

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: P1344224

Luminaire Tested: P3A13R20W2N902750DE010 E3A301WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344224
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: P3A13R20W2N902750DE010 E3A301WMH_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

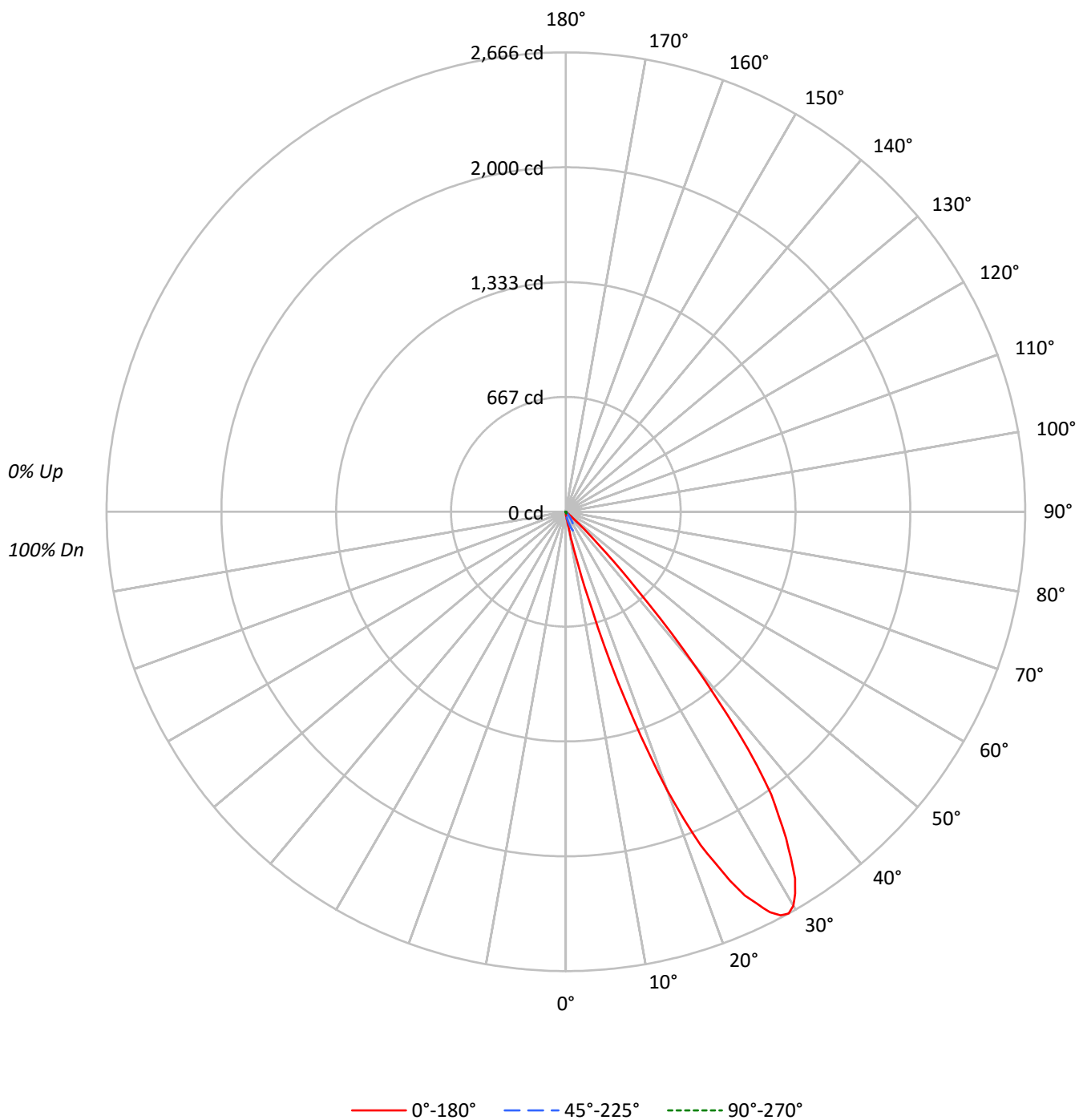
Lumens per Lamp: N/A
Luminaire Lumens: 374.0 lumens
Efficiency: N/A
Efficacy: 30.4 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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
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°	2829	2829	2829	2829	2829
5°	6493	4865	2685	1651	1409
10°	20485	8461	2182	913	690
15°	132645	15641	1612	318	68
20°	400318	26766	1120	0	0
25°	594542	27002	653	0	0
30°	668584	20535	253	0	0
35°	576850	12260	187	0	0
40°	332165	4179	0	0	0
45°	81032	1675	93	0	93
50°	9722	478	102	102	341
55°	1300	0	268	268	535
60°	132	0	439	439	746
65°	156	156	726	726	1038
70°	192	192	898	898	1090
75°	0	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 81559 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	34.7	9.3
20°-30°	151.1	40.4
30°-40°	152.1	40.7
40°-50°	30.5	8.2
50°-60°	1.5	0.4
60°-70°	1.0	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°	187.5	50.1
0°-40°	339.6	90.8
0°-60°	371.6	99.4
0°-90°	374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	374.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	30	22	12	8	6	5
15°	584	69	7	1	0	229
25°	2457	112	3	0	0	1108
35°	2155	46	1	0	0	1282
45°	261	5	0	0	0	284
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°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	19.3	19.3	19.0	19.0	18.7	19.0	18.3	18.7	18.7	18.3	16.6
5°	29.5	30.2	29.9	29.9	29.5	29.9	29.2	28.5	27.8	27.8	22.1
7.5°	48.5	48.2	47.5	47.8	46.8	46.1	45.5	45.1	43.1	42.1	28.8
