

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: P1337918

Luminaire Tested: P3A05R309730DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337918
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: P3A05R309730DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

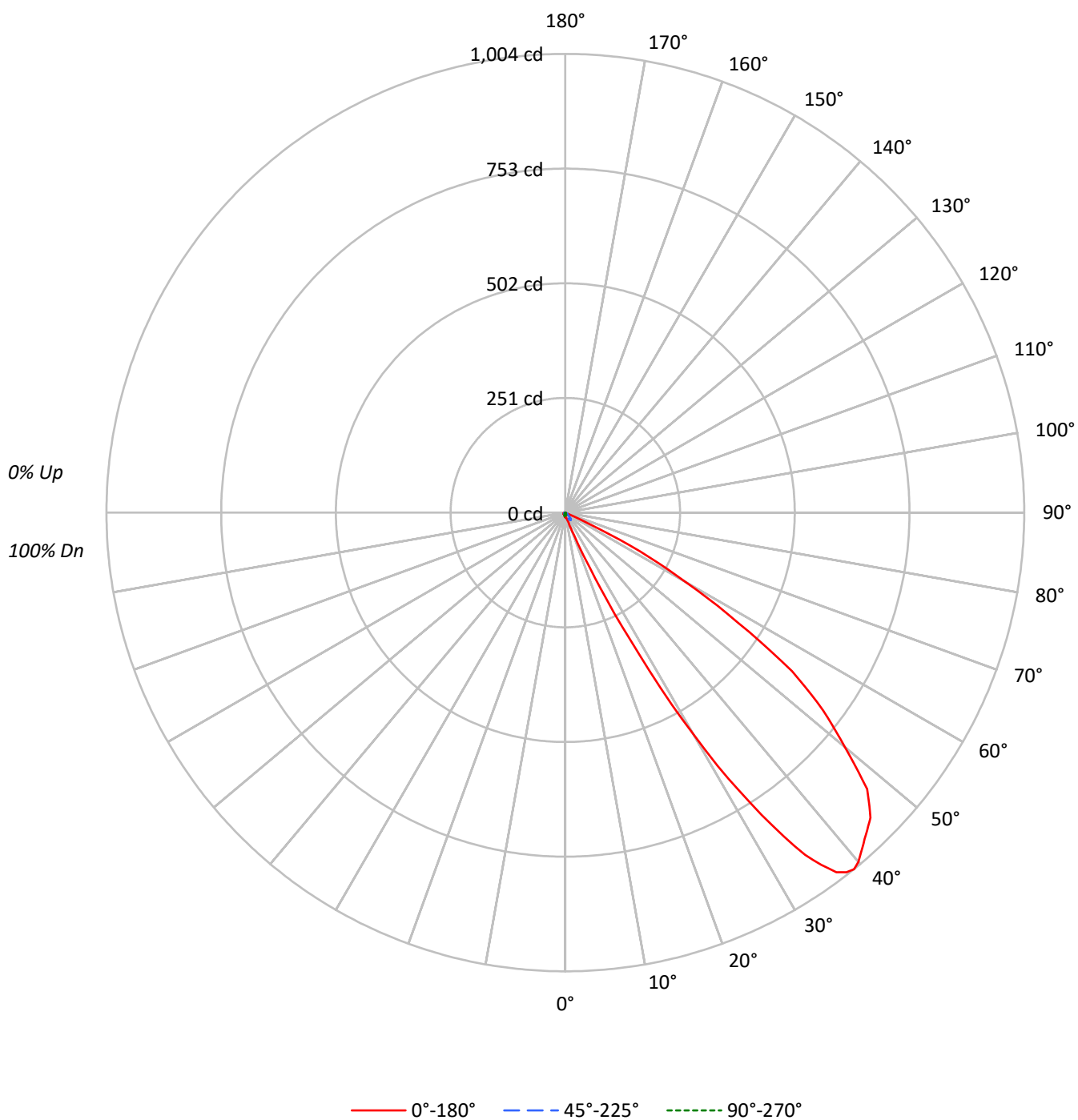
Lumens per Lamp: N/A
Luminaire Lumens: 261.0 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	2215	2215	2215	2215	2215
5°	2377	2333	2179	1981	1937
10°	2605	2293	1915	1715	1670
15°	3791	2293	1589	1453	1498
20°	9544	2520	1237	1237	1377
25°	44301	3145	968	1113	1282
30°	141060	4330	734	1063	1291
35°	244778	5300	589	990	1285
40°	285478	5296	429	1002	1317
45°	292775	3752	465	1085	1427
50°	272264	2115	375	1126	1637
55°	231409	1109	421	1262	1835
60°	133630	307	482	1360	2017
65°	27240	0	571	1608	2283
70°	449	128	705	1859	2693
75°	339	169	763	1864	3135
80°	253	253	1137	2273	3662
85°	0	503	2264	2264	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 292775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.6	1.0
20°-30°	15.1	5.8
30°-40°	70.3	26.9
40°-50°	99.4	38.1
50°-60°	61.2	23.4
60°-70°	9.3	3.6
70°-80°	1.5	0.6
80°-90°	0.7	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°	18.6	7.1
0°-40°	88.9	34.1
0°-60°	249.5	95.6
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°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	17	10	7	6	7	6
25°	183	13	4	5	5	113
35°	914	20	2	4	5	549
45°	944	12	2	4	5	716
55°	605	3	1	3	5	515
65°	52	0	1	3	4	95
75°	0	0	1	2	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°	22.5°	45°	67.5°	90°	112.5°	135°
0°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
2.5°	10.3	10.3	10.6	10.6	10.3	10.6	10.6	10.6	10.1	9.9	9.5
