

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: P1340514

Luminaire Tested: P3A09R209830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340514
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: P3A09R209830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

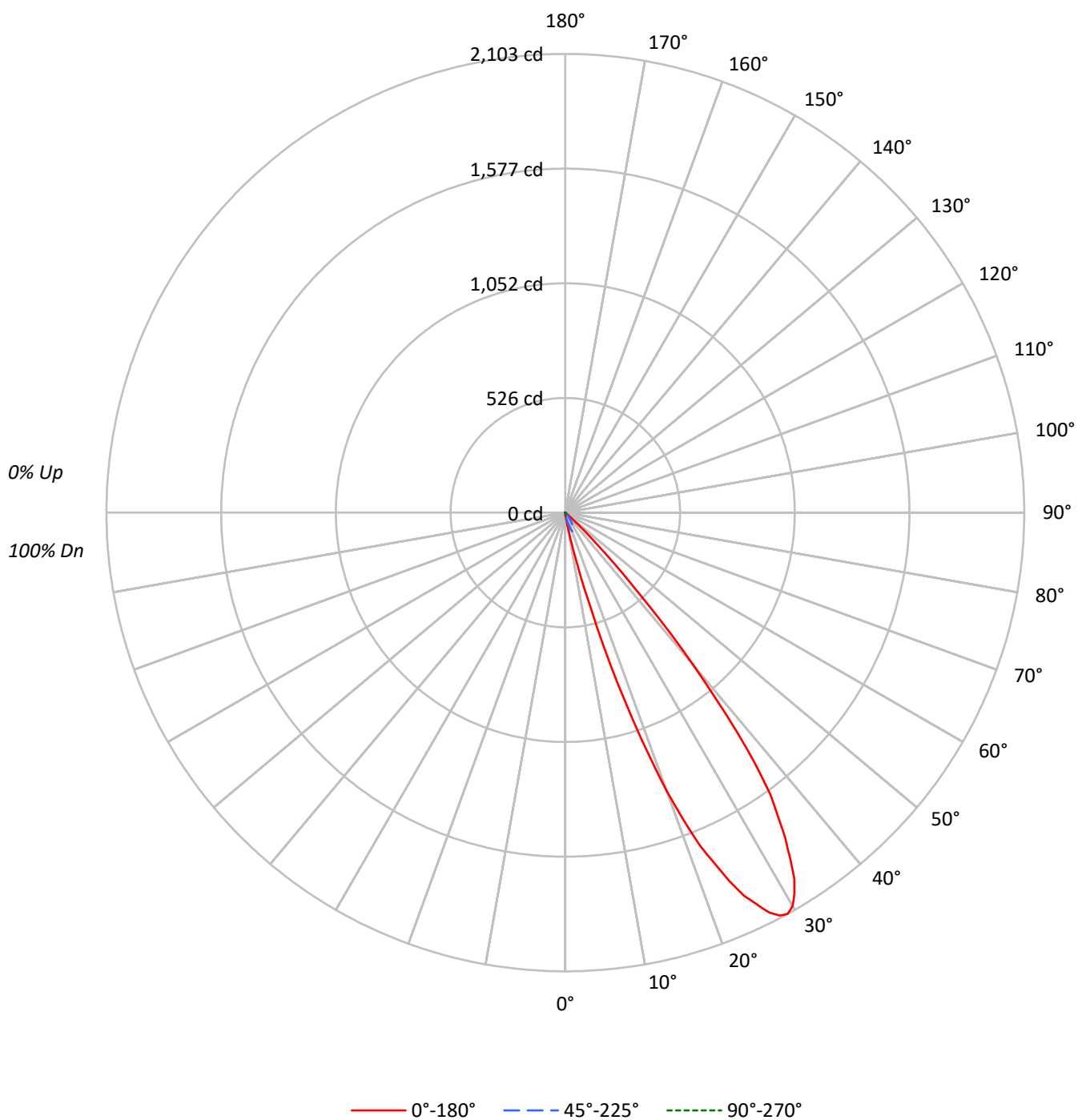
Lumens per Lamp: N/A
Luminaire Lumens: 295.0 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	2237	2237	2237	2237	2237
5°	5129	3830	2113	1299	1123
10°	16143	6680	1737	713	534
15°	104632	12327	1271	250	68
20°	315774	21119	863	0	0
25°	468946	21316	508	0	0
30°	527347	16205	203	0	0
35°	454997	9664	134	0	0
40°	262005	3292	0	0	0
45°	63914	1333	93	0	93
50°	7676	375	102	102	273
55°	1032	0	191	191	421
60°	132	0	351	351	570
65°	156	156	571	571	830
70°	192	192	705	705	833
75°	0	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 64317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	27.3	9.3
20°-30°	119.2	40.4
30°-40°	120.0	40.7
40°-50°	24.1	8.2
50°-60°	1.2	0.4
60°-70°	0.8	0.3
70°-80°	0.7	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°	147.9	50.1
0°-40°	267.9	90.8
0°-60°	293.1	99.4
0°-90°	295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	295.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	23	17	10	6	5	4
15°	461	54	6	1	0	181
25°	1938	88	2	0	0	874
35°	1700	36	0	0	0	1011
45°	206	4	0	0	0	224
55°	3	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°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	15.3	15.3	15.0	15.0	14.7	15.0	14.5	14.7	14.7	14.5	13.1
5°	23.3	23.8	23.6	23.6	23.3	23.6	23.0	22.5	21.9	21.9	17.4
7.5°	38.3	38.0	37.5	37.7	36.9	36.4	35.9	35.6	34.0	33.2	22.7
10°	72.5	74.1	72.8	72.5	67.7	67.4	64.2	59.7	55.7	53.5	30.0
