

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: P1335287

Luminaire Tested: P3A02R359024DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335287
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: P3A02R359024DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

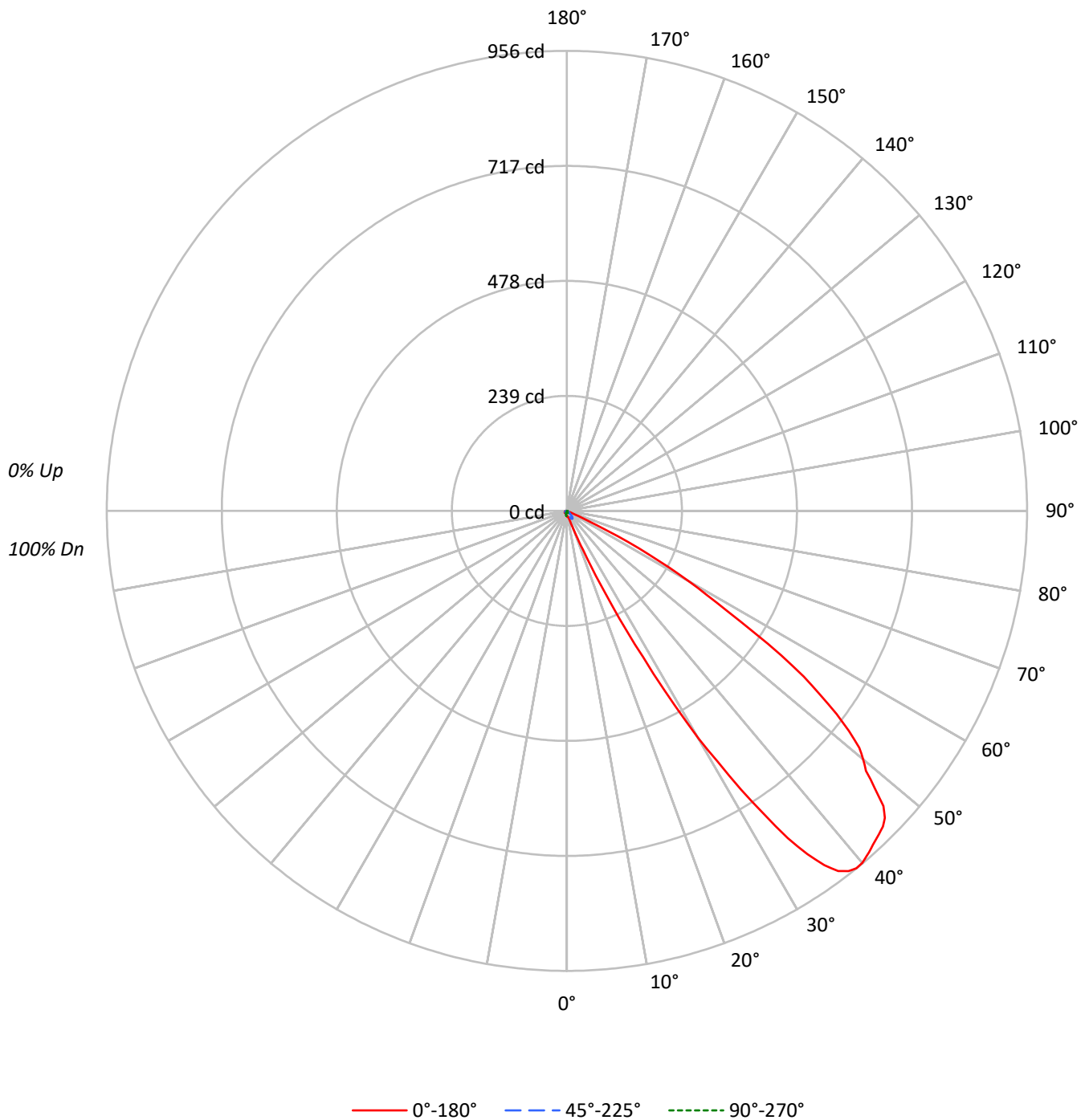
Lumens per Lamp: N/A
Luminaire Lumens: 238.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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				0
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°	2412	2412	2412	2412	2412
5°	2597	2553	2355	2135	2091
10°	2716	2494	2115	1826	1826
15°	3905	2429	1703	1566	1612
20°	9778	2614	1353	1353	1493
25°	45390	3339	1040	1258	1403
30°	137945	4507	810	1139	1418
35°	233160	5247	696	1098	1392
40°	273312	5153	544	1116	1489
45°	287813	3659	465	1209	1613
50°	273970	2183	443	1262	1774
55°	229574	918	497	1415	2064
60°	128498	175	570	1623	2281
65°	22207	104	571	1764	2542
70°	385	128	705	1923	2885
75°	339	169	932	2203	3304
80°	253	253	1137	2399	3788
85°	0	503	2264	2768	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 289877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	2.8	1.2
20°-30°	14.6	6.1
30°-40°	63.1	26.5
40°-50°	90.0	37.8
50°-60°	55.7	23.4
60°-70°	8.5	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°	18.4	7.7
0°-40°	81.5	34.2
0°-60°	227.2	95.4
0°-90°	238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	238.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	12	11	10	10	1
15°	17	11	8	7	7	6
25°	188	14	4	5	6	112
35°	871	20	3	4	5	523
45°	928	12	2	4	5	701
55°	600	2	1	4	5	511
65°	43	0	1	3	5	87
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°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
2.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.0	10.7
5°	11.8	11.8	11.6	11.6	11.6	11.6	11.6	11.6	11.2	10.7	10.1
7.5°	12.0	12.0	11.8	11.8	11.8	11.8	11.6	11.4	11.0	10.1	9.5
10°	12.2	12.2	12.2	12.2	12.0	11.8	11.6	11.2	10.5	9.5	8.8
12.5°	13.8	13.8	13.5	13.1	12.7	12.2	11.8	11.0	9.7	8.6	7.9
