

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: P1340868

Luminaire Tested: P3A09R259030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R259030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

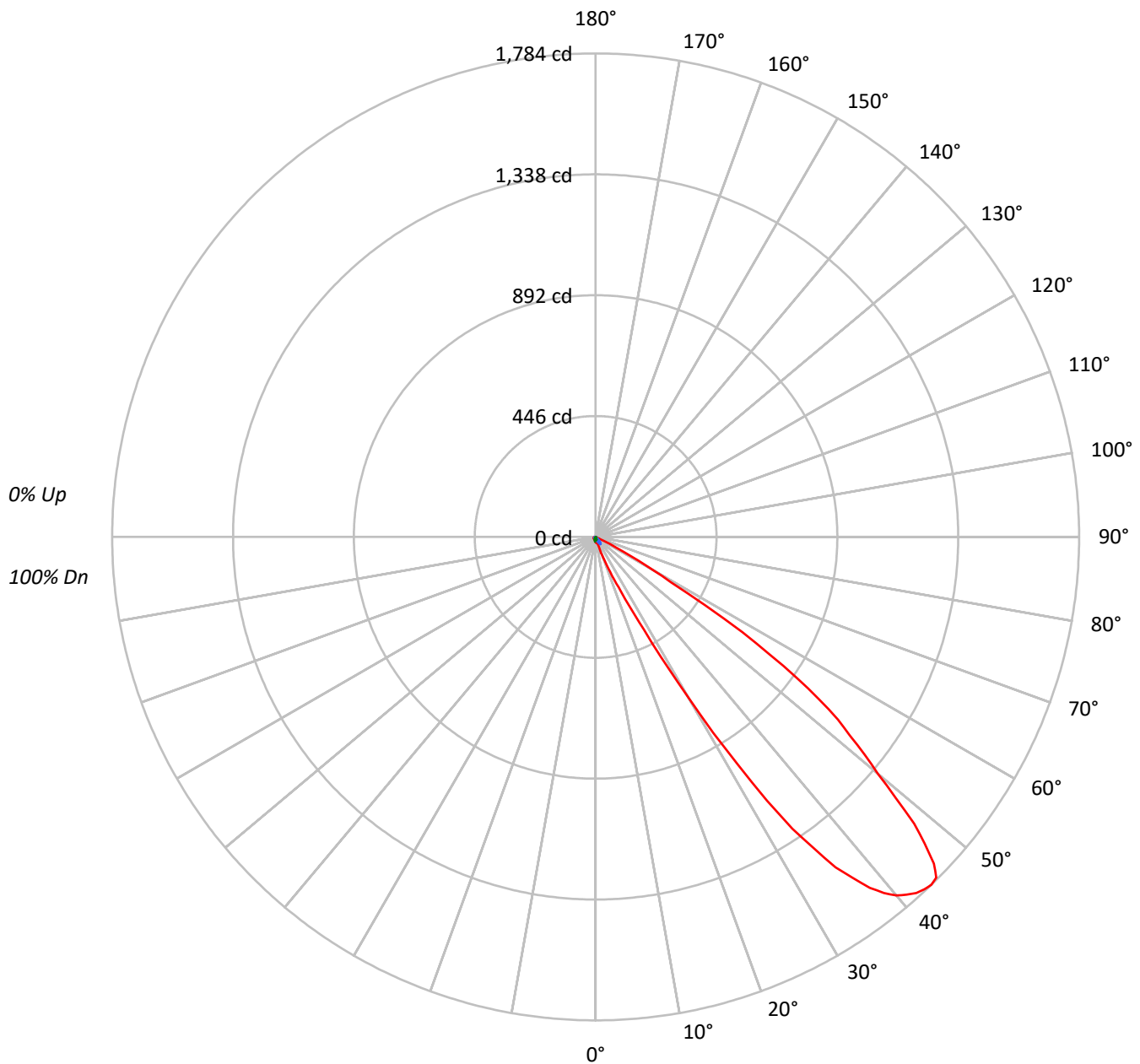
Lumens per Lamp: N/A
Luminaire Lumens: 372.0 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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



