

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: P1343846

Luminaire Tested: P3A13R15W2N902765DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343846
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: P3A13R15W2N902765DE010 E3A451WMH_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

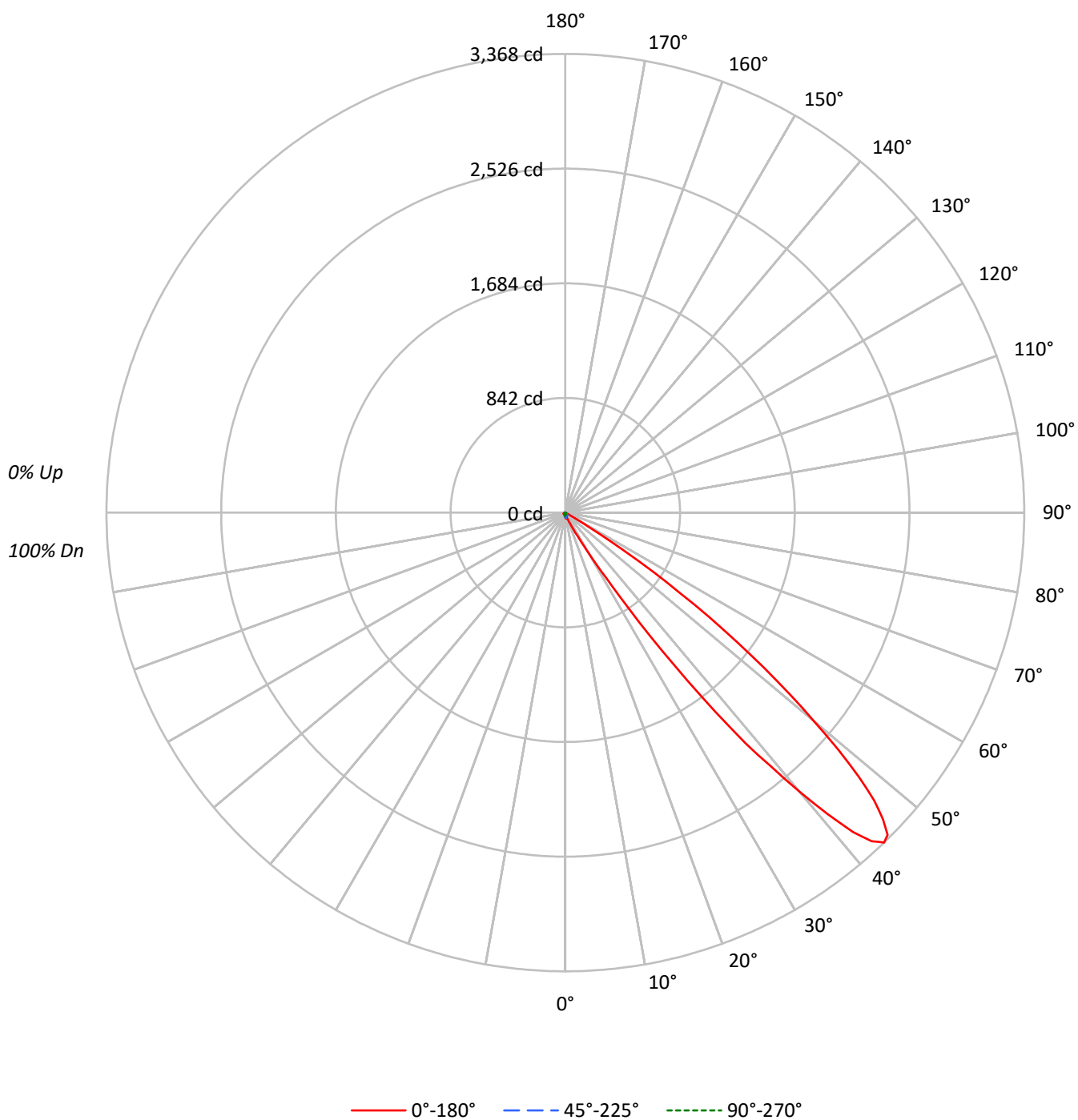
Lumens per Lamp: N/A
Luminaire Lumens: 375.9 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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	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	55	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°	7324	7324	7324	7324	7324
5°	9069	8078	6604	5767	5701
10°	8929	6925	5099	4498	4587
15°	7401	4926	3655	3746	3995
20°	12858	3944	2800	3244	3664
25°	28671	4718	2274	3000	3436
30°	85709	5798	2000	2937	3595
35°	329984	6532	1794	2998	3801
40°	765921	5696	1718	3120	4065
45°	1037410	4311	1520	3380	4404
50°	813415	2559	1535	3582	4844
55°	390409	1147	1415	3861	5314
60°	35699	175	1316	4122	5921
65°	3891	0	1141	4255	6434
70°	962	0	1410	4552	6988
75°	932	339	1864	5083	7964
80°	884	884	2399	5177	8461
85°	1006	1006	3774	4780	9309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1037410 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.8
10°-20°	5.9	1.6
20°-30°	14.2	3.8
30°-40°	77.8	20.7
40°-50°	188.3	50.1
50°-60°	75.1	20.0
60°-70°	6.5	1.7
70°-80°	3.6	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°	100.7	26.8
0°-60°	364.2	96.9
0°-90°	375.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	375.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	41	37	30	26	26	4
15°	33	22	16	16	18	11
25°	118	20	9	12	14	71
35°	1233	24	7	11	14	871
45°	3345	14	5	11	14	2360
55°	1021	3	4	10	14	951
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°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
2.5°	37.5	37.5	37.9	37.5	37.5	37.5	37.5	37.1	37.1	37.1	36.0
5°	41.2	41.2	41.2	41.2	40.9	40.9	40.9	40.5	40.5	40.1	36.7
7.5°	42.7	42.7	42.4	42.4	42.0	42.0	41.6	41.2	40.9	40.5	35.2
10°	40.1	40.1	40.1	39.7	39.7	39.4	39.0	38.6	38.2	37.5	31.1
12.5°	35.6	35.6	36.0	35.6	35.2	34.9	34.1	33.7	33.4	32.6	25.9
15°	32.6	32.6	32.6	32.2	31.9	31.1	30.7	30.0	29.6	28.5	21.7
17.5°	41.6	41.6	41.2	40.5	39.0	37.9	36.0	34.5	32.6	30.4	18.7
20°	55.1	55.1	54.4	53.6	51.7	49.9	46.9	44.2	41.2	38.6	16.9
