

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: P1338428

Luminaire Tested: P3A05R359730DE010 E3A451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338428
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: P3A05R359730DE010 E3A451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , E3A451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

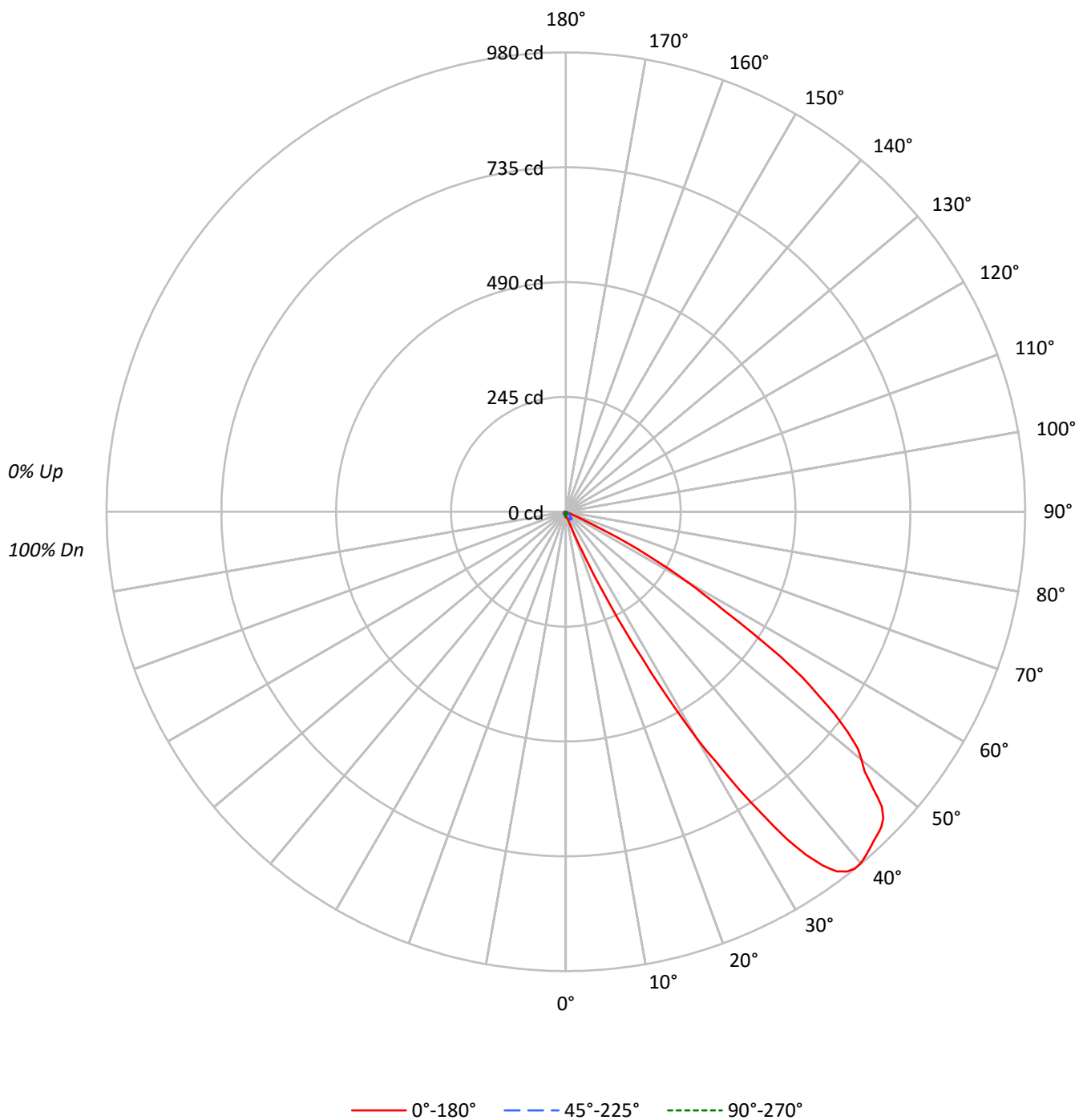
Lumens per Lamp: N/A
Luminaire Lumens: 244.0 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2456	2456	2456	2456	2456
5°	2663	2619	2421	2179	2135
10°	2806	2561	2160	1870	1870
15°	3995	2497	1748	1589	1657
20°	10034	2684	1377	1377	1540
25°	46527	3411	1065	1282	1428
30°	141439	4634	836	1165	1443
35°	239022	5354	696	1124	1419
40°	280182	5296	573	1145	1517
45°	295069	3752	465	1240	1644
50°	280861	2252	443	1262	1808
55°	235346	918	497	1415	2103
60°	131744	175	570	1623	2324
65°	22726	104	571	1816	2646
70°	449	128	705	1988	2949
75°	339	169	932	2203	3389
80°	253	253	1137	2526	3915
85°	0	503	2264	2768	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 297169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	2.9	1.2
20°-30°	15.0	6.1
30°-40°	64.7	26.5
40°-50°	92.2	37.8
50°-60°	57.1	23.4
60°-70°	8.7	3.6
70°-80°	1.6	0.7
80°-90°	0.8	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°	18.9	7.7
0°-40°	83.5	34.2
0°-60°	232.9	95.4
0°-90°	244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	12	11	10	10	1
15°	18	11	8	7	7	6
25°	192	14	4	5	6	115
35°	893	20	3	4	5	536
45°	952	12	2	4	5	719
55°	616	2	1	4	6	524
65°	44	0	1	4	5	90
75°	0	0	1	3	4	0
85°	0	0	1	1	2	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.2	11.0
5°	12.1	12.1	11.9	11.9	11.9	11.9	11.9	11.9	11.5	11.0	10.4
7.5°	12.3	12.3	12.1	12.1	12.1	12.1	11.9	11.7	11.2	10.4	9.7
10°	12.6	12.6	12.6	12.6	12.3	12.1	11.9	11.5	10.8	9.7	9.0
12.5°	14.1	14.1	13.9	13.4	13.0	12.6	12.1	11.2	9.9	8.8	8.1
