

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: P1340498

Luminaire Tested: P3A09R209827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340498
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: P3A09R209827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

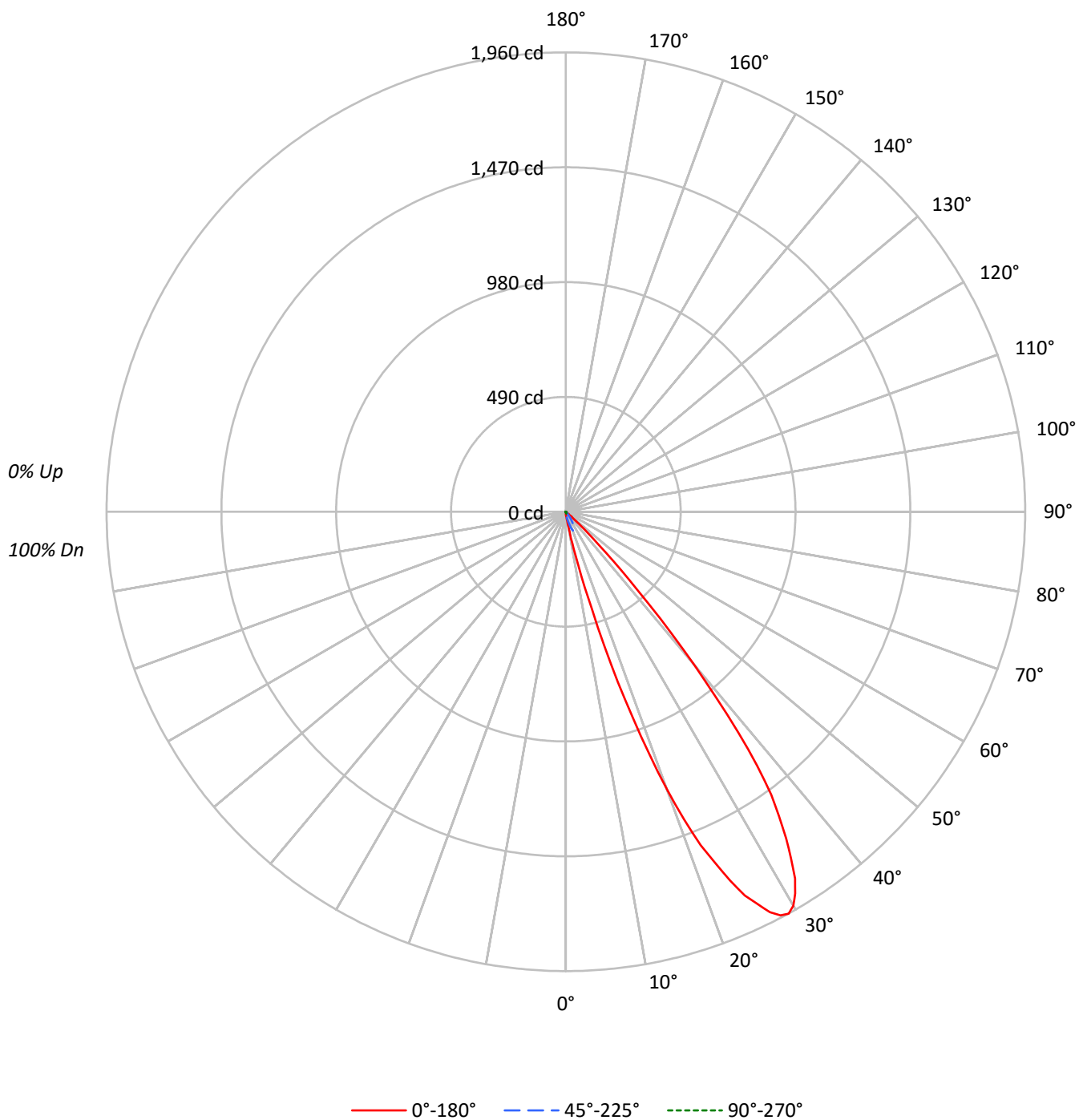
Lumens per Lamp: N/A
Luminaire Lumens: 274.9 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	58	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°	2083	2083	2083	2083	2083
5°	4777	3566	1981	1211	1035
10°	15052	6212	1603	668	490
15°	97526	11487	1180	227	45
20°	294352	19672	817	0	0
25°	437154	19864	484	0	0
30°	491595	15091	177	0	0
35°	424158	9021	134	0	0
40°	244258	3063	0	0	0
45°	59572	1240	62	0	62
50°	7164	341	68	68	239
55°	956	0	191	191	382
60°	88	0	307	307	526
65°	104	104	519	519	778
70°	128	128	641	641	769
75°	0	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 59975 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	25.5	9.3
20°-30°	111.1	40.4
30°-40°	111.9	40.7
40°-50°	22.4	8.2
50°-60°	1.1	0.4
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	137.8	50.1
0°-40°	249.7	90.8
0°-60°	273.2	99.4
0°-90°	274.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	274.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	9	6	5	3
15°	430	51	5	1	0	168
25°	1807	82	2	0	0	815
35°	1584	34	0	0	0	943
45°	192	4	0	0	0	209
55°	2	0	0	0	1	5
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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	14.2	14.2	14.0	14.0	13.7	14.0	13.5	13.7	13.7	13.5	12.2
5°	21.7	22.2	22.0	22.0	21.7	22.0	21.5	21.0	20.5	20.5	16.2
7.5°	35.7	35.4	34.9	35.2	34.4	33.9	33.4	33.2	31.7	30.9	21.2
10°	67.6	69.1	67.9	67.6	63.1	62.9	59.9	55.6	51.9	49.9	27.9
