

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: P1343678

Luminaire Tested: P3A13R15B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343678
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_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

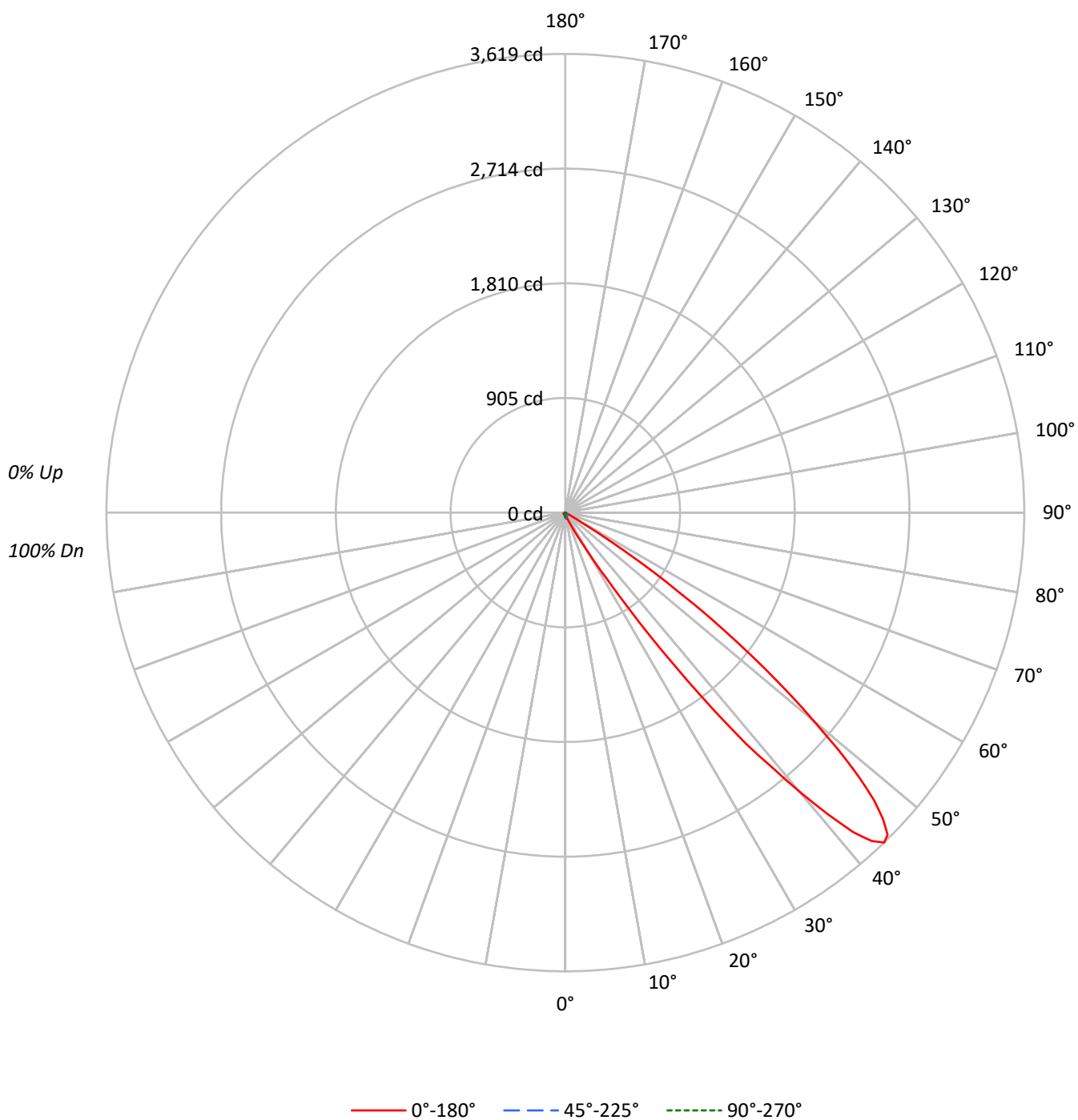
Lumens per Lamp: N/A
Luminaire Lumens: 404.0 lumens
Efficiency: N/A
Efficacy: 21.2 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	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	53	53	53	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	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	47	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	31	26	37	31	26	26	26	24
9	52	37	28	22	50	37	28	22	35	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	23	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7872	7872	7872	7872	7872
5°	9751	8695	7088	6207	6119
10°	9597	7437	5478	4854	4943
15°	7946	5312	3927	4018	4291
20°	13815	4224	3010	3477	3944
25°	30800	5057	2444	3218	3702
30°	92115	6229	2152	3165	3874
35°	354558	7014	1954	3239	4096
40°	822970	6097	1832	3349	4380
45°	1114658	4621	1613	3628	4745
50°	874001	2763	1637	3855	5219
55°	419502	1223	1529	4167	5696
60°	38330	175	1403	4429	6359
65°	4203	0	1245	4618	6901
70°	1026	0	1539	4937	7501
75°	1017	339	2033	5422	8557
80°	1010	1010	2526	5556	9218
85°	1006	1006	4026	5032	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1114658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.8
10°-20°	6.4	1.6
20°-30°	15.3	3.8
30°-40°	83.6	20.7
40°-50°	202.4	50.1
50°-60°	80.7	20.0
60°-70°	7.0	1.7
70°-80°	3.9	1.0
80°-90°	1.7	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°	24.7	6.1
0°-40°	108.3	26.8
0°-60°	391.4	96.9
0°-90°	404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	44	40	32	28	28	4
15°	35	23	17	18	19	12
25°	127	21	10	13	15	77
35°	1324	26	7	12	15	936
45°	3594	15	5	12	15	2536
55°	1097	3	4	11	15	1022
65°	8	0	2	9	13	21
75°	1	0	2	6	10	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°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	40.3	40.3	40.7	40.3	40.3	40.3	40.3	39.9	39.9	39.9	38.7
5°	44.3	44.3	44.3	44.3	43.9	43.9	43.9	43.5	43.5	43.1	39.5
7.5°	45.9	45.9	45.5	45.5	45.1	45.1	44.7	44.3	43.9	43.5	37.9
10°	43.1	43.1	43.1	42.7	42.7	42.3	41.9	41.5	41.1	40.3	33.4
12.5°	38.3	38.3	38.7	38.3	37.9	37.5	36.7	36.3	35.9	35.0	27.8
15°	35.0	35.0	35.0	34.6	34.2	33.4	33.0	32.2	31.8	30.6	23.4
