

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: P1344044

Luminaire Tested: P3A13R209827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344044
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: P3A13R209827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

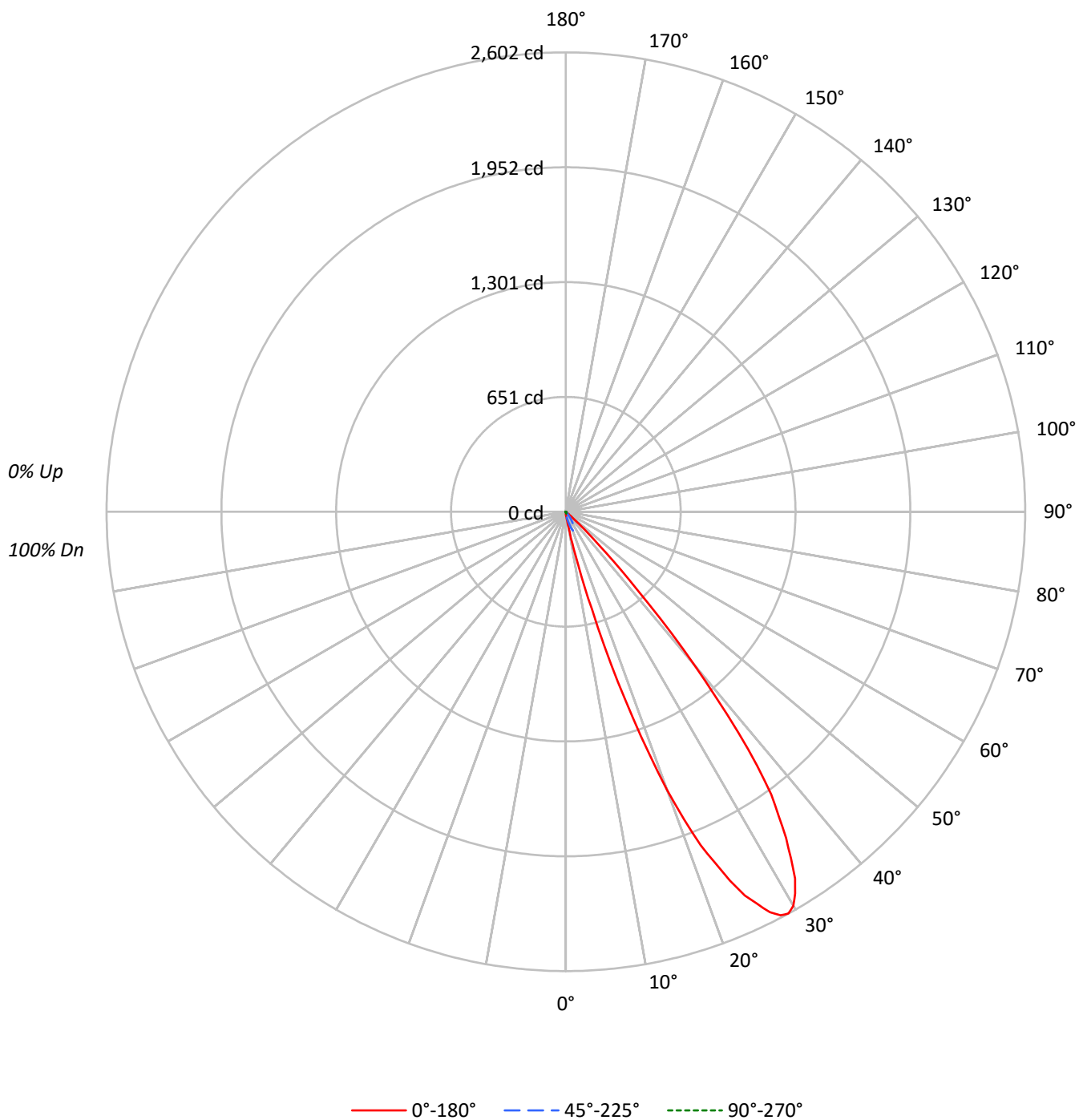
Lumens per Lamp: N/A
Luminaire Lumens: 365.0 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2763	2763	2763	2763	2763
5°	6339	4733	2619	1607	1387
10°	19973	8261	2138	891	668
15°	129445	15255	1589	295	68
20°	390704	26112	1073	0	0
25°	580219	26348	629	0	0
30°	652480	20028	253	0	0
35°	562984	11966	187	0	0
40°	324179	4065	0	0	0
45°	79078	1644	93	0	93
50°	9484	443	102	102	341
55°	1262	0	268	268	497
60°	132	0	439	439	746
65°	156	156	675	675	1038
70°	192	192	833	833	1090
75°	0	254	1101	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 79574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	33.8	9.3
20°-30°	147.4	40.4
30°-40°	148.5	40.7
40°-50°	29.8	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°	182.9	50.1
0°-40°	331.4	90.8
0°-60°	362.7	99.4
0°-90°	365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	365.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	29	22	12	7	6	5
15°	570	67	7	1	0	223
25°	2398	109	3	0	0	1081
35°	2103	45	1	0	0	1251
45°	255	5	0	0	0	278
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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	18.9	18.9	18.5	18.5	18.2	18.5	17.9	18.2	18.2	17.9	16.2
5°	28.8	29.5	29.1	29.1	28.8	29.1	28.5	27.8	27.2	27.2	21.5
7.5°	47.4	47.0	46.4	46.7	45.7	45.0	44.4	44.0	42.1	41.1	28.1
10°	89.7	91.7	90.1	89.7	83.8	83.4	79.5	73.8	68.9	66.2	37.1
12.5°	247.0	257.6	241.1	233.1	228.5	210.6	203.0	183.5	164.6	150.3	47.0
