

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: P1334269

Luminaire Tested: P3A02R15B2750DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R15B2750DE010 E3A451WMH_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

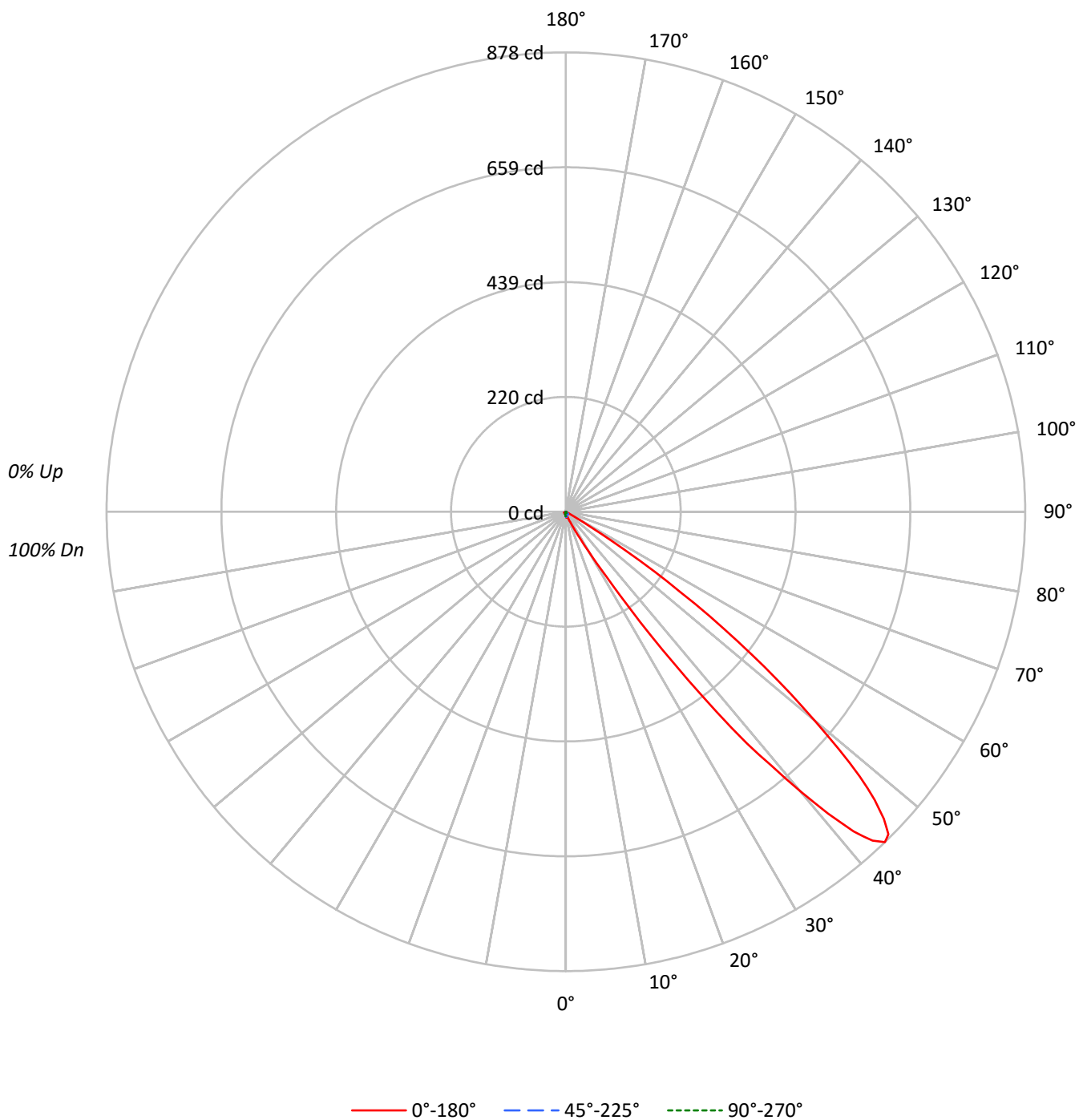
Lumens per Lamp: N/A
Luminaire Lumens: 98.0 lumens
Efficiency: N/A
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1908	1908	1908	1908	1908
5°	2355	2113	1717	1497	1475
10°	2338	1804	1336	1180	1202
15°	1930	1294	953	976	1044
20°	3360	1027	723	840	957
25°	7476	1234	581	774	895
30°	22333	1519	532	760	937
35°	86010	1713	482	776	990
40°	199631	1489	458	802	1059
45°	270385	1116	403	868	1147
50°	212019	682	409	921	1262
55°	101769	306	382	994	1376
60°	9298	44	351	1053	1535
65°	1038	0	311	1090	1660
70°	256	0	385	1218	1795
75°	254	85	508	1356	2033
80°	253	253	631	1389	2273
85°	252	252	1006	1258	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 270385 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.8
10°-20°	1.5	1.6
20°-30°	3.7	3.8
30°-40°	20.3	20.7
40°-50°	49.1	50.1
50°-60°	19.6	20.0
60°-70°	1.7	1.7
70°-80°	1.0	1.0
80°-90°	0.4	0.4
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°	6.0	6.1
0°-40°	26.3	26.8
0°-60°	94.9	96.9
0°-90°	98.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	98.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	11	10	8	7	7	1
15°	8	6	4	4	5	3
25°	31	5	2	3	4	19
35°	321	6	2	3	4	227
45°	872	4	1	3	4	615
55°	266	1	1	3	4	248
65°	2	0	1	2	3	5
75°	0	0	1	2	2	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	9.8	9.8	9.9	9.8	9.8	9.8	9.8	9.7	9.7	9.7	9.4
5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.5	9.6
7.5°	11.1	11.1	11.0	11.0	10.9	10.9	10.8	10.7	10.7	10.6	9.2
10°	10.5	10.5	10.5	10.4	10.4	10.3	10.2	10.1	10.0	9.8	8.1
12.5°	9.3	9.3	9.4	9.3	9.2	9.1	8.9	8.8	8.7	8.5	6.7
15°	8.5	8.5	8.5	8.4	8.3	8.1	8.0	7.8	7.7	7.4	5.7
17.5°	10.8	10.8	10.7	10.6	10.2	9.9	9.4	9.0	8.5	7.9	4.9
20°	14.4	14.4	14.2	14.0	13.5	13.0	12.2	11.5	10.7	10.1	4.4
