

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: P1337806

Luminaire Tested: P3A05R309027DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337806
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: P3A05R309027DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

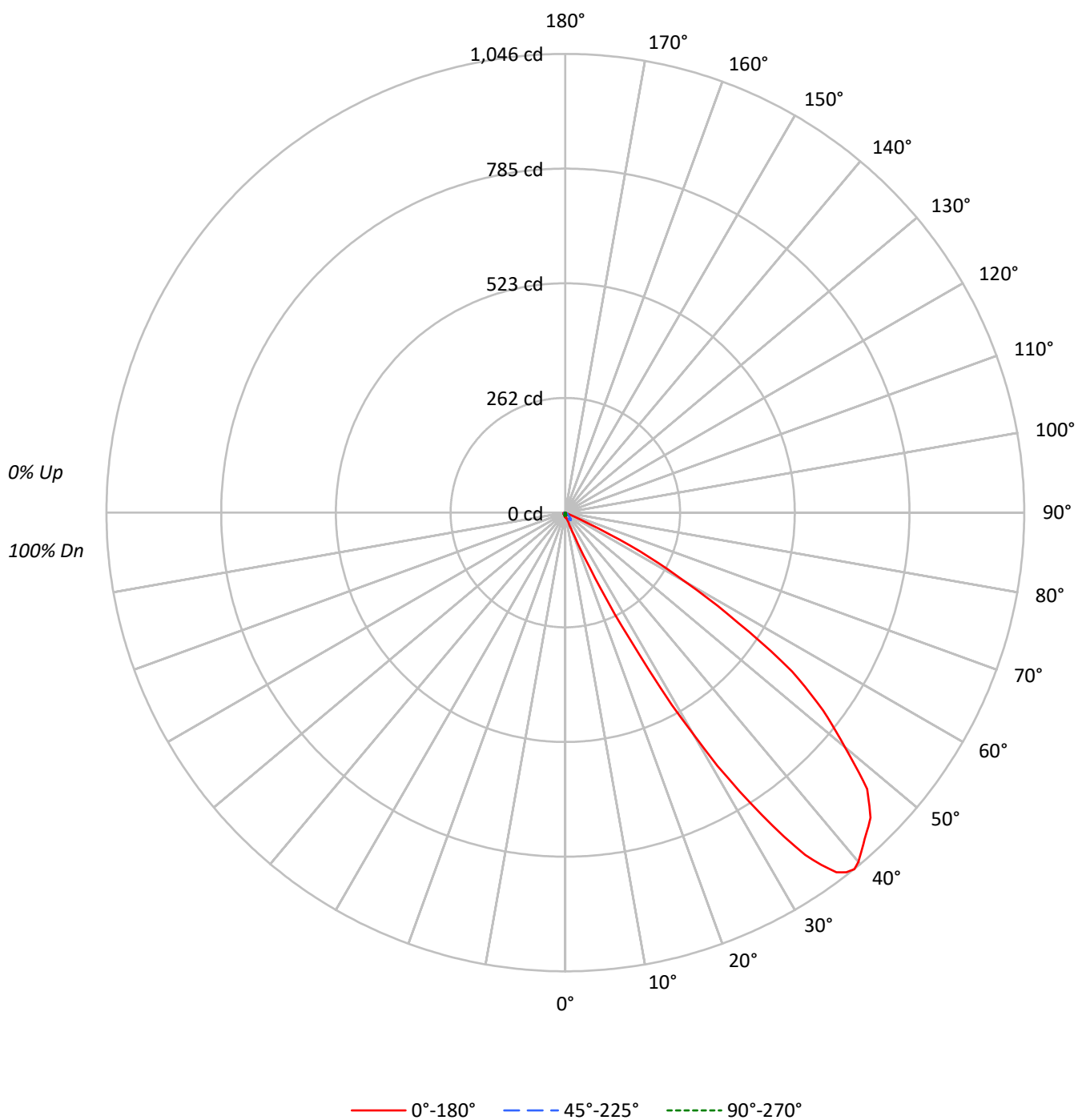
Lumens per Lamp: N/A
Luminaire Lumens: 272.0 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	2302	2302	2302	2302	2302
5°	2465	2421	2267	2069	2025
10°	2694	2405	1982	1781	1737
15°	3950	2384	1657	1498	1566
20°	9941	2614	1283	1283	1447
25°	46188	3266	992	1161	1331
30°	147010	4532	760	1114	1342
35°	255084	5514	616	1044	1338
40°	297500	5496	458	1059	1374
45°	305086	3907	496	1147	1489
50°	283726	2183	375	1160	1706
55°	241157	1147	421	1300	1912
60°	139287	307	482	1403	2105
65°	28434	0	571	1660	2387
70°	449	128	705	1923	2821
75°	424	169	763	1949	3304
80°	253	253	1137	2273	3788
85°	0	503	2264	2264	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 305086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	2.7	1.0
20°-30°	15.7	5.8
30°-40°	73.3	26.9
40°-50°	103.6	38.1
50°-60°	63.7	23.4
60°-70°	9.7	3.6
70°-80°	1.5	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°	19.4	7.1
0°-40°	92.6	34.1
0°-60°	260.0	95.6
0°-90°	272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	272.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	17	10	7	7	7	6
25°	191	14	4	5	6	117
35°	953	21	2	4	5	572
45°	984	13	2	4	5	746
55°	631	3	1	3	5	537
65°	55	0	1	3	5	99
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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	10.8	10.8	11.0	11.0	10.8	11.0	11.0	11.0	10.5	10.3	9.9
5°	11.2	11.2	11.2	11.5	11.2	11.2	11.0	10.8	10.3	9.6	9.4
