

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: P1334268

Luminaire Tested: P3A02R15B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334268
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

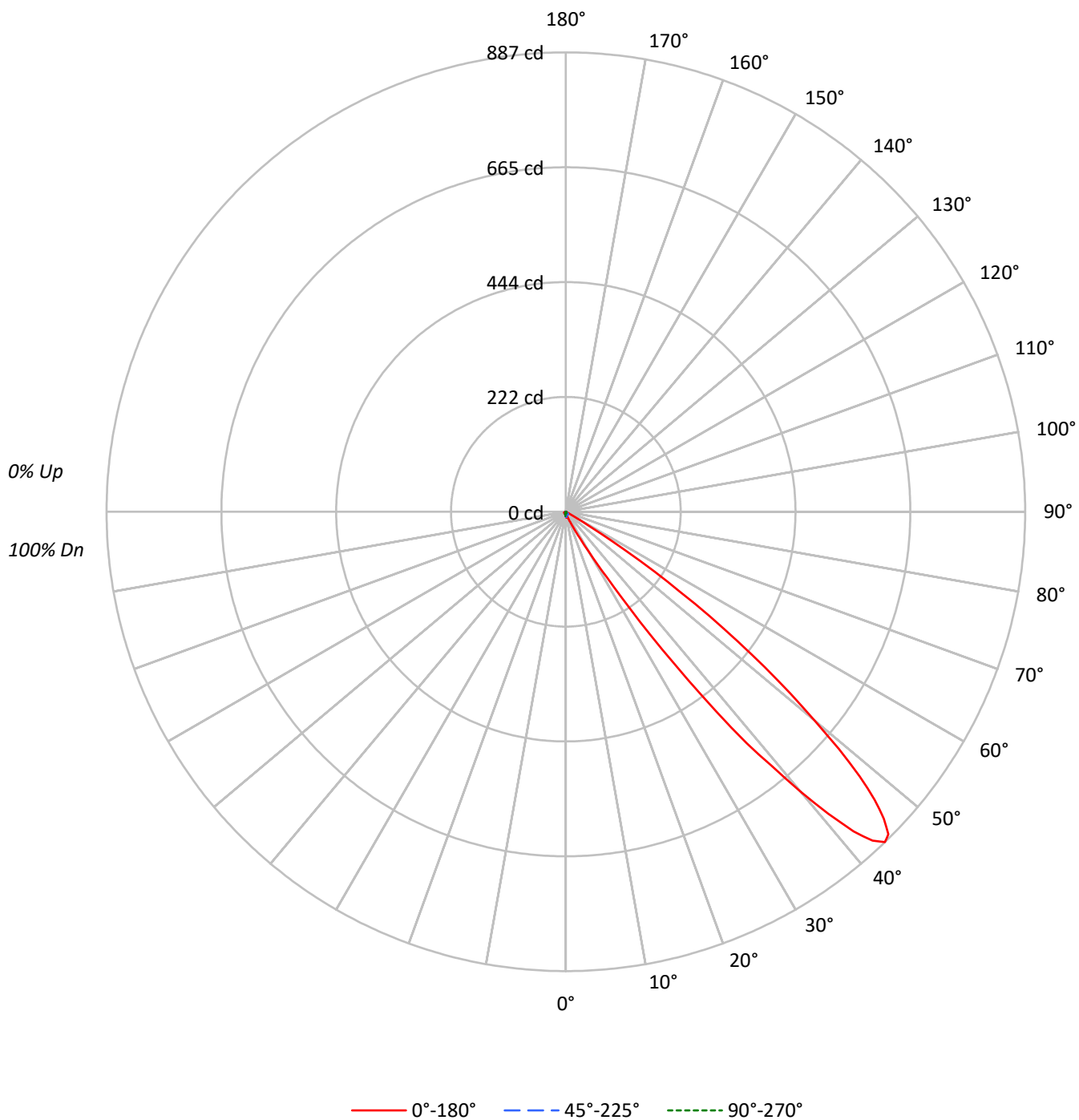
Lumens per Lamp: N/A
Luminaire Lumens: 99.1 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				0			
RW	70	50	30	10	70	50	30	10	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	52	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°	1930	1930	1930	1930	1930
5°	2399	2135	1739	1519	1497
10°	2360	1826	1336	1180	1202
15°	1952	1294	953	976	1044
20°	3384	1027	747	863	957
25°	7549	1234	605	798	919
30°	22560	1519	532	785	962
35°	86893	1713	482	803	1017
40°	201664	1489	458	830	1088
45°	273145	1147	403	899	1178
50°	214168	682	409	955	1296
55°	102802	306	382	1032	1415
60°	9385	44	351	1096	1579
65°	1038	0	311	1141	1712
70°	256	0	385	1218	1859
75°	254	85	508	1356	2118
80°	253	253	631	1389	2273
85°	252	252	1006	1258	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 273145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.8
10°-20°	1.6	1.6
20°-30°	3.7	3.8
30°-40°	20.5	20.7
40°-50°	49.6	50.1
50°-60°	19.8	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°	6.1	6.1
0°-40°	26.5	26.8
0°-60°	96.0	96.8
0°-90°	99.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	99.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	11	10	8	7	7	1
15°	9	6	4	4	5	3
25°	31	5	2	3	4	19
35°	325	6	2	3	4	229
45°	881	4	1	3	4	621
55°	269	1	1	3	4	250
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°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
2.5°	9.9	9.9	10.0	9.9	9.9	9.9	9.9	9.8	9.8	9.8	9.5
5°	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.7	10.7	10.6	9.7
7.5°	11.3	11.3	11.2	11.2	11.1	11.1	11.0	10.9	10.8	10.7	9.3
10°	10.6	10.6	10.6	10.5	10.5	10.4	10.3	10.2	10.1	9.9	8.2
12.5°	9.4	9.4	9.5	9.4	9.3	9.2	9.0	8.9	8.8	8.6	6.8
15°	8.6	8.6	8.6	8.5	8.4	8.2	8.1	7.9	7.8	7.5	5.7