22.5°	20.8	21.1	20.5	19.8	19.2	18.0	16.9	15.8	14.5	13.3	4.5
25°	30.9	31.2	30.9	29.3	28.0	26.5	24.4	22.3	19.9	17.8	5.1
27.5°	50.0	50.2	49.7	45.9	43.9	39.8	36.2	32.6	28.7	24.8	5.6
30°	88.2	88.3	85.2	77.6	70.8	61.9	54.2	46.9	40.7	34.5	6.0
31°	116.2	113.4	106.8	97.6	86.9	74.8	64.3	54.8	45.6	38.9	6.1
32°	147.5	147.2	136.1	120.2	105.8	90.7	74.9	62.8	52.3	43.1	6.2
33°	189.1	189.3	171.9	153.1	129.6	109.2	88.6	72.0	59.3	48.1	6.4
34°	254.0	238.7	218.3	192.9	160.8	130.3	103.5	82.7	65.7	52.9	6.4
35°	321.3	305.9	283.5	245.0	201.0	158.2	121.2	94.1	73.3	58.0	6.4
36°	396.7	383.7	349.7	300.6	244.5	184.6	139.9	107.3	80.8	62.7	6.3
37°	478.2	459.2	421.4	367.8	292.8	221.7	162.8	120.4	88.3	67.8	6.1
38°	561.0	543.8	496.2	431.2	350.4	260.9	185.7	133.0	95.3	71.6	5.8
39°	623.7	614.3	567.1	494.5	396.4	298.0	209.2	146.5	102.6	75.4	5.5
40°	697.4	682.2	637.5	547.7	450.9	335.8	232.3	158.4	108.7	78.5	5.2
41°	764.6	745.5	689.0	602.2	494.4	369.9	254.2	170.7	113.5	80.2	5.0
42°	822.3	800.0	741.0	648.9	530.9	397.0	271.6	179.5	118.1	81.7	4.7
43°	859.6	840.4	782.3	684.0	562.1	421.9	288.0	188.7	121.0	82.7	4.3
44°	877.8	858.3	802.1	706.0	581.2	436.9	298.5	195.0	124.1	83.9	4.0
45°	871.9	852.2	797.8	706.4	587.2	442.3	303.0	197.9	125.8	85.1	3.6
46°	845.0	831.2	776.4	688.0	575.8	436.5	300.5	195.7	125.2	85.1	3.2
47°	807.3	791.5	739.4	656.5	548.4	421.6	290.2	189.2	121.6	83.2	2.8
48°	755.9	742.4	687.7	606.3	506.3	389.3	267.1	178.5	115.9	79.3	2.4
49°	691.4	672.7	621.8	542.2	451.3	343.4	236.7	160.5	106.8	74.0	2.1
50°	621.5	598.3	559.0	478.0	394.6	294.4	196.7	135.7	94.0	66.9	2.0
51°	553.0	529.4	492.0	423.1	334.0	244.3	158.7	108.4	77.4	57.3	1.7
52°	481.9	462.2	420.3	366.1	285.9	198.0	132.2	91.7	64.3	48.1	1.4
53°	411.2	397.7	357.8	303.0	229.7	161.7	108.0	78.5	56.1	41.1	1.1
54°	340.3	325.6	295.3	246.4	185.2	127.6	91.6	65.7	48.7	35.9	1.0
55°	266.2	258.6	230.6	187.9	140.3	101.8	74.3	56.5	40.7	30.0	0.8
56°	205.0	196.4	170.9	136.3	104.3	79.7	60.1	46.1	34.5	25.1	0.6
57°	134.3	125.5	108.6	95.2	75.9	58.1	45.9	36.4	28.0	20.8	0.5
