

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: P1342904

Luminaire Tested: P3A09R459030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342904
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: P3A09R459030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

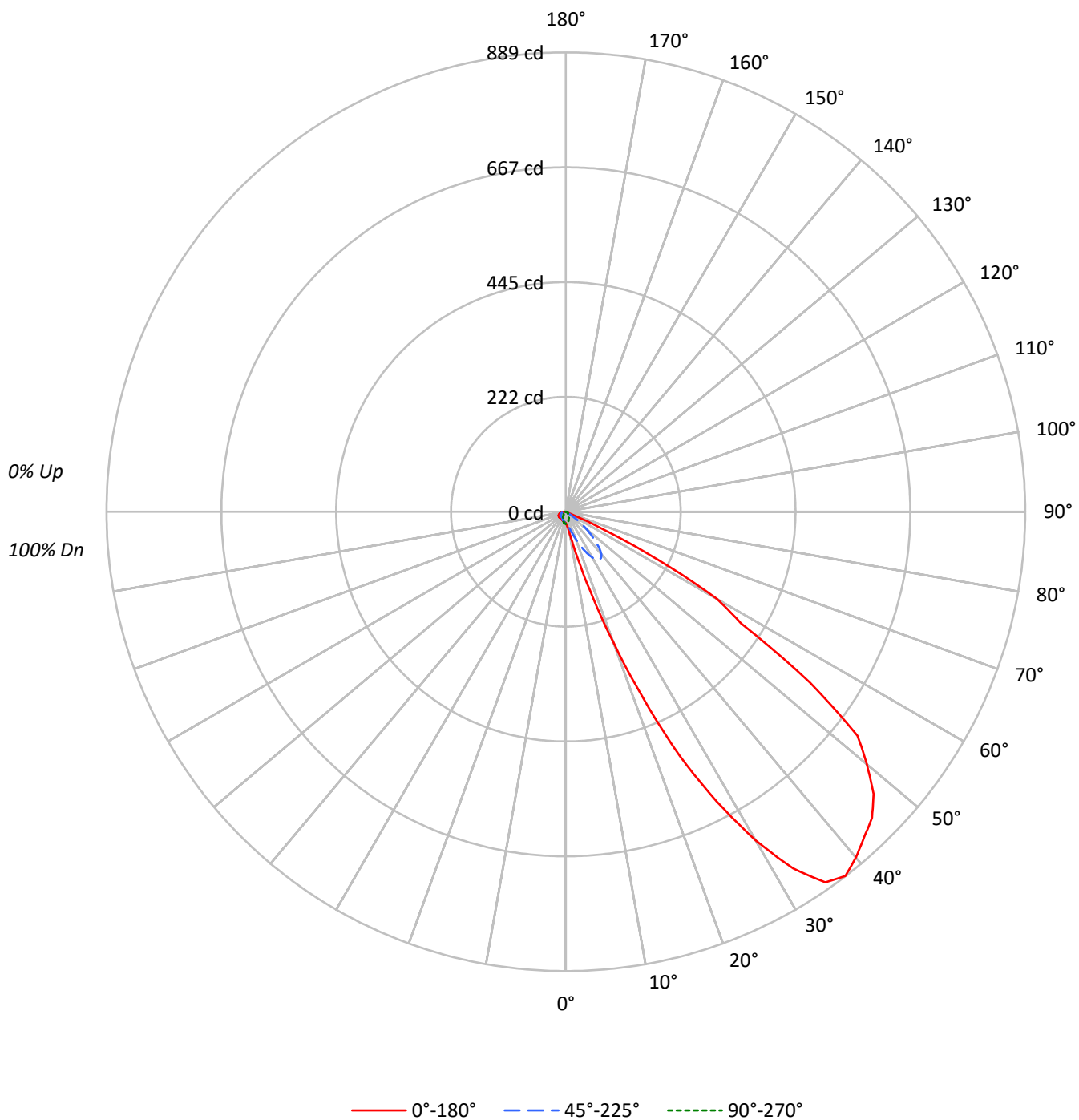
Lumens per Lamp: N/A
Luminaire Lumens: 397.0 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	35	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5043	5043	5043	5043	5043
5°	5987	5569	4975	4622	4622
10°	9575	6502	4676	4386	4386
15°	23837	8717	4245	4086	4245
20°	62772	13021	3664	3897	4130
25°	126031	19283	3170	3653	4041
30°	185801	25827	2583	3570	4153
35°	234365	30303	2195	3507	4310
40°	250040	30600	1975	3664	4609
45°	259810	25522	1830	3969	4993
50°	259403	17808	1774	4264	5595
55°	220475	7914	1873	4779	6155
60°	148190	1579	1886	5307	7061
65°	39330	675	1868	5811	7990
70°	1026	833	1923	6283	9040
75°	847	847	1949	6693	10252
80°	884	1263	2020	7072	11618
85°	755	1761	3271	7548	11573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 266510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.6
10°-20°	11.2	2.8
20°-30°	46.2	11.6
30°-40°	97.3	24.5
40°-50°	120.1	30.2
50°-60°	90.0	22.7
60°-70°	23.2	5.8
70°-80°	4.8	1.2
80°-90°	2.0	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°	59.7	15.0
0°-40°	157.0	39.5
0°-60°	367.1	92.5
0°-90°	397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	27	25	23	21	21	3
15°	105	38	19	18	19	38
25°	521	80	13	15	17	243
35°	876	113	8	13	16	534
45°	838	82	6	13	16	641
55°	577	21	5	12	16	498
65°	76	1	4	11	15	109
75°	1	1	2	8	12	1
85°	0	1	1	3	5	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°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.9	23.6	23.0	22.3
5°	27.2	26.9	26.9	26.9	26.6	26.2	26.2	25.3	23.9	22.6	21.7
7.5°	32.1	32.1	31.8	31.2	30.8	30.2	29.5	26.9	23.9	22.0	20.7
10°	43.0	42.3	41.3	40.7	39.0	36.7	35.1	29.2	23.6	21.0	20.0
12.5°	64.3	65.6	62.3	59.0	54.5	50.2	44.9	33.1	23.6	20.0	19.0
15°	105.0	107.3	101.0	94.5	83.3	72.8	63.0	38.4	23.0	18.7	17.7
17.5°	171.6	174.5	164.0	148.6	131.2	110.2	92.2	45.6	22.3	17.4	16.7
20°	269.0	268.7	248.3	229.0	195.5	164.7	130.9	55.8	21.3	15.7	15.7
22.5°	388.7	390.0	365.1	330.3	282.8	233.2	179.4	67.6	20.0	14.4	14.8
25°	520.9	509.8	480.2	437.9	377.2	308.7	237.8	79.7	18.7	13.1	13.8
