

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: P1335447

Luminaire Tested: P3A02R359740DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335447
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: P3A02R359740DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

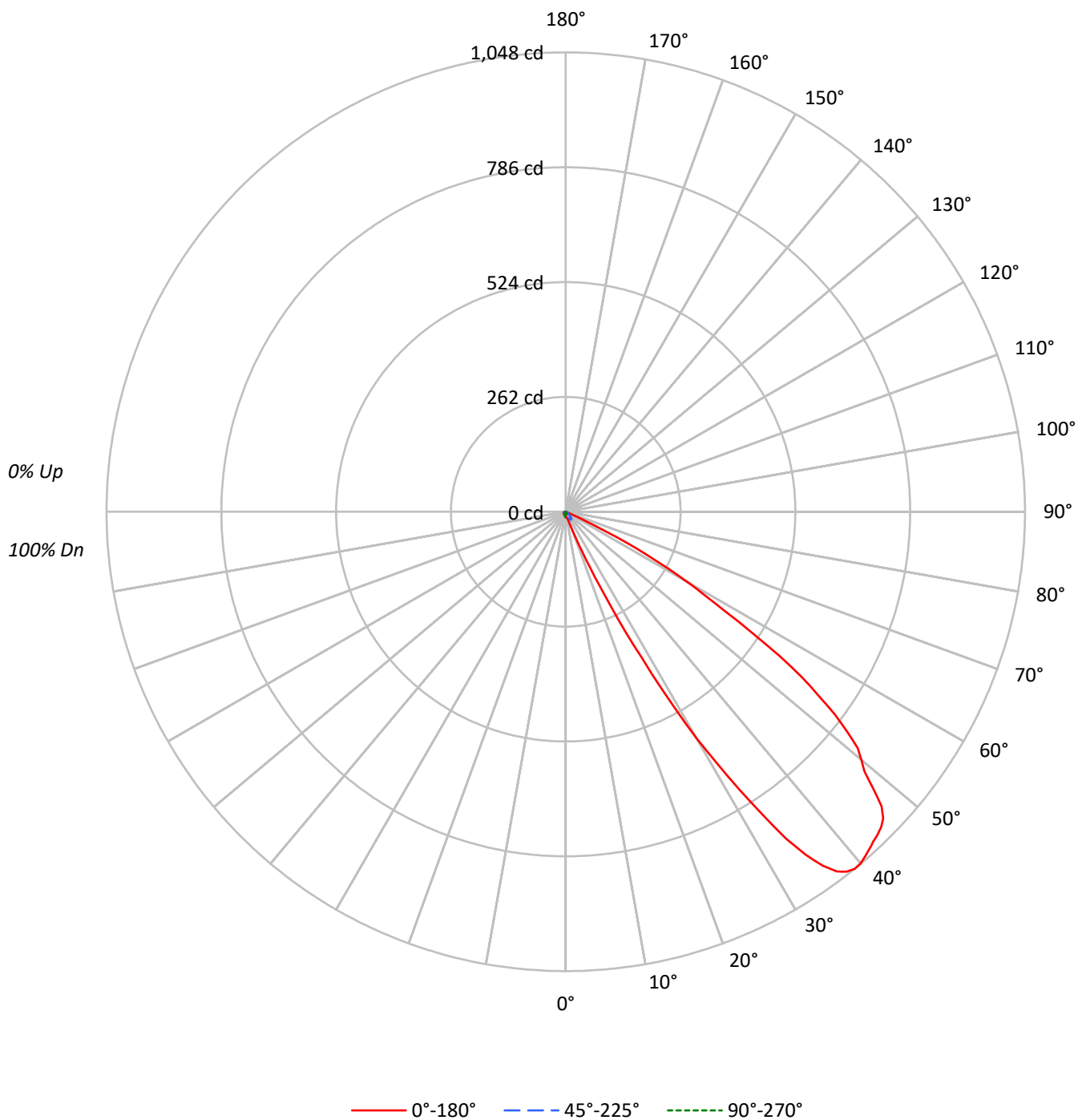
Lumens per Lamp: N/A
Luminaire Lumens: 261.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

