

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: P1335251

Luminaire Tested: P3A02R30B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335251
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: P3A02R30B2750DE010 E3A451WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

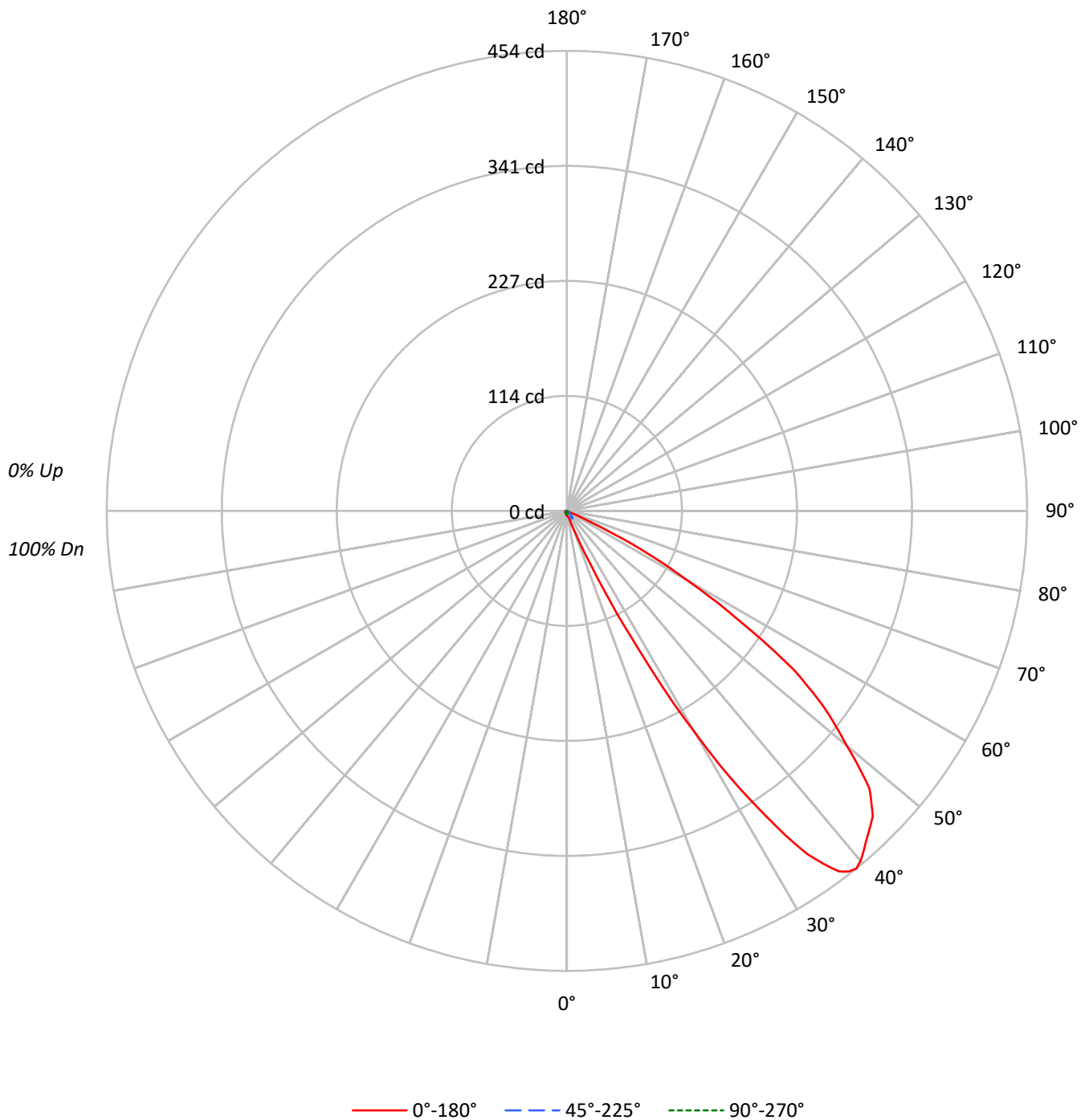
Lumens per Lamp: N/A
Luminaire Lumens: 118.0 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	26	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1009	1009	1009	1009	1009
5°	1079	1057	991	902	880
10°	1180	1047	868	779	757
15°	1725	1044	726	658	681
20°	4317	1143	560	560	630
25°	20033	1428	436	508	581
30°	63782	1975	329	481	582
35°	110664	2382	268	455	589
40°	129070	2376	200	458	601
45°	132355	1706	217	496	651
50°	123083	955	171	512	751
55°	104598	497	191	573	841
60°	60434	132	219	614	921
65°	12349	0	259	726	1038
70°	192	64	321	833	1218
75°	169	85	339	847	1440
80°	126	126	505	1010	1642
85°	0	252	1006	1006	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 132355 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.4
10°-20°	1.2	1.0
20°-30°	6.8	5.8
30°-40°	31.8	26.9
40°-50°	45.0	38.1
50°-60°	27.7	23.4
60°-70°	4.2	3.6
70°-80°	0.7	0.6
80°-90°	0.3	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°	8.4	7.1
0°-40°	40.2	34.1
0°-60°	112.8	95.6
0°-90°	118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	118.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	5	5	4	4	4	0
15°	8	5	3	3	3	3
25°	83	6	2	2	2	51
35°	413	9	1	2	2	248
45°	427	6	1	2	2	324
55°	274	1	0	2	2	233
65°	24	0	0	1	2	43
75°	0	0	0	1	2	0
85°	0	0	0	0	1	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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	4.7	4.7	4.8	4.8	4.7	4.8	4.8	4.8	4.6	4.5	4.3