15°	570.2	596.4	562.9	565.3	537.4	486.4	441.7	403.3	358.0	312.3	67.2
17.5°	1117.3	1096.1	1077.9	1047.1	990.4	915.6	819.2	721.6	637.1	548.7	93.7
20°	1674.3	1655.4	1614.0	1546.8	1474.6	1363.6	1249.1	1102.4	960.3	827.2	111.9
21°	1866.0	1859.7	1791.8	1750.4	1639.2	1533.2	1401.1	1244.1	1084.2	926.5	114.9
22°	2037.2	1999.4	1963.0	1901.7	1791.1	1675.9	1528.9	1363.6	1190.1	1014.9	115.2
23°	2155.7	2138.5	2104.1	2034.9	1924.9	1789.5	1634.5	1461.7	1278.9	1077.5	114.2
24°	2286.9	2265.0	2214.7	2133.9	2022.9	1889.2	1712.3	1540.8	1342.1	1130.2	111.6
25°	2398.1	2364.0	2304.4	2217.3	2096.1	1958.0	1780.2	1591.8	1386.2	1165.6	108.9
26°	2470.3	2451.8	2375.3	2280.6	2150.8	2008.4	1826.9	1630.9	1414.6	1181.8	104.6
27°	2545.5	2511.4	2436.2	2327.3	2186.5	2041.2	1853.4	1649.7	1424.6	1182.5	99.3
28°	2588.5	2551.4	2466.3	2351.8	2209.7	2059.4	1868.6	1655.7	1422.6	1172.2	93.1
29°	2602.1	2555.4	2472.3	2355.7	2215.3	2060.7	1866.3	1647.1	1405.0	1147.1	85.8
30°	2576.9	2529.3	2450.4	2336.9	2197.5	2044.1	1844.8	1618.6	1373.9	1111.0	79.1
31°	2522.0	2481.6	2405.4	2291.5	2157.7	2005.4	1796.1	1571.9	1320.9	1062.6	71.5
32°	2449.5	2409.7	2334.9	2231.9	2095.8	1942.1	1729.6	1499.1	1258.7	990.4	63.9
33°	2340.5	2317.7	2250.4	2152.1	2016.0	1851.7	1640.1	1412.0	1169.9	910.3	57.3
34°	2230.2	2201.4	2154.4	2046.8	1900.4	1736.5	1523.6	1291.8	1061.6	820.6	51.0
35°	2103.1	2085.9	2012.0	1925.9	1778.9	1611.3	1399.7	1174.9	935.5	720.6	44.7
36°	1979.9	1953.4	1869.3	1778.2	1635.5	1454.4	1245.4	1034.2	826.5	626.9	38.1
37°	1801.1	1760.7	1700.7	1604.7	1437.8	1283.5	1092.8	896.7	692.4	525.5	30.8
38°	1590.8	1571.9	1488.8	1392.1	1254.0	1107.7	918.9	752.7	571.2	438.8	23.5
