

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: P1335252

Luminaire Tested: P3A02R30B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335252
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_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

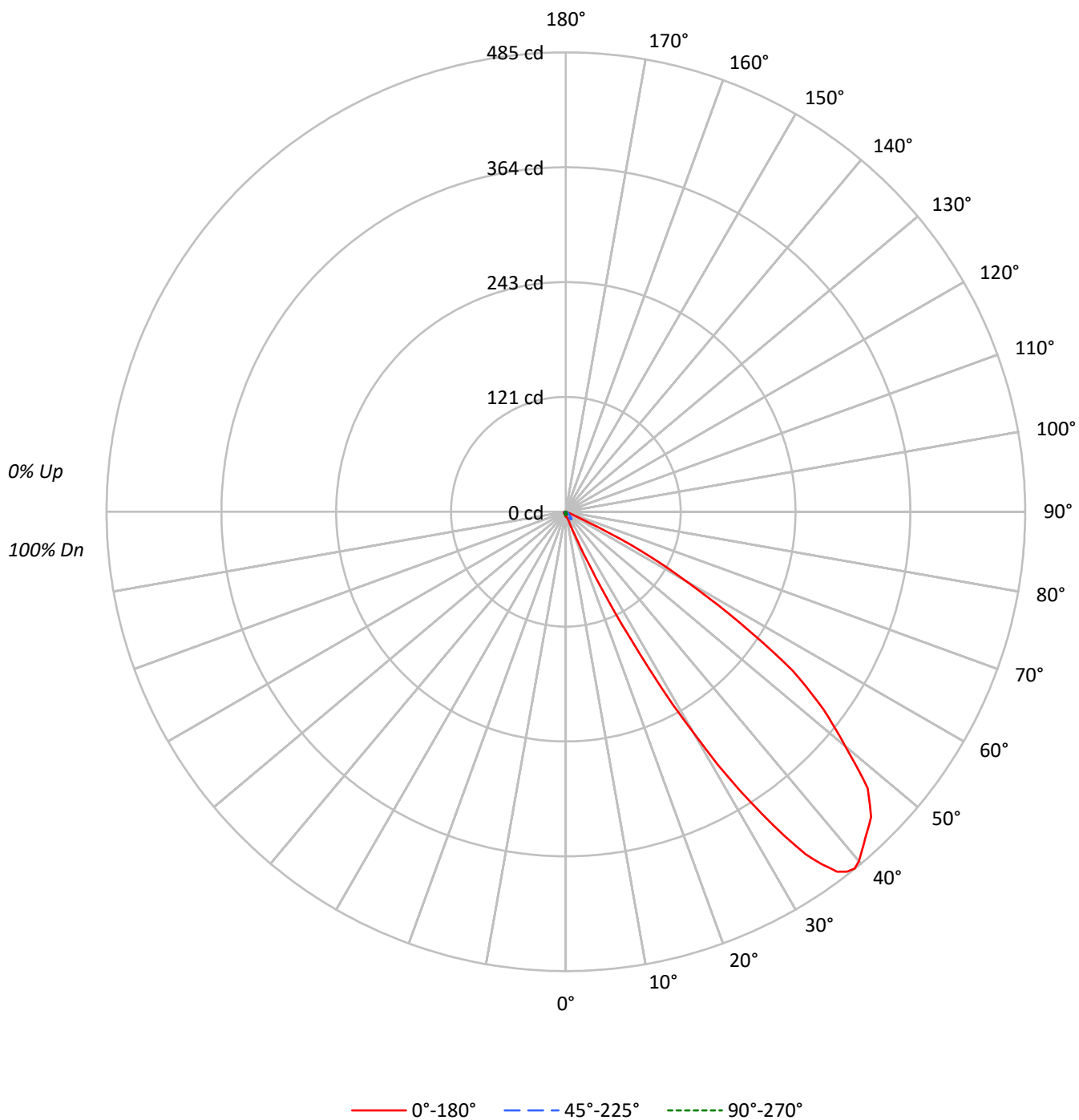
Lumens per Lamp: N/A
Luminaire Lumens: 126.0 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

