

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: P1335320

Luminaire Tested: P3A02R359030D2WDE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335320
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: P3A02R359030D2WDE010 E3CA451MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

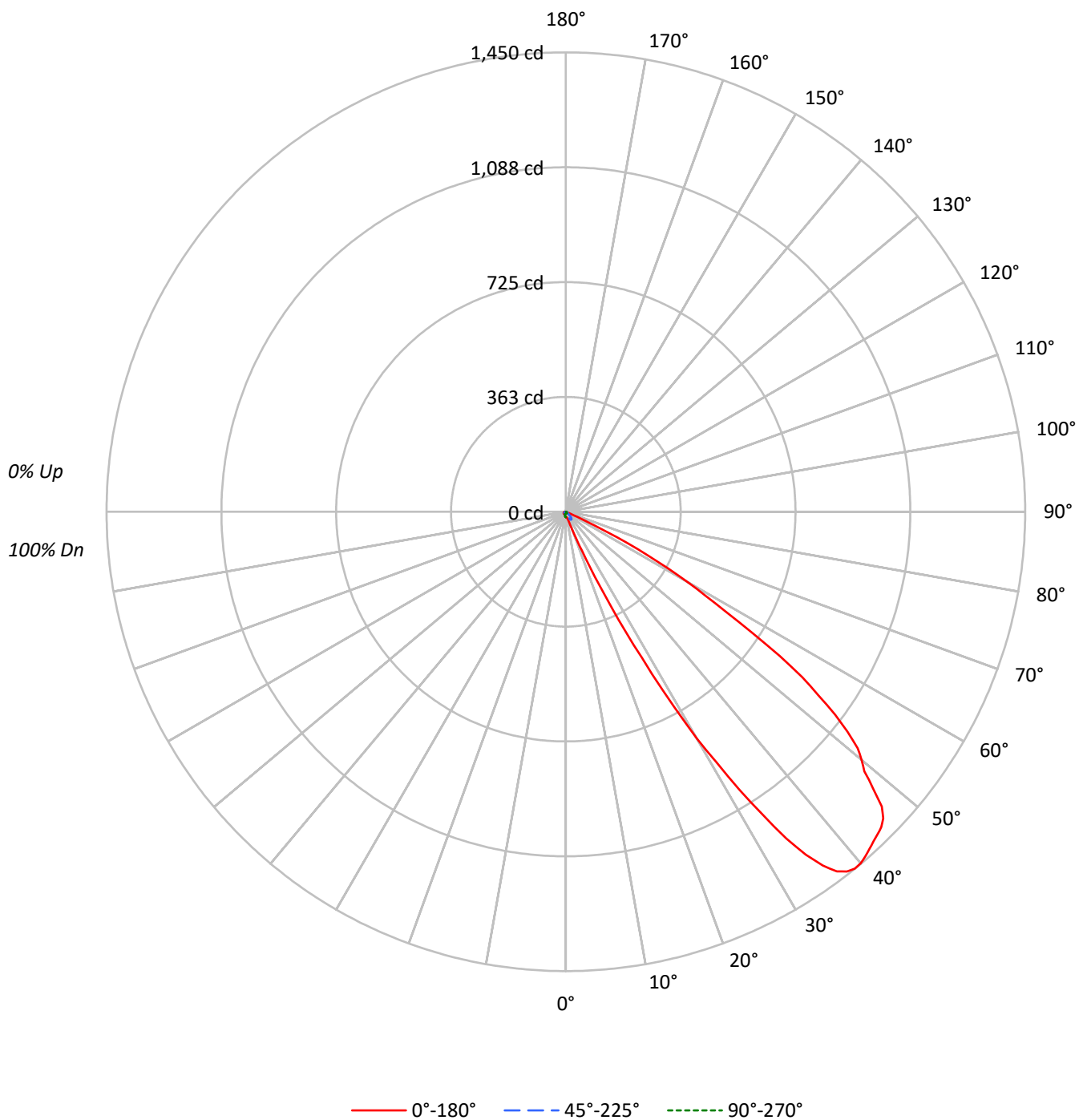
Lumens per Lamp: N/A
Luminaire Lumens: 361.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3640	3640	3640	3640	3640
5°	3940	3874	3588	3236	3148
10°	4142	3763	3184	2761	2761
15°	5925	3700	2588	2361	2452
20°	14818	3944	2054	2054	2287
25°	68835	5057	1573	1887	2129
30°	209247	6836	1241	1722	2152
35°	353648	7950	1044	1660	2088
40°	414548	7843	830	1689	2233
45°	436572	5551	713	1830	2419
50°	415543	3343	682	1876	2661
55°	348203	1376	765	2103	3097
60°	194941	307	877	2412	3421
65°	33674	156	830	2698	3891
70°	641	192	1026	2949	4360
75°	593	254	1356	3304	4999
80°	379	379	1642	3662	5809
85°	0	755	3271	4026	6542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 439661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	4.3	1.2
20°-30°	22.2	6.1
30°-40°	95.7	26.5
40°-50°	136.5	37.8
50°-60°	84.5	23.4
60°-70°	12.9	3.6
70°-80°	2.4	0.7
80°-90°	1.2	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°	27.9	7.7
0°-40°	123.6	34.2
0°-60°	344.5	95.4
0°-90°	361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	18	18	16	15	14	2
15°	26	16	11	10	11	9
25°	284	21	6	8	9	170
35°	1321	30	4	6	8	793
45°	1408	18	2	6	8	1064
55°	911	4	2	6	8	776
65°	65	0	2	5	8	133
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°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	16.6	16.3
5°	17.9	17.9	17.6	17.6	17.6	17.6	17.6	17.6	16.9	16.3	15.3
7.5°	18.2	18.2	17.9	17.9	17.9	17.9	17.6	17.3	16.6	15.3	14.3
10°	18.6	18.6	18.6	18.6	18.2	17.9	17.6	16.9	16.0	14.3	13.4
12.5°	20.9	20.9	20.5	19.9	19.2	18.6	17.9	16.6	14.7	13.0	12.1
15°	26.1	25.7	25.1	24.1	22.8	21.2	19.9	16.3	13.4	11.4	10.8
17.5°	36.5	35.8	34.9	31.6	28.7	25.7	23.1	16.3	12.1	10.1	9.5