22.5°	79.9	81.0	78.7	76.1	73.5	69.0	64.9	60.7	55.5	51.0	17.2
25°	118.5	119.6	118.5	112.5	107.6	101.6	93.7	85.5	76.5	68.2	19.5
27.5°	192.0	192.7	190.8	176.2	168.3	152.6	138.7	125.2	110.2	95.2	21.4
30°	338.5	338.9	326.9	297.7	271.8	237.3	208.1	180.0	156.3	132.3	22.9
31°	445.8	435.3	409.8	374.5	333.3	286.8	246.7	210.3	175.1	149.2	23.2
32°	566.1	564.6	522.2	461.1	406.0	347.9	287.6	241.1	200.6	165.3	23.6
33°	725.4	726.2	659.5	587.5	497.1	419.1	340.0	276.3	227.6	184.5	24.4
34°	974.4	915.9	837.5	740.1	617.1	499.8	397.0	317.2	251.9	202.8	24.4
35°	1232.7	1173.8	1087.6	939.9	771.2	607.0	464.9	361.0	281.2	222.7	24.4
36°	1522.1	1472.3	1341.8	1153.2	938.0	708.2	536.9	411.6	310.0	240.7	24.0
37°	1834.8	1761.7	1617.0	1411.2	1123.2	850.7	624.6	461.9	338.9	260.2	23.2
38°	2152.3	2086.4	1903.8	1654.5	1344.4	1001.0	712.3	510.2	365.5	274.8	22.1
39°	2393.0	2357.0	2176.0	1897.4	1521.0	1143.5	802.7	562.0	393.7	289.4	21.0
40°	2675.7	2617.6	2445.9	2101.4	1729.8	1288.6	891.2	607.7	416.9	301.1	19.9
41°	2933.7	2860.2	2643.5	2310.6	1897.0	1419.0	975.1	655.0	435.6	307.8	19.1
42°	3154.8	3069.4	2842.9	2489.8	2036.9	1523.2	1042.2	688.7	453.3	313.4	18.0
43°	3298.1	3224.2	3001.5	2624.4	2156.5	1618.9	1104.9	723.9	464.1	317.2	16.5
44°	3367.8	3293.2	3077.6	2708.7	2229.9	1676.2	1145.3	748.3	476.1	322.0	15.4
45°	3345.3	3269.6	3061.1	2710.2	2252.8	1696.8	1162.6	759.2	482.5	326.5	13.9
46°	3242.2	3189.0	2979.0	2639.7	2209.3	1674.7	1152.8	750.9	480.3	326.5	12.4
47°	3097.5	3036.7	2836.9	2518.6	2104.0	1617.7	1113.5	725.8	466.4	319.0	10.9
48°	2900.3	2848.5	2638.6	2326.3	1942.4	1493.6	1024.6	685.0	444.6	304.4	9.4
49°	2652.8	2580.9	2385.5	2080.4	1731.7	1317.4	908.0	616.0	409.8	283.8	8.2
50°	2384.4	2295.6	2144.8	1834.0	1513.9	1129.6	754.7	520.7	360.7	256.8	7.5
51°	2121.6	2031.2	1887.7	1623.3	1281.4	937.3	608.8	415.8	296.9	219.7	6.4
52°	1849.0	1773.3	1612.5	1404.8	1097.0	759.6	507.2	351.7	246.7	184.5	5.2
53°	1577.6	1525.9	1372.9	1162.6	881.4	620.5	414.3	301.1	215.2	157.8	4.1
54°	1305.8	1249.2	1133.0	945.5	710.4	489.6	351.3	251.9	186.7	137.6	3.7
55°	1021.2	992.0	884.8	720.9	538.4	390.7	284.9	216.7	156.3	115.1	3.0
56°	786.6	753.6	655.7	523.0	400.0	305.9	230.6	177.0	132.3	96.4	2.2
57°	515.1	481.4	416.5	365.2	291.3	223.1	176.2	139.5	107.6	79.9	1.9
58°	304.4	273.7	263.6	224.9	194.2	151.5	130.1	103.8	79.5	63.0	1.1
