

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: P1337950

Luminaire Tested: P3A05R309740DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337950
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: P3A05R309740DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

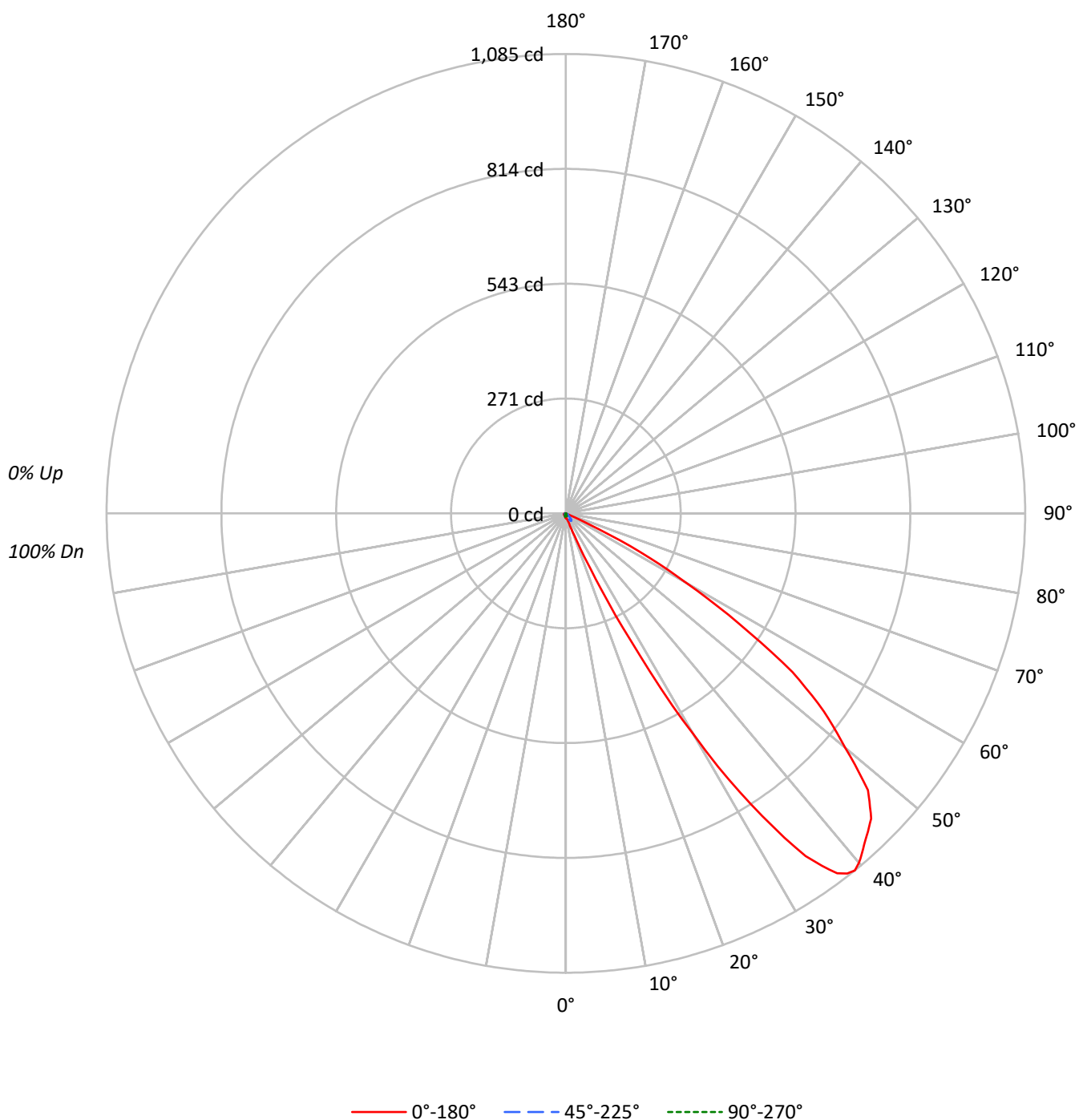
Lumens per Lamp: N/A
Luminaire Lumens: 282.0 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				0
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°	2390	2390	2390	2390	2390
5°	2553	2509	2355	2135	2091
10°	2806	2494	2071	1848	1804
15°	4109	2474	1725	1566	1612
20°	10314	2707	1330	1330	1493
25°	47882	3387	1040	1210	1379
30°	152403	4684	785	1139	1393
35°	264453	5729	642	1071	1392
40°	308435	5725	487	1088	1431
45°	316312	4062	527	1178	1551
50°	294165	2286	409	1228	1774
55°	250027	1185	459	1376	1988
60°	144374	307	526	1447	2193
65°	29471	0	623	1712	2491
70°	449	128	769	1988	2885
75°	424	169	847	2033	3389
80°	253	253	1263	2399	3915
85°	0	503	2516	2516	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 316312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	2.8	1.0
20°-30°	16.3	5.8
30°-40°	76.0	26.9
40°-50°	107.4	38.1
50°-60°	66.1	23.4
60°-70°	10.1	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°	20.1	7.1
0°-40°	96.1	34.1
0°-60°	269.6	95.6
0°-90°	282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	11	11	10	10	1
15°	18	11	8	7	7	6
25°	198	14	4	5	6	122
35°	988	21	2	4	5	593
45°	1020	13	2	4	5	773
55°	654	3	1	4	5	556
65°	57	0	1	3	5	103
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°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	11.2	11.2	11.4	11.4	11.2	11.4	11.4	11.4	10.9	10.7	10.2
5°	11.6	11.6	11.6	11.9	11.6	11.6	11.4	11.2	10.7	10.0	9.7
7.5°	12.1	12.1	11.9	12.1	11.9	11.9	11.4	10.9	10.2	9.5	9.0
10°	12.6	12.6	12.4	12.4	12.1	12.1	11.2	10.5	9.3	8.6	8.3
12.5°	14.0	14.0	13.8	13.5	13.1	12.8	10.9	9.7	8.3	7.6	7.4
15°	18.1	17.8	17.3	16.6	15.4	15.2	10.9	9.0	7.6	6.9	6.9
17.5°	24.7	24.5	23.8	21.9	19.7	19.0	10.9	8.1	6.7	6.2	6.2
20°	44.2	42.3	38.7	34.0	29.0	26.4	11.6	7.1	5.7	5.5	5.7