5°	4.9	4.9	4.9	5.0	4.9	4.9	4.8	4.7	4.5	4.2	4.1
7.5°	5.1	5.1	5.0	5.1	5.0	5.0	4.8	4.6	4.3	4.0	3.8
10°	5.3	5.3	5.2	5.2	5.1	5.1	4.7	4.4	3.9	3.6	3.5
12.5°	5.9	5.9	5.8	5.7	5.5	5.4	4.6	4.1	3.5	3.2	3.1
15°	7.6	7.5	7.3	7.0	6.5	6.4	4.6	3.8	3.2	2.9	2.9
17.5°	10.3	10.2	9.9	9.1	8.3	8.0	4.6	3.4	2.8	2.6	2.6
20°	18.5	17.7	16.2	14.2	12.1	11.0	4.9	3.0	2.4	2.3	2.4
21°	24.2	23.4	21.5	18.2	14.5	13.3	5.1	2.9	2.3	2.2	2.4
22°	32.9	32.0	28.1	23.7	18.4	16.3	5.2	2.7	2.1	2.1	2.3
23°	45.9	44.4	37.9	30.7	23.0	20.0	5.4	2.6	2.0	2.1	2.2
24°	60.1	58.8	51.4	40.7	29.3	25.0	5.6	2.5	1.9	1.9	2.1
25°	82.8	81.3	68.1	51.3	37.2	30.1	5.9	2.3	1.8	1.8	2.1
26°	112.1	105.3	87.7	66.1	45.8	37.8	6.2	2.2	1.7	1.8	2.0
27°	140.0	134.3	114.5	84.8	56.7	46.4	6.6	2.1	1.6	1.7	2.0
28°	176.5	168.6	143.6	107.3	71.4	56.2	7.0	2.0	1.5	1.7	1.9
29°	217.5	206.4	176.2	132.5	88.0	67.1	7.4	1.9	1.4	1.6	1.9
30°	251.9	241.4	211.3	162.4	107.1	81.5	7.8	1.8	1.3	1.6	1.9
31°	292.2	276.4	239.9	187.8	123.5	95.9	8.2	1.6	1.2	1.5	1.8
32°	324.9	313.9	275.1	216.4	145.0	111.8	8.4	1.5	1.2	1.5	1.8
33°	356.5	341.7	304.3	243.8	164.5	128.1	8.7	1.4	1.1	1.4	1.8
34°	386.8	373.1	331.8	266.0	182.9	143.6	8.9	1.2	1.1	1.4	1.7
35°	413.4	397.6	356.0	287.7	201.8	157.7	8.9	1.1	1.0	1.3	1.7
36°	430.7	419.4	377.1	309.0	218.9	171.2	8.9	1.0	0.9	1.3	1.6
37°	445.5	432.3	394.0	325.4	231.5	181.9	8.9	0.9	0.9	1.3	1.6
38°	451.6	440.2	405.6	339.9	243.3	192.8	8.8	0.8	0.8	1.2	1.6
39°	454.0	443.8	414.4	350.4	252.1	200.2	8.6	0.7	0.8	1.2	1.6
40°	450.9	443.2	418.9	357.1	259.0	205.6	8.3	0.6	0.7	1.2	1.6
42.5°	438.1	433.1	417.9	363.9	265.0	209.5	7.3	0.4	0.7	1.1	1.6
45°	426.8	421.2	407.8	356.8	257.2	201.7	5.5	0.2	0.7	1.1	1.6
47.5°	404.8	401.4	390.8	338.8	240.2	184.0	3.9	0.1	0.6	1.0	1.5
