

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: P1337934

Luminaire Tested: P3A05R309735DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309735DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

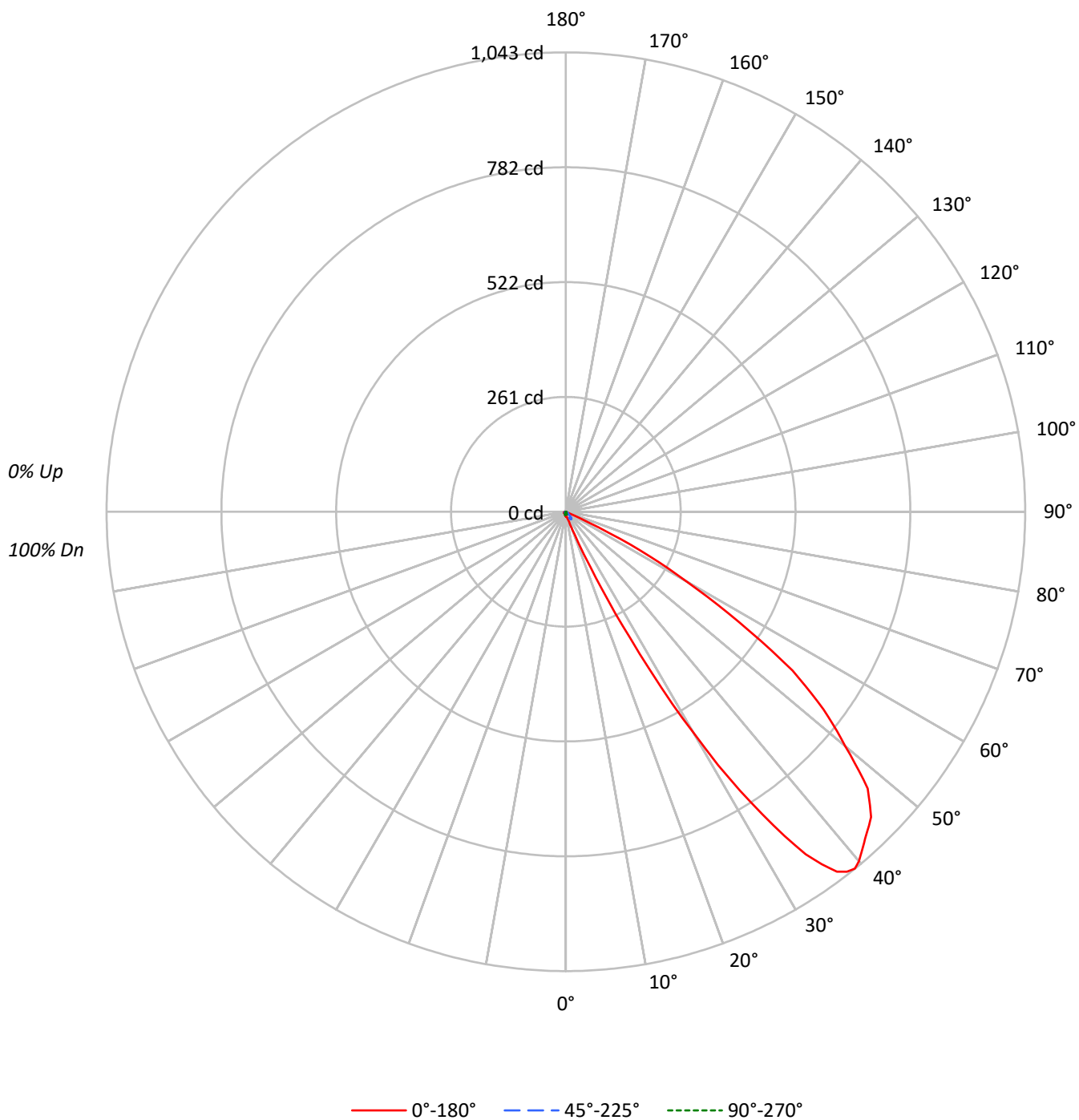
Lumens per Lamp: N/A
Luminaire Lumens: 271.0 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	108	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	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2302	2302	2302	2302	2302
5°	2465	2421	2267	2069	2003
10°	2694	2382	1982	1781	1737
15°	3927	2384	1657	1498	1544
20°	9918	2614	1283	1283	1447
25°	46019	3266	992	1161	1331
30°	146478	4507	760	1089	1342
35°	254147	5488	616	1044	1338
40°	296412	5496	458	1059	1374
45°	303970	3907	496	1147	1489
50°	282703	2183	375	1160	1706
55°	240278	1147	421	1300	1912
60°	138761	307	482	1403	2105
65°	28330	0	571	1660	2387
70°	449	128	705	1923	2757
75°	424	169	763	1949	3304
80°	253	253	1137	2273	3788
85°	0	503	2264	2264	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 303970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.7	1.0
20°-30°	15.6	5.8
30°-40°	73.0	26.9
40°-50°	103.2	38.1
50°-60°	63.5	23.4
60°-70°	9.7	3.6
70°-80°	1.5	0.6
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°	19.3	7.1
0°-40°	92.3	34.1
0°-60°	259.0	95.6
0°-90°	271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	17	10	7	7	7	6
25°	190	14	4	5	6	117
35°	949	20	2	4	5	570
45°	980	13	2	4	5	743
55°	628	3	1	3	5	535
65°	55	0	1	3	5	99
75°	0	0	1	2	4	1
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°	22.5°	45°	67.5°	90°	112.5°	135°
0°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	10.7	10.7	11.0	11.0	10.7	11.0	11.0	11.0	10.5	10.3	9.8
5°	11.2	11.2	11.2	11.4	11.2	11.2	11.0	10.7	10.3	9.6	9.4
