

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: P1338494

Luminaire Tested: P3A05R359830DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338494
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: P3A05R359830DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 98CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

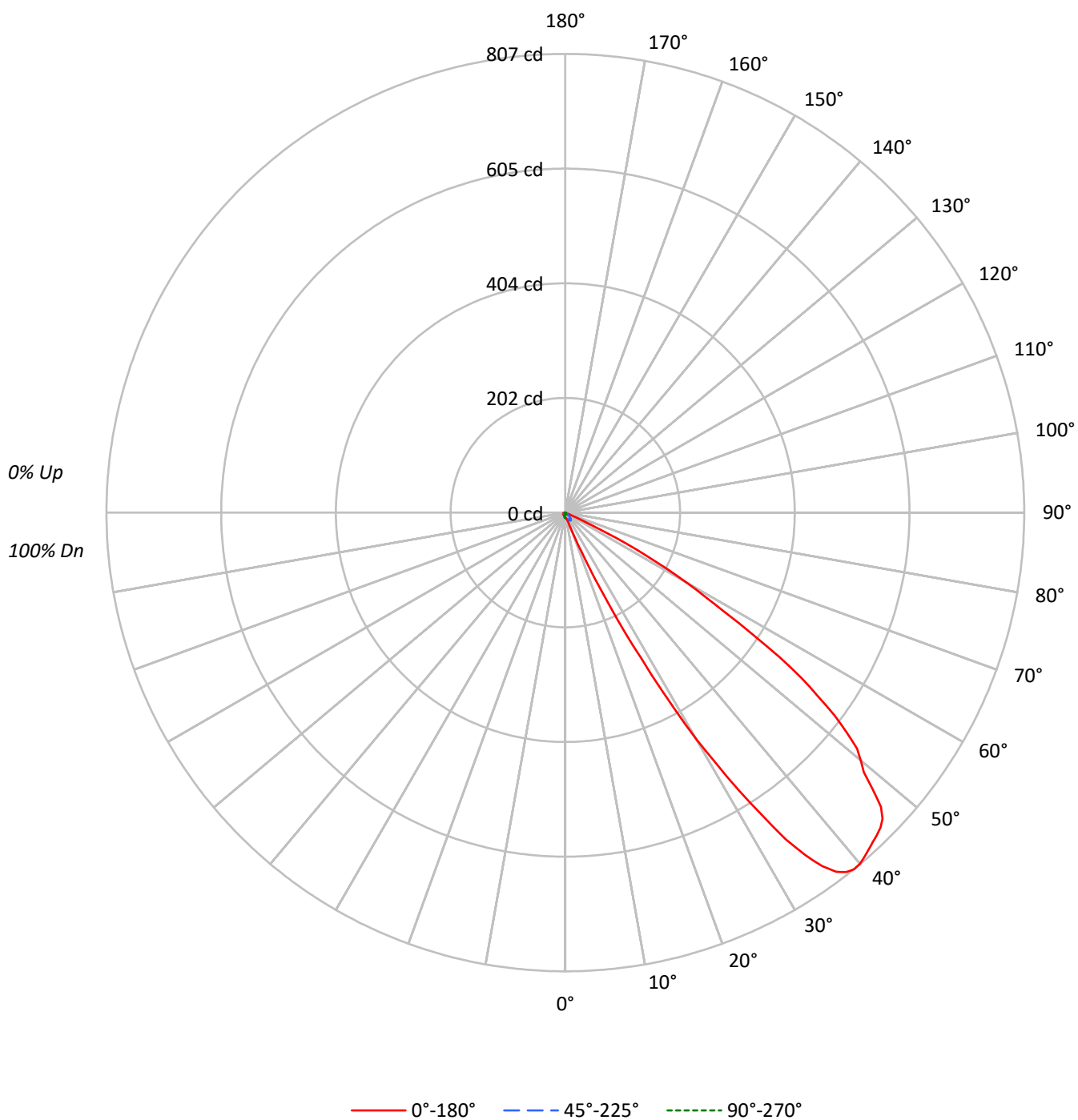
Lumens per Lamp: N/A
Luminaire Lumens: 201.0 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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°	2039	2039	2039	2039	2039
5°	2201	2157	2003	1805	1761
10°	2293	2093	1781	1536	1536
15°	3292	2066	1453	1317	1362
20°	8261	2194	1143	1143	1260
25°	38325	2807	871	1065	1186
30°	116499	3823	684	962	1190
35°	196914	4417	589	910	1178
40°	230804	4351	458	945	1260
45°	243064	3101	403	1023	1364
50°	231361	1842	375	1058	1501
55°	193866	765	421	1185	1720
60°	108544	175	482	1360	1930
65°	18731	104	467	1505	2179
70°	321	128	577	1603	2436
75°	339	169	763	1864	2796
80°	253	253	884	2020	3157
85°	0	503	1761	2264	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 244800 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	2.4	1.2
20°-30°	12.3	6.1
30°-40°	53.3	26.5
40°-50°	76.0	37.8
50°-60°	47.1	23.4
60°-70°	7.2	3.6
70°-80°	1.3	0.7
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°	15.5	7.7
0°-40°	68.8	34.2
0°-60°	191.9	95.4
0°-90°	201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	10	10	9	8	8	1
15°	14	9	6	6	6	5
25°	158	12	4	4	5	95
35°	736	16	2	3	4	442
45°	784	10	1	3	4	592
55°	507	2	1	3	4	432
65°	36	0	1	3	4	74
75°	0	0	1	2	3	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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.3	9.1
5°	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.4	9.1	8.5
7.5°	10.2	10.2	10.0	10.0	10.0	10.0	9.8	9.6	9.3	8.5	8.0
10°	10.3	10.3	10.3	10.3	10.2	10.0	9.8	9.4	8.9	8.0	7.4
12.5°	11.6	11.6	11.4	11.1	10.7	10.3	10.0	9.3	8.2	7.3	6.7
15°	14.5	14.3	14.0	13.4	12.7	11.8	11.1	9.1	7.4	6.4	6.0
17.5°	20.3	20.0	19.4	17.6	16.0	14.3	12.9	9.1	6.7	5.6	5.3
20°	35.4	35.6	31.8	27.4	23.8	19.8	16.1	9.4	6.0	4.9	4.7
22.5°	73.8	70.9	61.9	51.3	39.2	30.3	22.9	10.3	5.3	4.2	4.2
25°	158.4	147.3	125.4	94.7	66.8	47.4	33.2	11.6	4.7	3.6	3.8
27.5°	289.2	279.2	235.2	177.1	117.6	71.5	45.0	13.2	4.2	3.1	3.4
30°	460.1	432.6	375.0	290.3	196.5	109.4	60.4	15.1	3.4	2.7	3.3
31°	513.5	500.8	430.8	335.9	230.3	129.9	67.0	15.6	3.3	2.7	3.1
32°	576.8	554.3	491.5	385.8	264.5	148.2	74.8	16.1	3.1	2.4	3.1