59°	139.8	142.1	126.3	118.5	107.6	96.4	79.1	69.4	54.4	45.4	0.7
60°	81.4	76.9	75.0	67.1	59.6	52.9	47.6	42.0	34.1	29.2	0.4
62.5°	27.7	26.6	27.4	24.7	23.2	22.5	20.6	17.6	14.6	12.0	0.0
65°	7.5	7.5	7.1	6.7	6.4	6.0	5.6	4.9	4.5	3.7	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	2.2	2.2	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	0.7	0.7	0.7	0.4	0.0
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.4	0.4
75°	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
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°	33.4	33.4	33.4	33.4	33.4	33.4
2.5°	34.5	33.0	31.1	30.0	29.6	29.2
5°	33.0	30.0	27.7	26.2	25.9	25.9
7.5°	29.6	26.2	24.0	23.2	22.9	22.9
10°	25.9	22.9	21.0	20.2	20.6	20.6
12.5°	21.7	19.1	18.4	18.4	18.7	19.1
15°	17.6	16.1	16.1	16.5	17.2	17.6
17.5°	14.6	13.9	14.2	15.0	15.7	16.5
20°	12.0	12.0	12.7	13.9	15.0	15.7
22.5°	10.1	10.5	11.6	12.7	14.2	15.0
25°	8.6	9.4	10.5	12.4	13.9	14.2
27.5°	7.5	8.6	10.1	12.0	13.5	14.2
30°	6.4	7.9	9.7	11.6	13.5	14.2
31°	6.0	7.5	9.4	11.6	13.5	14.2
32°	5.6	7.5	9.4	11.6	13.5	14.2
33°	5.2	7.1	9.4	11.2	13.5	14.2
34°	4.9	7.1	9.4	11.6	13.5	14.2
35°	4.5	6.7	9.0	11.2	13.1	14.2
36°	4.1	6.7	9.0	11.2	13.5	14.2
37°	3.7	6.7	9.0	11.2	13.1	14.2
38°	3.7	6.4	8.6	11.2	13.1	14.2
39°	3.4	6.0	8.6	11.2	13.1	14.2
40°	3.0	6.0	8.2	10.9	13.1	14.2
41°	2.6	5.6	8.2	10.9	13.1	14.2
42°	2.2	5.6	8.2	10.9	13.1	14.2
43°	1.9	5.2	7.9	10.9	13.1	14.2
44°	1.9	5.2	7.9	10.9	13.1	14.2
45°	1.5	4.9	7.5	10.9	13.1	14.2
46°	1.5	4.9	7.5	10.5	13.1	14.2
47°	1.1	4.9	7.5	10.5	13.1	14.2
48°	1.1	4.5	7.5	10.5	13.1	14.2
49°	0.7	4.5	7.5	10.5	13.1	14.2
50°	0.7	4.5	7.1	10.5	13.1	14.2
51°	0.7	4.5	7.1	10.5	13.1	14.2
52°	0.7	4.1	7.1	10.5	13.1	14.2
53°	0.7	4.1	7.1	10.5	13.1	14.2
54°	0.7	4.1	6.7	10.5	13.1	14.2
55°	0.7	3.7	6.7	10.1	13.1	13.9
56°	0.7	3.7	6.7	10.1	13.1	13.9
57°	0.7	3.7	6.4	10.1	13.1	13.9
58°	0.7	3.4	6.4	9.7	12.7	13.9
59°	0.7	3.4	6.0	9.7	12.7	13.5
60°	0.7	3.0	6.0	9.4	12.4	13.5
62.5°	0.7	2.6	5.2	9.0	12.0	12.7
65°	0.7	2.2	4.9	8.2	11.6	12.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	2.2	4.5	7.9	10.9	12.0
70°	0.7	2.2	4.1	7.1	10.5	10.9
72.5°	1.1	2.2	3.7	6.7	9.7	10.1
75°	1.5	2.2	3.4	6.0	9.0	9.4
77.5°	1.5	2.2	3.0	5.2	7.9	8.2
80°	1.5	1.9	2.6	4.1	6.4	6.7
82.5°	1.5	1.9	1.9	3.4	4.9	5.2
85°	1.1	1.5	1.5	1.9	3.4	3.7
87.5°	1.1	1.5	0.7	1.1	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)