

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: P1344845

Luminaire Tested: P3A13R25W2N902765DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R25W2N902765DE010 E3A451WMH_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

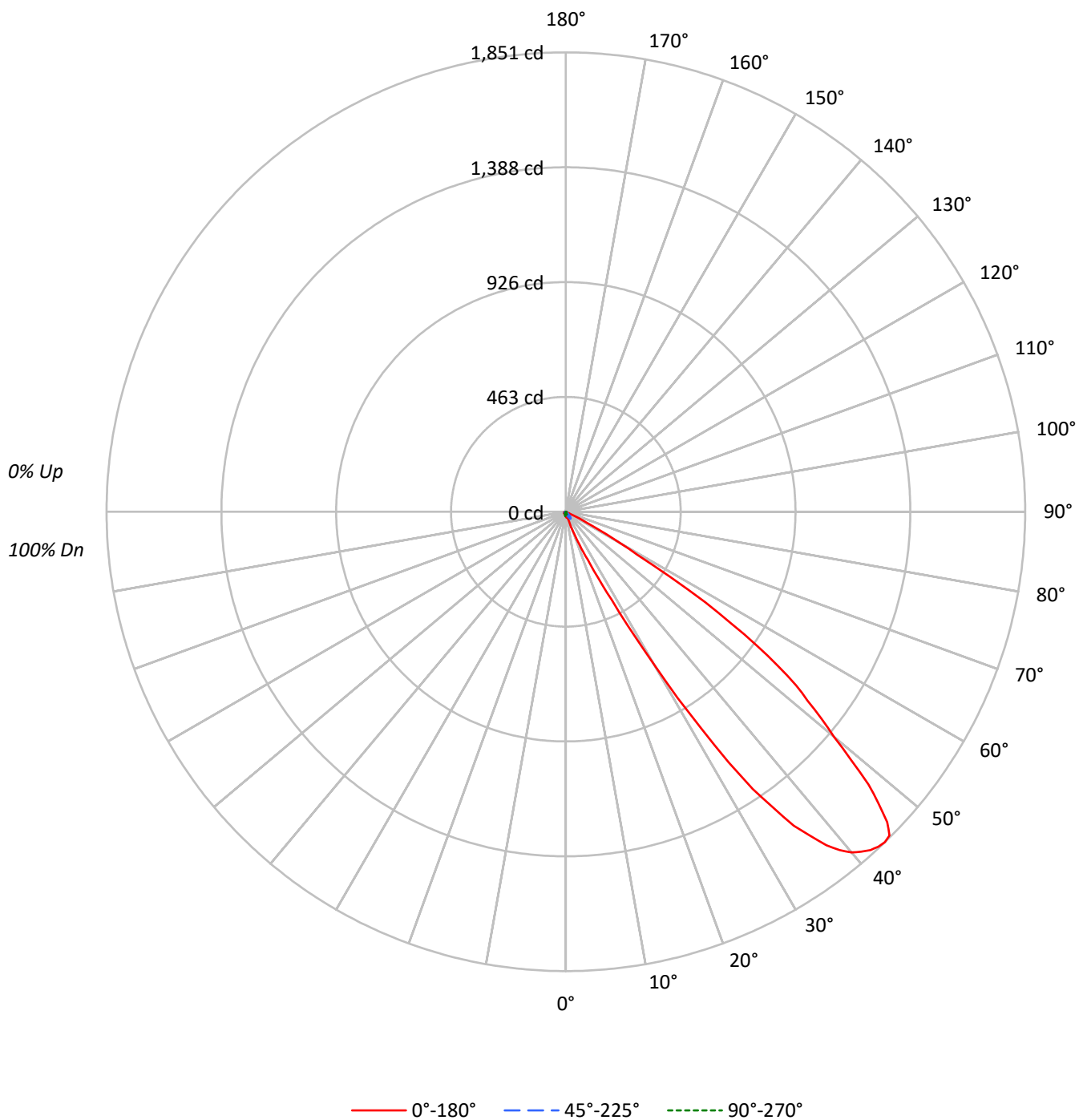
Lumens per Lamp: N/A
Luminaire Lumens: 386.0 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1344845

CATALOG NUMBER: P3A13R25W2N902765DE010 E3A451WMH_2700K

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	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4320	4320	4320	4320	4320
5°	4931	4711	4182	3742	3654
10°	4921	4453	3563	3095	3095
15°	5471	3859	2770	2611	2770
20°	19345	3804	2147	2217	2450
25°	55648	4839	1718	2057	2395
30°	177521	7495	1367	1975	2405
35°	388796	8807	1178	1901	2463
40°	512904	7986	973	1947	2634
45°	571966	5582	961	2109	2853
50°	481451	2900	921	2217	3138
55°	359978	1185	918	2485	3517
60°	111438	307	877	2675	3859
65°	9495	0	1038	2802	4255
70°	641	192	1090	3270	4809
75°	593	254	1440	3474	5507
80°	379	379	2147	3915	6440
85°	755	755	3522	4277	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 571966 cd/sqm

