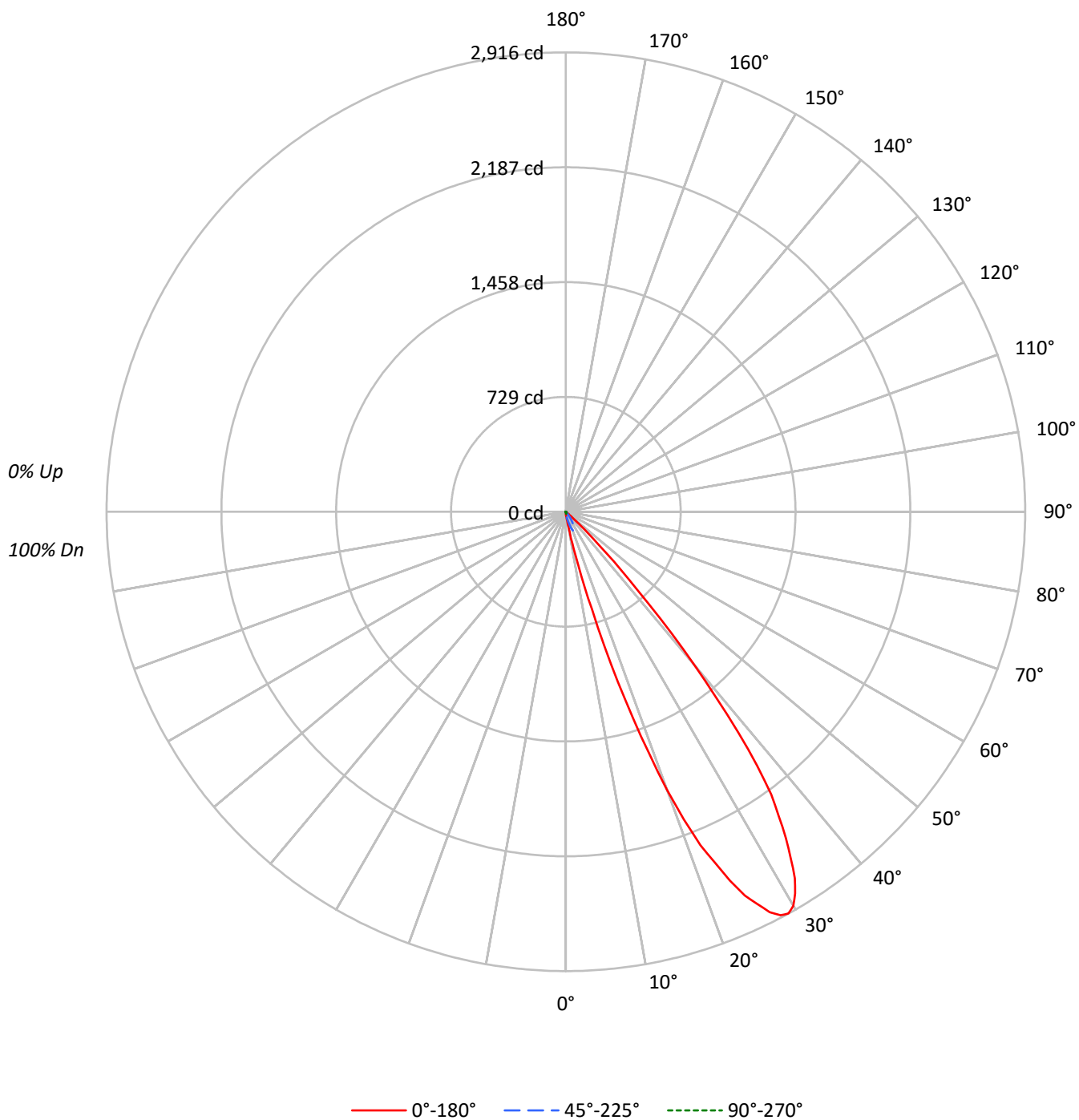
Lumens per Lamp: N/A
Luminaire Lumens: 409.0 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3092	3092	3092	3092	3092
5°	7110	5305	2950	1805	1563
10°	22400	9263	2405	1002	735
15°	145063	17094	1771	341	91
20°	437795	29263	1213	0	0
25°	650167	29542	726	0	0
30°	731150	22459	279	0	0
35°	630844	13411	187	0	0
40°	363252	4580	0	0	0
45°	88598	1830	124	0	124
50°	10644	512	136	136	375
55°	1415	0	268	268	573
60°	175	0	482	482	833
65°	208	208	778	778	1141
70°	256	256	962	962	1218
75°	0	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 89188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	37.9	9.3
20°-30°	165.2	40.4
30°-40°	166.4	40.7
40°-50°	33.4	8.2
50°-60°	1.7	0.4
60°-70°	1.1	0.3
70°-80°	1.0	0.2
80°-90°	0.5	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°	205.0	50.1
0°-40°	371.4	90.8
0°-60°	406.4	99.4
0°-90°	409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	32	24	13	8	7	5
15°	639	75	8	2	0	250
25°	2687	122	3	0	0	1212
35°	2357	50	1	0	0	1402
45°	286	6	0	0	0	311
55°	4	0	1	1	2	7
65°	0	0	2	2	2	0
75°	0	0	2	1	2	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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	21.2	21.2	20.8	20.8	20.4	20.8	20.0	20.4	20.4	20.0	18.2
5°	32.3	33.0	32.7	32.7	32.3	32.7	31.9	31.2	30.4	30.4	24.1
7.5°	53.1	52.7	51.9	52.3	51.2	50.5	49.7	49.4	47.1	46.0	31.5
10°	100.6	102.8	100.9	100.6	93.9	93.5	89.1	82.7	77.2	74.2	41.6
12.5°	276.8	288.7	270.1	261.2	256.0	236.0	227.5	205.6	184.4	168.5	52.7
15°	639.0	668.3	630.8	633.4	602.2	545.1	495.0	452.0	401.1	349.9	75.3
17.5°	1252.0	1228.2	1207.8	1173.3	1109.8	1026.0	918.0	808.5	713.9	614.8	105.0
