

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: P1338530

Luminaire Tested: P3A05R359840DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R359840DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

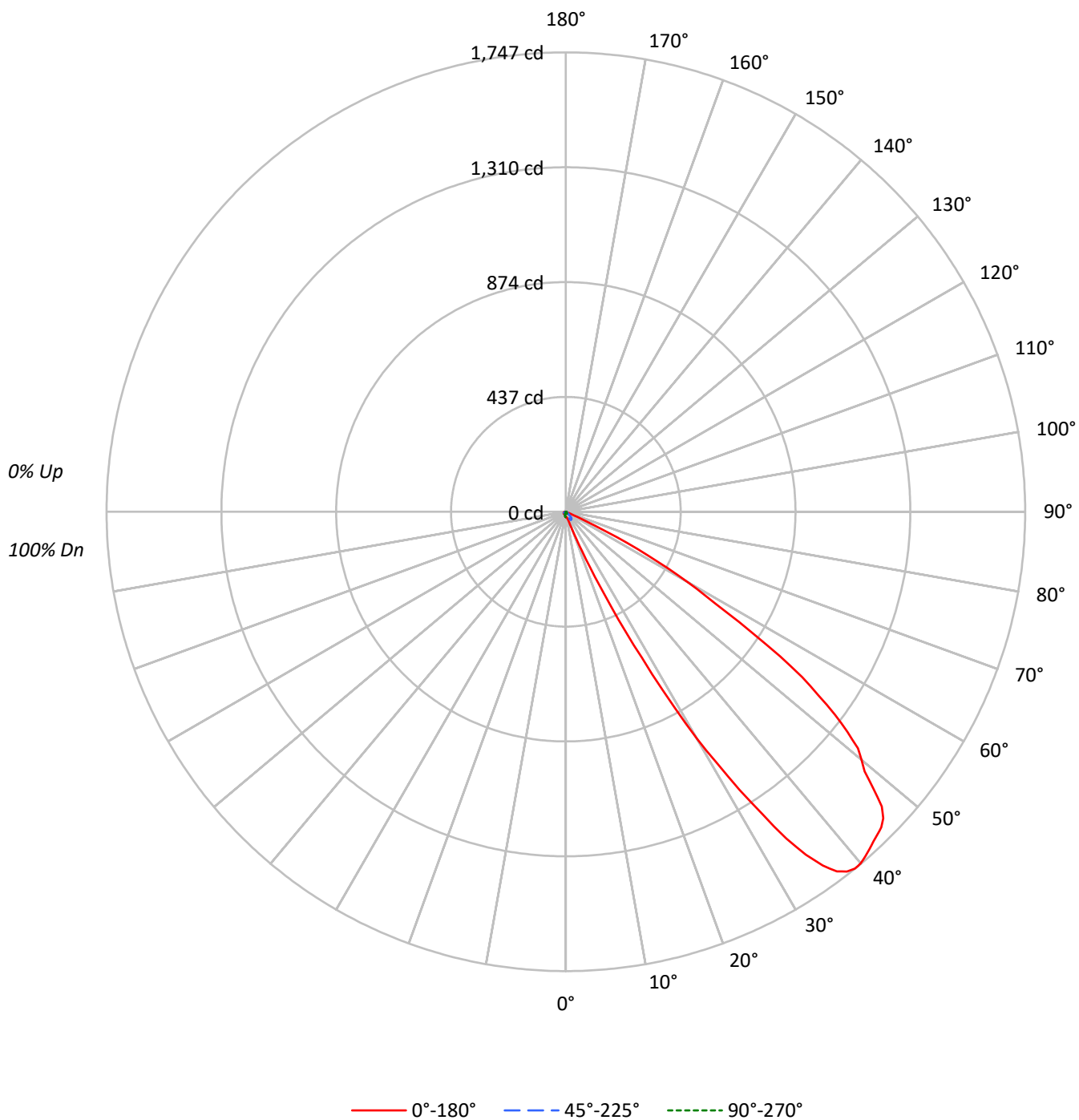
Lumens per Lamp: N/A
Luminaire Lumens: 435.0 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4386	4386	4386	4386	4386
5°	4755	4667	4314	3896	3808
10°	4988	4542	3852	3318	3318
15°	7128	4450	3110	2860	2951
20°	17875	4760	2474	2474	2754
25°	82940	6073	1911	2274	2565
30°	252140	8254	1494	2076	2583
35°	426139	9557	1258	2008	2516
40°	499536	9446	1002	2032	2691
45°	526070	6698	837	2202	2915
50°	500726	4025	819	2286	3207
55°	419579	1644	918	2561	3747
60°	234893	351	1053	2938	4122
65°	40523	208	1038	3269	4670
70°	769	256	1282	3526	5257
75°	678	339	1694	3982	6015
80°	505	505	2020	4420	6945
85°	0	1006	4026	5032	7799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 529784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	5.1	1.2
20°-30°	26.7	6.1
30°-40°	115.3	26.5
40°-50°	164.4	37.8
50°-60°	101.8	23.4
60°-70°	15.5	3.6
70°-80°	2.9	0.7
80°-90°	1.5	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°	33.6	7.7
0°-40°	148.9	34.2
0°-60°	415.1	95.4
0°-90°	435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	22	21	20	18	17	2
15°	31	20	14	13	13	11
25°	343	25	8	9	11	205
35°	1592	36	5	8	9	956
45°	1696	22	3	7	9	1282
55°	1098	4	2	7	10	935
65°	78	0	2	6	9	160
75°	1	0	2	5	7	1
85°	0	0	2	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.0	19.6
5°	21.6	21.6	21.2	21.2	21.2	21.2	21.2	21.2	20.4	19.6	18.5
7.5°	22.0	22.0	21.6	21.6	21.6	21.6	21.2	20.8	20.0	18.5	17.3
10°	22.4	22.4	22.4	22.4	22.0	21.6	21.2	20.4	19.2	17.3	16.1
12.5°	25.1	25.1	24.7	24.0	23.2	22.4	21.6	20.0	17.7	15.7	14.5
15°	31.4	31.0	30.2	29.1	27.5	25.5	24.0	19.6	16.1	13.7	13.0
17.5°	44.0	43.2	42.0	38.1	34.6	31.0	27.9	19.6	14.5	12.2	11.4
20°	76.6	77.0	68.7	59.3	51.4	42.8	34.9	20.4	13.0	10.6	10.2
