

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: P1343893

Luminaire Tested: P3A13R209027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343893
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: P3A13R209027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

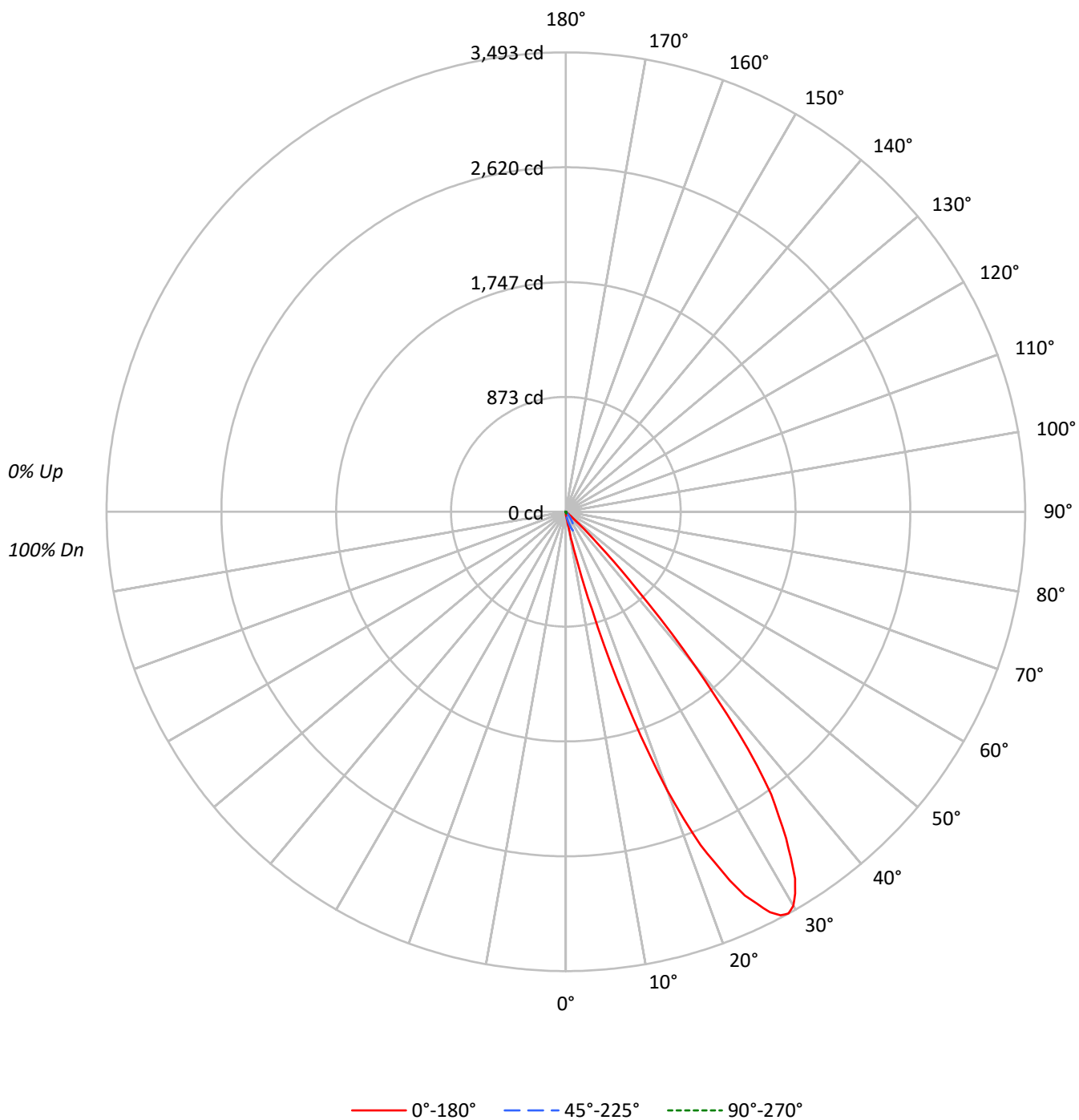
Lumens per Lamp: N/A
Luminaire Lumens: 489.9 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	3706	3706	3706	3706	3706
5°	8519	6361	3522	2157	1849
10°	26831	11089	2872	1180	891
15°	173781	20477	2111	409	91
20°	524486	35073	1447	0	0
25°	778932	35397	871	0	0
30°	875958	26890	329	0	0
35°	755776	16062	241	0	0
40°	435187	5467	0	0	0
45°	106151	2202	124	0	124
50°	12725	614	136	136	443
55°	1682	0	344	344	688
60°	175	0	570	570	965
65°	208	208	934	934	1401
70°	256	256	1154	1154	1410
75°	0	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 106833 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	45.4	9.3
20°-30°	197.9	40.4
30°-40°	199.3	40.7
40°-50°	40.0	8.2
50°-60°	2.0	0.4
60°-70°	1.3	0.3
70°-80°	1.2	0.2
80°-90°	0.6	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°	245.6	50.1
0°-40°	444.9	90.8
0°-60°	486.9	99.4
0°-90°	489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	489.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	39	29	16	10	8	6
15°	766	90	9	2	0	300
25°	3219	146	4	0	0	1452
35°	2823	60	1	0	0	1680
45°	342	7	0	0	0	373
55°	4	0	1	1	2	8
65°	0	0	2	2	3	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°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	25.3	25.3	24.9	24.9	24.5	24.9	24.0	24.5	24.5	24.0	21.8
5°	38.7	39.6	39.1	39.1	38.7	39.1	38.2	37.3	36.5	36.5	28.9
7.5°	63.6	63.1	62.2	62.7	61.3	60.5	59.6	59.1	56.5	55.1	37.8
10°	120.5	123.1	120.9	120.5	112.5	112.0	106.7	99.1	92.5	88.9	49.8
12.5°	331.6	345.9	323.6	313.0	306.7	282.7	272.5	246.3	220.9	201.8	63.1
