

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: P1337822

Luminaire Tested: P3A05R309030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337822
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: P3A05R309030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

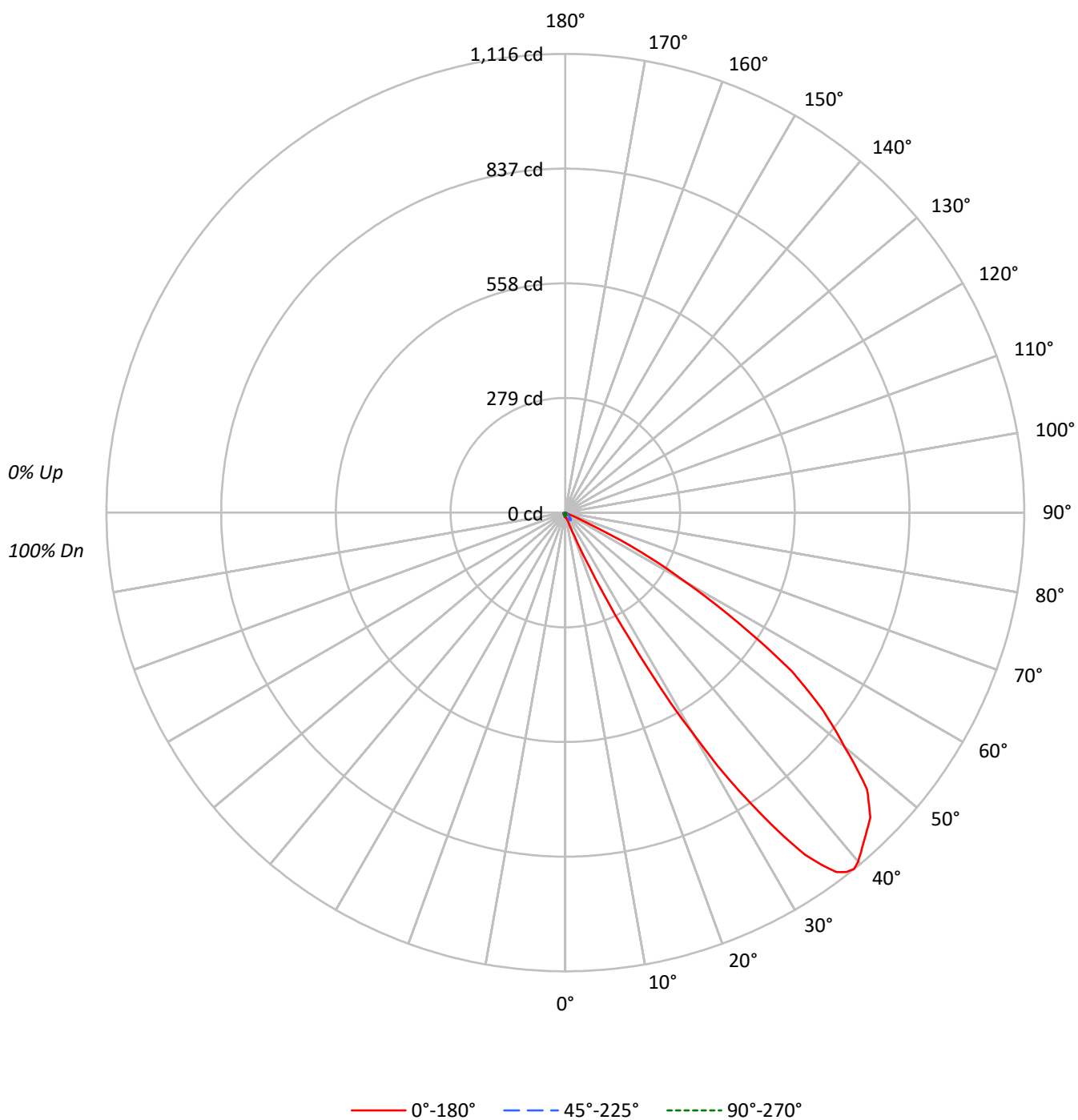
Lumens per Lamp: N/A
Luminaire Lumens: 290.0 lumens
Efficiency: N/A
Efficacy: 26.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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°	2456	2456	2456	2456	2456
5°	2641	2575	2421	2201	2157
10°	2872	2561	2115	1893	1848
15°	4222	2543	1771	1612	1657
20°	10594	2800	1377	1377	1540
25°	49237	3484	1065	1234	1428
30°	156733	4836	810	1165	1418
35°	271975	5889	642	1124	1446
40°	317194	5868	487	1116	1460
45°	325305	4155	527	1209	1582
50°	302523	2320	409	1262	1842
55°	257100	1223	459	1415	2064
60°	148497	307	526	1491	2237
65°	30302	0	623	1764	2542
70°	449	128	769	2052	2949
75°	424	169	847	2033	3558
80°	253	253	1263	2526	4041
85°	0	503	2516	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 325305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.3
10°-20°	2.9	1.0
20°-30°	16.7	5.8
30°-40°	78.1	26.9
40°-50°	110.5	38.1
50°-60°	68.0	23.4
60°-70°	10.3	3.6
70°-80°	1.6	0.6
80°-90°	0.8	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°	20.7	7.1
0°-40°	98.8	34.1
0°-60°	277.2	95.6
0°-90°	290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	12	11	10	10	1
15°	19	11	8	7	7	7
25°	204	14	4	5	6	125
35°	1016	22	2	4	5	610
45°	1049	13	2	4	5	795
55°	672	3	1	4	5	572
65°	58	0	1	3	5	106
75°	0	0	1	2	4	1
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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	11.5	11.5	11.7	11.7	11.5	11.7	11.7	11.7	11.2	11.0	10.5
5°	12.0	12.0	12.0	12.2	12.0	12.0	11.7	11.5	11.0	10.3	10.0
7.5°	12.5	12.5	12.2	12.5	12.2	12.2	11.7	11.2	10.5	9.8	9.3
10°	12.9	12.9	12.7	12.7	12.5	12.5	11.5	10.7	9.5	8.8	8.5
12.5°	14.4	14.4	14.2	13.9	13.4	13.2	11.2	10.0	8.5	7.8	7.6
15°	18.6	18.3	17.8	17.1	15.9	15.6	11.2	9.3	7.8	7.1	7.1
17.5°	25.4	25.2	24.4	22.5	20.3	19.5	11.2	8.3	6.8	6.4	6.4
20°	45.4	43.5	39.8	34.9	29.8	27.1	12.0	7.3	5.9	5.6	5.9
21°	59.4	57.4	52.8	44.7	35.7	32.7	12.5	7.1	5.6	5.4	5.9
