

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: P1339326

Luminaire Tested: P3A05R459024DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339326
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: P3A05R459024DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

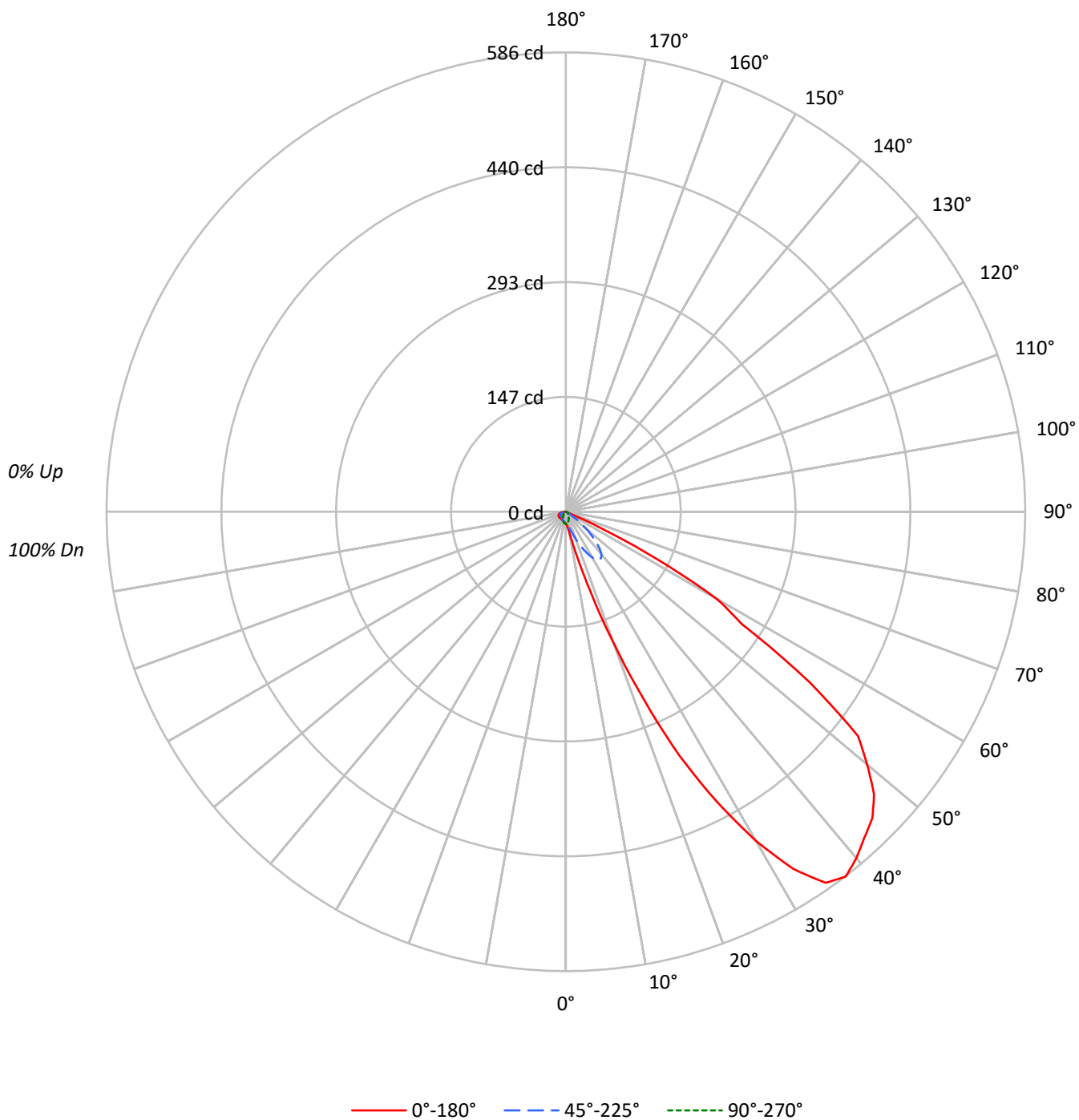
Lumens per Lamp: N/A
Luminaire Lumens: 262.0 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	39	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°	3333	3333	3333	3333	3333
5°	3962	3676	3280	3060	3060
10°	6324	4297	3095	2895	2895
15°	15732	5744	2792	2701	2792
20°	41420	8587	2427	2567	2730
25°	83182	12727	2105	2419	2661
30°	122626	17041	1696	2355	2735
35°	154673	19997	1446	2329	2838
40°	165023	20209	1288	2405	3034
45°	171460	16839	1209	2605	3287
50°	171184	11735	1194	2797	3684
55°	145505	5199	1223	3135	4052
60°	97799	1053	1228	3508	4649
65°	25943	467	1245	3840	5292
70°	705	577	1218	4167	5963
75°	508	508	1271	4406	6778
80°	505	758	1389	4672	7703
85°	503	1006	2264	4780	7548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 175888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.6
10°-20°	7.4	2.8
20°-30°	30.5	11.6
30°-40°	64.2	24.5
40°-50°	79.3	30.3
50°-60°	59.4	22.7
60°-70°	15.3	5.8
70°-80°	3.2	1.2
80°-90°	1.3	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°	39.4	15.0
0°-40°	103.6	39.5
0°-60°	242.3	92.5
0°-90°	262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	262.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	18	17	15	14	14	2
15°	69	25	12	12	12	25
25°	344	53	9	10	11	160
35°	578	75	5	9	11	352
45°	553	54	4	8	11	423
55°	381	14	3	8	11	329
65°	50	1	2	7	10	72
75°	1	1	2	5	8	1
85°	0	0	1	2	3	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°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.8	15.6	15.2	14.7
5°	18.0	17.8	17.8	17.8	17.5	17.3	17.3	16.7	15.8	14.9	14.3
7.5°	21.2	21.2	21.0	20.6	20.3	19.9	19.5	17.8	15.8	14.5	13.6
10°	28.4	27.9	27.3	26.8	25.8	24.2	23.2	19.3	15.6	13.9	13.2
12.5°	42.4	43.3	41.1	39.0	35.9	33.1	29.7	21.9	15.6	13.2	12.6
15°	69.3	70.8	66.7	62.3	55.0	48.1	41.6	25.3	15.2	12.3	11.7
17.5°	113.2	115.2	108.2	98.1	86.6	72.7	60.8	30.1	14.7	11.5	11.0
20°	177.5	177.3	163.9	151.1	129.0	108.7	86.4	36.8	14.1	10.4	10.4
22.5°	256.5	257.4	240.9	218.0	186.6	153.9	118.4	44.6	13.2	9.5	9.7
25°	343.8	336.4	316.9	289.0	249.0	203.7	157.0	52.6	12.3	8.7	9.1