15°	765.5	800.6	755.7	758.8	721.5	653.0	593.0	541.5	480.6	419.2	90.2
17.5°	1499.9	1471.4	1447.0	1405.7	1329.6	1229.2	1099.8	968.7	855.3	736.6	125.8
20°	2247.6	2222.3	2166.7	2076.5	1979.6	1830.6	1676.8	1479.9	1289.2	1110.5	150.3
21°	2505.0	2496.6	2405.4	2349.9	2200.5	2058.2	1880.9	1670.2	1455.4	1243.8	154.3
22°	2734.8	2684.2	2635.3	2553.0	2404.6	2249.8	2052.5	1830.6	1597.7	1362.5	154.7
23°	2894.0	2870.9	2824.6	2731.7	2584.1	2402.3	2194.3	1962.2	1716.8	1446.6	153.4
24°	3070.0	3040.7	2973.1	2864.7	2715.7	2536.1	2298.7	2068.5	1801.7	1517.2	149.8
25°	3219.4	3173.6	3093.6	2976.7	2814.0	2628.6	2389.9	2136.9	1860.9	1564.8	146.3
26°	3316.3	3291.4	3188.7	3061.6	2887.3	2696.2	2452.6	2189.4	1899.1	1586.6	140.5
27°	3417.2	3371.4	3270.5	3124.3	2935.3	2740.2	2488.1	2214.7	1912.4	1587.5	133.4
28°	3475.0	3425.2	3311.0	3157.2	2966.5	2764.6	2508.6	2222.7	1909.8	1573.7	124.9
29°	3493.2	3430.6	3319.0	3162.5	2974.0	2766.4	2505.5	2211.2	1886.2	1539.9	115.1
30°	3459.5	3395.4	3289.6	3137.2	2950.0	2744.2	2476.6	2172.9	1844.4	1491.5	106.2
31°	3385.7	3331.4	3229.2	3076.3	2896.7	2692.2	2411.2	2110.3	1773.3	1426.5	96.0
32°	3288.3	3235.0	3134.5	2996.2	2813.5	2607.3	2321.9	2012.5	1689.7	1329.6	85.8
33°	3142.1	3111.4	3021.1	2889.1	2706.4	2485.9	2201.8	1895.5	1570.6	1222.1	76.9
34°	2994.0	2955.3	2892.2	2747.7	2551.3	2331.2	2045.4	1734.2	1425.2	1101.6	68.5
35°	2823.3	2800.2	2701.1	2585.5	2388.1	2163.2	1879.1	1577.2	1255.8	967.3	60.0
36°	2657.9	2622.4	2509.5	2387.2	2195.6	1952.4	1671.9	1388.3	1109.6	841.5	51.1
37°	2417.9	2363.7	2283.2	2154.3	1930.2	1723.1	1467.0	1203.8	929.5	705.5	41.3
38°	2135.6	2110.3	1998.7	1868.9	1683.5	1487.0	1233.6	1010.5	766.8	589.0	31.6
39°	1802.6	1802.2	1695.5	1601.7	1420.3	1243.4	1014.9	820.2	633.0	474.3	24.5
40°	1520.3	1467.9	1402.1	1284.3	1145.2	994.9	794.8	641.9	491.2	382.3	19.1
