

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: P1345865

Luminaire Tested: P3A13R35W2N902765DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRIS
Catalog Number: P3A13R35W2N902765DE010 E3A451WMH_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

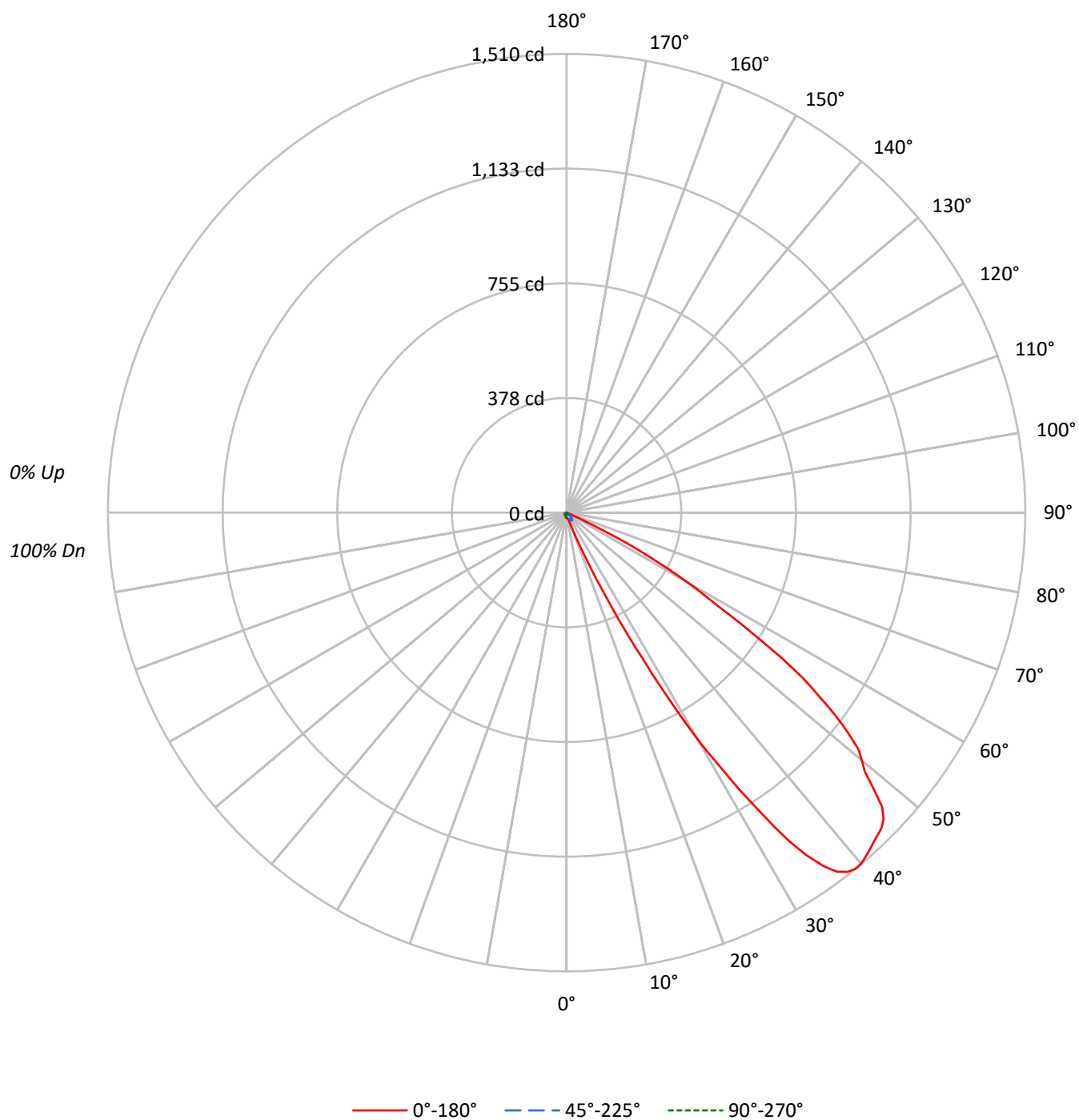
Lumens per Lamp: N/A
Luminaire Lumens: 376.0 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			
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	100	93	86	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	52	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	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3794	3794	3794	3794	3794
5°	4116	4028	3742	3368	3280
10°	4297	3919	3318	2872	2872
15°	6175	3859	2701	2474	2543
20°	15448	4107	2147	2147	2380
25°	71690	5250	1645	1960	2226
30°	217958	7140	1291	1798	2228
35°	368345	8272	1098	1713	2168
40°	431780	8158	887	1746	2319
45°	454714	5799	744	1892	2512
50°	432839	3480	682	1979	2763
55°	362692	1415	765	2217	3250
60°	203054	307	877	2544	3552
65°	35023	156	882	2802	4047
70°	641	192	1090	3077	4552
75°	593	254	1440	3474	5168
80°	379	379	1768	3915	6061
85°	0	755	3522	4277	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 457938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	4.4	1.2
20°-30°	23.1	6.1
30°-40°	99.6	26.5
40°-50°	142.1	37.8
50°-60°	88.0	23.4
60°-70°	13.4	3.6
70°-80°	2.5	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°	29.1	7.7
0°-40°	128.7	34.2
0°-60°	358.8	95.4
0°-90°	376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	19	18	17	15	15	2
15°	27	17	12	11	11	10
25°	296	22	7	8	9	177
35°	1376	31	4	6	8	826
45°	1466	19	2	6	8	1108
55°	949	4	2	6	8	808
65°	68	0	2	5	8	138
75°	1	0	2	4	6	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	17.3	17.0
5°	18.7	18.7	18.3	18.3	18.3	18.3	18.3	18.3	17.6	17.0	16.0
7.5°	19.0	19.0	18.7	18.7	18.7	18.7	18.3	18.0	17.3	16.0	14.9
10°	19.3	19.3	19.3	19.3	19.0	18.7	18.3	17.6	16.6	14.9	13.9
12.5°	21.7	21.7	21.4	20.7	20.0	19.3	18.7	17.3	15.3	13.6	12.6
15°	27.2	26.8	26.1	25.1	23.8	22.1	20.7	17.0	13.9	11.9	11.2
17.5°	38.0	37.3	36.3	32.9	29.9	26.8	24.1	17.0	12.6	10.5	9.8
20°	66.2	66.5	59.4	51.3	44.5	37.0	30.2	17.6	11.2	9.2	8.8
22.5°	138.1	132.7	115.7	96.1	73.3	56.7	42.8	19.3	9.8	7.8	7.8
25°	296.3	275.6	234.5	177.2	124.9	88.6	62.1	21.7	8.8	6.8	7.1
27.5°	541.0	522.4	439.9	331.3	219.9	133.7	84.2	24.8	7.8	5.8	6.4
30°	860.8	809.2	701.6	543.1	367.6	204.7	113.0	28.2	6.4	5.1	6.1
31°	960.6	936.8	805.8	628.3	430.7	243.0	125.2	29.2	6.1	5.1	5.8
32°	1079.0	1036.9	919.5	721.6	494.9	277.3	139.8	30.2	5.8	4.4	5.8
33°	1184.9	1144.2	1001.3	803.7	559.7	316.3	155.5	30.5	5.1	4.4	5.4