20°	63.5	63.9	57.0	49.2	42.7	35.5	29.0	16.9	10.8	8.8	8.5
22.5°	132.6	127.4	111.1	92.2	70.4	54.4	41.1	18.6	9.5	7.5	7.5
25°	284.5	264.6	225.2	170.1	119.9	85.1	59.6	20.9	8.5	6.5	6.8
27.5°	519.5	501.5	422.3	318.1	211.2	128.4	80.8	23.8	7.5	5.5	6.2
30°	826.4	776.9	673.6	521.4	352.9	196.5	108.5	27.0	6.2	4.9	5.9
31°	922.2	899.4	773.6	603.2	413.5	233.3	120.2	28.0	5.9	4.9	5.5
32°	1036.0	995.6	882.8	692.8	475.1	266.2	134.3	29.0	5.5	4.2	5.5
33°	1137.6	1098.5	961.3	771.7	537.4	303.7	149.3	29.3	4.9	4.2	5.2
34°	1244.5	1191.1	1055.2	854.1	601.2	344.1	162.9	29.7	4.6	3.9	5.2
35°	1321.1	1267.7	1136.0	919.3	656.3	380.0	178.6	29.7	4.2	3.9	4.9
36°	1380.4	1333.5	1205.8	986.4	711.1	412.2	191.0	29.7	3.6	3.6	4.9
37°	1421.2	1376.5	1252.7	1044.1	752.8	440.9	202.0	29.7	3.3	3.6	4.9
38°	1441.0	1403.9	1298.0	1086.2	793.2	463.4	210.8	29.0	2.9	3.3	4.6
39°	1449.5	1419.2	1325.7	1121.7	823.5	483.0	217.4	28.4	2.6	3.3	4.6
40°	1448.2	1421.8	1341.3	1146.1	847.9	496.3	220.9	27.4	2.3	2.9	4.6
41°	1440.7	1417.9	1349.5	1167.0	862.6	505.4	221.9	26.4	2.0	2.9	4.2
42°	1432.2	1411.4	1352.1	1178.1	872.1	508.4	219.3	25.1	2.0	2.6	4.2
43°	1423.4	1404.2	1352.1	1181.6	874.3	506.4	215.1	22.8	1.6	2.6	4.2
44°	1416.3	1398.0	1347.8	1180.7	869.4	498.9	207.3	20.2	1.3	2.6	4.2
45°	1407.8	1389.9	1342.3	1174.5	860.0	486.2	197.5	17.9	1.0	2.3	4.2
46°	1392.8	1378.8	1332.5	1161.8	845.0	468.6	185.1	16.3	0.7	2.3	3.9
47°	1363.8	1351.7	1313.6	1142.9	825.1	447.8	172.4	14.7	0.7	2.3	3.9
48°	1305.5	1305.1	1275.8	1107.7	793.5	421.7	159.0	13.0	0.7	2.3	3.9
49°	1249.1	1243.2	1206.7	1045.7	748.2	390.4	145.0	11.7	0.3	2.3	3.9
50°	1218.1	1205.4	1145.5	972.8	690.2	347.1	130.0	9.8	0.3	2.0	3.9
51°	1185.9	1167.6	1096.9	906.9	621.1	305.3	113.7	7.8	0.3	2.0	3.6
52°	1127.5	1110.3	1031.1	844.0	554.0	262.7	98.1	6.5	0.3	2.0	3.9
53°	1064.6	1039.9	953.9	774.9	495.0	224.9	82.1	5.5	0.3	2.0	3.6
54°	985.5	974.4	875.6	690.2	425.9	188.4	67.5	4.6	0.3	2.0	3.6
55°	910.8	894.5	791.9	603.5	363.4	154.5	56.4	3.6	0.3	2.0	3.6