27.5°	631.1	620.3	586.5	536.3	471.1	389.7	297.2	91.8	17.1	11.8	12.8
30°	733.8	720.0	679.4	622.6	544.9	456.9	353.0	102.0	15.1	10.2	11.8
32.5°	818.4	806.0	759.7	693.8	609.2	514.7	400.2	109.9	13.1	9.2	11.2
35°	875.5	862.7	820.1	747.6	655.4	556.7	438.6	113.2	11.5	8.2	10.8
37.5°	888.6	881.7	851.2	783.3	687.2	583.6	463.2	112.2	9.5	7.5	10.2
40°	873.5	875.2	860.8	804.3	704.3	595.0	473.3	106.9	7.9	6.9	9.8
42.5°	854.2	858.5	857.5	812.9	711.5	595.7	469.1	96.4	6.2	6.2	9.5
45°	837.8	842.1	848.0	809.3	706.6	587.2	455.6	82.3	4.6	5.9	9.5
47.5°	807.9	812.5	821.1	780.4	681.6	565.2	431.4	66.9	3.3	5.6	9.2
50°	760.4	762.7	760.4	714.8	633.8	529.8	392.0	52.2	2.3	5.2	9.2
52.5°	711.5	706.9	687.9	630.1	557.7	473.7	342.5	37.1	1.6	4.9	8.9
55°	576.7	569.5	555.4	519.9	478.6	404.8	276.9	20.7	1.6	4.9	8.5
57.5°	401.8	405.8	410.7	403.5	384.5	318.8	210.3	9.2	1.6	4.6	8.5
60°	337.9	334.6	334.9	330.3	298.8	232.6	144.7	3.6	1.6	4.3	8.2
62.5°	201.7	204.0	208.3	209.3	178.1	129.9	75.8	1.6	1.6	3.9	7.9
65°	75.8	79.4	69.5	60.4	47.9	35.1	17.7	1.3	2.0	3.6	7.2
67.5°	2.3	2.6	3.3	3.0	3.0	2.6	2.0	1.3	2.0	3.3	6.9
70°	1.6	1.6	1.6	1.6	1.6	1.3	1.3	1.3	1.6	3.0	6.2
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.6	5.6
75°	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.6	2.3	4.6
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	2.0	3.9
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.6	3.3
82.5°	0.7	0.7	0.7	0.3	0.7	0.7	0.7	0.7	1.3	1.3	2.6
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.3	1.6
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7	1.0	1.0	1.0
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°	23.0	23.0	23.0
2.5°	21.7	21.7	21.7
5°	21.0	21.0	21.0
7.5°	20.3	20.3	20.3
10°	19.7	19.7	19.7
12.5°	19.0	19.0	19.4
15°	18.0	18.7	18.7
17.5°	17.4	18.0	18.4
20°	16.7	17.4	17.7
22.5°	15.7	16.7	17.4
25°	15.1	16.4	16.7
27.5°	14.4	16.1	16.7
30°	14.1	15.7	16.4
32.5°	13.4	15.4	16.1
35°	13.1	15.4	16.1
37.5°	13.1	15.1	16.1
40°	12.8	15.1	16.1
42.5°	12.8	15.1	16.1
45°	12.8	15.1	16.1
47.5°	12.5	15.1	16.4
50°	12.5	15.4	16.4
52.5°	12.5	15.4	16.4
55°	12.5	15.4	16.1
57.5°	12.1	15.1	16.1
60°	12.1	15.1	16.1
62.5°	11.5	14.8	15.7
65°	11.2	14.4	15.4
67.5°	10.5	14.1	14.8
70°	9.8	13.1	14.1
72.5°	8.9	12.5	13.4
75°	7.9	11.5	12.1
77.5°	6.9	10.2	10.8
80°	5.6	8.5	9.2
82.5°	4.3	6.6	6.9
85°	3.0	4.3	4.6
87.5°	1.3	2.0	2.3
90°	0.0	0.0	0.0

(END OF REPORT)