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°	2631	2631	2631	2631	2631
5°	2862	2796	2597	2333	2289
10°	2984	2739	2316	2004	2004
15°	4268	2679	1862	1703	1771
20°	10711	2870	1493	1493	1657
25°	49769	3653	1137	1379	1548
30°	151289	4963	886	1241	1545
35°	255700	5729	750	1205	1526
40°	299704	5668	601	1202	1632
45°	315630	4031	496	1302	1768
50°	300442	2422	478	1365	1944
55°	251747	994	535	1529	2256
60°	140954	219	614	1754	2500
65°	24335	104	623	1972	2802
70°	449	128	769	2116	3142
75°	424	169	1017	2372	3558
80°	253	253	1137	2652	4167
85°	0	503	2264	3019	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 317877 cd/sqm

TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	3.1	1.2
20°-30°	16.0	6.1
30°-40°	69.2	26.5
40°-50°	98.7	37.8
50°-60°	61.1	23.4
60°-70°	9.3	3.6
70°-80°	1.7	0.7
80°-90°	0.9	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°	20.2	7.7
0°-40°	89.3	34.2
0°-60°	249.1	95.4
0°-90°	261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	13	12	11	10	1
15°	19	12	8	8	8	7
25°	206	15	5	6	6	123
35°	955	21	3	4	6	573
45°	1018	13	2	4	6	769
55°	658	3	1	4	6	561
65°	47	0	1	4	5	96
75°	0	0	1	3	4	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
2.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.0	11.8
5°	13.0	13.0	12.7	12.7	12.7	12.7	12.7	12.7	12.3	11.8	11.1
7.5°	13.2	13.2	13.0	13.0	13.0	13.0	12.7	12.5	12.0	11.1	10.4
10°	13.4	13.4	13.4	13.4	13.2	13.0	12.7	12.3	11.5	10.4	9.7
12.5°	15.1	15.1	14.8	14.4	13.9	13.4	13.0	12.0	10.6	9.4	8.7
15°	18.8	18.6	18.1	17.4	16.5	15.3	14.4	11.8	9.7	8.2	7.8
17.5°	26.4	25.9	25.2	22.9	20.7	18.6	16.7	11.8	8.7	7.3	6.8
20°	45.9	46.2	41.2	35.6	30.9	25.7	21.0	12.3	7.8	6.4	6.1
22.5°	95.9	92.1	80.3	66.7	50.9	39.3	29.7	13.4	6.8	5.4	5.4
25°	205.7	191.3	162.8	123.0	86.7	61.5	43.1	15.1	6.1	4.7	4.9
27.5°	375.6	362.6	305.3	230.0	152.7	92.8	58.4	17.2	5.4	4.0	4.5
30°	597.5	561.7	487.0	377.0	255.2	142.1	78.5	19.6	4.5	3.5	4.2
31°	666.8	650.3	559.3	436.1	299.0	168.7	86.9	20.3	4.2	3.5	4.0
32°	749.0	719.8	638.3	500.9	343.5	192.5	97.1	21.0	4.0	3.1	4.0
33°	822.5	794.2	695.0	557.9	388.5	219.6	107.9	21.2	3.5	3.1	3.8
34°	899.8	861.1	762.9	617.5	434.7	248.8	117.8	21.4	3.3	2.8	3.8
35°	955.2	916.5	821.3	664.7	474.5	274.7	129.1	21.4	3.1	2.8	3.5
36°	998.0	964.1	871.8	713.2	514.1	298.0	138.1	21.4	2.6	2.6	3.5
37°	1027.5	995.2	905.7	754.9	544.3	318.8	146.1	21.4	2.4	2.6	3.5
38°	1041.9	1015.0	938.4	785.3	573.5	335.0	152.4	21.0	2.1	2.4	3.3
39°	1048.0	1026.1	958.5	811.0	595.4	349.2	157.2	20.5	1.9	2.4	3.3
40°	1047.0	1028.0	969.8	828.6	613.1	358.8	159.7	19.8	1.6	2.1	3.3
41°	1041.6	1025.1	975.7	843.7	623.7	365.4	160.4	19.1	1.4	2.1	3.1
42°	1035.5	1020.4	977.5	851.7	630.5	367.5	158.6	18.1	1.4	1.9	3.1
43°	1029.1	1015.2	977.5	854.3	632.1	366.1	155.5	16.5	1.2	1.9	3.1
44°	1024.0	1010.8	974.5	853.6	628.6	360.7	149.8	14.6	0.9	1.9	3.1
45°	1017.8	1004.9	970.5	849.1	621.8	351.5	142.8	13.0	0.7	1.6	3.1
46°	1007.0	996.9	963.4	839.9	610.9	338.8	133.8	11.8	0.5	1.6	2.8
47°	986.0	977.3	949.7	826.3	596.6	323.7	124.6	10.6	0.5	1.6	2.8
48°	943.8	943.6	922.4	800.8	573.7	304.9	115.0	9.4	0.5	1.6	2.8
49°	903.1	898.8	872.5	756.1	541.0	282.3	104.8	8.5	0.2	1.6	2.8
50°	880.7	871.5	828.2	703.3	499.0	250.9	94.0	7.1	0.2	1.4	2.8
51°	857.4	844.2	793.1	655.7	449.1	220.8	82.2	5.7	0.2	1.4	2.6
52°	815.2	802.7	745.5	610.2	400.5	189.9	70.9	4.7	0.2	1.4	2.8
53°	769.7	751.8	689.6	560.3	357.9	162.6	59.4	4.0	0.2	1.4	2.6
54°	712.5	704.5	633.1	499.0	307.9	136.2	48.8	3.3	0.2	1.4	2.6
55°	658.5	646.7	572.5	436.3	262.7	111.7	40.8	2.6	0.2	1.4	2.6
56°	589.7	572.1	502.6	378.9	216.8	90.0	34.4	2.1	0.2	1.4	2.6
57°	507.7	488.9	434.0	315.0	170.1	68.6	28.7	1.6	0.2	1.4	2.6
58°	429.5	413.3	354.4	243.1	128.2	47.6	23.8	1.2	0.2	1.2	2.6
59°	371.1	353.2	294.7	187.1	89.1	35.1	17.9	0.9	0.2	1.4	2.6
60°	321.4	298.3	237.3	144.9	63.6	25.2	13.2	0.5	0.5	1.4	2.6
62.5°	185.2	163.5	113.3	58.9	26.2	13.0	6.4	0.2	0.5	1.4	2.6
65°	46.9	41.7	27.1	12.7	7.3	4.5	2.4	0.2	0.5	1.2	2.4



TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.6	1.6	1.6	1.4	1.2	0.9	0.5	0.2	0.5	1.2	2.4
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.5	1.2	2.1
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	1.9
75°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	1.9
77.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.2
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

TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	12.0	12.0	12.0
2.5°	11.3	11.3	11.3
5°	10.6	10.6	10.4
7.5°	9.9	9.7	9.7
10°	9.0	9.0	9.0
12.5°	8.2	8.2	8.2
15°	7.5	7.8	7.8
17.5°	6.8	7.3	7.3
20°	6.4	6.8	7.1
22.5°	5.9	6.4	6.6
25°	5.7	6.1	6.4
27.5°	5.2	5.9	6.4
30°	4.9	5.7	6.1
31°	4.9	5.7	5.9
32°	4.7	5.7	5.9
33°	4.7	5.7	5.9
34°	4.7	5.4	5.9
35°	4.5	5.4	5.7
36°	4.5	5.4	5.7
37°	4.5	5.4	5.9
38°	4.5	5.4	5.7
39°	4.2	5.4	5.7
40°	4.2	5.4	5.7
41°	4.2	5.4	5.7
42°	4.2	5.4	5.7
43°	4.2	5.4	5.7
44°	4.2	5.2	5.7
45°	4.2	5.2	5.7
46°	4.2	5.4	5.7
47°	4.2	5.4	5.9
48°	4.2	5.2	5.7
49°	4.0	5.2	5.7
50°	4.0	5.2	5.7
51°	4.0	5.4	5.9
52°	4.0	5.4	5.9
53°	4.0	5.4	5.9
54°	4.0	5.4	5.7
55°	4.0	5.4	5.9
56°	4.0	5.4	5.7
57°	4.0	5.4	5.7
58°	4.0	5.2	5.7
59°	4.0	5.2	5.7
60°	4.0	5.2	5.7
62.5°	3.8	5.2	5.7
65°	3.8	4.9	5.4



TEST NUMBER: P1335447

CATALOG NUMBER: P3A02R359740DE010 E3CA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.5	4.9	5.2
70°	3.3	4.7	4.9
72.5°	3.1	4.5	4.7
75°	2.8	4.0	4.2
77.5°	2.4	3.5	4.0
80°	2.1	3.1	3.3
82.5°	1.6	2.6	2.8
85°	1.2	1.9	1.9
87.5°	0.5	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)