17.5°	11.0	11.0	10.9	10.7	10.3	10.0	9.5	9.1	8.6	8.0	4.9
20°	14.5	14.5	14.3	14.1	13.6	13.1	12.3	11.6	10.9	10.2	4.4
22.5°	21.0	21.3	20.7	20.0	19.3	18.2	17.1	16.0	14.6	13.4	4.5
25°	31.2	31.5	31.2	29.6	28.3	26.8	24.7	22.5	20.1	18.0	5.1
27.5°	50.5	50.7	50.2	46.4	44.3	40.2	36.5	33.0	29.0	25.1	5.6
30°	89.1	89.2	86.1	78.4	71.6	62.5	54.8	47.4	41.2	34.8	6.0
31°	117.4	114.6	107.9	98.6	87.8	75.5	65.0	55.4	46.1	39.3	6.1
32°	149.1	148.7	137.5	121.4	106.9	91.6	75.7	63.5	52.8	43.5	6.2
33°	191.0	191.2	173.6	154.7	130.9	110.4	89.5	72.8	59.9	48.6	6.4
34°	256.6	241.2	220.5	194.9	162.5	131.6	104.5	83.5	66.3	53.4	6.4
35°	324.6	309.1	286.4	247.5	203.1	159.8	122.4	95.1	74.0	58.6	6.4
36°	400.8	387.6	353.3	303.6	247.0	186.5	141.4	108.4	81.6	63.4	6.3
37°	483.1	463.8	425.7	371.6	295.7	224.0	164.5	121.6	89.2	68.5	6.1
38°	566.7	549.3	501.3	435.6	354.0	263.6	187.6	134.3	96.2	72.4	5.8
39°	630.1	620.6	572.9	499.6	400.5	301.1	211.3	148.0	103.6	76.2	5.5
40°	704.5	689.2	644.0	553.3	455.5	339.3	234.6	160.0	109.8	79.3	5.2
41°	772.4	753.1	696.0	608.4	499.5	373.6	256.8	172.5	114.7	81.0	5.0
42°	830.7	808.2	748.5	655.5	536.3	401.1	274.4	181.3	119.3	82.5	4.7
43°	868.4	848.9	790.3	691.0	567.8	426.2	290.9	190.6	122.2	83.5	4.3
44°	886.7	867.1	810.3	713.2	587.1	441.3	301.6	197.0	125.4	84.8	4.0
45°	880.8	860.9	806.0	713.6	593.2	446.8	306.1	199.9	127.0	86.0	3.7
46°	853.7	839.6	784.4	695.0	581.7	440.9	303.5	197.7	126.5	86.0	3.3
47°	815.6	799.6	747.0	663.1	554.0	425.9	293.2	191.1	122.8	84.0	2.9
48°	763.6	750.0	694.7	612.5	511.4	393.3	269.8	180.3	117.1	80.2	2.5
49°	698.5	679.5	628.1	547.8	456.0	346.9	239.1	162.2	107.9	74.7	2.2
50°	627.8	604.4	564.7	482.9	398.6	297.4	198.7	137.1	95.0	67.6	2.0
51°	558.6	534.8	497.0	427.4	337.4	246.8	160.3	109.5	78.2	57.8	1.7
52°	486.8	466.9	424.6	369.9	288.8	200.0	133.6	92.6	65.0	48.6	1.4
53°	415.4	401.8	361.5	306.1	232.1	163.4	109.1	79.3	56.7	41.6	1.1
54°	343.8	328.9	298.3	249.0	187.1	128.9	92.5	66.3	49.2	36.2	1.0