33°	633.4	611.7	535.3	429.7	299.2	169.1	83.1	16.3	2.7	2.4	2.9
34°	692.9	663.2	587.5	475.6	334.8	191.6	90.7	16.5	2.5	2.2	2.9
35°	735.6	705.8	632.5	511.9	365.4	211.6	99.4	16.5	2.4	2.2	2.7
36°	768.6	742.5	671.3	549.2	395.9	229.5	106.3	16.5	2.0	2.0	2.7
37°	791.3	766.4	697.5	581.4	419.1	245.5	112.5	16.5	1.8	2.0	2.7
38°	802.4	781.7	722.7	604.8	441.6	258.0	117.4	16.1	1.6	1.8	2.5
39°	807.1	790.2	738.1	624.5	458.5	268.9	121.0	15.8	1.5	1.8	2.5
40°	806.3	791.6	746.8	638.1	472.1	276.3	123.0	15.2	1.3	1.6	2.5
41°	802.2	789.5	751.4	649.8	480.3	281.4	123.6	14.7	1.1	1.6	2.4
42°	797.5	785.8	752.8	655.9	485.5	283.1	122.1	14.0	1.1	1.5	2.4
43°	792.6	781.8	752.8	657.9	486.8	282.0	119.8	12.7	0.9	1.5	2.4
44°	788.6	778.4	750.5	657.4	484.1	277.8	115.4	11.2	0.7	1.5	2.4
45°	783.8	773.9	747.4	653.9	478.8	270.7	110.0	10.0	0.5	1.3	2.4
46°	775.5	767.7	741.9	646.9	470.5	260.9	103.1	9.1	0.4	1.3	2.2
47°	759.3	752.6	731.4	636.3	459.4	249.3	96.0	8.2	0.4	1.3	2.2
48°	726.9	726.7	710.4	616.7	441.8	234.8	88.5	7.3	0.4	1.3	2.2
49°	695.5	692.2	671.9	582.3	416.6	217.4	80.7	6.5	0.2	1.3	2.2
50°	678.2	671.2	637.8	541.6	384.3	193.2	72.4	5.4	0.2	1.1	2.2
51°	660.3	650.1	610.7	505.0	345.8	170.0	63.3	4.4	0.2	1.1	2.0
52°	627.8	618.2	574.1	469.9	308.5	146.2	54.6	3.6	0.2	1.1	2.2
53°	592.8	579.0	531.1	431.5	275.6	125.2	45.7	3.1	0.2	1.1	2.0
54°	548.7	542.5	487.5	384.3	237.1	104.9	37.6	2.5	0.2	1.1	2.0
55°	507.1	498.1	440.9	336.0	202.3	86.0	31.4	2.0	0.2	1.1	2.0
56°	454.2	440.5	387.0	291.8	166.9	69.3	26.5	1.6	0.2	1.1	2.0
57°	391.0	376.5	334.2	242.6	131.0	52.8	22.1	1.3	0.2	1.1	2.0
58°	330.8	318.3	272.9	187.3	98.7	36.7	18.3	0.9	0.2	0.9	2.0
59°	285.8	272.0	227.0	144.1	68.6	27.0	13.8	0.7	0.2	1.1	2.0
60°	247.5	229.7	182.7	111.6	49.0	19.4	10.2	0.4	0.4	1.1	2.0
62.5°	142.6	125.9	87.3	45.4	20.1	10.0	4.9	0.2	0.4	1.1	2.0
65°	36.1	32.1	20.9	9.8	5.6	3.4	1.8	0.2	0.4	0.9	1.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.3	1.3	1.3	1.1	0.9	0.7	0.4	0.2	0.4	0.9	1.8
70°	0.5	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.4	0.9	1.6
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.5	0.9	1.5
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.5	0.9	1.5
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	1.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	1.1
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.5	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	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):