TEST NUMBER: P1344845

CATALOG NUMBER: P3A13R25W2N902765DE010 E3A451WMH_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	4.5	1.2
20°-30°	21.4	5.5
30°-40°	102.8	26.6
40°-50°	161.2	41.8
50°-60°	82.6	21.4
60°-70°	7.8	2.0
70°-80°	2.6	0.7
80°-90°	1.3	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°	27.7	7.2
0°-40°	130.5	33.8
0°-60°	374.3	97.0
0°-90°	386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	22	21	19	17	17	2
15°	24	17	12	12	12	10
25°	230	20	7	8	10	143
35°	1452	33	4	7	9	882
45°	1844	18	3	7	9	1350
55°	942	3	2	6	9	784
65°	18	0	2	5	8	57
75°	1	0	2	4	6	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1344845

CATALOG NUMBER: P3A13R25W2N902765DE010 E3A451WMH_2700K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.1	21.1	21.4	21.1	21.1
5°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.1	22.1	22.1	21.4
7.5°	22.8	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.1	22.1	21.1
10°	22.1	22.1	22.1	22.1	21.7	21.7	21.7	21.4	21.4	21.4	20.0
12.5°	22.1	22.1	22.1	22.1	21.7	21.7	21.4	21.4	21.1	20.7	18.3
15°	24.1	24.1	24.1	23.8	23.4	23.1	22.8	22.4	22.1	21.4	17.0
17.5°	35.3	34.3	34.0	32.6	30.9	29.2	27.9	26.5	25.1	24.1	16.3
20°	82.9	82.5	80.8	76.8	72.3	67.3	62.2	56.4	48.2	42.8	16.3
22.5°	143.7	141.6	138.6	135.5	127.7	118.5	109.0	98.2	87.6	76.4	17.3
25°	230.0	234.7	224.5	216.4	202.8	186.1	168.1	153.2	134.2	116.5	20.0
27.5°	399.8	402.8	382.8	356.3	324.7	289.7	255.8	230.3	198.4	169.2	25.1
30°	701.1	704.1	670.5	614.1	548.9	491.5	413.7	345.4	282.6	234.0	29.6
31°	875.0	851.2	812.2	757.5	674.9	588.3	494.9	412.4	332.9	269.0	30.9
32°	1026.1	1024.1	978.6	895.7	812.8	705.8	590.0	482.3	384.8	304.3	31.9
33°	1204.5	1190.9	1126.7	1048.6	938.9	831.2	681.7	558.8	438.2	343.7	32.6
34°	1347.5	1310.8	1284.3	1195.0	1079.1	941.9	781.9	639.6	504.8	381.8	32.9
35°	1452.4	1444.6	1393.0	1309.8	1191.9	1051.6	889.9	723.5	560.5	425.9	32.9
36°	1563.5	1539.4	1489.1	1413.7	1298.9	1153.9	972.5	796.2	625.3	465.7	32.6
37°	1633.1	1618.9	1568.9	1491.2	1378.7	1240.1	1064.9	873.0	677.0	505.4	31.9
38°	1704.8	1675.9	1626.7	1552.3	1441.9	1311.8	1131.8	932.1	724.5	540.4	30.9
39°	1754.4	1724.5	1674.2	1600.2	1492.2	1363.1	1184.8	982.3	766.0	566.6	29.6
40°	1791.8	1762.9	1711.9	1635.9	1529.2	1403.5	1228.9	1026.8	800.6	589.3	27.9
41°	1814.9	1788.0	1737.4	1661.7	1554.7	1426.6	1257.8	1055.7	824.0	604.6	26.2
42°	1834.2	1806.7	1755.1	1677.6	1570.3	1446.3	1275.5	1074.0	840.0	612.4	24.8
43°	1845.1	1817.6	1767.3	1688.2	1579.8	1455.5	1285.0	1082.5	845.4	611.4	22.4
44°	1851.2	1822.7	1772.1	1692.9	1583.9	1457.9	1285.7	1080.8	841.7	603.3	20.4
45°	1844.4	1816.2	1767.3	1688.2	1576.8	1450.4	1278.9	1071.7	827.4	587.3	18.0
46°	1800.3	1778.5	1733.7	1661.0	1554.3	1431.4	1261.5	1054.0	805.4	567.6	15.3
47°	1722.5	1705.1	1661.7	1607.7	1511.2	1396.4	1229.6	1020.4	774.4	538.0	12.2
48°	1641.3	1615.8	1575.4	1520.0	1438.5	1333.5	1177.0	971.1	727.6	499.3	10.9
49°	1521.4	1506.4	1470.8	1409.0	1341.4	1249.0	1102.6	907.9	670.2	457.2	9.5
50°	1411.3	1401.1	1351.2	1305.7	1234.0	1147.7	1001.7	824.7	598.8	404.9	8.5
51°	1325.4	1313.2	1277.2	1220.4	1144.0	1043.8	906.2	716.7	517.0	342.7	6.8
52°	1235.7	1228.9	1197.0	1138.6	1063.5	963.6	813.5	625.0	437.5	289.7	5.4
53°	1162.4	1152.5	1113.4	1061.5	980.3	877.0	713.0	539.7	370.6	243.5	4.8
54°	1055.4	1051.3	1026.1	971.8	883.8	771.4	621.9	454.5	309.1	206.5	4.1
55°	941.6	928.0	902.5	859.4	778.5	673.6	516.6	376.7	250.0	173.9	3.1
56°	803.0	802.3	756.8	720.8	649.1	537.7	412.7	294.2	203.1	145.0	2.7
57°	670.5	649.1	605.3	569.6	492.5	407.9	306.4	220.4	159.0	117.5	2.0
58°	495.9	484.7	473.2	420.9	349.5	289.1	218.7	154.9	117.5	89.7	1.4
59°	336.6	336.3	322.7	282.9	241.8	180.0	136.5	105.3	80.8	65.9	1.0
60°	254.1	248.0	220.8	194.6	152.2	113.8	80.8	62.2	50.3	42.5	0.7
62.5°	89.0	92.4	81.2	67.3	51.3	42.1	32.3	26.2	21.4	17.3	0.0
65°	18.3	20.0	17.3	16.3	12.9	11.2	9.9	8.5	7.1	6.1	0.0