7.5°	11.6	11.6	11.4	11.6	11.4	11.4	11.0	10.5	9.8	9.1	8.7
10°	12.1	12.1	11.9	11.9	11.6	11.6	10.7	10.0	8.9	8.2	8.0
12.5°	13.5	13.5	13.2	13.0	12.6	12.3	10.5	9.4	8.0	7.3	7.1
15°	17.3	17.1	16.7	16.0	14.8	14.6	10.5	8.7	7.3	6.6	6.6
17.5°	23.7	23.5	22.8	21.0	18.9	18.3	10.5	7.8	6.4	5.9	5.9
20°	42.5	40.6	37.2	32.6	27.9	25.3	11.2	6.8	5.5	5.3	5.5
21°	55.5	53.6	49.3	41.8	33.3	30.6	11.6	6.6	5.3	5.0	5.5
22°	75.6	73.5	64.6	54.3	42.2	37.4	11.9	6.2	4.8	4.8	5.3
23°	105.5	102.0	87.0	70.5	52.7	45.9	12.3	5.9	4.6	4.8	5.0
24°	138.1	135.1	118.0	93.4	67.3	57.5	12.8	5.7	4.3	4.3	4.8
25°	190.2	186.7	156.4	117.8	85.4	69.2	13.5	5.3	4.1	4.1	4.8
26°	257.5	241.7	201.3	151.8	105.2	86.7	14.2	5.0	3.9	4.1	4.6
27°	321.4	308.4	263.0	194.7	130.1	106.6	15.1	4.8	3.7	3.9	4.6
28°	405.4	387.2	329.9	246.3	163.9	129.0	16.0	4.6	3.4	3.9	4.3
29°	499.5	473.9	404.7	304.3	202.0	154.1	16.9	4.3	3.2	3.7	4.3
30°	578.5	554.5	485.3	373.0	245.9	187.2	17.8	4.1	3.0	3.7	4.3
31°	671.1	634.8	551.1	431.2	283.5	220.3	18.7	3.7	2.7	3.4	4.1
32°	746.2	720.9	631.9	497.0	333.1	256.8	19.4	3.4	2.7	3.4	4.1
33°	818.8	784.8	698.8	560.0	377.8	294.3	20.1	3.2	2.5	3.2	4.1
34°	888.2	857.0	762.0	610.9	420.0	329.9	20.5	2.7	2.5	3.2	3.9
35°	949.4	913.1	817.7	660.6	463.4	362.3	20.5	2.5	2.3	3.0	3.9
36°	989.1	963.1	866.1	709.7	502.7	393.1	20.5	2.3	2.1	3.0	3.7
37°	1023.1	992.8	904.9	747.4	531.7	417.8	20.5	2.1	2.1	3.0	3.7
38°	1037.1	1011.0	931.6	780.7	558.8	442.9	20.3	1.8	1.8	2.7	3.7
39°	1042.6	1019.3	951.7	804.7	578.9	459.8	19.9	1.6	1.8	2.7	3.7
40°	1035.5	1017.9	962.0	820.2	594.9	472.1	19.2	1.4	1.6	2.7	3.7
42.5°	1006.3	994.6	959.7	835.7	608.6	481.2	16.7	0.9	1.6	2.5	3.7
45°	980.2	967.4	936.6	819.5	590.8	463.2	12.6	0.5	1.6	2.5	3.7