15°	17.6	17.4	17.0	16.3	15.4	14.3	13.4	11.0	9.0	7.7	7.3
17.5°	24.7	24.2	23.6	21.4	19.4	17.4	15.6	11.0	8.1	6.8	6.4
20°	43.0	43.2	38.5	33.3	28.9	24.0	19.6	11.5	7.3	5.9	5.7
22.5°	89.6	86.1	75.1	62.3	47.6	36.8	27.8	12.6	6.4	5.1	5.1
25°	192.3	178.9	152.2	115.0	81.1	57.5	40.3	14.1	5.7	4.4	4.6
27.5°	351.1	339.0	285.5	215.0	142.7	86.8	54.6	16.1	5.1	3.7	4.2
30°	558.6	525.1	455.3	352.4	238.5	132.8	73.3	18.3	4.2	3.3	4.0
31°	623.3	607.9	522.9	407.7	279.5	157.7	81.3	18.9	4.0	3.3	3.7
32°	700.2	672.9	596.7	468.3	321.1	180.0	90.7	19.6	3.7	2.9	3.7
33°	768.9	742.5	649.8	521.6	363.2	205.3	100.9	19.8	3.3	2.9	3.5
34°	841.2	805.1	713.2	577.3	406.4	232.6	110.1	20.0	3.1	2.6	3.5
35°	892.9	856.8	767.8	621.4	443.6	256.8	120.7	20.0	2.9	2.6	3.3
36°	933.0	901.3	815.0	666.7	480.6	278.6	129.1	20.0	2.4	2.4	3.3
37°	960.6	930.4	846.7	705.7	508.8	298.0	136.6	20.0	2.2	2.4	3.3
38°	974.0	948.9	877.3	734.1	536.1	313.2	142.5	19.6	2.0	2.2	3.1
39°	979.7	959.2	896.0	758.1	556.6	326.4	146.9	19.2	1.8	2.2	3.1
40°	978.8	961.0	906.6	774.7	573.1	335.5	149.3	18.5	1.5	2.0	3.1
41°	973.8	958.4	912.1	788.8	583.0	341.6	150.0	17.8	1.3	2.0	2.9
42°	968.1	954.0	913.9	796.2	589.4	343.6	148.2	17.0	1.3	1.8	2.9
43°	962.1	949.1	913.9	798.7	591.0	342.3	145.4	15.4	1.1	1.8	2.9
44°	957.3	944.9	911.0	798.0	587.7	337.2	140.1	13.7	0.9	1.8	2.9
45°	951.5	939.4	907.3	793.8	581.3	328.6	133.5	12.1	0.7	1.5	2.9
46°	941.4	931.9	900.7	785.2	571.1	316.7	125.1	11.0	0.4	1.5	2.6
47°	921.8	913.6	887.9	772.5	557.7	302.6	116.5	9.9	0.4	1.5	2.6
48°	882.4	882.2	862.3	748.7	536.3	285.0	107.5	8.8	0.4	1.5	2.6
49°	844.3	840.3	815.6	706.8	505.7	263.9	98.0	7.9	0.2	1.5	2.6
50°	823.3	814.7	774.2	657.5	466.5	234.6	87.9	6.6	0.2	1.3	2.6
51°	801.5	789.2	741.4	613.0	419.8	206.4	76.9	5.3	0.2	1.3	2.4
52°	762.1	750.4	696.9	570.5	374.4	177.5	66.3	4.4	0.2	1.3	2.6
53°	719.6	702.9	644.7	523.8	334.6	152.0	55.5	3.7	0.2	1.3	2.4