15°	17.2	17.0	16.5	15.9	15.0	14.0	13.1	10.7	8.8	7.5	7.1
17.5°	24.1	23.6	23.0	20.8	18.9	17.0	15.3	10.7	7.9	6.7	6.2
20°	41.9	42.1	37.6	32.4	28.1	23.4	19.1	11.2	7.1	5.8	5.6
22.5°	87.4	84.0	73.3	60.8	46.4	35.9	27.1	12.2	6.2	4.9	4.9
25°	187.6	174.5	148.5	112.1	79.1	56.1	39.3	13.8	5.6	4.3	4.5
27.5°	342.5	330.6	278.4	209.7	139.2	84.6	53.3	15.7	4.9	3.7	4.1
30°	544.8	512.2	444.1	343.8	232.7	129.6	71.5	17.8	4.1	3.2	3.9
31°	608.0	593.0	510.0	397.7	272.6	153.8	79.3	18.5	3.9	3.2	3.7
32°	683.0	656.4	582.0	456.8	313.2	175.5	88.5	19.1	3.7	2.8	3.7
33°	750.0	724.2	633.8	508.8	354.3	200.2	98.4	19.3	3.2	2.8	3.4
34°	820.5	785.3	695.7	563.1	396.4	226.9	107.4	19.6	3.0	2.6	3.4
35°	871.0	835.8	749.0	606.1	432.7	250.5	117.7	19.6	2.8	2.6	3.2
36°	910.1	879.1	794.9	650.3	468.8	271.8	125.9	19.6	2.4	2.4	3.2
37°	936.9	907.5	825.9	688.4	496.3	290.7	133.2	19.6	2.1	2.4	3.2
38°	950.0	925.6	855.7	716.1	522.9	305.5	139.0	19.1	1.9	2.1	3.0
39°	955.6	935.7	874.0	739.5	542.9	318.4	143.3	18.7	1.7	2.1	3.0
40°	954.8	937.4	884.3	755.6	559.0	327.2	145.7	18.0	1.5	1.9	3.0
41°	949.8	934.8	889.7	769.4	568.7	333.2	146.3	17.4	1.3	1.9	2.8
42°	944.2	930.5	891.4	776.7	574.9	335.2	144.6	16.5	1.3	1.7	2.8
43°	938.4	925.8	891.4	779.0	576.4	333.9	141.8	15.0	1.1	1.7	2.8
44°	933.7	921.7	888.6	778.4	573.2	328.9	136.6	13.3	0.9	1.7	2.8
45°	928.1	916.3	885.0	774.3	567.0	320.6	130.2	11.8	0.6	1.5	2.8
46°	918.3	909.0	878.5	765.9	557.1	308.9	122.0	10.7	0.4	1.5	2.6
47°	899.1	891.2	866.0	753.5	544.0	295.2	113.7	9.7	0.4	1.5	2.6
48°	860.7	860.5	841.1	730.3	523.1	278.0	104.8	8.6	0.4	1.5	2.6
49°	823.5	819.6	795.6	689.4	493.3	257.4	95.6	7.7	0.2	1.5	2.6
50°	803.1	794.7	755.2	641.3	455.0	228.8	85.7	6.4	0.2	1.3	2.6
51°	781.8	769.8	723.2	597.9	409.5	201.3	75.0	5.2	0.2	1.3	2.4
52°	743.4	732.0	679.8	556.5	365.2	173.2	64.7	4.3	0.2	1.3	2.6
53°	701.9	685.6	628.9	510.9	326.4	148.2	54.1	3.7	0.2	1.3	2.4
54°	649.7	642.4	577.3	455.0	280.8	124.2	44.5	3.0	0.2	1.3	2.4
55°	600.5	589.8	522.1	397.9	239.6	101.8	37.2	2.4	0.2	1.3	2.4