	135°	157.5°	180°
0°	9.3	9.3	9.3
2.5°	8.7	8.7	8.7
5°	8.2	8.2	8.0
7.5°	7.6	7.4	7.4
10°	6.9	6.9	6.9
12.5°	6.4	6.4	6.4
15°	5.8	6.0	6.0
17.5°	5.3	5.6	5.6
20°	4.9	5.3	5.4
22.5°	4.5	4.9	5.1
25°	4.4	4.7	4.9
27.5°	4.0	4.5	4.9
30°	3.8	4.4	4.7
31°	3.8	4.4	4.5
32°	3.6	4.4	4.5
33°	3.6	4.4	4.5
34°	3.6	4.2	4.5
35°	3.4	4.2	4.4
36°	3.4	4.2	4.4
37°	3.4	4.2	4.5
38°	3.4	4.2	4.4
39°	3.3	4.2	4.4
40°	3.3	4.2	4.4
41°	3.3	4.2	4.4
42°	3.3	4.2	4.4
43°	3.3	4.2	4.4
44°	3.3	4.0	4.4
45°	3.3	4.0	4.4
46°	3.3	4.2	4.4
47°	3.3	4.2	4.5
48°	3.3	4.0	4.4
49°	3.1	4.0	4.4
50°	3.1	4.0	4.4
51°	3.1	4.2	4.5
52°	3.1	4.2	4.5
53°	3.1	4.2	4.5
54°	3.1	4.2	4.4
55°	3.1	4.2	4.5
56°	3.1	4.2	4.4
57°	3.1	4.2	4.4
58°	3.1	4.0	4.4
59°	3.1	4.0	4.4
60°	3.1	4.0	4.4
62.5°	2.9	4.0	4.4
65°	2.9	3.8	4.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	2.7	3.8	4.0
70°	2.5	3.6	3.8
72.5°	2.4	3.4	3.6
75°	2.2	3.1	3.3
77.5°	1.8	2.7	3.1
80°	1.6	2.4	2.5
82.5°	1.3	2.0	2.2
85°	0.9	1.5	1.5
87.5°	0.4	0.7	0.7
90°	0.0	0.0	0.0

(END OF REPORT)