

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: P1337838

Luminaire Tested: P3A05R309030DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337838
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: P3A05R309030DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

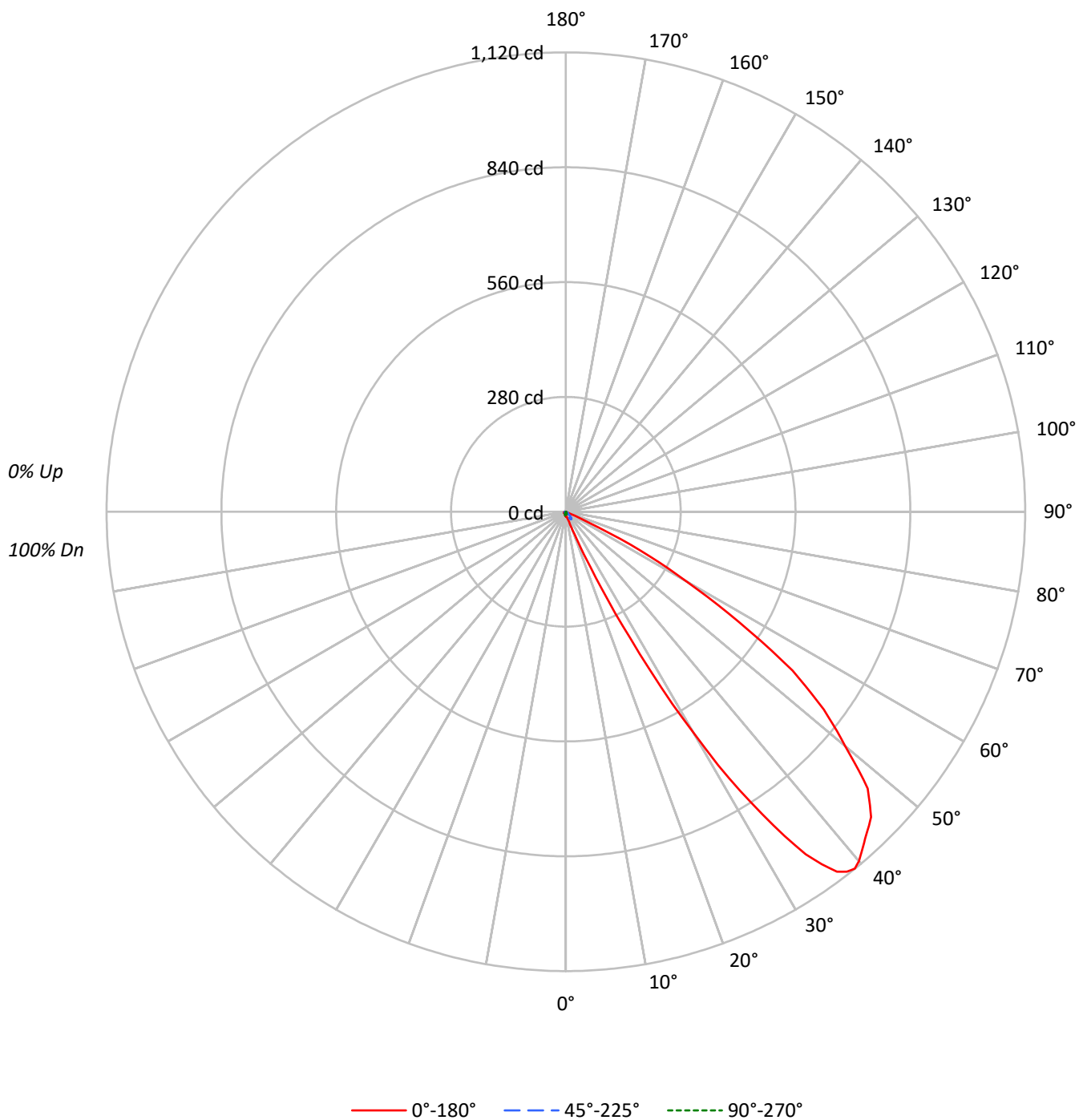
Lumens per Lamp: N/A
Luminaire Lumens: 291.0 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2478	2478	2478	2478	2478
5°	2641	2597	2421	2223	2157
10°	2895	2561	2138	1915	1848
15°	4222	2565	1771	1612	1680
20°	10641	2800	1377	1377	1540
25°	49406	3508	1065	1234	1428
30°	157265	4836	810	1190	1418
35°	272912	5916	669	1124	1446
40°	318282	5897	487	1116	1460
45°	326421	4186	527	1209	1582
50°	303547	2354	409	1262	1842
55°	257979	1223	459	1415	2064
60°	148979	307	526	1491	2237
65°	30405	0	623	1764	2542
70°	449	128	769	2052	3013
75°	424	169	847	2118	3558
80°	253	253	1263	2526	4041
85°	0	503	2516	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 326421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	2.9	1.0
20°-30°	16.8	5.8
30°-40°	78.4	26.9
40°-50°	110.8	38.1
50°-60°	68.2	23.4
60°-70°	10.4	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°	99.1	34.1
0°-60°	278.1	95.6
0°-90°	291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	291.0	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	126
35°	1020	22	2	4	5	612
45°	1053	14	2	4	5	798
55°	675	3	1	4	5	574
65°	59	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°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	11.5	11.5	11.8	11.8	11.5	11.8	11.8	11.8	11.3	11.0	10.5
5°	12.0	12.0	12.0	12.3	12.0	12.0	11.8	11.5	11.0	10.3	10.1
7.5°	12.5	12.5	12.3	12.5	12.3	12.3	11.8	11.3	10.5	9.8	9.3
10°	13.0	13.0	12.7	12.7	12.5	12.5	11.5	10.8	9.6	8.8	8.6
12.5°	14.5	14.5	14.2	14.0	13.5	13.2	11.3	10.1	8.6	7.8	7.6
15°	18.6	18.4	17.9	17.2	15.9	15.7	11.3	9.3	7.8	7.1	7.1
17.5°	25.5	25.2	24.5	22.6	20.3	19.6	11.3	8.3	6.9	6.4	6.4
20°	45.6	43.6	40.0	35.1	29.9	27.2	12.0	7.4	5.9	5.6	5.9
21°	59.6	57.6	52.9	44.9	35.8	32.8	12.5	7.1	5.6	5.4	5.9
22°	81.1	78.9	69.4	58.3	45.3	40.2	12.7	6.6	5.1	5.1	5.6
23°	113.2	109.6	93.4	75.7	56.6	49.3	13.2	6.4	4.9	5.1	5.4
