

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: P1335249

Luminaire Tested: P3A02R30B2750DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335249
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

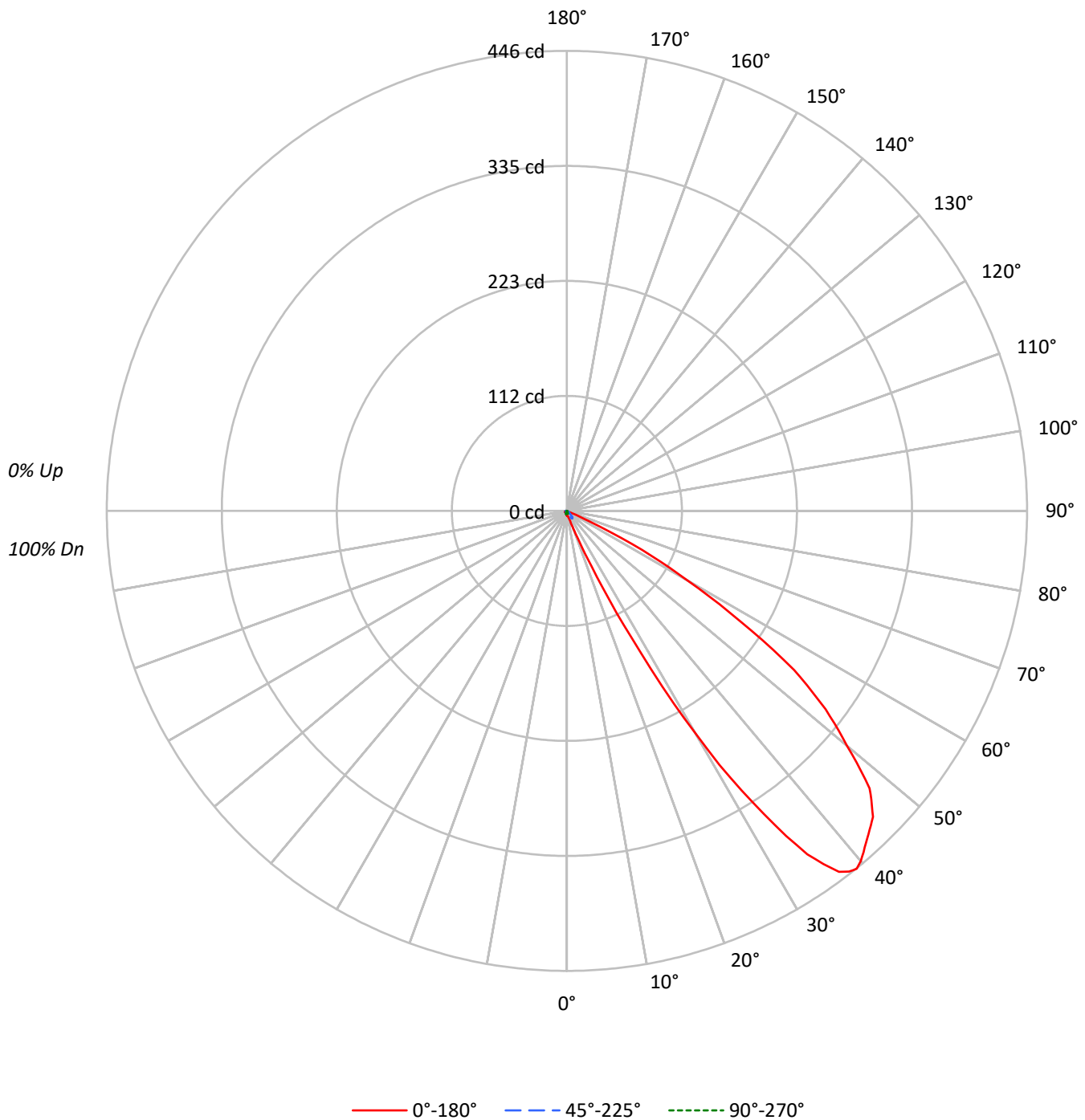
Lumens per Lamp: N/A
Luminaire Lumens: 116.1 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.65 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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	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	31	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°	987	987	987	987	987
5°	1057	1035	969	880	858
10°	1158	1024	846	757	735
15°	1680	1022	704	636	658
20°	4247	1120	537	537	607
25°	19695	1403	436	508	556
30°	62693	1924	329	481	557
35°	108790	2356	268	455	562
40°	126866	2347	200	458	601
45°	130122	1675	217	496	651
50°	121002	921	171	512	716
55°	102840	497	191	573	803
60°	59381	132	219	614	921
65°	12141	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: 130122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.3
10°-20°	1.2	1.0
20°-30°	6.7	5.8
30°-40°	31.3	26.9
40°-50°	44.2	38.1
50°-60°	27.2	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°	8.3	7.1
0°-40°	39.5	34.0
0°-60°	110.9	95.6
0°-90°	116.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	116.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	5	5	4	4	4	0
15°	7	4	3	3	3	3
25°	81	6	2	2	2	50
35°	406	9	1	2	2	244
45°	420	5	1	2	2	318
55°	269	1	0	2	2	229
65°	23	0	0	1	2	42
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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2.5°	4.6	4.6	4.7	4.7	4.6	4.7	4.7	4.7	4.5	4.4	4.2
5°	4.8	4.8	4.8	4.9	4.8	4.8	4.7	4.6	4.4	4.1	4.0
7.5°	5.0	5.0	4.9	5.0	4.9	4.9	4.7	4.5	4.2	3.9	3.7
10°	5.2	5.2	5.1	5.1	5.0	5.0	4.6	4.3	3.8	3.5	3.4
12.5°	5.8	5.8	5.7	5.6	5.4	5.3	4.5	4.0	3.4	3.1	3.0
15°	7.4	7.3	7.1	6.8	6.4	6.3	4.5	3.7	3.1	2.8	2.8
17.5°	10.2	10.1	9.8	9.0	8.1	7.8	4.5	3.3	2.7	2.5	2.5
20°	18.2	17.4	15.9	14.0	11.9	10.8	4.8	2.9	2.3	2.2	2.3
21°	23.7	23.0	21.1	17.9	14.3	13.1	5.0	2.8	2.2	2.1	2.3
22°	32.3	31.5	27.7	23.3	18.1	16.0	5.1	2.6	2.1	2.1	2.2
23°	45.1	43.7	37.2	30.2	22.6	19.6	5.3	2.5	2.0	2.1	2.1
