

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: P1336100

Luminaire Tested: P3A02R459735DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459735DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

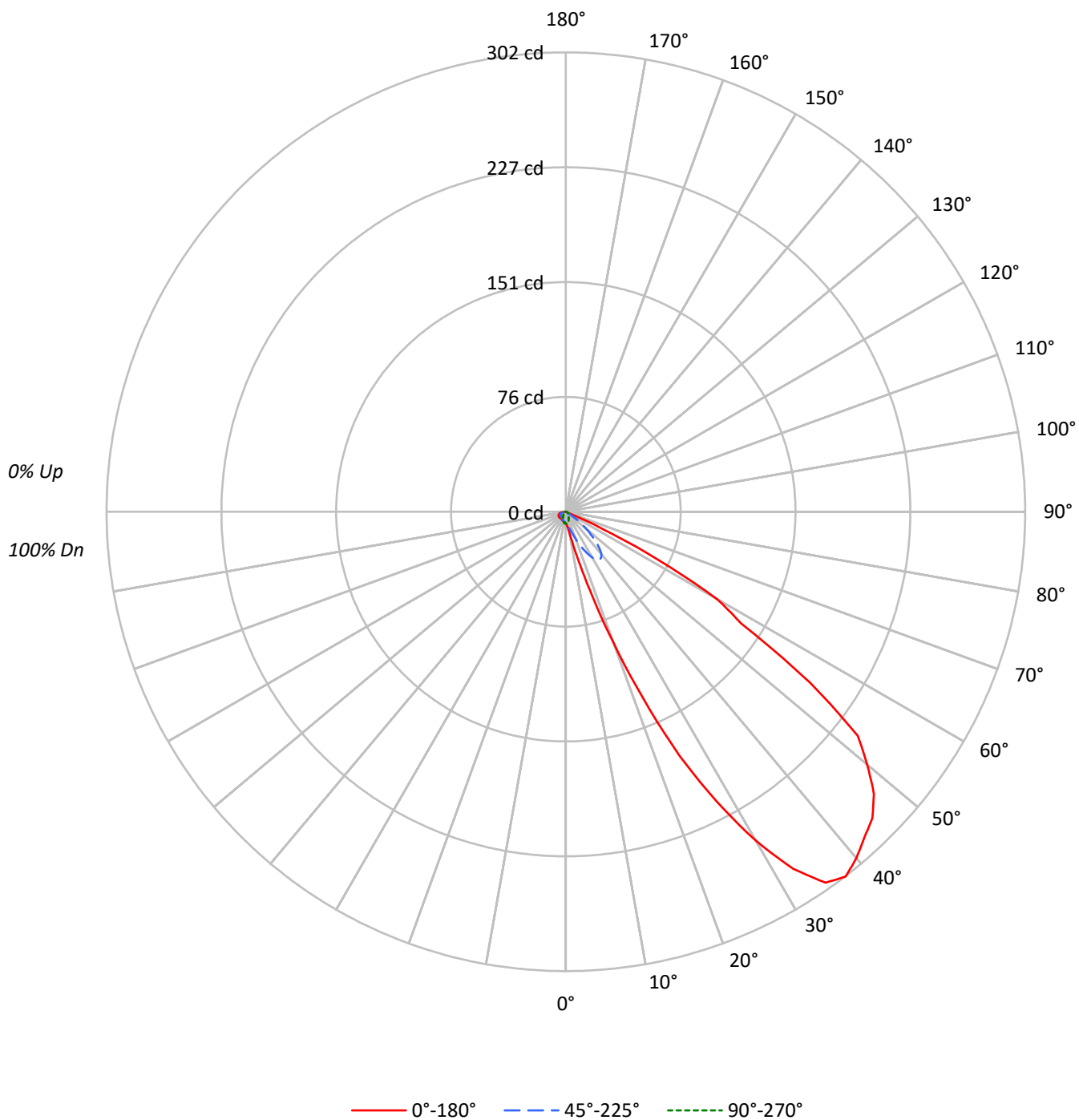
Lumens per Lamp: N/A
Luminaire Lumens: 135.0 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				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	99	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	80	72	66	77	70	65		74	69	64		71
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	69	55	46	40	67	54	46	39	52	45	39		51	44	39		49
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1710	1710	1710	1710	1710
5°	2047	1893	1695	1563	1563
10°	3251	2204	1581	1492	1492
15°	8104	2974	1453	1385	1453
20°	21352	4434	1260	1330	1400
25°	42849	6557	1089	1234	1379
30°	63174	8786	886	1215	1418
35°	79692	10306	750	1205	1472
40°	85045	10420	658	1260	1574
45°	88350	8683	620	1364	1706
50°	88219	6038	614	1433	1910
55°	74970	2676	650	1606	2103
60°	50391	526	658	1798	2412
65°	13387	208	623	1972	2698
70°	385	256	641	2116	3077
75°	254	254	678	2288	3474
80°	253	379	758	2399	3915
85°	252	503	1006	2516	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 90622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.6
10°-20°	3.8	2.8
20°-30°	15.7	11.6
30°-40°	33.1	24.5
40°-50°	40.8	30.2
50°-60°	30.6	22.7
60°-70°	7.9	5.8
70°-80°	1.6	1.2
80°-90°	0.7	0.5
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°	20.3	15.0
0°-40°	53.4	39.6
0°-60°	124.8	92.5
0°-90°	135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	135.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	9	9	8	7	7	1
15°	36	13	6	6	6	13
25°	177	27	4	5	6	83
35°	298	38	3	4	6	181
45°	285	28	2	4	6	218
55°	196	7	2	4	6	169
65°	26	0	1	4	5	37
75°	0	0	1	3	4	0
85°	0	0	0	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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.1	8.0	7.8	7.6
5°	9.3	9.1	9.1	9.1	9.0	8.9	8.9	8.6	8.1	7.7	7.4
7.5°	10.9	10.9	10.8	10.6	10.5	10.3	10.0	9.1	8.1	7.5	7.0
10°	14.6	14.4	14.1	13.8	13.3	12.5	11.9	9.9	8.0	7.1	6.8
12.5°	21.9	22.3	21.2	20.1	18.5	17.1	15.3	11.3	8.0	6.8	6.5
15°	35.7	36.5	34.4	32.1	28.3	24.8	21.4	13.1	7.8	6.4	6.0
17.5°	58.3	59.3	55.8	50.5	44.6	37.5	31.3	15.5	7.6	5.9	5.7
20°	91.5	91.4	84.4	77.9	66.5	56.0	44.5	19.0	7.3	5.4	5.4