21°	57.7	55.8	51.3	43.5	34.7	31.8	12.1	6.9	5.5	5.2	5.7
22°	78.6	76.5	67.2	56.5	43.9	39.0	12.4	6.4	5.0	5.0	5.5
23°	109.7	106.2	90.5	73.4	54.9	47.7	12.8	6.2	4.8	5.0	5.2
24°	143.7	140.6	122.8	97.2	70.1	59.9	13.3	5.9	4.5	4.5	5.0
25°	197.9	194.3	162.7	122.6	88.8	72.0	14.0	5.5	4.3	4.3	5.0
26°	268.0	251.6	209.5	158.0	109.5	90.3	14.7	5.2	4.0	4.3	4.8
27°	334.5	320.9	273.7	202.6	135.4	110.9	15.7	5.0	3.8	4.0	4.8
28°	421.9	402.9	343.3	256.3	170.6	134.2	16.6	4.8	3.6	4.0	4.5
29°	519.7	493.1	421.2	316.6	210.2	160.3	17.6	4.5	3.3	3.8	4.5
30°	601.9	577.0	505.0	388.1	255.8	194.8	18.5	4.3	3.1	3.8	4.5
31°	698.4	660.6	573.4	448.7	295.0	229.2	19.5	3.8	2.9	3.6	4.3
32°	776.5	750.2	657.5	517.1	346.6	267.2	20.2	3.6	2.9	3.6	4.3
33°	852.1	816.7	727.1	582.7	393.1	306.2	20.9	3.3	2.6	3.3	4.3
34°	924.3	891.7	792.9	635.7	437.1	343.3	21.4	2.9	2.6	3.3	4.0
35°	987.9	950.2	850.9	687.5	482.2	377.0	21.4	2.6	2.4	3.1	4.0
36°	1029.3	1002.2	901.2	738.5	523.1	409.1	21.4	2.4	2.1	3.1	3.8
37°	1064.7	1033.1	941.6	777.7	553.2	434.7	21.4	2.1	2.1	3.1	3.8
38°	1079.2	1052.1	969.4	812.4	581.5	460.8	21.1	1.9	1.9	2.9	3.8
39°	1084.9	1060.6	990.3	837.3	602.4	478.4	20.7	1.7	1.9	2.9	3.8
40°	1077.5	1059.2	1001.0	853.5	619.0	491.2	20.0	1.4	1.7	2.9	3.8
42.5°	1047.1	1035.0	998.6	869.7	633.3	500.7	17.3	1.0	1.7	2.6	3.8
45°	1020.0	1006.7	974.6	852.8	614.8	482.0	13.1	0.5	1.7	2.6	3.8
47.5°	967.5	959.2	934.0	809.8	574.1	439.7	9.3	0.2	1.4	2.4	3.6
50°	862.3	854.4	821.2	703.1	493.9	371.8	6.7	0.2	1.2	2.4	3.6
52.5°	768.0	759.7	711.9	584.6	379.4	272.5	4.3	0.2	1.2	2.4	3.6
55°	654.0	639.5	576.8	443.7	268.9	182.7	3.1	0.2	1.2	2.1	3.6
57.5°	484.1	463.0	406.9	302.6	154.9	99.1	1.7	0.2	1.2	2.1	3.6
60°	329.2	316.6	254.6	159.6	66.0	41.8	0.7	0.2	1.2	2.1	3.3
62.5°	199.5	183.6	128.0	67.9	28.5	19.0	0.0	0.5	1.2	2.1	3.3
65°	56.8	50.4	33.5	15.4	8.1	6.2	0.0	0.5	1.2	2.1	3.3
67.5°	1.9	1.9	1.9	1.7	1.2	1.2	0.2	0.5	1.2	2.1	3.1
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.5	1.2	1.9	3.1
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	1.4	2.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.4	1.9