22°	80.9	78.7	69.1	58.1	45.2	40.1	12.7	6.6	5.1	5.1	5.6
23°	112.9	109.2	93.1	75.5	56.4	49.1	13.2	6.4	4.9	5.1	5.4
24°	147.8	144.6	126.3	99.9	72.1	61.6	13.7	6.1	4.6	4.6	5.1
25°	203.5	199.8	167.3	126.1	91.4	74.0	14.4	5.6	4.4	4.4	5.1
26°	275.6	258.7	215.5	162.4	112.6	92.8	15.1	5.4	4.2	4.4	4.9
27°	344.0	330.0	281.4	208.4	139.2	114.1	16.1	5.1	3.9	4.2	4.9
28°	433.8	414.3	353.0	263.6	175.4	138.0	17.1	4.9	3.7	4.2	4.6
29°	534.5	507.1	433.1	325.6	216.2	164.9	18.1	4.6	3.4	3.9	4.6
30°	619.0	593.4	519.3	399.2	263.1	200.3	19.1	4.4	3.2	3.9	4.6
31°	718.2	679.4	589.7	461.5	303.4	235.7	20.0	3.9	2.9	3.7	4.4
32°	798.6	771.4	676.2	531.8	356.4	274.8	20.8	3.7	2.9	3.7	4.4
33°	876.2	839.8	747.8	599.2	404.3	314.9	21.5	3.4	2.7	3.4	4.4
34°	950.5	917.0	815.4	653.7	449.5	353.0	22.0	2.9	2.7	3.4	4.2
35°	1016.0	977.1	875.0	707.0	495.9	387.7	22.0	2.7	2.4	3.2	4.2
36°	1058.5	1030.6	926.8	759.5	537.9	420.7	22.0	2.4	2.2	3.2	3.9
37°	1094.9	1062.4	968.3	799.8	568.9	447.0	22.0	2.2	2.2	3.2	3.9
38°	1109.8	1081.9	996.9	835.5	598.0	473.9	21.7	2.0	2.0	2.9	3.9
39°	1115.6	1090.7	1018.4	861.1	619.5	492.0	21.3	1.7	2.0	2.9	3.9
40°	1108.1	1089.3	1029.4	877.7	636.6	505.2	20.5	1.5	1.7	2.9	3.9
42.5°	1076.8	1064.3	1027.0	894.3	651.3	515.0	17.8	1.0	1.7	2.7	3.9
45°	1049.0	1035.3	1002.3	877.0	632.2	495.7	13.4	0.5	1.7	2.7	3.9
47.5°	995.0	986.4	960.5	832.8	590.4	452.2	9.5	0.2	1.5	2.4	3.7
50°	886.8	878.7	844.5	723.1	507.9	382.3	6.8	0.2	1.2	2.4	3.7
52.5°	789.8	781.2	732.1	601.2	390.1	280.2	4.4	0.2	1.2	2.4	3.7
55°	672.5	657.6	593.1	456.3	276.5	187.9	3.2	0.2	1.2	2.2	3.7
57.5°	497.9	476.1	418.5	311.2	159.3	101.9	1.7	0.2	1.2	2.2	3.7
60°	338.6	325.6	261.9	164.2	67.9	43.0	0.7	0.2	1.2	2.2	3.4
62.5°	205.2	188.8	131.7	69.9	29.3	19.5	0.0	0.5	1.2	2.2	3.4
65°	58.4	51.8	34.4	15.9	8.3	6.4	0.0	0.5	1.2	2.2	3.4
67.5°	2.0	2.0	2.0	1.7	1.2	1.2	0.2	0.5	1.2	2.2	3.2
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.5	1.2	2.0	3.2
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	1.0	1.7	2.9
75°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.0	1.7	2.4
77.5°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.0	1.5	2.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.5	2.0



