

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: P1343674

Luminaire Tested: P3A13R15B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343674
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: P3A13R15B2750DE010 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

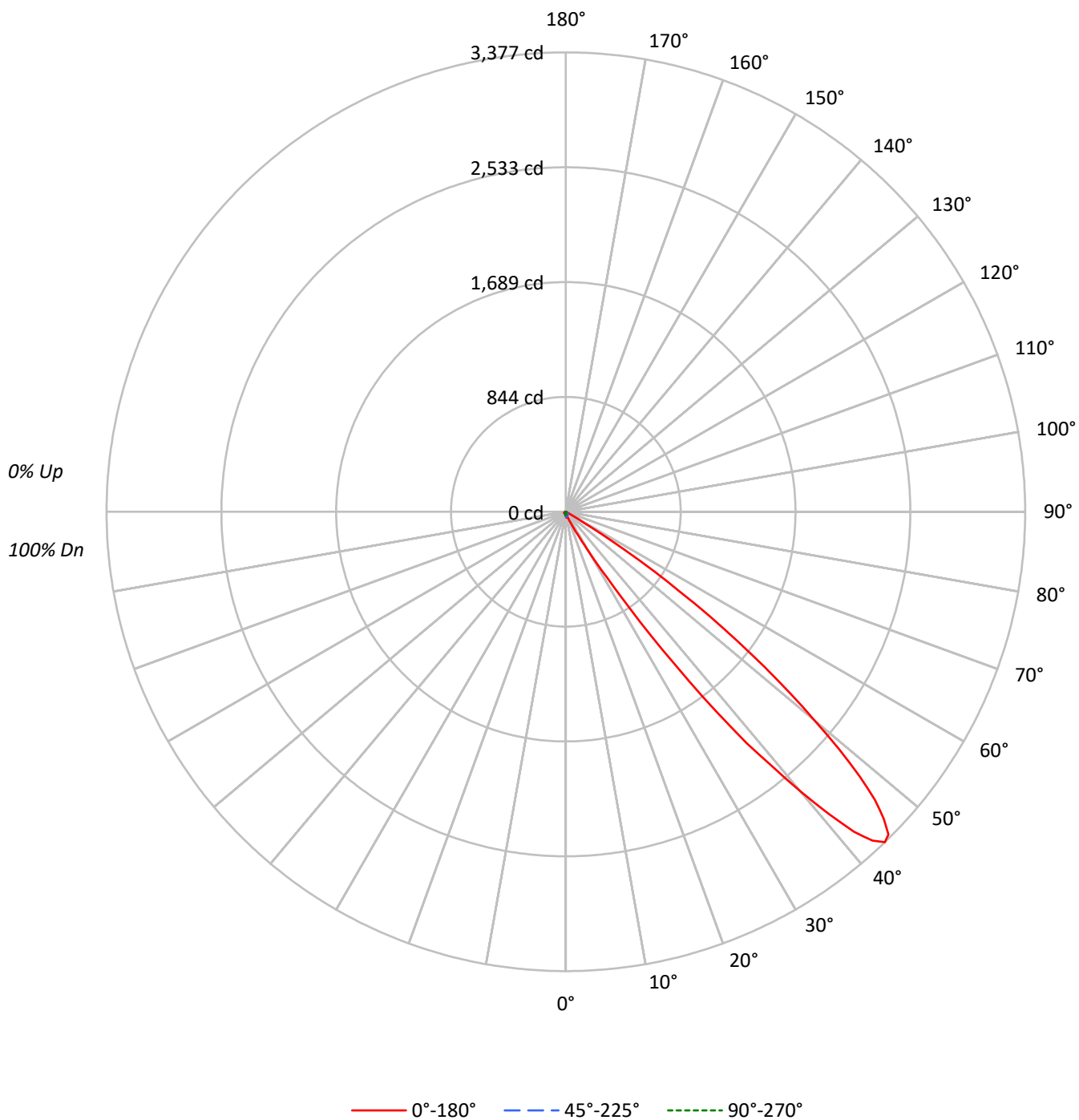
Lumens per Lamp: N/A
Luminaire Lumens: 377.0 lumens
Efficiency: N/A
Efficacy: 19.7 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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	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	100	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°	7346	7346	7346	7346	7346
5°	9091	8100	6626	5789	5701
10°	8951	6947	5099	4520	4609
15°	7423	4949	3678	3746	4018
20°	12904	3944	2800	3244	3687
25°	28744	4718	2274	3000	3460
30°	85937	5798	2000	2962	3621
35°	330868	6532	1820	3025	3828
40°	767953	5696	1718	3120	4093
45°	1040170	4311	1520	3380	4435
50°	815598	2559	1535	3582	4878
55°	391479	1147	1453	3861	5314
60°	35787	175	1316	4122	5921
65°	3891	0	1193	4307	6434
70°	962	0	1475	4552	6988
75°	932	339	1949	5083	7964
80°	1010	1010	2399	5177	8587
85°	1006	1006	3774	4780	9561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1040170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.8
10°-20°	5.9	1.6
20°-30°	14.2	3.8
30°-40°	78.0	20.7
40°-50°	188.8	50.1
50°-60°	75.3	20.0
60°-70°	6.5	1.7
70°-80°	3.7	1.0
80°-90°	1.6	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°	23.0	6.1
0°-40°	101.0	26.8
0°-60°	365.2	96.9
0°-90°	377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	41	37	30	26	26	4
15°	33	22	16	16	18	11
25°	119	20	9	12	14	72
35°	1236	24	7	11	14	873
45°	3354	14	5	11	14	2366
55°	1024	3	4	10	14	954
65°	8	0	2	8	12	19
75°	1	0	2	6	9	1
85°	0	0	2	2	4	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°	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
2.5°	37.6	37.6	38.0	37.6	37.6	37.6	37.6	37.2	37.2	37.2	36.1
5°	41.3	41.3	41.3	41.3	41.0	41.0	41.0	40.6	40.6	40.2	36.8
7.5°	42.9	42.9	42.5	42.5	42.1	42.1	41.7	41.3	41.0	40.6	35.3
10°	40.2	40.2	40.2	39.8	39.8	39.5	39.1	38.7	38.3	37.6	31.2
12.5°	35.7	35.7	36.1	35.7	35.3	35.0	34.2	33.8	33.5	32.7	25.9
15°	32.7	32.7	32.7	32.3	32.0	31.2	30.8	30.1	29.7	28.6	21.8
17.5°	41.7	41.7	41.3	40.6	39.1	38.0	36.1	34.6	32.7	30.4	18.8
20°	55.3	55.3	54.5	53.8	51.9	50.0	47.0	44.4	41.3	38.7	16.9