50°	360.8	357.5	343.6	294.2	206.6	155.6	2.8	0.1	0.5	1.0	1.5
52.5°	321.4	317.9	297.9	244.6	158.7	114.0	1.8	0.1	0.5	1.0	1.5
55°	273.6	267.6	241.3	185.7	112.5	76.4	1.3	0.1	0.5	0.9	1.5
57.5°	202.6	193.7	170.3	126.6	64.8	41.4	0.7	0.1	0.5	0.9	1.5
60°	137.8	132.5	106.6	66.8	27.6	17.5	0.3	0.1	0.5	0.9	1.4
62.5°	83.5	76.8	53.6	28.4	11.9	8.0	0.0	0.2	0.5	0.9	1.4
65°	23.8	21.1	14.0	6.5	3.4	2.6	0.0	0.2	0.5	0.9	1.4
67.5°	0.8	0.8	0.8	0.7	0.5	0.5	0.1	0.2	0.5	0.9	1.3
70°	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.5	0.8	1.3
72.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.4	0.7	1.2
75°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.7	1.0
77.5°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.6	1.0
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.6	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.3	0.4	0.4	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.3	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3	0.2
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°	4.6	4.6
2.5°	4.3	4.3
5°	4.0	4.0
7.5°	3.7	3.7
10°	3.4	3.4
12.5°	3.2	3.2
15°	2.9	3.0
17.5°	2.7	2.8
20°	2.6	2.7
21°	2.6	2.7
22°	2.5	2.6
23°	2.5	2.6
24°	2.4	2.5
25°	2.3	2.4
26°	2.3	2.4
27°	2.3	2.4
28°	2.2	2.4
29°	2.2	2.3
30°	2.2	2.3
31°	2.1	2.3
32°	2.1	2.3
33°	2.1	2.2
34°	2.0	2.2
35°	2.0	2.2
36°	2.0	2.2
37°	2.0	2.1
38°	2.0	2.2
39°	2.0	2.1
40°	2.0	2.1
42.5°	2.0	2.1
45°	2.0	2.1
47.5°	2.0	2.2
50°	2.0	2.2
52.5°	2.0	2.2
55°	2.0	2.2
57.5°	2.0	2.1
60°	2.0	2.1
62.5°	1.9	2.1
65°	1.9	2.0
67.5°	1.9	2.0
70°	1.8	1.9
72.5°	1.7	1.8
75°	1.5	1.7
77.5°	1.4	1.5
80°	1.2	1.3



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	1.0	1.0
85°	0.7	0.8
87.5°	0.4	0.4
90°	0.0	0.0

(END OF REPORT)