20°	1876.1	1854.9	1808.5	1733.2	1652.3	1528.0	1399.6	1235.3	1076.1	926.9	125.4
21°	2090.9	2083.9	2007.8	1961.4	1836.7	1718.0	1570.0	1394.1	1214.9	1038.2	128.8
22°	2282.8	2240.5	2199.6	2131.0	2007.1	1877.9	1713.2	1528.0	1333.6	1137.3	129.1
23°	2415.6	2396.3	2357.7	2280.2	2157.0	2005.2	1831.6	1637.9	1433.0	1207.4	128.0
24°	2562.5	2538.0	2481.6	2391.1	2266.8	2116.9	1918.8	1726.5	1503.9	1266.4	125.0
25°	2687.2	2649.0	2582.2	2484.6	2348.8	2194.1	1994.8	1783.7	1553.3	1306.1	122.1
26°	2768.1	2747.3	2661.6	2555.5	2410.0	2250.5	2047.1	1827.5	1585.2	1324.3	117.3
27°	2852.3	2814.1	2729.9	2607.8	2450.1	2287.2	2076.8	1848.6	1596.3	1325.1	111.3
28°	2900.6	2859.0	2763.7	2635.3	2476.1	2307.6	2093.9	1855.3	1594.1	1313.6	104.3
29°	2915.8	2863.5	2770.3	2639.7	2482.4	2309.1	2091.3	1845.7	1574.4	1285.4	96.1
30°	2887.6	2834.2	2745.8	2618.6	2462.4	2290.6	2067.2	1813.7	1539.5	1244.9	88.7
31°	2826.0	2780.7	2695.4	2567.7	2417.8	2247.1	2012.6	1761.4	1480.2	1190.7	80.1
32°	2744.7	2700.2	2616.3	2500.9	2348.4	2176.3	1938.0	1679.8	1410.4	1109.8	71.6
33°	2622.7	2597.0	2521.7	2411.5	2259.0	2075.0	1837.9	1582.2	1311.0	1020.0	64.2
34°	2499.1	2466.8	2414.1	2293.5	2129.5	1945.8	1707.2	1447.5	1189.6	919.5	57.1
35°	2356.6	2337.3	2254.6	2158.1	1993.3	1805.6	1568.5	1316.5	1048.2	807.4	50.1
36°	2218.6	2188.9	2094.6	1992.6	1832.7	1629.7	1395.6	1158.8	926.2	702.4	42.7
37°	2018.2	1972.9	1905.8	1798.2	1611.1	1438.2	1224.5	1004.8	775.9	588.9	34.5
38°	1782.6	1761.4	1668.3	1559.9	1405.2	1241.2	1029.7	843.4	640.1	491.7	26.3
39°	1504.6	1504.3	1415.2	1336.9	1185.5	1037.9	847.1	684.6	528.4	395.9	20.4