24°	148.3	145.1	126.7	100.3	72.3	61.8	13.7	6.1	4.7	4.7	5.1
25°	204.2	200.5	167.9	126.5	91.7	74.3	14.5	5.6	4.4	4.4	5.1
26°	276.5	259.6	216.2	163.0	113.0	93.1	15.2	5.4	4.2	4.4	4.9
27°	345.1	331.2	282.4	209.1	139.7	114.5	16.2	5.1	3.9	4.2	4.9
28°	435.3	415.7	354.2	264.5	176.0	138.5	17.2	4.9	3.7	4.2	4.7
29°	536.3	508.9	434.6	326.8	216.9	165.5	18.1	4.7	3.4	3.9	4.7
30°	621.1	595.4	521.1	400.5	264.0	201.0	19.1	4.4	3.2	3.9	4.7
31°	720.7	681.7	591.7	463.0	304.4	236.5	20.1	3.9	2.9	3.7	4.4
32°	801.3	774.1	678.5	533.6	357.6	275.8	20.8	3.7	2.9	3.7	4.4
33°	879.3	842.7	750.3	601.3	405.7	316.0	21.6	3.4	2.7	3.4	4.4
34°	953.8	920.2	818.2	656.0	451.0	354.2	22.1	2.9	2.7	3.4	4.2
35°	1019.5	980.5	878.0	709.4	497.6	389.0	22.1	2.7	2.5	3.2	4.2
36°	1062.1	1034.2	930.0	762.1	539.8	422.1	22.1	2.5	2.2	3.2	3.9
37°	1098.7	1066.1	971.7	802.5	570.9	448.6	22.1	2.2	2.2	3.2	3.9
38°	1113.6	1085.7	1000.4	838.3	600.1	475.5	21.8	2.0	2.0	2.9	3.9
39°	1119.5	1094.5	1021.9	864.1	621.6	493.7	21.3	1.7	2.0	2.9	3.9
40°	1111.9	1093.0	1033.0	880.7	638.8	506.9	20.6	1.5	1.7	2.9	3.9
42.5°	1080.5	1068.0	1030.5	897.4	653.5	516.7	17.9	1.0	1.7	2.7	3.9
45°	1052.6	1038.8	1005.8	880.0	634.4	497.4	13.5	0.5	1.7	2.7	3.9
47.5°	998.4	989.8	963.8	835.6	592.5	453.7	9.6	0.2	1.5	2.5	3.7
50°	889.8	881.7	847.4	725.6	509.6	383.6	6.9	0.2	1.2	2.5	3.7
52.5°	792.5	783.9	734.6	603.3	391.5	281.2	4.4	0.2	1.2	2.5	3.7
55°	674.8	659.9	595.2	457.9	277.5	188.5	3.2	0.2	1.2	2.2	3.7
57.5°	499.6	477.8	419.9	312.3	159.8	102.2	1.7	0.2	1.2	2.2	3.7
60°	339.7	326.8	262.8	164.7	68.1	43.1	0.7	0.2	1.2	2.2	3.4
62.5°	205.9	189.5	132.1	70.1	29.4	19.6	0.0	0.5	1.2	2.2	3.4
65°	58.6	52.0	34.6	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	2.5
77.5°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.0	1.5	2.5
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°	11.3	11.3
2.5°	10.5	10.5
5°	9.8	9.8
7.5°	9.1	9.1
10°	8.3	8.3
12.5°	7.8	7.8
15°	7.1	7.4
17.5°	6.6	6.9
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°	4.7	5.1
65°	4.7	4.9
67.5°	4.7	4.9
70°	4.4	4.7
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°	2.5	2.5
85°	1.7	2.0
87.5°	1.0	1.0
90°	0.0	0.0

(END OF REPORT)