5°	10.8	10.8	10.8	11.0	10.8	10.8	10.6	10.3	9.9	9.2	9.0
7.5°	11.2	11.2	11.0	11.2	11.0	11.0	10.6	10.1	9.5	8.8	8.4
10°	11.7	11.7	11.4	11.4	11.2	11.2	10.3	9.7	8.6	7.9	7.7
12.5°	13.0	13.0	12.8	12.5	12.1	11.9	10.1	9.0	7.7	7.0	6.8
15°	16.7	16.5	16.0	15.4	14.3	14.1	10.1	8.4	7.0	6.4	6.4
17.5°	22.9	22.6	22.0	20.2	18.2	17.6	10.1	7.5	6.2	5.7	5.7
20°	40.9	39.1	35.8	31.4	26.8	24.4	10.8	6.6	5.3	5.1	5.3
21°	53.4	51.7	47.5	40.2	32.1	29.5	11.2	6.4	5.1	4.8	5.3
22°	72.8	70.8	62.2	52.3	40.7	36.1	11.4	5.9	4.6	4.6	5.1
23°	101.6	98.3	83.8	67.9	50.8	44.2	11.9	5.7	4.4	4.6	4.8
24°	133.0	130.2	113.7	89.9	64.9	55.4	12.3	5.5	4.2	4.2	4.6
25°	183.1	179.8	150.6	113.4	82.2	66.6	13.0	5.1	4.0	4.0	4.6
26°	248.0	232.8	193.9	146.2	101.4	83.5	13.6	4.8	3.7	4.0	4.4
27°	309.6	297.0	253.3	187.5	125.3	102.7	14.5	4.6	3.5	3.7	4.4
28°	390.5	372.9	317.7	237.2	157.9	124.2	15.4	4.4	3.3	3.7	4.2
29°	481.0	456.4	389.8	293.1	194.6	148.4	16.3	4.2	3.1	3.5	4.2
30°	557.1	534.0	467.4	359.2	236.8	180.3	17.1	4.0	2.9	3.5	4.2
31°	646.4	611.4	530.7	415.3	273.1	212.2	18.0	3.5	2.6	3.3	4.0
32°	718.7	694.3	608.6	478.6	320.8	247.3	18.7	3.3	2.6	3.3	4.0
33°	788.6	755.9	673.0	539.3	363.9	283.4	19.3	3.1	2.4	3.1	4.0
34°	855.5	825.3	733.9	588.3	404.5	317.7	19.8	2.6	2.4	3.1	3.7
35°	914.4	879.4	787.5	636.3	446.3	348.9	19.8	2.4	2.2	2.9	3.7
36°	952.6	927.6	834.1	683.5	484.1	378.6	19.8	2.2	2.0	2.9	3.5
37°	985.4	956.2	871.5	719.8	512.0	402.3	19.8	2.0	2.0	2.9	3.5
38°	998.8	973.7	897.2	751.9	538.2	426.5	19.6	1.8	1.8	2.6	3.5
39°	1004.1	981.7	916.6	775.0	557.6	442.8	19.1	1.5	1.8	2.6	3.5
40°	997.3	980.3	926.5	789.9	572.9	454.7	18.5	1.3	1.5	2.6	3.5
42.5°	969.1	957.9	924.3	804.9	586.1	463.5	16.0	0.9	1.5	2.4	3.5
45°	944.1	931.7	902.1	789.3	569.0	446.1	12.1	0.4	1.5	2.4	3.5