12.5°	199.7	208.2	194.8	188.4	184.7	170.2	164.1	148.3	133.0	121.5	38.0
15°	460.9	482.0	455.0	456.9	434.4	393.2	357.0	326.0	289.3	252.4	54.3
17.5°	903.0	885.9	871.2	846.3	800.5	740.0	662.1	583.2	514.9	443.5	75.7
20°	1353.2	1337.9	1304.5	1250.1	1191.8	1102.1	1009.5	891.0	776.1	668.6	90.5
21°	1508.1	1503.0	1448.2	1414.7	1324.8	1239.1	1132.4	1005.5	876.2	748.8	92.9
22°	1646.5	1616.0	1586.5	1537.0	1447.6	1354.5	1235.7	1102.1	961.9	820.3	93.1
23°	1742.3	1728.4	1700.6	1644.6	1555.8	1446.3	1321.0	1181.3	1033.6	870.9	92.3
24°	1848.3	1830.6	1789.9	1724.6	1635.0	1526.9	1383.9	1245.3	1084.7	913.4	90.2
25°	1938.2	1910.6	1862.5	1792.1	1694.1	1582.5	1438.8	1286.5	1120.3	942.1	88.1
26°	1996.6	1981.6	1919.7	1843.2	1738.3	1623.2	1476.5	1318.1	1143.3	955.2	84.6
27°	2057.3	2029.7	1969.0	1880.9	1767.2	1649.7	1498.0	1333.4	1151.4	955.7	80.3
28°	2092.1	2062.1	1993.3	1900.7	1785.9	1664.4	1510.3	1338.2	1149.8	947.4	75.2
29°	2103.1	2065.3	1998.2	1904.0	1790.5	1665.5	1508.4	1331.2	1135.6	927.1	69.3
30°	2082.7	2044.2	1980.5	1888.7	1776.0	1652.1	1491.0	1308.2	1110.4	897.9	64.0
31°	2038.3	2005.7	1944.1	1852.0	1743.9	1620.8	1451.7	1270.5	1067.6	858.8	57.8
32°	1979.7	1947.6	1887.1	1803.9	1693.9	1569.7	1397.9	1211.6	1017.3	800.5	51.7
33°	1891.6	1873.2	1818.8	1739.4	1629.4	1496.6	1325.6	1141.2	945.6	735.7	46.3
34°	1802.5	1779.2	1741.2	1654.3	1536.0	1403.5	1231.4	1044.0	858.0	663.2	41.2
35°	1699.7	1685.8	1626.1	1556.6	1437.7	1302.3	1131.3	949.6	756.1	582.4	36.1
36°	1600.2	1578.8	1510.8	1437.2	1321.8	1175.5	1006.6	835.8	668.0	506.6	30.8
37°	1455.7	1423.0	1374.6	1297.0	1162.1	1037.4	883.2	724.8	559.6	424.7	24.9
38°	1285.7	1270.5	1203.3	1125.1	1013.5	895.2	742.7	608.3	461.7	354.6	19.0
39°	1085.3	1085.0	1020.8	964.3	855.1	748.6	611.0	493.8	381.1	285.6	14.7