24°	59.1	57.8	50.5	40.0	28.8	24.6	5.5	2.4	1.9	1.9	2.1
25°	81.4	79.9	66.9	50.4	36.5	29.6	5.8	2.2	1.8	1.8	2.1
26°	110.2	103.5	86.2	65.0	45.0	37.1	6.1	2.1	1.7	1.8	2.0
27°	137.6	132.0	112.6	83.3	55.7	45.6	6.4	2.1	1.6	1.7	2.0
28°	173.5	165.7	141.2	105.4	70.2	55.2	6.8	2.0	1.5	1.7	1.9
29°	213.8	202.9	173.2	130.3	86.5	66.0	7.2	1.9	1.4	1.6	1.9
30°	247.6	237.3	207.7	159.7	105.2	80.1	7.6	1.8	1.3	1.6	1.9
31°	287.3	271.7	235.9	184.6	121.4	94.3	8.0	1.6	1.2	1.5	1.8
32°	319.4	308.6	270.5	212.7	142.6	109.9	8.3	1.5	1.2	1.5	1.8
33°	350.5	335.9	299.1	239.7	161.7	126.0	8.6	1.4	1.1	1.4	1.8
34°	380.2	366.8	326.2	261.5	179.8	141.2	8.8	1.2	1.1	1.4	1.7
35°	406.4	390.9	350.0	282.8	198.4	155.1	8.8	1.1	1.0	1.3	1.7
36°	423.4	412.3	370.7	303.8	215.2	168.3	8.8	1.0	0.9	1.3	1.6
37°	438.0	425.0	387.3	319.9	227.6	178.8	8.8	0.9	0.9	1.3	1.6
38°	443.9	432.8	398.8	334.2	239.2	189.6	8.7	0.8	0.8	1.2	1.6
39°	446.3	436.3	407.4	344.4	247.8	196.8	8.5	0.7	0.8	1.2	1.6
40°	443.2	435.7	411.8	351.1	254.6	202.1	8.2	0.6	0.7	1.2	1.6
42.5°	430.7	425.7	410.8	357.7	260.5	206.0	7.1	0.4	0.7	1.1	1.6
45°	419.6	414.1	400.9	350.8	252.9	198.3	5.4	0.2	0.7	1.1	1.6
47.5°	398.0	394.6	384.2	333.1	236.2	180.9	3.8	0.1	0.6	1.0	1.5
50°	354.7	351.5	337.8	289.2	203.1	152.9	2.7	0.1	0.5	1.0	1.5
52.5°	315.9	312.5	292.8	240.5	156.0	112.1	1.8	0.1	0.5	1.0	1.5
55°	269.0	263.0	237.2	182.5	110.6	75.1	1.3	0.1	0.5	0.9	1.5
57.5°	199.1	190.4	167.4	124.5	63.7	40.7	0.7	0.1	0.5	0.9	1.5
60°	135.4	130.3	104.7	65.7	27.2	17.2	0.3	0.1	0.5	0.9	1.4
62.5°	82.1	75.5	52.7	27.9	11.7	7.8	0.0	0.2	0.5	0.9	1.4
65°	23.4	20.7	13.8	6.4	3.3	2.5	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°	4.5	4.5
2.5°	4.2	4.2
5°	3.9	3.9
7.5°	3.6	3.6
10°	3.3	3.3
12.5°	3.1	3.1
15°	2.8	2.9
17.5°	2.6	2.7
20°	2.5	2.6
21°	2.5	2.6
22°	2.4	2.5
23°	2.4	2.5
24°	2.3	2.4
25°	2.2	2.3
26°	2.2	2.3
27°	2.2	2.3
28°	2.1	2.3
29°	2.1	2.2
30°	2.1	2.2
31°	2.1	2.2
32°	2.1	2.2
33°	2.1	2.1
34°	2.0	2.1
35°	2.0	2.1
36°	2.0	2.1
37°	2.0	2.1
38°	2.0	2.1
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	2.1
50°	2.0	2.1
52.5°	2.0	2.1
55°	2.0	2.1
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)