55°	268.9	261.2	233.0	189.8	141.8	102.9	75.0	57.1	41.2	30.3	0.8
56°	207.1	198.4	172.6	137.7	105.3	80.5	60.7	46.6	34.8	25.4	0.6
57°	135.6	126.7	109.7	96.1	76.7	58.7	46.4	36.7	28.3	21.0	0.5
58°	80.2	72.1	69.4	59.2	51.1	39.9	34.3	27.3	20.9	16.6	0.3
59°	36.8	37.4	33.3	31.2	28.3	25.4	20.8	18.3	14.3	11.9	0.2
60°	21.4	20.2	19.7	17.7	15.7	13.9	12.5	11.1	9.0	7.7	0.1
62.5°	7.3	7.0	7.2	6.5	6.1	5.9	5.4	4.6	3.8	3.2	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°	8.8	8.8	8.8	8.8	8.8	8.8
2.5°	9.1	8.7	8.2	7.9	7.8	7.7
5°	8.7	7.9	7.3	6.9	6.8	6.8
7.5°	7.8	6.9	6.3	6.1	6.0	6.0
10°	6.8	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	3.7	3.8	3.9	4.1	4.3
20°	3.2	3.2	3.4	3.7	3.9	4.1
22.5°	2.7	2.8	3.1	3.4	3.8	3.9
25°	2.3	2.5	2.8	3.3	3.7	3.8
27.5°	2.0	2.3	2.7	3.2	3.6	3.8
30°	1.7	2.1	2.6	3.1	3.6	3.8
31°	1.6	2.0	2.5	3.1	3.6	3.8
32°	1.5	2.0	2.5	3.1	3.6	3.8
33°	1.4	1.9	2.5	3.0	3.6	3.8
34°	1.3	1.9	2.5	3.1	3.6	3.8
35°	1.2	1.8	2.4	3.0	3.5	3.8
36°	1.1	1.8	2.4	3.0	3.6	3.8
37°	1.0	1.8	2.4	3.0	3.5	3.8
38°	1.0	1.7	2.3	3.0	3.5	3.8
39°	0.9	1.6	2.3	3.0	3.5	3.8
40°	0.8	1.6	2.2	2.9	3.5	3.8
41°	0.7	1.5	2.2	2.9	3.5	3.8
42°	0.6	1.5	2.2	2.9	3.5	3.8
43°	0.5	1.4	2.1	2.9	3.5	3.8
44°	0.5	1.4	2.1	2.9	3.5	3.8
45°	0.4	1.3	2.0	2.9	3.5	3.8
46°	0.4	1.3	2.0	2.8	3.5	3.8
47°	0.3	1.3	2.0	2.8	3.5	3.8
48°	0.3	1.2	2.0	2.8	3.5	3.8
49°	0.2	1.2	2.0	2.8	3.5	3.8
50°	0.2	1.2	1.9	2.8	3.5	3.8
51°	0.2	1.2	1.9	2.8	3.5	3.8
52°	0.2	1.1	1.9	2.8	3.5	3.8
53°	0.2	1.1	1.9	2.8	3.5	3.8
54°	0.2	1.1	1.8	2.8	3.5	3.8
55°	0.2	1.0	1.8	2.7	3.5	3.7
56°	0.2	1.0	1.8	2.7	3.5	3.7
57°	0.2	1.0	1.7	2.7	3.5	3.7
58°	0.2	0.9	1.7	2.6	3.4	3.7
59°	0.2	0.9	1.6	2.6	3.4	3.6
60°	0.2	0.8	1.6	2.5	3.3	3.6
62.5°	0.2	0.7	1.4	2.4	3.2	3.4
65°	0.2	0.6	1.3	2.2	3.1	3.3



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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	2.9	3.2
70°	0.2	0.6	1.1	1.9	2.8	2.9
72.5°	0.3	0.6	1.0	1.8	2.6	2.7
75°	0.4	0.6	0.9	1.6	2.4	2.5
77.5°	0.4	0.6	0.8	1.4	2.1	2.2
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)