TEST NUMBER: P1344845

CATALOG NUMBER: P3A13R25W2N902765DE010 E3A451WMH_2700K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.4	2.0	2.0	2.0	1.7	1.7	1.7	1.7	1.4	1.4	0.3
70°	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.3
72.5°	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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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CATALOG NUMBER: P3A13R25W2N902765DE010 E3A451WMH_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	20.7	20.0	19.0	18.7	18.3	18.3
5°	20.4	19.0	18.0	17.0	16.6	16.6
7.5°	19.4	17.7	16.3	15.6	15.3	14.9
10°	18.3	16.0	14.6	13.9	13.9	13.9
12.5°	16.3	14.3	12.9	12.6	12.9	12.9
15°	14.6	12.2	11.5	11.5	11.9	12.2
17.5°	12.6	10.9	10.2	10.5	10.9	11.2
20°	11.2	9.2	9.2	9.5	10.5	10.5
22.5°	9.9	8.2	8.2	9.2	9.9	10.2
25°	8.8	7.1	7.5	8.5	9.5	9.9
27.5°	7.5	6.1	6.8	8.2	9.2	9.5
30°	6.5	5.4	6.5	7.8	8.8	9.5
31°	6.1	5.1	6.5	7.5	8.8	9.5
32°	5.4	5.1	6.1	7.5	8.8	9.2
33°	5.1	4.8	6.1	7.5	8.8	9.2
34°	4.8	4.4	5.8	7.5	8.8	9.2
35°	4.1	4.4	5.8	7.1	8.5	9.2
36°	3.7	4.1	5.8	7.1	8.5	9.2
37°	3.4	4.1	5.4	7.1	8.5	9.2
38°	3.1	3.7	5.4	7.1	8.5	9.2
39°	2.7	3.7	5.1	7.1	8.5	9.2
40°	2.4	3.4	5.1	6.8	8.5	9.2
41°	2.4	3.4	5.1	6.8	8.5	9.2
42°	2.0	3.4	5.1	6.8	8.5	9.2
43°	1.7	3.1	5.1	6.8	8.5	9.2
44°	1.4	3.1	4.8	6.8	8.5	9.2
45°	1.4	3.1	4.8	6.8	8.5	9.2
46°	1.0	2.7	4.8	6.8	8.5	9.2
47°	0.7	2.7	4.8	6.5	8.5	9.2
48°	0.7	2.7	4.8	6.5	8.5	9.2
49°	0.7	2.7	4.4	6.5	8.5	9.2
50°	0.7	2.7	4.4	6.5	8.5	9.2
51°	0.3	2.4	4.4	6.5	8.5	9.2
52°	0.3	2.4	4.4	6.5	8.5	9.5
53°	0.3	2.4	4.4	6.5	8.5	9.2
54°	0.3	2.4	4.1	6.5	8.5	9.2
55°	0.3	2.4	4.1	6.5	8.5	9.2
56°	0.3	2.0	4.1	6.1	8.5	9.2
57°	0.7	2.0	4.1	6.1	8.5	8.8
58°	0.7	2.0	4.1	6.1	8.2	8.8
59°	0.7	2.0	4.1	6.1	8.2	8.8
60°	0.7	2.0	3.7	6.1	8.2	8.8
62.5°	0.7	2.0	3.7	5.8	7.8	8.5
65°	0.7	2.0	3.4	5.4	7.8	8.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	1.7	3.4	5.1	7.5	7.8
70°	1.0	1.7	3.1	5.1	7.1	7.5
72.5°	1.0	1.7	3.1	4.4	6.5	7.1
75°	1.0	1.7	2.7	4.1	6.1	6.5
77.5°	1.0	1.7	2.4	3.7	5.4	5.8
80°	1.4	1.7	2.0	3.1	4.8	5.1
82.5°	1.4	1.7	1.7	2.4	3.7	4.1
85°	1.0	1.4	1.4	1.7	2.4	2.7
87.5°	1.0	1.4	1.0	0.7	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)