22.5°	159.8	153.5	133.9	111.1	84.8	65.6	49.5	22.4	11.4	9.0	9.0
25°	342.8	318.9	271.3	205.0	144.5	102.5	71.9	25.1	10.2	7.9	8.2
27.5°	625.9	604.3	508.9	383.3	254.5	154.7	97.4	28.7	9.0	6.7	7.5
30°	995.8	936.2	811.7	628.3	425.3	236.8	130.8	32.6	7.5	5.9	7.1
31°	1111.3	1083.8	932.2	726.9	498.3	281.2	144.9	33.8	7.1	5.9	6.7
32°	1248.3	1199.6	1063.8	834.8	572.5	320.8	161.8	34.9	6.7	5.1	6.7
33°	1370.8	1323.7	1158.4	929.9	647.5	366.0	179.8	35.3	5.9	5.1	6.3
34°	1499.6	1435.2	1271.5	1029.2	724.5	414.7	196.3	35.7	5.5	4.7	6.3
35°	1591.9	1527.5	1368.9	1107.8	790.9	457.9	215.2	35.7	5.1	4.7	5.9
36°	1663.4	1606.8	1452.9	1188.6	856.8	496.7	230.1	35.7	4.3	4.3	5.9
37°	1712.5	1658.7	1509.5	1258.1	907.1	531.3	243.5	35.7	3.9	4.3	5.9
38°	1736.4	1691.7	1564.0	1308.8	955.8	558.4	254.1	34.9	3.5	3.9	5.5
39°	1746.6	1710.1	1597.4	1351.6	992.3	582.0	261.9	34.2	3.1	3.9	5.5
40°	1745.1	1713.3	1616.3	1381.1	1021.8	598.1	266.2	33.0	2.7	3.5	5.5
41°	1736.0	1708.6	1626.1	1406.2	1039.4	609.0	267.4	31.8	2.4	3.5	5.1
42°	1725.8	1700.7	1629.2	1419.5	1050.8	612.6	264.3	30.2	2.4	3.1	5.1
43°	1715.2	1692.1	1629.2	1423.9	1053.6	610.2	259.2	27.5	2.0	3.1	5.1
44°	1706.6	1684.6	1624.1	1422.7	1047.7	601.2	249.7	24.3	1.6	3.1	5.1
45°	1696.4	1674.8	1617.5	1415.2	1036.3	585.9	238.0	21.6	1.2	2.7	5.1
46°	1678.3	1661.4	1605.7	1399.9	1018.2	564.7	223.0	19.6	0.8	2.7	4.7
47°	1643.4	1628.8	1582.9	1377.1	994.3	539.5	207.7	17.7	0.8	2.7	4.7
48°	1573.1	1572.7	1537.3	1334.7	956.2	508.1	191.6	15.7	0.8	2.7	4.7
49°	1505.1	1498.1	1454.1	1260.1	901.6	470.4	174.7	14.1	0.4	2.7	4.7
50°	1467.8	1452.5	1380.3	1172.2	831.7	418.2	156.7	11.8	0.4	2.4	4.7
51°	1429.0	1407.0	1321.8	1092.8	748.4	367.9	137.0	9.4	0.4	2.4	4.3
52°	1358.7	1337.9	1242.4	1017.0	667.6	316.5	118.2	7.9	0.4	2.4	4.7
53°	1282.9	1253.0	1149.4	933.8	596.5	270.9	99.0	6.7	0.4	2.4	4.3
54°	1187.5	1174.1	1055.1	831.7	513.2	227.0	81.3	5.5	0.4	2.4	4.3
55°	1097.5	1077.9	954.2	727.2	437.8	186.1	67.9	4.3	0.4	2.4	4.3