— 0°-180° - - 45°-225° ···· 90°-270°

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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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4166	4166	4166	4166	4166
5°	4755	4534	4028	3610	3522
10°	4743	4297	3429	2984	2984
15°	5267	3723	2679	2520	2679
20°	18645	3664	2054	2147	2357
25°	53616	4670	1669	1984	2299
30°	171090	7216	1317	1899	2329
35°	374716	8513	1151	1847	2356
40°	494298	7672	945	1861	2519
45°	551220	5365	899	2016	2729
50°	463985	2797	887	2115	3002
55°	346903	1109	879	2370	3364
60°	107404	307	877	2588	3728
65°	9184	0	1038	2698	4099
70°	641	192	1026	3142	4616
75°	593	254	1356	3304	5253
80°	379	379	2020	3662	6188
85°	755	755	3271	4026	6542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 551220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	4.4	1.2
20°-30°	20.6	5.5
30°-40°	99.1	26.6
40°-50°	155.3	41.8
50°-60°	79.6	21.4
60°-70°	7.5	2.0
70°-80°	2.5	0.7
80°-90°	1.3	0.3
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°	26.7	7.2
0°-40°	125.8	33.8
0°-60°	360.7	97.0
0°-90°	372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	372.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	22	21	18	16	16	2
15°	23	16	12	11	12	10
25°	222	19	7	8	10	137
35°	1400	32	4	7	9	850
45°	1778	17	3	6	9	1301
55°	907	3	2	6	9	755
65°	18	0	2	5	8	55
75°	1	0	2	4	6	1
85°	0	0	1	2	3	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°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.3	20.3	20.6	20.3	20.3
5°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.3	21.3	21.3	20.6
7.5°	21.9	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.3	21.3	20.3
10°	21.3	21.3	21.3	21.3	21.0	21.0	21.0	20.6	20.6	20.6	19.3
12.5°	21.3	21.3	21.3	21.3	21.0	21.0	20.6	20.6	20.3	20.0	17.7
15°	23.2	23.2	23.2	22.9	22.6	22.3	21.9	21.6	21.3	20.6	16.4
17.5°	34.0	33.1	32.7	31.4	29.8	28.2	26.8	25.5	24.2	23.2	15.7
20°	79.9	79.5	77.9	74.0	69.7	64.8	59.9	54.3	46.5	41.2	15.7
22.5°	138.5	136.5	133.6	130.6	123.1	114.2	105.1	94.6	84.5	73.7	16.7
25°	221.6	226.2	216.4	208.5	195.4	179.4	162.0	147.6	129.3	112.3	19.3
27.5°	385.3	388.2	368.9	343.4	312.9	279.2	246.5	221.9	191.2	163.0	24.2
30°	675.7	678.6	646.2	591.9	529.0	473.7	398.7	332.9	272.4	225.5	28.5
31°	843.3	820.3	782.7	730.0	650.4	567.0	477.0	397.4	320.8	259.3	29.8
32°	988.9	987.0	943.1	863.2	783.4	680.2	568.6	464.8	370.9	293.3	30.8
33°	1160.8	1147.7	1085.8	1010.5	904.8	801.0	657.0	538.5	422.3	331.3	31.4
34°	1298.6	1263.2	1237.7	1151.6	1040.0	907.7	753.6	616.4	486.4	367.9	31.8
35°	1399.8	1392.2	1342.5	1262.3	1148.7	1013.5	857.7	697.3	540.1	410.5	31.8
36°	1506.8	1483.6	1435.1	1362.4	1251.8	1112.0	937.2	767.3	602.7	448.8	31.4
37°	1573.9	1560.2	1512.0	1437.1	1328.7	1195.2	1026.2	841.3	652.4	487.1	30.8
38°	1643.0	1615.2	1567.7	1496.0	1389.6	1264.2	1090.7	898.3	698.2	520.8	29.8
39°	1690.8	1662.0	1613.5	1542.2	1438.1	1313.7	1141.8	946.7	738.2	546.0	28.5
40°	1726.8	1699.0	1649.9	1576.5	1473.7	1352.6	1184.4	989.6	771.6	568.0	26.8
41°	1749.0	1723.2	1674.4	1601.4	1498.3	1374.9	1212.2	1017.4	794.2	582.7	25.2
42°	1767.7	1741.2	1691.4	1616.8	1513.3	1393.9	1229.2	1035.1	809.5	590.2	23.9
43°	1778.2	1751.7	1703.2	1626.9	1522.5	1402.7	1238.4	1043.3	814.8	589.2	21.6
44°	1784.1	1756.6	1707.8	1631.5	1526.4	1405.0	1239.0	1041.6	811.2	581.4	19.6