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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	1.4
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°	10.9	10.9
2.5°	10.2	10.2
5°	9.5	9.5
7.5°	8.8	8.8
10°	8.1	8.1
12.5°	7.6	7.6
15°	6.9	7.1
17.5°	6.4	6.7
20°	6.2	6.4
21°	6.2	6.4
22°	5.9	6.2
23°	5.9	6.2
24°	5.7	5.9
25°	5.5	5.7
26°	5.5	5.7
27°	5.5	5.7
28°	5.2	5.7
29°	5.2	5.5
30°	5.2	5.5
31°	5.0	5.5
32°	5.0	5.5
33°	5.0	5.2
34°	4.8	5.2
35°	4.8	5.2
36°	4.8	5.2
37°	4.8	5.0
38°	4.8	5.2
39°	4.8	5.0
40°	4.8	5.0
42.5°	4.8	5.0
45°	4.8	5.0
47.5°	4.8	5.2
50°	4.8	5.2
52.5°	4.8	5.2
55°	4.8	5.2
57.5°	4.8	5.0
60°	4.8	5.0
62.5°	4.5	5.0
65°	4.5	4.8
67.5°	4.5	4.8
70°	4.3	4.5
72.5°	4.0	4.3
75°	3.6	4.0
77.5°	3.3	3.6
80°	2.9	3.1

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.4	2.4
85°	1.7	1.9
87.5°	1.0	1.0
90°	0.0	0.0

(END OF REPORT)