56°	982.9	953.4	837.6	631.4	361.3	150.0	57.3	3.5	0.4	2.4	4.3
57°	846.2	814.8	723.3	525.0	283.5	114.3	47.9	2.7	0.4	2.4	4.3
58°	715.9	688.8	590.6	405.2	213.6	79.3	39.7	2.0	0.4	2.0	4.3
59°	618.5	588.6	491.2	311.8	148.4	58.5	29.8	1.6	0.4	2.4	4.3
60°	535.6	497.1	395.4	241.5	106.0	42.0	22.0	0.8	0.8	2.4	4.3
62.5°	308.6	272.5	188.9	98.2	43.6	21.6	10.6	0.4	0.8	2.4	4.3
65°	78.1	69.5	45.2	21.2	12.2	7.5	3.9	0.4	0.8	2.0	3.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.7	2.7	2.7	2.4	2.0	1.6	0.8	0.4	0.8	2.0	3.9
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.8	2.0	3.5
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	2.0	3.1
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	2.0	3.1
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.2	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	1.2
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):

	135°	157.5°	180°
0°	20.0	20.0	20.0
2.5°	18.8	18.8	18.8
5°	17.7	17.7	17.3
7.5°	16.5	16.1	16.1
10°	14.9	14.9	14.9
12.5°	13.7	13.7	13.7
15°	12.6	13.0	13.0
17.5°	11.4	12.2	12.2
20°	10.6	11.4	11.8
22.5°	9.8	10.6	11.0
25°	9.4	10.2	10.6
27.5°	8.6	9.8	10.6
30°	8.2	9.4	10.2
31°	8.2	9.4	9.8
32°	7.9	9.4	9.8
33°	7.9	9.4	9.8
34°	7.9	9.0	9.8
35°	7.5	9.0	9.4
36°	7.5	9.0	9.4
37°	7.5	9.0	9.8
38°	7.5	9.0	9.4
39°	7.1	9.0	9.4
40°	7.1	9.0	9.4
41°	7.1	9.0	9.4
42°	7.1	9.0	9.4
43°	7.1	9.0	9.4
44°	7.1	8.6	9.4
45°	7.1	8.6	9.4
46°	7.1	9.0	9.4
47°	7.1	9.0	9.8
48°	7.1	8.6	9.4
49°	6.7	8.6	9.4
50°	6.7	8.6	9.4
51°	6.7	9.0	9.8
52°	6.7	9.0	9.8
53°	6.7	9.0	9.8
54°	6.7	9.0	9.4
55°	6.7	9.0	9.8
56°	6.7	9.0	9.4
57°	6.7	9.0	9.4
58°	6.7	8.6	9.4
59°	6.7	8.6	9.4
60°	6.7	8.6	9.4
62.5°	6.3	8.6	9.4
65°	6.3	8.2	9.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.9	8.2	8.6
70°	5.5	7.9	8.2
72.5°	5.1	7.5	7.9
75°	4.7	6.7	7.1
77.5°	3.9	5.9	6.7
80°	3.5	5.1	5.5
82.5°	2.7	4.3	4.7
85°	2.0	3.1	3.1
87.5°	0.8	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)