56°	537.8	521.6	458.3	345.5	197.7	82.1	31.4	1.9	0.2	1.3	2.4
57°	463.0	445.8	395.7	287.2	155.1	62.5	26.2	1.5	0.2	1.3	2.4
58°	391.7	376.8	323.1	221.7	116.9	43.4	21.7	1.1	0.2	1.1	2.4
59°	338.4	322.1	268.8	170.6	81.2	32.0	16.3	0.9	0.2	1.3	2.4
60°	293.0	272.0	216.3	132.1	58.0	23.0	12.0	0.4	0.4	1.3	2.4
62.5°	168.9	149.1	103.3	53.7	23.8	11.8	5.8	0.2	0.4	1.3	2.4
65°	42.8	38.0	24.7	11.6	6.7	4.1	2.1	0.2	0.4	1.1	2.1



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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	2.1
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.4	1.1	1.9
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.1	1.7
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.1	1.7
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.9	1.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.9	1.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.9	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.9	0.6
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°	11.0	11.0	11.0
2.5°	10.3	10.3	10.3
5°	9.7	9.7	9.5
7.5°	9.0	8.8	8.8
10°	8.2	8.2	8.2
12.5°	7.5	7.5	7.5
15°	6.9	7.1	7.1
17.5°	6.2	6.7	6.7
20°	5.8	6.2	6.4
22.5°	5.4	5.8	6.0
25°	5.2	5.6	5.8
27.5°	4.7	5.4	5.8
30°	4.5	5.2	5.6
31°	4.5	5.2	5.4
32°	4.3	5.2	5.4
33°	4.3	5.2	5.4
34°	4.3	4.9	5.4
35°	4.1	4.9	5.2
36°	4.1	4.9	5.2
37°	4.1	4.9	5.4
38°	4.1	4.9	5.2
39°	3.9	4.9	5.2
40°	3.9	4.9	5.2
41°	3.9	4.9	5.2
42°	3.9	4.9	5.2
43°	3.9	4.9	5.2
44°	3.9	4.7	5.2
45°	3.9	4.7	5.2
46°	3.9	4.9	5.2
47°	3.9	4.9	5.4
48°	3.9	4.7	5.2
49°	3.7	4.7	5.2
50°	3.7	4.7	5.2
51°	3.7	4.9	5.4
52°	3.7	4.9	5.4
53°	3.7	4.9	5.4
54°	3.7	4.9	5.2
55°	3.7	4.9	5.4
56°	3.7	4.9	5.2
57°	3.7	4.9	5.2
58°	3.7	4.7	5.2
59°	3.7	4.7	5.2
60°	3.7	4.7	5.2
62.5°	3.4	4.7	5.2
65°	3.4	4.5	4.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.2	4.5	4.7
70°	3.0	4.3	4.5
72.5°	2.8	4.1	4.3
75°	2.6	3.7	3.9
77.5°	2.1	3.2	3.7
80°	1.9	2.8	3.0
82.5°	1.5	2.4	2.6
85°	1.1	1.7	1.7
87.5°	0.4	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)