22.5°	132.2	132.6	124.2	112.3	96.2	79.3	61.0	23.0	6.8	4.9	5.0
25°	177.1	173.3	163.3	148.9	128.3	105.0	80.9	27.1	6.4	4.5	4.7
27.5°	214.6	210.9	199.4	182.4	160.2	132.5	101.1	31.2	5.8	4.0	4.4
30°	249.5	244.8	231.0	211.7	185.3	155.4	120.0	34.7	5.1	3.5	4.0
32.5°	278.3	274.1	258.3	235.9	207.1	175.0	136.1	37.4	4.5	3.1	3.8
35°	297.7	293.4	278.9	254.2	222.9	189.3	149.1	38.5	3.9	2.8	3.7
37.5°	302.2	299.8	289.5	266.4	233.7	198.4	157.5	38.1	3.2	2.6	3.5
40°	297.1	297.6	292.7	273.5	239.5	202.3	161.0	36.4	2.7	2.3	3.3
42.5°	290.5	291.9	291.6	276.4	241.9	202.6	159.5	32.8	2.1	2.1	3.2
45°	284.9	286.3	288.3	275.2	240.3	199.7	154.9	28.0	1.6	2.0	3.2
47.5°	274.7	276.3	279.2	265.4	231.8	192.2	146.7	22.8	1.1	1.9	3.1
50°	258.6	259.3	258.6	243.1	215.5	180.1	133.3	17.7	0.8	1.8	3.1
52.5°	241.9	240.4	233.9	214.3	189.6	161.1	116.5	12.6	0.6	1.7	3.0
55°	196.1	193.6	188.8	176.8	162.7	137.6	94.1	7.0	0.6	1.7	2.9
57.5°	136.6	138.0	139.7	137.2	130.7	108.4	71.5	3.1	0.6	1.6	2.9
60°	114.9	113.8	113.9	112.3	101.6	79.1	49.2	1.2	0.6	1.5	2.8
62.5°	68.6	69.4	70.8	71.2	60.6	44.2	25.8	0.6	0.6	1.3	2.7
65°	25.8	27.0	23.6	20.5	16.3	11.9	6.0	0.4	0.7	1.2	2.5
67.5°	0.8	0.9	1.1	1.0	1.0	0.9	0.7	0.4	0.7	1.1	2.3
70°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.6	1.0	2.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9	1.9
75°	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.8	1.6
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.7	1.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	1.1
82.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.9
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3
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°	7.8	7.8	7.8
2.5°	7.4	7.4	7.4
5°	7.1	7.1	7.1
7.5°	6.9	6.9	6.9
10°	6.7	6.7	6.7
12.5°	6.5	6.5	6.6
15°	6.1	6.4	6.4
17.5°	5.9	6.1	6.2
20°	5.7	5.9	6.0
22.5°	5.4	5.7	5.9
25°	5.1	5.6	5.7
27.5°	4.9	5.5	5.7
30°	4.8	5.4	5.6
32.5°	4.6	5.2	5.5
35°	4.5	5.2	5.5
37.5°	4.5	5.1	5.5
40°	4.4	5.1	5.5
42.5°	4.4	5.1	5.5
45°	4.4	5.1	5.5
47.5°	4.2	5.1	5.6
50°	4.2	5.2	5.6
52.5°	4.2	5.2	5.6
55°	4.2	5.2	5.5
57.5°	4.1	5.1	5.5
60°	4.1	5.1	5.5
62.5°	3.9	5.0	5.4
65°	3.8	4.9	5.2
67.5°	3.6	4.8	5.0
70°	3.3	4.5	4.8
72.5°	3.0	4.2	4.6
75°	2.7	3.9	4.1
77.5°	2.3	3.5	3.7
80°	1.9	2.9	3.1
82.5°	1.5	2.2	2.3
85°	1.0	1.5	1.6
87.5°	0.4	0.7	0.8
90°	0.0	0.0	0.0

(END OF REPORT)