39°	1342.8	1342.4	1263.0	1193.1	1058.0	926.2	756.0	611.0	471.5	353.3	18.2
40°	1132.5	1093.4	1044.4	956.7	853.0	741.1	592.1	478.2	365.9	284.8	14.2
42.5°	593.7	590.4	561.6	495.7	437.8	371.9	295.7	246.4	192.7	157.0	8.9
45°	255.0	256.6	236.8	226.8	204.3	176.8	149.3	124.5	106.6	86.4	5.3
47.5°	64.6	61.9	61.3	63.6	63.6	61.6	55.3	52.0	48.0	44.0	3.0
50°	27.8	27.2	26.5	26.5	24.8	23.8	22.2	20.2	18.5	16.6	1.3
52.5°	10.3	10.6	10.9	10.6	10.6	10.3	10.3	9.9	8.9	7.9	0.7
55°	3.3	3.3	3.3	3.6	3.6	4.0	4.0	4.0	4.0	3.6	0.0
57.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	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°	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	14.6	12.9	10.9	9.3	8.9	8.6
5°	16.2	11.9	8.9	7.3	6.6	6.3
7.5°	17.6	10.9	7.3	5.3	4.6	4.3
10°	18.2	9.6	6.0	4.0	3.0	3.0
12.5°	18.5	8.3	4.3	2.6	1.7	1.7
15°	18.2	7.0	3.3	1.3	0.3	0.3
17.5°	16.6	5.6	2.0	0.3	0.0	0.0
20°	14.2	4.6	1.3	0.0	0.0	0.0
21°	13.6	4.0	1.0	0.0	0.0	0.0
22°	12.6	3.6	0.7	0.0	0.0	0.0
23°	11.6	3.3	0.7	0.0	0.0	0.0
24°	10.6	3.0	0.3	0.0	0.0	0.0
25°	9.9	2.6	0.3	0.0	0.0	0.0
26°	9.3	2.3	0.3	0.0	0.0	0.0
27°	8.3	2.0	0.0	0.0	0.0	0.0
28°	7.6	1.7	0.0	0.0	0.0	0.0
29°	6.6	1.3	0.0	0.0	0.0	0.0
30°	5.6	1.0	0.0	0.0	0.0	0.0
31°	4.6	1.0	0.0	0.0	0.0	0.0
32°	4.0	0.7	0.0	0.0	0.0	0.0
33°	3.3	0.7	0.0	0.0	0.0	0.0
34°	3.0	0.7	0.0	0.0	0.0	0.0
35°	2.6	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°	1.3	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	1.3	1.3
57.5°	0.3	0.7	0.7	1.0	1.3	1.7
60°	0.7	1.0	1.0	1.0	1.7	1.7
62.5°	0.7	1.0	1.3	1.3	1.7	2.0
65°	0.7	1.3	1.3	1.3	1.7	2.0
67.5°	1.0	1.3	1.3	1.3	1.7	2.0
70°	1.0	1.3	1.3	1.3	1.7	1.7
72.5°	1.0	1.3	1.0	1.3	1.3	1.7
75°	1.0	1.3	1.0	1.0	1.3	1.3
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)