7.5°	11.7	11.7	11.5	11.7	11.5	11.5	11.0	10.5	9.9	9.2	8.7
10°	12.1	12.1	11.9	11.9	11.7	11.7	10.8	10.1	8.9	8.2	8.0
12.5°	13.5	13.5	13.3	13.1	12.6	12.4	10.5	9.4	8.0	7.3	7.1
15°	17.4	17.2	16.7	16.0	14.9	14.7	10.5	8.7	7.3	6.6	6.6
17.5°	23.8	23.6	22.9	21.1	19.0	18.3	10.5	7.8	6.4	6.0	6.0
20°	42.6	40.8	37.3	32.8	28.0	25.4	11.2	6.9	5.5	5.3	5.5
21°	55.7	53.8	49.5	41.9	33.5	30.7	11.7	6.6	5.3	5.0	5.5
22°	75.8	73.8	64.8	54.5	42.4	37.6	11.9	6.2	4.8	4.8	5.3
23°	105.9	102.4	87.3	70.8	52.9	46.1	12.4	6.0	4.6	4.8	5.0
24°	138.6	135.6	118.5	93.7	67.6	57.7	12.8	5.7	4.4	4.4	4.8
25°	190.9	187.4	156.9	118.2	85.7	69.4	13.5	5.3	4.1	4.1	4.8
26°	258.4	242.6	202.1	152.4	105.6	87.1	14.2	5.0	3.9	4.1	4.6
27°	322.6	309.5	263.9	195.4	130.6	107.0	15.1	4.8	3.7	3.9	4.6
28°	406.9	388.6	331.1	247.2	164.5	129.5	16.0	4.6	3.4	3.9	4.4
29°	501.3	475.7	406.2	305.4	202.8	154.7	17.0	4.4	3.2	3.7	4.4
30°	580.6	556.5	487.1	374.4	246.8	187.9	17.9	4.1	3.0	3.7	4.4
31°	673.6	637.2	553.1	432.8	284.6	221.1	18.8	3.7	2.7	3.4	4.1
32°	749.0	723.6	634.2	498.8	334.3	257.8	19.5	3.4	2.7	3.4	4.1
33°	821.9	787.7	701.3	562.0	379.2	295.3	20.2	3.2	2.5	3.2	4.1
34°	891.5	860.1	764.8	613.1	421.6	331.1	20.6	2.7	2.5	3.2	3.9
35°	952.9	916.5	820.7	663.1	465.1	363.6	20.6	2.5	2.3	3.0	3.9
36°	992.8	966.7	869.3	712.3	504.5	394.5	20.6	2.3	2.1	3.0	3.7
37°	1026.9	996.4	908.2	750.1	533.6	419.3	20.6	2.1	2.1	3.0	3.7
38°	1040.9	1014.8	935.0	783.6	560.9	444.5	20.4	1.8	1.8	2.7	3.7
39°	1046.4	1023.0	955.2	807.7	581.1	461.5	19.9	1.6	1.8	2.7	3.7
40°	1039.3	1021.7	965.5	823.2	597.1	473.8	19.2	1.4	1.6	2.7	3.7
42.5°	1010.0	998.3	963.2	838.8	610.8	483.0	16.7	0.9	1.6	2.5	3.7
45°	983.8	971.0	940.1	822.5	593.0	464.9	12.6	0.5	1.6	2.5	3.7
47.5°	933.2	925.2	900.9	781.1	553.8	424.1	8.9	0.2	1.4	2.3	3.4