17.5°	44.7	44.7	44.3	43.5	41.9	40.7	38.7	37.1	35.0	32.6	20.1
20°	59.2	59.2	58.4	57.6	55.6	53.6	50.4	47.5	44.3	41.5	18.1
22.5°	85.8	87.0	84.6	81.8	79.0	74.1	69.7	65.3	59.6	54.8	18.5
25°	127.3	128.5	127.3	120.8	115.6	109.2	100.7	91.8	82.2	73.3	20.9
27.5°	206.2	207.1	205.0	189.3	180.9	164.0	149.0	134.5	118.4	102.3	23.0
30°	363.8	364.2	351.3	319.8	292.0	255.0	223.6	193.4	168.0	142.2	24.6
31°	479.0	467.7	440.3	402.4	358.1	308.2	265.1	226.0	188.1	160.3	25.0
32°	608.3	606.7	561.1	495.5	436.3	373.8	309.0	259.0	215.5	177.6	25.4
33°	779.5	780.3	708.6	631.2	534.1	450.4	365.4	296.9	244.5	198.2	26.2
34°	1046.9	984.1	899.9	795.2	663.1	537.0	426.6	340.8	270.7	217.9	26.2
35°	1324.5	1261.2	1168.6	1009.9	828.6	652.2	499.5	387.9	302.1	239.3	26.2
36°	1635.5	1581.9	1441.7	1239.1	1007.9	760.9	576.8	442.3	333.1	258.6	25.8
37°	1971.4	1892.9	1737.4	1516.2	1206.9	914.0	671.1	496.3	364.2	279.6	25.0
38°	2312.6	2241.7	2045.6	1777.7	1444.5	1075.5	765.4	548.2	392.8	295.3	23.8
39°	2571.2	2532.6	2338.0	2038.7	1634.3	1228.6	862.5	603.8	423.0	311.0	22.6
40°	2875.0	2812.5	2628.0	2257.8	1858.6	1384.5	957.5	653.0	447.9	323.5	21.3
41°	3152.1	3073.2	2840.3	2482.6	2038.3	1524.7	1047.8	703.7	468.1	330.7	20.5
42°	3389.8	3297.9	3054.6	2675.2	2188.6	1636.7	1119.9	740.0	487.0	336.8	19.3
43°	3543.7	3464.3	3225.0	2819.8	2317.1	1739.4	1187.1	777.9	498.7	340.8	17.7
44°	3618.6	3538.4	3306.8	2910.4	2396.0	1801.0	1230.6	804.0	511.6	346.0	16.5
45°	3594.4	3513.0	3289.1	2912.0	2420.6	1823.2	1249.2	815.7	518.4	350.9	14.9
46°	3483.6	3426.4	3200.9	2836.3	2373.9	1799.4	1238.7	806.9	516.0	350.9	13.3
47°	3328.1	3262.9	3048.2	2706.2	2260.7	1738.2	1196.4	779.9	501.1	342.8	11.7
48°	3116.3	3060.7	2835.1	2499.5	2087.0	1604.9	1100.9	736.0	477.8	327.1	10.1
49°	2850.4	2773.1	2563.2	2235.3	1860.7	1415.5	975.6	661.8	440.3	304.9	8.9
50°	2562.0	2466.5	2304.6	1970.6	1626.6	1213.7	810.9	559.5	387.5	275.9	8.1
51°	2279.6	2182.5	2028.2	1744.2	1376.9	1007.1	654.2	446.7	319.0	236.1	6.8
52°	1986.7	1905.4	1732.6	1509.4	1178.7	816.1	545.0	377.9	265.1	198.2	5.6
53°	1695.1	1639.5	1475.1	1249.2	947.0	666.7	445.1	323.5	231.2	169.6	4.4
54°	1403.0	1342.2	1217.3	1015.9	763.4	526.1	377.4	270.7	200.6	147.8	4.0
55°	1097.3	1065.9	950.7	774.6	578.5	419.7	306.1	232.8	168.0	123.7	3.2
56°	845.1	809.7	704.5	561.9	429.8	328.7	247.7	190.1	142.2	103.5	2.4
57°	553.5	517.2	447.5	392.4	313.0	239.7	189.3	149.9	115.6	85.8	2.0