40°	915.3	883.7	844.1	773.2	689.4	599.0	478.5	386.5	295.7	230.2	11.5
42.5°	479.9	477.2	453.9	400.6	353.8	300.6	239.0	199.1	155.8	126.9	7.2
45°	206.1	207.4	191.4	183.3	165.1	142.9	120.7	100.6	86.2	69.9	4.3
47.5°	52.2	50.0	49.5	51.4	51.4	49.8	44.7	42.0	38.8	35.6	2.4
50°	22.5	21.9	21.4	21.4	20.1	19.3	17.9	16.3	15.0	13.4	1.1
52.5°	8.3	8.6	8.8	8.6	8.6	8.3	8.3	8.0	7.2	6.4	0.5
55°	2.7	2.7	2.7	2.9	2.9	3.2	3.2	3.2	3.2	2.9	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	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°	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	11.8	10.4	8.8	7.5	7.2	7.0
5°	13.1	9.6	7.2	5.9	5.4	5.1
7.5°	14.2	8.8	5.9	4.3	3.7	3.5
10°	14.7	7.8	4.8	3.2	2.4	2.4
12.5°	15.0	6.7	3.5	2.1	1.3	1.3
15°	14.7	5.6	2.7	1.1	0.3	0.3
17.5°	13.4	4.5	1.6	0.3	0.0	0.0
20°	11.5	3.7	1.1	0.0	0.0	0.0
21°	11.0	3.2	0.8	0.0	0.0	0.0
22°	10.2	2.9	0.5	0.0	0.0	0.0
23°	9.4	2.7	0.5	0.0	0.0	0.0
24°	8.6	2.4	0.3	0.0	0.0	0.0
25°	8.0	2.1	0.3	0.0	0.0	0.0
26°	7.5	1.9	0.3	0.0	0.0	0.0
27°	6.7	1.6	0.0	0.0	0.0	0.0
28°	6.2	1.3	0.0	0.0	0.0	0.0
29°	5.4	1.1	0.0	0.0	0.0	0.0
30°	4.5	0.8	0.0	0.0	0.0	0.0
31°	3.7	0.8	0.0	0.0	0.0	0.0
32°	3.2	0.5	0.0	0.0	0.0	0.0
33°	2.7	0.5	0.0	0.0	0.0	0.0
34°	2.4	0.5	0.0	0.0	0.0	0.0
35°	2.1	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.1	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	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	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.1	1.1
57.5°	0.3	0.5	0.5	0.8	1.1	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.1	1.1	1.3	1.6
65°	0.5	1.1	1.1	1.1	1.3	1.6
67.5°	0.8	1.1	1.1	1.1	1.3	1.6
70°	0.8	1.1	1.1	1.1	1.3	1.3
72.5°	0.8	1.1	0.8	1.1	1.1	1.3
75°	0.8	1.1	0.8	0.8	1.1	1.1
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)