12.5°	186.1	194.1	181.6	175.6	172.1	158.7	152.9	138.2	124.0	113.3	35.4
15°	429.6	449.3	424.1	425.9	404.9	366.5	332.8	303.9	269.7	235.3	50.6
17.5°	841.8	825.8	812.1	788.9	746.2	689.8	617.2	543.6	480.0	413.4	70.6
20°	1261.4	1247.2	1216.0	1165.4	1111.0	1027.4	941.1	830.6	723.5	623.2	84.3
21°	1405.9	1401.1	1350.0	1318.8	1235.0	1155.1	1055.6	937.3	816.8	698.1	86.6
22°	1534.9	1506.4	1479.0	1432.8	1349.5	1262.7	1151.9	1027.4	896.7	764.7	86.8
23°	1624.2	1611.2	1585.3	1533.1	1450.3	1348.2	1231.5	1101.2	963.5	811.8	86.1
24°	1723.0	1706.5	1668.6	1607.7	1524.1	1423.3	1290.1	1160.9	1011.2	851.5	84.1
25°	1806.8	1781.1	1736.2	1670.6	1579.3	1475.2	1341.3	1199.3	1044.4	878.2	82.1
26°	1861.2	1847.2	1789.6	1718.2	1620.4	1513.2	1376.4	1228.7	1065.8	890.4	78.8
27°	1917.8	1892.1	1835.5	1753.4	1647.4	1537.9	1396.4	1243.0	1073.3	890.9	74.8
28°	1950.3	1922.3	1858.2	1771.9	1664.8	1551.6	1407.9	1247.5	1071.8	883.2	70.1
29°	1960.5	1925.3	1862.7	1774.9	1669.1	1552.6	1406.1	1241.0	1058.6	864.2	64.6
30°	1941.5	1905.6	1846.2	1760.7	1655.6	1540.1	1389.9	1219.5	1035.1	837.0	59.6
31°	1900.1	1869.7	1812.3	1726.5	1625.7	1510.9	1353.2	1184.3	995.2	800.6	53.9
32°	1845.5	1815.5	1759.2	1681.6	1579.0	1463.3	1303.1	1129.4	948.3	746.2	48.2
33°	1763.4	1746.2	1695.5	1621.4	1518.9	1395.1	1235.7	1063.8	881.4	685.8	43.2
34°	1680.3	1658.6	1623.2	1542.1	1431.8	1308.3	1147.9	973.3	799.9	618.2	38.4
35°	1584.5	1571.5	1515.9	1451.0	1340.3	1214.0	1054.6	885.2	704.8	542.9	33.7
36°	1491.7	1471.7	1408.4	1339.8	1232.2	1095.8	938.3	779.2	622.7	472.3	28.7
37°	1357.0	1326.5	1281.4	1209.0	1083.3	967.0	823.3	675.6	521.7	395.9	23.2
38°	1198.6	1184.3	1121.7	1048.9	944.8	834.5	692.3	567.1	430.4	330.6	17.7