47.5°	929.8	921.8	897.6	778.2	551.8	422.5	8.9	0.2	1.4	2.3	3.4
50°	828.7	821.1	789.2	675.7	474.6	357.3	6.4	0.2	1.1	2.3	3.4
52.5°	738.0	730.0	684.2	561.8	364.6	261.8	4.1	0.2	1.1	2.3	3.4
55°	628.5	614.5	554.3	426.4	258.4	175.5	3.0	0.2	1.1	2.1	3.4
57.5°	465.2	444.9	391.0	290.8	148.8	95.2	1.6	0.2	1.1	2.1	3.4
60°	316.4	304.3	244.7	153.4	63.5	40.2	0.7	0.2	1.1	2.1	3.2
62.5°	191.8	176.5	123.0	65.3	27.4	18.3	0.0	0.5	1.1	2.1	3.2
65°	54.6	48.4	32.2	14.8	7.8	5.9	0.0	0.5	1.1	2.1	3.2
67.5°	1.8	1.8	1.8	1.6	1.1	1.1	0.2	0.5	1.1	2.1	3.0
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.5	1.1	1.8	3.0
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.9	1.6	2.7
75°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	0.9	1.6	2.3
77.5°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	0.9	1.4	2.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.4	1.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.7	0.9	0.9	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.7	0.5
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):

	157.5°	180°
0°	10.5	10.5
2.5°	9.8	9.8
5°	9.1	9.1
7.5°	8.4	8.4
10°	7.8	7.8
12.5°	7.3	7.3
15°	6.6	6.8
17.5°	6.2	6.4
20°	5.9	6.2
21°	5.9	6.2
22°	5.7	5.9
23°	5.7	5.9
24°	5.5	5.7
25°	5.3	5.5
26°	5.3	5.5
27°	5.3	5.5
28°	5.0	5.5
29°	5.0	5.3
30°	5.0	5.3
31°	4.8	5.3
32°	4.8	5.3
33°	4.8	5.0
34°	4.6	5.0
35°	4.6	5.0
36°	4.6	5.0
37°	4.6	4.8
38°	4.6	5.0
39°	4.6	4.8
40°	4.6	4.8
42.5°	4.6	4.8
45°	4.6	4.8
47.5°	4.6	5.0
50°	4.6	5.0
52.5°	4.6	5.0
55°	4.6	5.0
57.5°	4.6	4.8
60°	4.6	4.8
62.5°	4.3	4.8
65°	4.3	4.6
67.5°	4.3	4.6
70°	4.1	4.3
72.5°	3.9	4.1
75°	3.4	3.9
77.5°	3.2	3.4
80°	2.7	3.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.3	2.3
85°	1.6	1.8
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)