10°	92.0	94.0	92.3	92.0	85.8	85.5	81.4	75.7	70.6	67.9	38.0
12.5°	253.1	264.0	247.0	238.9	234.1	215.8	208.0	188.0	168.6	154.0	48.2
15°	584.3	611.1	576.8	579.2	550.7	498.4	452.6	413.3	366.8	320.0	68.9
17.5°	1144.8	1123.1	1104.4	1072.9	1014.9	938.2	839.4	739.3	652.8	562.2	96.0
20°	1715.5	1696.2	1653.8	1584.9	1510.9	1397.3	1279.9	1129.6	984.0	847.6	114.7
21°	1912.0	1905.5	1836.0	1793.6	1679.6	1571.0	1435.6	1274.8	1110.9	949.4	117.7
22°	2087.4	2048.7	2011.4	1948.6	1835.3	1717.2	1566.6	1397.3	1219.5	1040.0	118.1
23°	2208.9	2191.2	2156.0	2085.0	1972.4	1833.6	1674.8	1497.7	1310.4	1104.1	117.1
24°	2343.3	2320.9	2269.3	2186.5	2072.8	1935.7	1754.6	1578.8	1375.2	1158.1	114.3
25°	2457.3	2422.3	2361.2	2272.0	2147.8	2006.3	1824.1	1631.0	1420.3	1194.4	111.6
26°	2531.2	2512.2	2433.8	2336.8	2203.8	2057.9	1872.0	1671.1	1449.5	1211.0	107.2
27°	2608.3	2573.3	2496.3	2384.6	2240.4	2091.5	1899.1	1690.4	1459.7	1211.7	101.8
28°	2652.4	2614.4	2527.2	2409.8	2264.2	2110.1	1914.7	1696.5	1457.7	1201.1	95.3
29°	2666.3	2618.4	2533.3	2413.8	2270.0	2111.5	1912.3	1687.7	1439.7	1175.4	87.9
30°	2640.5	2591.6	2510.9	2394.5	2251.6	2094.5	1890.3	1658.5	1407.8	1138.4	81.1
31°	2584.2	2542.8	2464.7	2348.0	2210.9	2054.8	1840.4	1610.7	1353.5	1088.8	73.3
32°	2509.9	2469.1	2392.5	2286.9	2147.5	1990.0	1772.2	1536.0	1289.7	1014.9	65.5
33°	2398.2	2374.8	2305.9	2205.2	2065.7	1897.4	1680.6	1446.8	1198.8	932.8	58.7
34°	2285.2	2255.7	2207.5	2097.3	1947.3	1779.3	1561.1	1323.6	1087.8	840.8	52.3
35°	2154.9	2137.3	2061.6	1973.4	1822.8	1651.1	1434.2	1203.9	958.5	738.3	45.8
36°	2028.7	2001.6	1915.4	1822.1	1675.8	1490.2	1276.1	1059.7	846.9	642.3	39.0
37°	1845.5	1804.1	1742.7	1644.3	1473.3	1315.2	1119.7	918.8	709.5	538.5	31.6
38°	1630.0	1610.7	1525.5	1426.4	1285.0	1135.0	941.6	771.2	585.3	449.6	24.1
39°	1375.9	1375.5	1294.1	1222.5	1084.1	949.0	774.6	626.0	483.2	362.0	18.7