50°	831.7	824.1	792.1	678.2	476.3	358.6	6.4	0.2	1.1	2.3	3.4
52.5°	740.7	732.7	686.7	563.9	365.9	262.8	4.1	0.2	1.1	2.3	3.4
55°	630.8	616.8	556.3	428.0	259.4	176.2	3.0	0.2	1.1	2.1	3.4
57.5°	466.9	446.6	392.5	291.9	149.4	95.5	1.6	0.2	1.1	2.1	3.4
60°	317.6	305.4	245.6	154.0	63.7	40.3	0.7	0.2	1.1	2.1	3.2
62.5°	192.5	177.1	123.5	65.5	27.5	18.3	0.0	0.5	1.1	2.1	3.2
65°	54.8	48.6	32.3	14.9	7.8	6.0	0.0	0.5	1.1	2.1	3.2
67.5°	1.8	1.8	1.8	1.6	1.1	1.1	0.2	0.5	1.1	2.1	3.0
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.5	1.1	1.8	3.0
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.9	1.6	2.7
75°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	0.9	1.6	2.3
77.5°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	0.9	1.4	2.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.4	1.8



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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	0.9	0.9	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7	0.9
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°	10.5	10.5
2.5°	9.9	9.9
5°	9.2	9.2
7.5°	8.5	8.5
10°	7.8	7.8
12.5°	7.3	7.3
15°	6.6	6.9
17.5°	6.2	6.4
20°	6.0	6.2
21°	6.0	6.2
22°	5.7	6.0
23°	5.7	6.0
24°	5.5	5.7
25°	5.3	5.5
26°	5.3	5.5
27°	5.3	5.5
28°	5.0	5.5
29°	5.0	5.3
30°	5.0	5.3
31°	4.8	5.3
32°	4.8	5.3
33°	4.8	5.0
34°	4.6	5.0
35°	4.6	5.0
36°	4.6	5.0
37°	4.6	4.8
38°	4.6	5.0
39°	4.6	4.8
40°	4.6	4.8
42.5°	4.6	4.8
45°	4.6	4.8
47.5°	4.6	5.0
50°	4.6	5.0
52.5°	4.6	5.0
55°	4.6	5.0
57.5°	4.6	4.8
60°	4.6	4.8
62.5°	4.4	4.8
65°	4.4	4.6
67.5°	4.4	4.6
70°	4.1	4.4
72.5°	3.9	4.1
75°	3.4	3.9
77.5°	3.2	3.4
80°	2.7	3.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.3	2.3
85°	1.6	1.8
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)