58°	79.3	71.3	68.7	58.6	50.6	39.5	33.9	27.1	20.7	16.4	0.3
59°	36.4	37.0	32.9	30.9	28.0	25.1	20.6	18.1	14.2	11.8	0.2
60°	21.2	20.0	19.5	17.5	15.5	13.8	12.4	10.9	8.9	7.6	0.1
62.5°	7.2	6.9	7.1	6.4	6.1	5.9	5.4	4.6	3.8	3.1	0.0
65°	2.0	2.0	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.0
70°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1
75°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	9.0	8.6	8.1	7.8	7.7	7.6
5°	8.6	7.8	7.2	6.8	6.7	6.7
7.5°	7.7	6.8	6.3	6.1	6.0	6.0
10°	6.7	6.0	5.5	5.3	5.4	5.4
12.5°	5.7	5.0	4.8	4.8	4.9	5.0
15°	4.6	4.2	4.2	4.3	4.5	4.6
17.5°	3.8	3.6	3.7	3.9	4.1	4.3
20°	3.1	3.1	3.3	3.6	3.9	4.1
22.5°	2.6	2.7	3.0	3.3	3.7	3.9
25°	2.2	2.4	2.7	3.2	3.6	3.7
27.5°	2.0	2.2	2.6	3.1	3.5	3.7
30°	1.7	2.1	2.5	3.0	3.5	3.7
31°	1.6	2.0	2.4	3.0	3.5	3.7
32°	1.5	2.0	2.4	3.0	3.5	3.7
33°	1.4	1.9	2.4	2.9	3.5	3.7
34°	1.3	1.9	2.4	3.0	3.5	3.7
35°	1.2	1.8	2.3	2.9	3.4	3.7
36°	1.1	1.8	2.3	2.9	3.5	3.7
37°	1.0	1.8	2.3	2.9	3.4	3.7
38°	1.0	1.7	2.2	2.9	3.4	3.7
39°	0.9	1.6	2.2	2.9	3.4	3.7
40°	0.8	1.6	2.1	2.8	3.4	3.7
41°	0.7	1.5	2.1	2.8	3.4	3.7
42°	0.6	1.5	2.1	2.8	3.4	3.7
43°	0.5	1.4	2.1	2.8	3.4	3.7
44°	0.5	1.4	2.1	2.8	3.4	3.7
45°	0.4	1.3	2.0	2.8	3.4	3.7
46°	0.4	1.3	2.0	2.7	3.4	3.7
47°	0.3	1.3	2.0	2.7	3.4	3.7
48°	0.3	1.2	2.0	2.7	3.4	3.7
49°	0.2	1.2	2.0	2.7	3.4	3.7
50°	0.2	1.2	1.9	2.7	3.4	3.7
51°	0.2	1.2	1.9	2.7	3.4	3.7
52°	0.2	1.1	1.9	2.7	3.4	3.7
53°	0.2	1.1	1.9	2.7	3.4	3.7
54°	0.2	1.1	1.8	2.7	3.4	3.7
55°	0.2	1.0	1.8	2.6	3.4	3.6
56°	0.2	1.0	1.8	2.6	3.4	3.6
57°	0.2	1.0	1.7	2.6	3.4	3.6
58°	0.2	0.9	1.7	2.5	3.3	3.6
59°	0.2	0.9	1.6	2.5	3.3	3.5
60°	0.2	0.8	1.6	2.4	3.2	3.5
62.5°	0.2	0.7	1.4	2.3	3.1	3.3
65°	0.2	0.6	1.3	2.1	3.0	3.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.2	0.6	1.2	2.1	2.8	3.1
70°	0.2	0.6	1.1	1.9	2.7	2.8
72.5°	0.3	0.6	1.0	1.8	2.5	2.6
75°	0.4	0.6	0.9	1.6	2.3	2.4
77.5°	0.4	0.6	0.8	1.4	2.1	2.1
80°	0.4	0.5	0.7	1.1	1.7	1.8
82.5°	0.4	0.5	0.5	0.9	1.3	1.4
85°	0.3	0.4	0.4	0.5	0.9	1.0
87.5°	0.3	0.4	0.2	0.3	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)