45°	1777.5	1750.3	1703.2	1626.9	1519.6	1397.8	1232.5	1032.8	797.4	566.0	17.3
46°	1735.0	1714.0	1670.8	1600.7	1498.0	1379.5	1215.8	1015.8	776.1	547.0	14.7
47°	1660.0	1643.3	1601.4	1549.4	1456.4	1345.7	1185.0	983.4	746.4	518.5	11.8
48°	1581.8	1557.2	1518.3	1464.9	1386.3	1285.2	1134.3	935.9	701.2	481.2	10.5
49°	1466.2	1451.8	1417.4	1357.9	1292.7	1203.7	1062.6	875.0	645.9	440.6	9.2
50°	1360.1	1350.3	1302.2	1258.3	1189.3	1106.1	965.4	794.8	577.1	390.2	8.2
51°	1277.3	1265.5	1230.8	1176.2	1102.5	1006.0	873.4	690.7	498.2	330.3	6.5
52°	1190.9	1184.4	1153.6	1097.3	1024.9	928.7	784.0	602.3	421.6	279.2	5.2
53°	1120.2	1110.7	1073.1	1023.0	944.7	845.2	687.1	520.2	357.1	234.7	4.6
54°	1017.1	1013.2	988.9	936.6	851.8	743.4	599.4	438.0	297.9	199.0	3.9
55°	907.4	894.3	869.8	828.2	750.3	649.1	497.9	363.0	240.9	167.6	2.9
56°	773.9	773.2	729.3	694.6	625.6	518.2	397.7	283.5	195.8	139.8	2.6
57°	646.2	625.6	583.3	549.0	474.7	393.1	295.3	212.5	153.2	113.3	2.0
58°	477.9	467.1	456.0	405.6	336.8	278.6	210.8	149.3	113.3	86.4	1.3
59°	324.4	324.1	311.0	272.7	233.1	173.5	131.6	101.5	77.9	63.5	1.0
60°	244.9	239.0	212.8	187.6	146.7	109.7	77.9	59.9	48.4	40.9	0.7
62.5°	85.8	89.0	78.2	64.8	49.4	40.6	31.1	25.2	20.6	16.7	0.0
65°	17.7	19.3	16.7	15.7	12.4	10.8	9.5	8.2	6.9	5.9	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.3	2.0	2.0	2.0	1.6	1.6	1.6	1.6	1.3	1.3	0.3
70°	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.3
72.5°	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	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°	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	20.0	19.3	18.3	18.0	17.7	17.7
5°	19.6	18.3	17.3	16.4	16.0	16.0
7.5°	18.7	17.0	15.7	15.1	14.7	14.4
10°	17.7	15.4	14.1	13.4	13.4	13.4
12.5°	15.7	13.7	12.4	12.1	12.4	12.4
15°	14.1	11.8	11.1	11.1	11.5	11.8
17.5°	12.1	10.5	9.8	10.1	10.5	10.8
20°	10.8	8.8	8.8	9.2	10.1	10.1
22.5°	9.5	7.9	7.9	8.8	9.5	9.8
25°	8.5	6.9	7.2	8.2	9.2	9.5
27.5°	7.2	5.9	6.5	7.9	8.8	9.2
30°	6.2	5.2	6.2	7.5	8.5	9.2
31°	5.9	4.9	6.2	7.2	8.5	9.2
32°	5.2	4.9	5.9	7.2	8.5	8.8
33°	4.9	4.6	5.9	7.2	8.5	8.8
34°	4.6	4.3	5.6	7.2	8.5	8.8
35°	3.9	4.3	5.6	6.9	8.2	8.8
36°	3.6	3.9	5.6	6.9	8.2	8.8
37°	3.3	3.9	5.2	6.9	8.2	8.8
38°	2.9	3.6	5.2	6.9	8.2	8.8
39°	2.6	3.6	4.9	6.9	8.2	8.8
40°	2.3	3.3	4.9	6.5	8.2	8.8
41°	2.3	3.3	4.9	6.5	8.2	8.8
42°	2.0	3.3	4.9	6.5	8.2	8.8
43°	1.6	2.9	4.9	6.5	8.2	8.8
44°	1.3	2.9	4.6	6.5	8.2	8.8
45°	1.3	2.9	4.6	6.5	8.2	8.8
46°	1.0	2.6	4.6	6.5	8.2	8.8
47°	0.7	2.6	4.6	6.2	8.2	8.8
48°	0.7	2.6	4.6	6.2	8.2	8.8
49°	0.7	2.6	4.3	6.2	8.2	8.8
50°	0.7	2.6	4.3	6.2	8.2	8.8
51°	0.3	2.3	4.3	6.2	8.2	8.8
52°	0.3	2.3	4.3	6.2	8.2	9.2
53°	0.3	2.3	4.3	6.2	8.2	8.8
54°	0.3	2.3	3.9	6.2	8.2	8.8
55°	0.3	2.3	3.9	6.2	8.2	8.8
56°	0.3	2.0	3.9	5.9	8.2	8.8
57°	0.7	2.0	3.9	5.9	8.2	8.5
58°	0.7	2.0	3.9	5.9	7.9	8.5
59°	0.7	2.0	3.9	5.9	7.9	8.5
60°	0.7	2.0	3.6	5.9	7.9	8.5
62.5°	0.7	2.0	3.6	5.6	7.5	8.2
65°	0.7	2.0	3.3	5.2	7.5	7.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	1.6	3.3	4.9	7.2	7.5
70°	1.0	1.6	2.9	4.9	6.9	7.2
72.5°	1.0	1.6	2.9	4.3	6.2	6.9
75°	1.0	1.6	2.6	3.9	5.9	6.2
77.5°	1.0	1.6	2.3	3.6	5.2	5.6
80°	1.3	1.6	2.0	2.9	4.6	4.9
82.5°	1.3	1.6	1.6	2.3	3.6	3.9
85°	1.0	1.3	1.3	1.6	2.3	2.6
87.5°	1.0	1.3	1.0	0.7	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)