22.5°	80.1	81.2	78.9	76.3	73.7	69.2	65.0	60.9	55.6	51.1	17.3
25°	118.8	119.9	118.8	112.8	107.9	101.9	94.0	85.7	76.7	68.4	19.5
27.5°	192.5	193.2	191.3	176.7	168.8	153.0	139.1	125.6	110.5	95.5	21.4
30°	339.4	339.8	327.8	298.5	272.5	237.9	208.6	180.4	156.8	132.7	22.9
31°	447.0	436.4	410.9	375.5	334.2	287.6	247.3	210.9	175.5	149.6	23.3
32°	567.6	566.1	523.6	462.4	407.1	348.8	288.3	241.7	201.1	165.8	23.7
33°	727.4	728.1	661.2	589.0	498.4	420.3	340.9	277.0	228.2	184.9	24.4
34°	977.0	918.3	839.8	742.0	618.7	501.1	398.1	318.0	252.6	203.4	24.4
35°	1236.0	1177.0	1090.5	942.4	773.2	608.6	466.1	362.0	281.9	223.3	24.4
36°	1526.2	1476.2	1345.4	1156.3	940.5	710.1	538.3	412.7	310.9	241.3	24.1
37°	1839.7	1766.4	1621.3	1414.9	1126.2	852.9	626.3	463.1	339.8	260.9	23.3
38°	2158.1	2091.9	1908.8	1658.9	1348.0	1003.7	714.2	511.6	366.5	275.5	22.2
39°	2399.4	2363.3	2181.7	1902.5	1525.0	1146.5	804.8	563.5	394.7	290.2	21.1
40°	2682.8	2624.6	2452.4	2106.9	1734.4	1292.0	893.5	609.3	418.0	301.9	19.9
41°	2941.5	2867.8	2650.5	2316.7	1902.1	1422.8	977.7	656.7	436.8	308.6	19.2
42°	3163.2	3077.5	2850.5	2496.4	2042.3	1527.3	1045.0	690.5	454.5	314.3	18.0
43°	3306.8	3232.8	3009.5	2631.3	2162.2	1623.2	1107.8	725.9	465.4	318.0	16.5
44°	3376.7	3301.9	3085.8	2715.9	2235.9	1680.7	1148.4	750.3	477.4	322.9	15.4
45°	3354.2	3278.3	3069.3	2717.4	2258.8	1701.3	1165.7	761.2	483.8	327.4	13.9
46°	3250.8	3197.4	2986.9	2646.7	2215.2	1679.2	1155.9	752.9	481.5	327.4	12.4
47°	3105.7	3044.8	2844.5	2525.3	2109.6	1622.0	1116.4	727.8	467.6	319.9	10.9
48°	2908.0	2856.1	2645.6	2332.5	1947.6	1497.6	1027.3	686.8	445.8	305.2	9.4
49°	2659.9	2587.7	2391.9	2085.9	1736.3	1320.9	910.4	617.6	410.9	284.6	8.3
50°	2390.8	2301.7	2150.5	1838.9	1517.9	1132.6	756.7	522.1	361.6	257.5	7.5
51°	2127.2	2036.7	1892.7	1627.7	1284.8	939.8	610.5	416.9	297.7	220.3	6.4
52°	1854.0	1778.0	1616.8	1408.5	1099.9	761.6	508.6	352.6	247.3	184.9	5.3
53°	1581.8	1529.9	1376.6	1165.7	883.8	622.1	415.4	301.9	215.8	158.3	4.1
54°	1309.3	1252.5	1136.0	948.0	712.3	490.9	352.2	252.6	187.2	138.0	3.8
55°	1024.0	994.6	887.1	722.9	539.8	391.7	285.7	217.3	156.8	115.4	3.0
56°	788.6	755.6	657.5	524.4	401.1	306.7	231.2	177.4	132.7	96.6	2.3
57°	516.5	482.7	417.6	366.1	292.1	223.7	176.7	139.8	107.9	80.1	1.9
58°	305.2	274.4	264.3	225.5	194.7	151.9	130.4	104.1	79.7	63.2	1.1