39°	1011.7	1011.4	951.6	898.9	797.1	697.8	569.6	460.3	355.3	266.2	13.7
40°	853.3	823.8	786.9	720.8	642.7	558.4	446.1	360.3	275.7	214.6	10.7
42.5°	447.3	444.8	423.1	373.5	329.8	280.2	222.8	185.6	145.2	118.3	6.7
45°	192.1	193.4	178.4	170.9	153.9	133.2	112.5	93.8	80.3	65.1	4.0
47.5°	48.7	46.7	46.2	47.9	47.9	46.4	41.7	39.2	36.2	33.2	2.2
50°	21.0	20.5	20.0	20.0	18.7	18.0	16.7	15.2	14.0	12.5	1.0
52.5°	7.7	8.0	8.2	8.0	8.0	7.7	7.7	7.5	6.7	6.0	0.5
55°	2.5	2.5	2.5	2.7	2.7	3.0	3.0	3.0	3.0	2.7	0.0
57.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	11.0	9.7	8.2	7.0	6.7	6.5
5°	12.2	9.0	6.7	5.5	5.0	4.7
7.5°	13.2	8.2	5.5	4.0	3.5	3.2
10°	13.7	7.2	4.5	3.0	2.2	2.2
12.5°	14.0	6.2	3.2	2.0	1.2	1.2
15°	13.7	5.2	2.5	1.0	0.2	0.2
17.5°	12.5	4.2	1.5	0.2	0.0	0.0
20°	10.7	3.5	1.0	0.0	0.0	0.0
21°	10.2	3.0	0.7	0.0	0.0	0.0
22°	9.5	2.7	0.5	0.0	0.0	0.0
23°	8.7	2.5	0.5	0.0	0.0	0.0
24°	8.0	2.2	0.2	0.0	0.0	0.0
25°	7.5	2.0	0.2	0.0	0.0	0.0
26°	7.0	1.7	0.2	0.0	0.0	0.0
27°	6.2	1.5	0.0	0.0	0.0	0.0
28°	5.7	1.2	0.0	0.0	0.0	0.0
29°	5.0	1.0	0.0	0.0	0.0	0.0
30°	4.2	0.7	0.0	0.0	0.0	0.0
31°	3.5	0.7	0.0	0.0	0.0	0.0
32°	3.0	0.5	0.0	0.0	0.0	0.0
33°	2.5	0.5	0.0	0.0	0.0	0.0
34°	2.2	0.5	0.0	0.0	0.0	0.0
35°	2.0	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.2	0.0	0.0	0.0	0.0
37°	1.2	0.2	0.0	0.0	0.0	0.0
38°	1.0	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.2	0.7	0.7
55°	0.2	0.5	0.2	0.5	1.0	1.0
57.5°	0.2	0.5	0.5	0.7	1.0	1.2
60°	0.5	0.7	0.7	0.7	1.2	1.2
62.5°	0.5	0.7	1.0	1.0	1.2	1.5
65°	0.5	1.0	1.0	1.0	1.2	1.5
67.5°	0.7	1.0	1.0	1.0	1.2	1.5
70°	0.7	1.0	1.0	1.0	1.2	1.2
72.5°	0.7	1.0	0.7	1.0	1.0	1.2
75°	0.7	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.5	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)