40°	1269.0	1225.2	1170.3	1072.0	955.9	830.4	663.5	535.8	410.0	319.1	16.0
42.5°	665.3	661.6	629.3	555.5	490.5	416.7	331.4	276.1	216.0	175.9	10.0
45°	285.7	287.6	265.3	254.2	228.9	198.1	167.3	139.5	119.5	96.8	5.9
47.5°	72.4	69.4	68.6	71.2	71.2	69.0	62.0	58.3	53.8	49.4	3.3
50°	31.2	30.4	29.7	29.7	27.8	26.7	24.9	22.6	20.8	18.6	1.5
52.5°	11.5	11.9	12.2	11.9	11.9	11.5	11.5	11.1	10.0	8.9	0.7
55°	3.7	3.7	3.7	4.1	4.1	4.5	4.5	4.5	4.5	4.1	0.0
57.5°	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	16.3	14.5	12.2	10.4	10.0	9.6
5°	18.2	13.4	10.0	8.2	7.4	7.1
7.5°	19.7	12.2	8.2	5.9	5.2	4.8
10°	20.4	10.8	6.7	4.5	3.3	3.3
12.5°	20.8	9.3	4.8	3.0	1.9	1.9
15°	20.4	7.8	3.7	1.5	0.4	0.4
17.5°	18.6	6.3	2.2	0.4	0.0	0.0
20°	16.0	5.2	1.5	0.0	0.0	0.0
21°	15.2	4.5	1.1	0.0	0.0	0.0
22°	14.1	4.1	0.7	0.0	0.0	0.0
23°	13.0	3.7	0.7	0.0	0.0	0.0
24°	11.9	3.3	0.4	0.0	0.0	0.0
25°	11.1	3.0	0.4	0.0	0.0	0.0
26°	10.4	2.6	0.4	0.0	0.0	0.0
27°	9.3	2.2	0.0	0.0	0.0	0.0
28°	8.5	1.9	0.0	0.0	0.0	0.0
29°	7.4	1.5	0.0	0.0	0.0	0.0
30°	6.3	1.1	0.0	0.0	0.0	0.0
31°	5.2	1.1	0.0	0.0	0.0	0.0
32°	4.5	0.7	0.0	0.0	0.0	0.0
33°	3.7	0.7	0.0	0.0	0.0	0.0
34°	3.3	0.7	0.0	0.0	0.0	0.0
35°	3.0	0.7	0.0	0.0	0.0	0.0
36°	2.2	0.4	0.0	0.0	0.0	0.0
37°	1.9	0.4	0.0	0.0	0.0	0.0
38°	1.5	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.4	1.1	1.1
55°	0.4	0.7	0.4	0.7	1.5	1.5
57.5°	0.4	0.7	0.7	1.1	1.5	1.9
60°	0.7	1.1	1.1	1.1	1.9	1.9
62.5°	0.7	1.1	1.5	1.5	1.9	2.2
65°	0.7	1.5	1.5	1.5	1.9	2.2
67.5°	1.1	1.5	1.5	1.5	1.9	2.2
70°	1.1	1.5	1.5	1.5	1.9	1.9
72.5°	1.1	1.5	1.1	1.5	1.5	1.9
75°	1.1	1.5	1.1	1.1	1.5	1.5
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.7	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)