58°	327.1	294.1	283.2	241.7	208.7	162.7	139.8	111.6	85.4	67.7	1.2
59°	150.3	152.7	135.8	127.3	115.6	103.5	85.0	74.5	58.4	48.7	0.8
60°	87.4	82.6	80.6	72.1	64.0	56.8	51.2	45.1	36.7	31.4	0.4
62.5°	29.8	28.6	29.4	26.6	25.0	24.2	22.2	18.9	15.7	12.9	0.0
65°	8.1	8.1	7.7	7.3	6.8	6.4	6.0	5.2	4.8	4.0	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°	2.8	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.2	1.2	0.0
70°	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4
75°	1.2	1.2	1.2	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°	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	37.1	35.4	33.4	32.2	31.8	31.4
5°	35.4	32.2	29.8	28.2	27.8	27.8
7.5°	31.8	28.2	25.8	25.0	24.6	24.6
10°	27.8	24.6	22.6	21.8	22.2	22.2
12.5°	23.4	20.5	19.7	19.7	20.1	20.5
15°	18.9	17.3	17.3	17.7	18.5	18.9
17.5°	15.7	14.9	15.3	16.1	16.9	17.7
20°	12.9	12.9	13.7	14.9	16.1	16.9
22.5°	10.9	11.3	12.5	13.7	15.3	16.1
25°	9.3	10.1	11.3	13.3	14.9	15.3
27.5°	8.1	9.3	10.9	12.9	14.5	15.3
30°	6.8	8.5	10.5	12.5	14.5	15.3
31°	6.4	8.1	10.1	12.5	14.5	15.3
32°	6.0	8.1	10.1	12.5	14.5	15.3
33°	5.6	7.7	10.1	12.1	14.5	15.3
34°	5.2	7.7	10.1	12.5	14.5	15.3
35°	4.8	7.3	9.7	12.1	14.1	15.3
36°	4.4	7.3	9.7	12.1	14.5	15.3
37°	4.0	7.3	9.7	12.1	14.1	15.3
38°	4.0	6.8	9.3	12.1	14.1	15.3
39°	3.6	6.4	9.3	12.1	14.1	15.3
40°	3.2	6.4	8.9	11.7	14.1	15.3
41°	2.8	6.0	8.9	11.7	14.1	15.3
42°	2.4	6.0	8.9	11.7	14.1	15.3
43°	2.0	5.6	8.5	11.7	14.1	15.3
44°	2.0	5.6	8.5	11.7	14.1	15.3
45°	1.6	5.2	8.1	11.7	14.1	15.3
46°	1.6	5.2	8.1	11.3	14.1	15.3
47°	1.2	5.2	8.1	11.3	14.1	15.3
48°	1.2	4.8	8.1	11.3	14.1	15.3
49°	0.8	4.8	8.1	11.3	14.1	15.3
50°	0.8	4.8	7.7	11.3	14.1	15.3
51°	0.8	4.8	7.7	11.3	14.1	15.3
52°	0.8	4.4	7.7	11.3	14.1	15.3
53°	0.8	4.4	7.7	11.3	14.1	15.3
54°	0.8	4.4	7.3	11.3	14.1	15.3
55°	0.8	4.0	7.3	10.9	14.1	14.9
56°	0.8	4.0	7.3	10.9	14.1	14.9
57°	0.8	4.0	6.8	10.9	14.1	14.9
58°	0.8	3.6	6.8	10.5	13.7	14.9
59°	0.8	3.6	6.4	10.5	13.7	14.5
60°	0.8	3.2	6.4	10.1	13.3	14.5
62.5°	0.8	2.8	5.6	9.7	12.9	13.7
65°	0.8	2.4	5.2	8.9	12.5	13.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.4	4.8	8.5	11.7	12.9
70°	0.8	2.4	4.4	7.7	11.3	11.7
72.5°	1.2	2.4	4.0	7.3	10.5	10.9
75°	1.6	2.4	3.6	6.4	9.7	10.1
77.5°	1.6	2.4	3.2	5.6	8.5	8.9
80°	1.6	2.0	2.8	4.4	6.8	7.3
82.5°	1.6	2.0	2.0	3.6	5.2	5.6
85°	1.2	1.6	1.6	2.0	3.6	4.0
87.5°	1.2	1.6	0.8	1.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)