40°	1160.4	1120.4	1070.2	980.3	874.1	759.4	606.7	490.0	374.9	291.8	14.6
42.5°	608.4	605.0	575.5	507.9	448.6	381.0	303.0	252.4	197.5	160.8	9.2
45°	261.3	263.0	242.6	232.4	209.4	181.2	153.0	127.6	109.3	88.6	5.4
47.5°	66.2	63.5	62.8	65.1	65.1	63.1	56.7	53.3	49.2	45.1	3.1
50°	28.5	27.8	27.1	27.1	25.4	24.4	22.7	20.7	19.0	17.0	1.4
52.5°	10.5	10.9	11.2	10.9	10.9	10.5	10.5	10.2	9.2	8.1	0.7
55°	3.4	3.4	3.4	3.7	3.7	4.1	4.1	4.1	4.1	3.7	0.0
57.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	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°	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	14.9	13.2	11.2	9.5	9.2	8.8
5°	16.6	12.2	9.2	7.5	6.8	6.4
7.5°	18.0	11.2	7.5	5.4	4.8	4.4
10°	18.7	9.8	6.1	4.1	3.1	3.1
12.5°	19.0	8.5	4.4	2.7	1.7	1.7
15°	18.7	7.1	3.4	1.4	0.3	0.3
17.5°	17.0	5.8	2.0	0.3	0.0	0.0
20°	14.6	4.8	1.4	0.0	0.0	0.0
21°	13.9	4.1	1.0	0.0	0.0	0.0
22°	12.9	3.7	0.7	0.0	0.0	0.0
23°	11.9	3.4	0.7	0.0	0.0	0.0
24°	10.9	3.1	0.3	0.0	0.0	0.0
25°	10.2	2.7	0.3	0.0	0.0	0.0
26°	9.5	2.4	0.3	0.0	0.0	0.0
27°	8.5	2.0	0.0	0.0	0.0	0.0
28°	7.8	1.7	0.0	0.0	0.0	0.0
29°	6.8	1.4	0.0	0.0	0.0	0.0
30°	5.8	1.0	0.0	0.0	0.0	0.0
31°	4.8	1.0	0.0	0.0	0.0	0.0
32°	4.1	0.7	0.0	0.0	0.0	0.0
33°	3.4	0.7	0.0	0.0	0.0	0.0
34°	3.1	0.7	0.0	0.0	0.0	0.0
35°	2.7	0.7	0.0	0.0	0.0	0.0
36°	2.0	0.3	0.0	0.0	0.0	0.0
37°	1.7	0.3	0.0	0.0	0.0	0.0
38°	1.4	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	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.3	1.0	1.0
55°	0.3	0.7	0.3	0.7	1.4	1.4
57.5°	0.3	0.7	0.7	1.0	1.4	1.7
60°	0.7	1.0	1.0	1.0	1.7	1.7
62.5°	0.7	1.0	1.4	1.4	1.7	2.0
65°	0.7	1.4	1.4	1.4	1.7	2.0
67.5°	1.0	1.4	1.4	1.4	1.7	2.0
70°	1.0	1.4	1.4	1.4	1.7	1.7
72.5°	1.0	1.4	1.0	1.4	1.4	1.7
75°	1.0	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	0.7	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)