56°	815.7	791.2	695.1	524.0	299.8	124.5	47.6	2.9	0.3	2.0	3.6
57°	702.3	676.2	600.3	435.7	235.3	94.8	39.8	2.3	0.3	2.0	3.6
58°	594.1	571.6	490.1	336.3	177.3	65.8	32.9	1.6	0.3	1.6	3.6
59°	513.3	488.5	407.7	258.7	123.2	48.6	24.8	1.3	0.3	2.0	3.6
60°	444.5	412.6	328.2	200.4	88.0	34.9	18.2	0.7	0.7	2.0	3.6
62.5°	256.1	226.2	156.7	81.5	36.2	17.9	8.8	0.3	0.7	2.0	3.6
65°	64.9	57.7	37.5	17.6	10.1	6.2	3.3	0.3	0.7	1.6	3.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.3	2.3	2.3	2.0	1.6	1.3	0.7	0.3	0.7	1.6	3.3
70°	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.3	0.7	1.6	2.9
72.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.6	2.6
75°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.6	2.6
77.5°	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	2.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	2.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	1.0	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.3	1.0
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°	16.6	16.6	16.6
2.5°	15.6	15.6	15.6
5°	14.7	14.7	14.3
7.5°	13.7	13.4	13.4
10°	12.4	12.4	12.4
12.5°	11.4	11.4	11.4
15°	10.4	10.8	10.8
17.5°	9.5	10.1	10.1
20°	8.8	9.5	9.8
22.5°	8.1	8.8	9.1
25°	7.8	8.5	8.8
27.5°	7.2	8.1	8.8
30°	6.8	7.8	8.5
31°	6.8	7.8	8.1
32°	6.5	7.8	8.1
33°	6.5	7.8	8.1
34°	6.5	7.5	8.1
35°	6.2	7.5	7.8
36°	6.2	7.5	7.8
37°	6.2	7.5	8.1
38°	6.2	7.5	7.8
39°	5.9	7.5	7.8
40°	5.9	7.5	7.8
41°	5.9	7.5	7.8
42°	5.9	7.5	7.8
43°	5.9	7.5	7.8
44°	5.9	7.2	7.8
45°	5.9	7.2	7.8
46°	5.9	7.5	7.8
47°	5.9	7.5	8.1
48°	5.9	7.2	7.8
49°	5.5	7.2	7.8
50°	5.5	7.2	7.8
51°	5.5	7.5	8.1
52°	5.5	7.5	8.1
53°	5.5	7.5	8.1
54°	5.5	7.5	7.8
55°	5.5	7.5	8.1
56°	5.5	7.5	7.8
57°	5.5	7.5	7.8
58°	5.5	7.2	7.8
59°	5.5	7.2	7.8
60°	5.5	7.2	7.8
62.5°	5.2	7.2	7.8
65°	5.2	6.8	7.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	4.9	6.8	7.2
70°	4.6	6.5	6.8
72.5°	4.2	6.2	6.5
75°	3.9	5.5	5.9
77.5°	3.3	4.9	5.5
80°	2.9	4.2	4.6
82.5°	2.3	3.6	3.9
85°	1.6	2.6	2.6
87.5°	0.7	1.3	1.3
90°	0.0	0.0	0.0

(END OF REPORT)