

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: P1336584

Luminaire Tested: P3A05R15B2750DE010 E3A451WMH_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336584
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: P3A05R15B2750DE010 E3A451WMH_3500K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

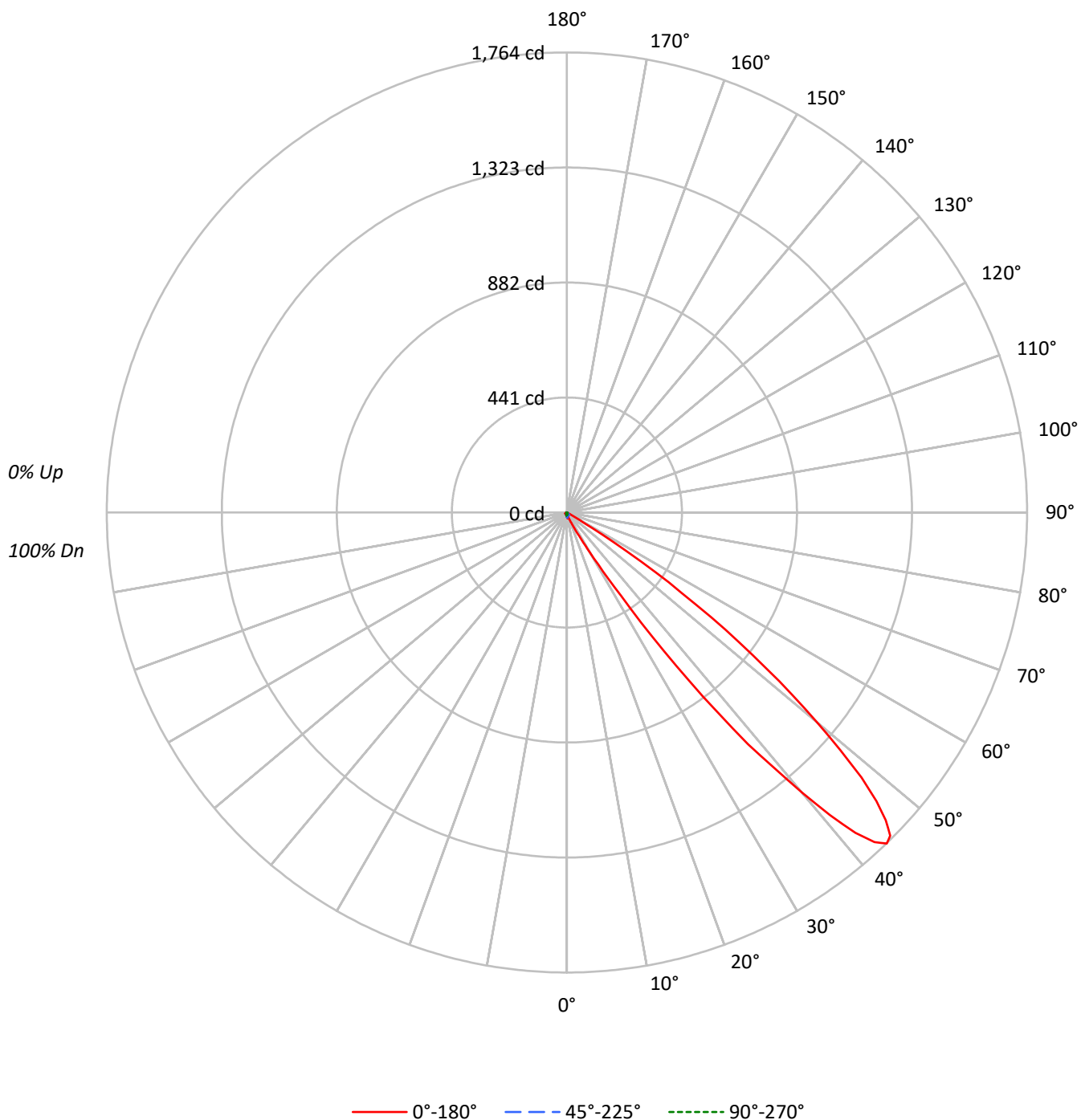
Lumens per Lamp: N/A
Luminaire Lumens: 197.0 lumens
Efficiency: N/A
Efficacy: 33.4 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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°	3837	3837	3837	3837	3837
5°	4755	4226	3456	3016	2994
10°	4676	3629	2672	2360	2405
15°	3882	2588	1907	1952	2089
20°	6744	2054	1470	1703	1913
25°	15025	2468	1186	1573	1815
30°	44918	3038	1038	1545	1899
35°	172902	3426	937	1579	2008
40°	401295	2977	887	1632	2147
45°	543529	2264	806	1768	2326
50°	426186	1330	819	1876	2559
55°	204571	612	765	2026	2791
60°	18683	88	702	2149	3114
65°	2024	0	623	2231	3373
70°	513	0	769	2372	3654
75°	508	169	1017	2626	4151
80°	505	505	1263	2778	4420
85°	503	503	2013	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 543529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.8
10°-20°	3.1	1.6
20°-30°	7.4	3.8
30°-40°	40.8	20.7
40°-50°	98.7	50.1
50°-60°	39.4	20.0
60°-70°	3.4	1.7
70°-80°	1.9	1.0
80°-90°	0.9	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°	12.0	6.1
0°-40°	52.8	26.8
0°-60°	190.8	96.9
0°-90°	197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	197.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	22	19	16	14	14	2
15°	17	11	8	9	9	6
25°	62	10	5	6	8	37
35°	646	13	4	6	8	456
45°	1753	7	3	6	8	1236
55°	535	2	2	5	7	498
65°	4	0	1	4	6	10
75°	1	0	1	3	5	1
85°	0	0	1	1	2	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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	19.6	19.6	19.8	19.6	19.6	19.6	19.6	19.4	19.4	19.4	18.9
5°	21.6	21.6	21.6	21.6	21.4	21.4	21.4	21.2	21.2	21.0	19.2
7.5°	22.4	22.4	22.2	22.2	22.0	22.0	21.8	21.6	21.4	21.2	18.5
10°	21.0	21.0	21.0	20.8	20.8	20.6	20.4	20.2	20.0	19.6	16.3
12.5°	18.7	18.7	18.9	18.7	18.5	18.3	17.9	17.7	17.5	17.1	13.6
15°	17.1	17.1	17.1	16.9	16.7	16.3	16.1	15.7	15.5	14.9	11.4