59°	140.2	142.5	126.7	118.8	107.9	96.6	79.3	69.5	54.5	45.5	0.8
60°	81.6	77.1	75.2	67.3	59.8	53.0	47.7	42.1	34.2	29.3	0.4
62.5°	27.8	26.7	27.4	24.8	23.3	22.6	20.7	17.7	14.7	12.0	0.0
65°	7.5	7.5	7.1	6.8	6.4	6.0	5.6	4.9	4.5	3.8	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°	2.6	2.6	2.3	2.3	1.9	1.9	1.5	1.5	1.1	1.1	0.0
70°	1.5	1.5	1.5	1.1	1.1	1.1	0.8	0.8	0.8	0.4	0.0
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.4	0.4
75°	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	33.5	33.5	33.5	33.5	33.5	33.5
2.5°	34.6	33.1	31.2	30.1	29.7	29.3
5°	33.1	30.1	27.8	26.3	25.9	25.9
7.5°	29.7	26.3	24.1	23.3	22.9	22.9
10°	25.9	22.9	21.1	20.3	20.7	20.7
12.5°	21.8	19.2	18.4	18.4	18.8	19.2
15°	17.7	16.2	16.2	16.5	17.3	17.7
17.5°	14.7	13.9	14.3	15.0	15.8	16.5
20°	12.0	12.0	12.8	13.9	15.0	15.8
22.5°	10.1	10.5	11.7	12.8	14.3	15.0
25°	8.6	9.4	10.5	12.4	13.9	14.3
27.5°	7.5	8.6	10.1	12.0	13.5	14.3
30°	6.4	7.9	9.8	11.7	13.5	14.3
31°	6.0	7.5	9.4	11.7	13.5	14.3
32°	5.6	7.5	9.4	11.7	13.5	14.3
33°	5.3	7.1	9.4	11.3	13.5	14.3
34°	4.9	7.1	9.4	11.7	13.5	14.3
35°	4.5	6.8	9.0	11.3	13.2	14.3
36°	4.1	6.8	9.0	11.3	13.5	14.3
37°	3.8	6.8	9.0	11.3	13.2	14.3
38°	3.8	6.4	8.6	11.3	13.2	14.3
39°	3.4	6.0	8.6	11.3	13.2	14.3
40°	3.0	6.0	8.3	10.9	13.2	14.3
41°	2.6	5.6	8.3	10.9	13.2	14.3
42°	2.3	5.6	8.3	10.9	13.2	14.3
43°	1.9	5.3	7.9	10.9	13.2	14.3
44°	1.9	5.3	7.9	10.9	13.2	14.3
45°	1.5	4.9	7.5	10.9	13.2	14.3
46°	1.5	4.9	7.5	10.5	13.2	14.3
47°	1.1	4.9	7.5	10.5	13.2	14.3
48°	1.1	4.5	7.5	10.5	13.2	14.3
49°	0.8	4.5	7.5	10.5	13.2	14.3
50°	0.8	4.5	7.1	10.5	13.2	14.3
51°	0.8	4.5	7.1	10.5	13.2	14.3
52°	0.8	4.1	7.1	10.5	13.2	14.3
53°	0.8	4.1	7.1	10.5	13.2	14.3
54°	0.8	4.1	6.8	10.5	13.2	14.3
55°	0.8	3.8	6.8	10.1	13.2	13.9
56°	0.8	3.8	6.8	10.1	13.2	13.9
57°	0.8	3.8	6.4	10.1	13.2	13.9
58°	0.8	3.4	6.4	9.8	12.8	13.9
59°	0.8	3.4	6.0	9.8	12.8	13.5
60°	0.8	3.0	6.0	9.4	12.4	13.5
62.5°	0.8	2.6	5.3	9.0	12.0	12.8
65°	0.8	2.3	4.9	8.3	11.7	12.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.3	4.5	7.9	10.9	12.0
70°	0.8	2.3	4.1	7.1	10.5	10.9
72.5°	1.1	2.3	3.8	6.8	9.8	10.1
75°	1.5	2.3	3.4	6.0	9.0	9.4
77.5°	1.5	2.3	3.0	5.3	7.9	8.3
80°	1.5	1.9	2.6	4.1	6.4	6.8
82.5°	1.5	1.9	1.9	3.4	4.9	5.3
85°	1.1	1.5	1.5	1.9	3.4	3.8
87.5°	1.1	1.5	0.8	1.1	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)