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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	1.0	1.0	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.0	0.7	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	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):

	157.5°	180°
0°	11.2	11.2
2.5°	10.5	10.5
5°	9.8	9.8
7.5°	9.0	9.0
10°	8.3	8.3
12.5°	7.8	7.8
15°	7.1	7.3
17.5°	6.6	6.8
20°	6.4	6.6
21°	6.4	6.6
22°	6.1	6.4
23°	6.1	6.4
24°	5.9	6.1
25°	5.6	5.9
26°	5.6	5.9
27°	5.6	5.9
28°	5.4	5.9
29°	5.4	5.6
30°	5.4	5.6
31°	5.1	5.6
32°	5.1	5.6
33°	5.1	5.4
34°	4.9	5.4
35°	4.9	5.4
36°	4.9	5.4
37°	4.9	5.1
38°	4.9	5.4
39°	4.9	5.1
40°	4.9	5.1
42.5°	4.9	5.1
45°	4.9	5.1
47.5°	4.9	5.4
50°	4.9	5.4
52.5°	4.9	5.4
55°	4.9	5.4
57.5°	4.9	5.1
60°	4.9	5.1
62.5°	4.6	5.1
65°	4.6	4.9
67.5°	4.6	4.9
70°	4.4	4.6
72.5°	4.2	4.4
75°	3.7	4.2
77.5°	3.4	3.7
80°	2.9	3.2



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.4	2.4
85°	1.7	2.0
87.5°	1.0	1.0
90°	0.0	0.0

(END OF REPORT)