27.5°	416.5	409.4	387.1	354.0	310.9	257.2	196.1	60.6	11.3	7.8	8.4
30°	484.3	475.2	448.3	410.9	359.6	301.6	232.9	67.3	10.0	6.7	7.8
32.5°	540.1	531.9	501.4	457.9	402.0	339.7	264.1	72.5	8.7	6.1	7.4
35°	577.8	569.4	541.2	493.4	432.5	367.4	289.4	74.7	7.6	5.4	7.1
37.5°	586.5	581.9	561.8	517.0	453.5	385.1	305.7	74.0	6.3	5.0	6.7
40°	576.5	577.6	568.1	530.8	464.8	392.7	312.4	70.6	5.2	4.5	6.5
42.5°	563.7	566.5	565.9	536.4	469.6	393.1	309.6	63.6	4.1	4.1	6.3
45°	552.9	555.7	559.6	534.1	466.3	387.5	300.7	54.3	3.0	3.9	6.3
47.5°	533.2	536.2	541.9	515.0	449.9	373.0	284.7	44.2	2.2	3.7	6.1
50°	501.8	503.3	501.8	471.7	418.2	349.6	258.7	34.4	1.5	3.5	6.1
52.5°	469.6	466.5	454.0	415.9	368.0	312.6	226.0	24.5	1.1	3.2	5.8
55°	380.6	375.8	366.5	343.1	315.9	267.1	182.7	13.6	1.1	3.2	5.6
57.5°	265.2	267.8	271.0	266.3	253.7	210.4	138.8	6.1	1.1	3.0	5.6
60°	223.0	220.8	221.0	218.0	197.2	153.5	95.5	2.4	1.1	2.8	5.4
62.5°	133.1	134.7	137.5	138.1	117.6	85.7	50.0	1.1	1.1	2.6	5.2
65°	50.0	52.4	45.9	39.8	31.6	23.2	11.7	0.9	1.3	2.4	4.8
67.5°	1.5	1.7	2.2	1.9	1.9	1.7	1.3	0.9	1.3	2.2	4.5
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	1.9	4.1
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.7	3.7
75°	0.6	0.9	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.5	3.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.3	2.6
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9	1.1	2.2
82.5°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.9	0.9	1.7
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.9	1.1
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.6	0.6	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°	15.2	15.2	15.2
2.5°	14.3	14.3	14.3
5°	13.9	13.9	13.9
7.5°	13.4	13.4	13.4
10°	13.0	13.0	13.0
12.5°	12.6	12.6	12.8
15°	11.9	12.3	12.3
17.5°	11.5	11.9	12.1
20°	11.0	11.5	11.7
22.5°	10.4	11.0	11.5
25°	10.0	10.8	11.0
27.5°	9.5	10.6	11.0
30°	9.3	10.4	10.8
32.5°	8.9	10.2	10.6
35°	8.7	10.2	10.6
37.5°	8.7	10.0	10.6
40°	8.4	10.0	10.6
42.5°	8.4	10.0	10.6
45°	8.4	10.0	10.6
47.5°	8.2	10.0	10.8
50°	8.2	10.2	10.8
52.5°	8.2	10.2	10.8
55°	8.2	10.2	10.6
57.5°	8.0	10.0	10.6
60°	8.0	10.0	10.6
62.5°	7.6	9.7	10.4
65°	7.4	9.5	10.2
67.5°	6.9	9.3	9.7
70°	6.5	8.7	9.3
72.5°	5.8	8.2	8.9
75°	5.2	7.6	8.0
77.5°	4.5	6.7	7.1
80°	3.7	5.6	6.1
82.5°	2.8	4.3	4.5
85°	1.9	2.8	3.0
87.5°	0.9	1.3	1.5
90°	0.0	0.0	0.0

(END OF REPORT)