42.5°	797.1	792.6	754.0	665.5	587.7	499.2	397.0	330.7	258.7	210.7	12.0
45°	342.3	344.5	317.9	304.5	274.3	237.4	200.5	167.1	143.1	116.0	7.1
47.5°	86.7	83.1	82.2	85.4	85.4	82.7	74.2	69.8	64.5	59.1	4.0
50°	37.3	36.5	35.6	35.6	33.3	32.0	29.8	27.1	24.9	22.2	1.8
52.5°	13.8	14.2	14.7	14.2	14.2	13.8	13.8	13.3	12.0	10.7	0.9
55°	4.4	4.4	4.4	4.9	4.9	5.3	5.3	5.3	5.3	4.9	0.0
57.5°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	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°	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	19.6	17.3	14.7	12.4	12.0	11.6
5°	21.8	16.0	12.0	9.8	8.9	8.4
7.5°	23.6	14.7	9.8	7.1	6.2	5.8
10°	24.5	12.9	8.0	5.3	4.0	4.0
12.5°	24.9	11.1	5.8	3.6	2.2	2.2
15°	24.5	9.3	4.4	1.8	0.4	0.4
17.5°	22.2	7.6	2.7	0.4	0.0	0.0
20°	19.1	6.2	1.8	0.0	0.0	0.0
21°	18.2	5.3	1.3	0.0	0.0	0.0
22°	16.9	4.9	0.9	0.0	0.0	0.0
23°	15.6	4.4	0.9	0.0	0.0	0.0
24°	14.2	4.0	0.4	0.0	0.0	0.0
25°	13.3	3.6	0.4	0.0	0.0	0.0
26°	12.4	3.1	0.4	0.0	0.0	0.0
27°	11.1	2.7	0.0	0.0	0.0	0.0
28°	10.2	2.2	0.0	0.0	0.0	0.0
29°	8.9	1.8	0.0	0.0	0.0	0.0
30°	7.6	1.3	0.0	0.0	0.0	0.0
31°	6.2	1.3	0.0	0.0	0.0	0.0
32°	5.3	0.9	0.0	0.0	0.0	0.0
33°	4.4	0.9	0.0	0.0	0.0	0.0
34°	4.0	0.9	0.0	0.0	0.0	0.0
35°	3.6	0.9	0.0	0.0	0.0	0.0
36°	2.7	0.4	0.0	0.0	0.0	0.0
37°	2.2	0.4	0.0	0.0	0.0	0.0
38°	1.8	0.4	0.0	0.0	0.0	0.0
39°	1.3	0.0	0.0	0.0	0.0	0.0
40°	1.3	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	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.4	1.3	1.3
55°	0.4	0.9	0.4	0.9	1.8	1.8
57.5°	0.4	0.9	0.9	1.3	1.8	2.2
60°	0.9	1.3	1.3	1.3	2.2	2.2
62.5°	0.9	1.3	1.8	1.8	2.2	2.7
65°	0.9	1.8	1.8	1.8	2.2	2.7
67.5°	1.3	1.8	1.8	1.8	2.2	2.7
70°	1.3	1.8	1.8	1.8	2.2	2.2
72.5°	1.3	1.8	1.3	1.8	1.8	2.2
75°	1.3	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.9	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)