Luminous Intensity Polar Plot





TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

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	108	104	100	97	100	97	94	96	93	91	92	90	89	87						
2	100	93	86	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	60	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	48	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	32	26	37	31	26	24						
9	52	37	29	23	50	37	28	23	36	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	24	19	17						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1074	1074	1074	1074	1074
5°	1145	1123	1057	969	924
10°	1247	1113	913	824	802
15°	1839	1112	772	704	726
20°	4597	1213	583	583	677
25°	21388	1524	460	532	605
30°	68112	2102	354	506	608
35°	118159	2570	294	482	616
40°	137801	2548	200	487	630
45°	141348	1799	217	527	682
50°	131441	1023	171	546	785
55°	111709	535	191	612	879
60°	64512	132	219	658	965
65°	13179	0	259	778	1090
70°	192	64	321	898	1282
75°	169	85	339	932	1525
80°	126	126	505	1010	1768
85°	0	252	1006	1006	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 141348 cd/sqm

TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.4
10°-20°	1.3	1.0
20°-30°	7.3	5.8
30°-40°	33.9	26.9
40°-50°	48.0	38.1
50°-60°	29.5	23.4
60°-70°	4.5	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°	9.0	7.1
0°-40°	42.9	34.1
0°-60°	120.4	95.6
0°-90°	126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	126.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	5	5	5	4	4	1
15°	8	5	3	3	3	3
25°	88	6	2	2	2	54
35°	441	10	1	2	2	265
45°	456	6	1	2	2	346
55°	292	1	0	2	2	249
65°	25	0	0	2	2	46
75°	0	0	0	1	2	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
2.5°	5.0	5.0	5.1	5.1	5.0	5.1	5.1	5.1	4.9	4.8	4.6
5°	5.2	5.2	5.2	5.3	5.2	5.2	5.1	5.0	4.8	4.5	4.4
7.5°	5.4	5.4	5.3	5.4	5.3	5.3	5.1	4.9	4.6	4.2	4.0
10°	5.6	5.6	5.5	5.5	5.4	5.4	5.0	4.7	4.1	3.8	3.7
12.5°	6.3	6.3	6.2	6.0	5.8	5.7	4.9	4.4	3.7	3.4	3.3
15°	8.1	8.0	7.7	7.4	6.9	6.8	4.9	4.0	3.4	3.1	3.1
17.5°	11.0	10.9	10.6	9.8	8.8	8.5	4.9	3.6	3.0	2.8	2.8
20°	19.7	18.9	17.3	15.2	12.9	11.8	5.2	3.2	2.5	2.4	2.5
21°	25.8	24.9	22.9	19.4	15.5	14.2	5.4	3.1	2.4	2.3	2.5
22°	35.1	34.2	30.0	25.3	19.6	17.4	5.5	2.9	2.2	2.2	2.4
23°	49.0	47.4	40.4	32.8	24.5	21.3	5.7	2.8	2.1	2.2	2.3
24°	64.2	62.8	54.9	43.4	31.3	26.7	5.9	2.7	2.0	2.0	2.2
25°	88.4	86.8	72.7	54.8	39.7	32.2	6.3	2.4	1.9	1.9	2.2
26°	119.7	112.4	93.6	70.6	48.9	40.3	6.6	2.3	1.8	1.9	2.1
27°	149.4	143.4	122.3	90.5	60.5	49.6	7.0	2.2	1.7	1.8	2.1
28°	188.5	180.0	153.4	114.5	76.2	60.0	7.4	2.1	1.6	1.8	2.0
29°	232.2	220.3	188.2	141.5	93.9	71.6	7.9	2.0	1.5	1.7	2.0
30°	269.0	257.8	225.6	173.4	114.3	87.0	8.3	1.9	1.4	1.7	2.0
31°	312.0	295.2	256.2	200.5	131.8	102.4	8.7	1.7	1.3	1.6	1.9
32°	347.0	335.2	293.8	231.1	154.9	119.4	9.0	1.6	1.3	1.6	1.9
33°	380.7	364.9	324.9	260.4	175.7	136.8	9.3	1.5	1.2	1.5	1.9
34°	413.0	398.4	354.3	284.0	195.3	153.4	9.6	1.3	1.2	1.5	1.8
35°	441.4	424.5	380.2	307.2	215.5	168.4	9.6	1.2	1.1	1.4	1.8
36°	459.9	447.8	402.7	330.0	233.7	182.8	9.6	1.1	1.0	1.4	1.7
37°	475.7	461.6	420.7	347.5	247.2	194.2	9.6	1.0	1.0	1.4	1.7
38°	482.2	470.1	433.1	363.0	259.8	205.9	9.4	0.8	0.8	1.3	1.7
39°	484.7	473.9	442.5	374.1	269.2	213.8	9.2	0.7	0.8	1.3	1.7
40°	481.4	473.3	447.3	381.4	276.6	219.5	8.9	0.6	0.7	1.3	1.7
42.5°	467.9	462.4	446.2	388.6	283.0	223.7	7.7	0.4	0.7	1.2	1.7
45°	455.8	449.8	435.5	381.0	274.7	215.4	5.8	0.2	0.7	1.2	1.7
47.5°	432.3	428.6	417.3	361.8	256.5	196.5	4.1	0.1	0.6	1.1	1.6
50°	385.3	381.8	366.9	314.2	220.7	166.1	3.0	0.1	0.5	1.1	1.6
52.5°	343.1	339.4	318.1	261.2	169.5	121.7	1.9	0.1	0.5	1.1	1.6
55°	292.2	285.7	257.7	198.3	120.1	81.6	1.4	0.1	0.5	1.0	1.6
57.5°	216.3	206.9	181.8	135.2	69.2	44.3	0.7	0.1	0.5	1.0	1.6
60°	147.1	141.5	113.8	71.3	29.5	18.7	0.3	0.1	0.5	1.0	1.5
62.5°	89.2	82.0	57.2	30.4	12.7	8.5	0.0	0.2	0.5	1.0	1.5
65°	25.4	22.5	15.0	6.9	3.6	2.8	0.0	0.2	0.5	1.0	1.5
67.5°	0.8	0.8	0.8	0.7	0.5	0.5	0.1	0.2	0.5	1.0	1.4
70°	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.5	0.8	1.4
72.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.4	0.7	1.3
75°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.7	1.1
77.5°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.6	1.1
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.6	0.8



TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

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

TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	4.9	4.9
2.5°	4.6	4.6
5°	4.2	4.2
7.5°	3.9	3.9
10°	3.6	3.6
12.5°	3.4	3.4
15°	3.1	3.2
17.5°	2.9	3.0
20°	2.8	2.9
21°	2.8	2.9
22°	2.7	2.8
23°	2.7	2.8
24°	2.5	2.7
25°	2.4	2.5
26°	2.4	2.5
27°	2.4	2.5
28°	2.3	2.5
29°	2.3	2.4
30°	2.3	2.4
31°	2.2	2.4
32°	2.2	2.4
33°	2.2	2.3
34°	2.1	2.3
35°	2.1	2.3
36°	2.1	2.3
37°	2.1	2.2
38°	2.1	2.3
39°	2.1	2.2
40°	2.1	2.2
42.5°	2.1	2.2
45°	2.1	2.2
47.5°	2.1	2.3
50°	2.1	2.3
52.5°	2.1	2.3
55°	2.1	2.3
57.5°	2.1	2.2
60°	2.1	2.2
62.5°	2.0	2.2
65°	2.0	2.1
67.5°	2.0	2.1
70°	1.9	2.0
72.5°	1.8	1.9
75°	1.6	1.8
77.5°	1.5	1.6
80°	1.3	1.4

TEST NUMBER: P1335252

CATALOG NUMBER: P3A02R30B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	1.1	1.1
85°	0.7	0.8
87.5°	0.4	0.4
90°	0.0	0.0

(END OF REPORT)