54°	666.1	658.6	591.8	466.5	287.9	127.3	45.6	3.1	0.2	1.3	2.4
55°	615.6	604.6	535.2	407.9	245.6	104.4	38.1	2.4	0.2	1.3	2.4
56°	551.3	534.8	469.8	354.2	202.6	84.1	32.2	2.0	0.2	1.3	2.4
57°	474.7	457.0	405.7	294.5	159.0	64.1	26.9	1.5	0.2	1.3	2.4
58°	401.5	386.3	331.3	227.3	119.8	44.5	22.2	1.1	0.2	1.1	2.4
59°	346.9	330.2	275.5	174.9	83.3	32.8	16.7	0.9	0.2	1.3	2.4
60°	300.4	278.9	221.8	135.5	59.5	23.6	12.3	0.4	0.4	1.3	2.4
62.5°	173.1	152.9	105.9	55.1	24.4	12.1	5.9	0.2	0.4	1.3	2.4
65°	43.8	39.0	25.3	11.9	6.8	4.2	2.2	0.2	0.4	1.1	2.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.5	1.5	1.5	1.3	1.1	0.9	0.4	0.2	0.4	1.1	2.2
70°	0.7	0.7	0.7	0.4	0.4	0.2	0.2	0.2	0.4	1.1	2.0
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.7	1.1	1.8
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.7	1.1	1.8
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7
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°	11.2	11.2	11.2
2.5°	10.6	10.6	10.6
5°	9.9	9.9	9.7
7.5°	9.3	9.0	9.0
10°	8.4	8.4	8.4
12.5°	7.7	7.7	7.7
15°	7.0	7.3	7.3
17.5°	6.4	6.8	6.8
20°	5.9	6.4	6.6
22.5°	5.5	5.9	6.2
25°	5.3	5.7	5.9
27.5°	4.8	5.5	5.9
30°	4.6	5.3	5.7
31°	4.6	5.3	5.5
32°	4.4	5.3	5.5
33°	4.4	5.3	5.5
34°	4.4	5.1	5.5
35°	4.2	5.1	5.3
36°	4.2	5.1	5.3
37°	4.2	5.1	5.5
38°	4.2	5.1	5.3
39°	4.0	5.1	5.3
40°	4.0	5.1	5.3
41°	4.0	5.1	5.3
42°	4.0	5.1	5.3
43°	4.0	5.1	5.3
44°	4.0	4.8	5.3
45°	4.0	4.8	5.3
46°	4.0	5.1	5.3
47°	4.0	5.1	5.5
48°	4.0	4.8	5.3
49°	3.7	4.8	5.3
50°	3.7	4.8	5.3
51°	3.7	5.1	5.5
52°	3.7	5.1	5.5
53°	3.7	5.1	5.5
54°	3.7	5.1	5.3
55°	3.7	5.1	5.5
56°	3.7	5.1	5.3
57°	3.7	5.1	5.3
58°	3.7	4.8	5.3
59°	3.7	4.8	5.3
60°	3.7	4.8	5.3
62.5°	3.5	4.8	5.3
65°	3.5	4.6	5.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.3	4.6	4.8
70°	3.1	4.4	4.6
72.5°	2.9	4.2	4.4
75°	2.6	3.7	4.0
77.5°	2.2	3.3	3.7
80°	2.0	2.9	3.1
82.5°	1.5	2.4	2.6
85°	1.1	1.8	1.8
87.5°	0.4	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)