47.5°	895.5	887.8	864.5	749.5	531.4	407.0	8.6	0.2	1.3	2.2	3.3
50°	798.1	790.8	760.0	650.8	457.1	344.1	6.2	0.2	1.1	2.2	3.3
52.5°	710.8	703.1	658.9	541.1	351.1	252.2	4.0	0.2	1.1	2.2	3.3
55°	605.3	591.9	533.8	410.7	248.9	169.1	2.9	0.2	1.1	2.0	3.3
57.5°	448.1	428.5	376.6	280.1	143.3	91.7	1.5	0.2	1.1	2.0	3.3
60°	304.7	293.1	235.7	147.7	61.1	38.7	0.7	0.2	1.1	2.0	3.1
62.5°	184.7	169.9	118.5	62.9	26.4	17.6	0.0	0.4	1.1	2.0	3.1
65°	52.5	46.6	31.0	14.3	7.5	5.7	0.0	0.4	1.1	2.0	3.1
67.5°	1.8	1.8	1.8	1.5	1.1	1.1	0.2	0.4	1.1	2.0	2.9
70°	0.7	0.7	0.7	0.4	0.4	0.2	0.2	0.4	1.1	1.8	2.9
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.9	1.5	2.6
75°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.7	0.9	1.5	2.2
77.5°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.7	0.9	1.3	2.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.3	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	1.3
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	0.4
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°	10.1	10.1
2.5°	9.5	9.5
5°	8.8	8.8
7.5°	8.1	8.1
10°	7.5	7.5
12.5°	7.0	7.0
15°	6.4	6.6
17.5°	5.9	6.2
20°	5.7	5.9
21°	5.7	5.9
22°	5.5	5.7
23°	5.5	5.7
24°	5.3	5.5
25°	5.1	5.3
26°	5.1	5.3
27°	5.1	5.3
28°	4.8	5.3
29°	4.8	5.1
30°	4.8	5.1
31°	4.6	5.1
32°	4.6	5.1
33°	4.6	4.8
34°	4.4	4.8
35°	4.4	4.8
36°	4.4	4.8
37°	4.4	4.6
38°	4.4	4.8
39°	4.4	4.6
40°	4.4	4.6
42.5°	4.4	4.6
45°	4.4	4.6
47.5°	4.4	4.8
50°	4.4	4.8
52.5°	4.4	4.8
55°	4.4	4.8
57.5°	4.4	4.6
60°	4.4	4.6
62.5°	4.2	4.6
65°	4.2	4.4
67.5°	4.2	4.4
70°	4.0	4.2
72.5°	3.7	4.0
75°	3.3	3.7
77.5°	3.1	3.3
80°	2.6	2.9

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.2	2.2
85°	1.5	1.8
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)