17.5°	21.8	21.8	21.6	21.2	20.4	19.8	18.9	18.1	17.1	15.9	9.8
20°	28.9	28.9	28.5	28.1	27.1	26.1	24.6	23.2	21.6	20.2	8.8
22.5°	41.8	42.4	41.2	39.9	38.5	36.1	34.0	31.8	29.1	26.7	9.0
25°	62.1	62.7	62.1	58.9	56.4	53.2	49.1	44.8	40.1	35.7	10.2
27.5°	100.6	101.0	100.0	92.3	88.2	79.9	72.7	65.6	57.7	49.9	11.2
30°	177.4	177.6	171.3	156.0	142.4	124.3	109.0	94.3	81.9	69.3	12.0
31°	233.6	228.1	214.7	196.2	174.6	150.3	129.2	110.2	91.7	78.2	12.2
32°	296.6	295.8	273.6	241.6	212.7	182.3	150.7	126.3	105.1	86.6	12.4
33°	380.1	380.5	345.5	307.8	260.5	219.6	178.2	144.8	119.2	96.6	12.8
34°	510.5	479.9	438.8	387.7	323.3	261.8	208.0	166.2	132.0	106.3	12.8
35°	645.9	615.0	569.8	492.4	404.1	318.0	243.6	189.2	147.3	116.7	12.8
36°	797.5	771.4	703.0	604.2	491.5	371.1	281.3	215.7	162.4	126.1	12.6
37°	961.3	923.0	847.2	739.4	588.5	445.7	327.2	242.0	177.6	136.3	12.2
38°	1127.7	1093.1	997.5	866.8	704.4	524.5	373.2	267.3	191.5	144.0	11.6
39°	1253.8	1234.9	1140.1	994.1	796.9	599.1	420.6	294.4	206.2	151.6	11.0
40°	1401.9	1371.5	1281.5	1101.0	906.3	675.1	466.9	318.4	218.4	157.7	10.4
41°	1537.0	1498.5	1385.0	1210.6	993.9	743.5	510.9	343.2	228.2	161.3	10.0
42°	1652.9	1608.2	1489.5	1304.5	1067.2	798.1	546.1	360.8	237.5	164.2	9.4
43°	1728.0	1689.3	1572.6	1375.0	1129.9	848.2	578.9	379.3	243.2	166.2	8.6
44°	1764.5	1725.4	1612.5	1419.2	1168.4	878.2	600.1	392.1	249.5	168.7	8.1
45°	1752.7	1713.0	1603.8	1420.0	1180.3	889.0	609.1	397.8	252.8	171.1	7.3
46°	1698.7	1670.8	1560.8	1383.0	1157.5	877.4	604.0	393.4	251.6	171.1	6.5
47°	1622.9	1591.1	1486.4	1319.6	1102.4	847.6	583.4	380.3	244.4	167.2	5.7
48°	1519.6	1492.5	1382.5	1218.8	1017.7	782.6	536.8	358.9	233.0	159.5	4.9
49°	1389.9	1352.2	1249.9	1090.0	907.3	690.2	475.7	322.7	214.7	148.7	4.3
50°	1249.3	1202.7	1123.8	960.9	793.2	591.8	395.4	272.8	189.0	134.6	3.9
51°	1111.6	1064.2	989.0	850.5	671.4	491.1	319.0	217.8	155.6	115.1	3.3
52°	968.8	929.1	844.8	736.0	574.7	398.0	265.8	184.2	129.2	96.6	2.7
53°	826.6	799.5	719.3	609.1	461.8	325.1	217.1	157.7	112.7	82.7	2.2
54°	684.2	654.5	593.6	495.4	372.2	256.5	184.1	132.0	97.8	72.1	2.0
55°	535.1	519.7	463.6	377.7	282.1	204.7	149.3	113.5	81.9	60.3	1.6
56°	412.1	394.8	343.6	274.0	209.6	160.3	120.8	92.7	69.3	50.5	1.2
57°	269.9	252.2	218.2	191.3	152.6	116.9	92.3	73.1	56.4	41.8	1.0
58°	159.5	143.4	138.1	117.9	101.7	79.4	68.2	54.4	41.6	33.0	0.6
59°	73.3	74.4	66.2	62.1	56.4	50.5	41.4	36.3	28.5	23.8	0.4
60°	42.6	40.3	39.3	35.2	31.2	27.7	24.9	22.0	17.9	15.3	0.2
62.5°	14.5	13.9	14.3	13.0	12.2	11.8	10.8	9.2	7.7	6.3	0.0
65°	3.9	3.9	3.7	3.5	3.3	3.1	2.9	2.6	2.4	2.0	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°	1.4	1.4	1.2	1.2	1.0	1.0	0.8	0.8	0.6	0.6	0.0
70°	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2
75°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	18.1	17.3	16.3	15.7	15.5	15.3
5°	17.3	15.7	14.5	13.7	13.6	13.6
7.5°	15.5	13.7	12.6	12.2	12.0	12.0
10°	13.6	12.0	11.0	10.6	10.8	10.8
12.5°	11.4	10.0	9.6	9.6	9.8	10.0
15°	9.2	8.4	8.4	8.6	9.0	9.2
17.5°	7.7	7.3	7.5	7.9	8.2	8.6
20°	6.3	6.3	6.7	7.3	7.9	8.2
22.5°	5.3	5.5	6.1	6.7	7.5	7.9
25°	4.5	4.9	5.5	6.5	7.3	7.5
27.5°	3.9	4.5	5.3	6.3	7.1	7.5
30°	3.3	4.1	5.1	6.1	7.1	7.5
31°	3.1	3.9	4.9	6.1	7.1	7.5
32°	2.9	3.9	4.9	6.1	7.1	7.5
33°	2.7	3.7	4.9	5.9	7.1	7.5
34°	2.6	3.7	4.9	6.1	7.1	7.5
35°	2.4	3.5	4.7	5.9	6.9	7.5
36°	2.2	3.5	4.7	5.9	7.1	7.5
37°	2.0	3.5	4.7	5.9	6.9	7.5
38°	2.0	3.3	4.5	5.9	6.9	7.5
39°	1.8	3.1	4.5	5.9	6.9	7.5
40°	1.6	3.1	4.3	5.7	6.9	7.5
41°	1.4	2.9	4.3	5.7	6.9	7.5
42°	1.2	2.9	4.3	5.7	6.9	7.5
43°	1.0	2.7	4.1	5.7	6.9	7.5
44°	1.0	2.7	4.1	5.7	6.9	7.5
45°	0.8	2.6	3.9	5.7	6.9	7.5
46°	0.8	2.6	3.9	5.5	6.9	7.5
47°	0.6	2.6	3.9	5.5	6.9	7.5
48°	0.6	2.4	3.9	5.5	6.9	7.5
49°	0.4	2.4	3.9	5.5	6.9	7.5
50°	0.4	2.4	3.7	5.5	6.9	7.5
51°	0.4	2.4	3.7	5.5	6.9	7.5
52°	0.4	2.2	3.7	5.5	6.9	7.5
53°	0.4	2.2	3.7	5.5	6.9	7.5
54°	0.4	2.2	3.5	5.5	6.9	7.5
55°	0.4	2.0	3.5	5.3	6.9	7.3
56°	0.4	2.0	3.5	5.3	6.9	7.3
57°	0.4	2.0	3.3	5.3	6.9	7.3
58°	0.4	1.8	3.3	5.1	6.7	7.3
59°	0.4	1.8	3.1	5.1	6.7	7.1
60°	0.4	1.6	3.1	4.9	6.5	7.1
62.5°	0.4	1.4	2.7	4.7	6.3	6.7
65°	0.4	1.2	2.6	4.3	6.1	6.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.2	2.4	4.1	5.7	6.3
70°	0.4	1.2	2.2	3.7	5.5	5.7
72.5°	0.6	1.2	2.0	3.5	5.1	5.3
75°	0.8	1.2	1.8	3.1	4.7	4.9
77.5°	0.8	1.2	1.6	2.7	4.1	4.3
80°	0.8	1.0	1.4	2.2	3.3	3.5
82.5°	0.8	1.0	1.0	1.8	2.6	2.7
85°	0.6	0.8	0.8	1.0	1.8	2.0
87.5°	0.6	0.8	0.4	0.6	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)