34°	1296.2	1240.6	1099.0	889.6	626.2	358.4	169.7	30.9	4.8	4.1	5.4
35°	1376.0	1320.3	1183.2	957.5	683.6	395.8	186.0	30.9	4.4	4.1	5.1
36°	1437.8	1388.9	1255.9	1027.4	740.6	429.4	198.9	30.9	3.7	3.7	5.1
37°	1480.2	1433.7	1304.7	1087.5	784.1	459.2	210.4	30.9	3.4	3.7	5.1
38°	1500.9	1462.2	1351.9	1131.3	826.1	482.7	219.6	30.2	3.1	3.4	4.8
39°	1509.7	1478.2	1380.8	1168.3	857.7	503.0	226.4	29.5	2.7	3.4	4.8
40°	1508.4	1480.9	1397.1	1193.7	883.2	516.9	230.1	28.5	2.4	3.1	4.8
41°	1500.6	1476.8	1405.5	1215.5	898.4	526.4	231.1	27.5	2.0	3.1	4.4
42°	1491.8	1470.0	1408.3	1227.0	908.3	529.5	228.4	26.1	2.0	2.7	4.4
43°	1482.6	1462.6	1408.3	1230.7	910.7	527.5	224.0	23.8	1.7	2.7	4.4
44°	1475.1	1456.1	1403.8	1229.7	905.6	519.7	215.9	21.0	1.4	2.7	4.4
45°	1466.3	1447.6	1398.1	1223.3	895.7	506.4	205.7	18.7	1.0	2.4	4.4
46°	1450.7	1436.1	1387.9	1210.0	880.1	488.1	192.8	17.0	0.7	2.4	4.1
47°	1420.5	1407.9	1368.2	1190.3	859.4	466.4	179.6	15.3	0.7	2.4	4.1
48°	1359.7	1359.4	1328.8	1153.7	826.5	439.2	165.6	13.6	0.7	2.4	4.1
49°	1301.0	1294.9	1256.9	1089.2	779.3	406.6	151.0	12.2	0.3	2.4	4.1
50°	1268.8	1255.5	1193.1	1013.2	718.9	361.5	135.4	10.2	0.3	2.0	4.1
51°	1235.2	1216.1	1142.5	944.6	646.9	318.0	118.5	8.1	0.3	2.0	3.7
52°	1174.4	1156.4	1073.9	879.1	577.0	273.6	102.2	6.8	0.3	2.0	4.1
53°	1108.9	1083.1	993.5	807.1	515.6	234.2	85.5	5.8	0.3	2.0	3.7
54°	1026.4	1014.9	912.0	718.9	443.6	196.2	70.3	4.8	0.3	2.0	3.7
55°	948.7	931.7	824.8	628.6	378.5	160.9	58.7	3.7	0.3	2.0	3.7
56°	849.6	824.1	724.0	545.8	312.3	129.7	49.6	3.1	0.3	2.0	3.7
57°	731.5	704.3	625.2	453.8	245.1	98.8	41.4	2.4	0.3	2.0	3.7
58°	618.8	595.3	510.5	350.3	184.6	68.6	34.3	1.7	0.3	1.7	3.7
59°	534.6	508.8	424.6	269.5	128.3	50.6	25.8	1.4	0.3	2.0	3.7
60°	463.0	429.7	341.8	208.7	91.6	36.3	19.0	0.7	0.7	2.0	3.7
62.5°	266.8	235.6	163.3	84.9	37.7	18.7	9.2	0.3	0.7	2.0	3.7
65°	67.5	60.1	39.0	18.3	10.5	6.4	3.4	0.3	0.7	1.7	3.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.4	2.4	2.4	2.0	1.7	1.4	0.7	0.3	0.7	1.7	3.4
70°	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.3	0.7	1.7	3.1
72.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.7	2.7
75°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.7	2.7
77.5°	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	2.4
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	2.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	1.0	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.0
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):

	135°	157.5°	180°
0°	17.3	17.3	17.3
2.5°	16.3	16.3	16.3
5°	15.3	15.3	14.9
7.5°	14.3	13.9	13.9
10°	12.9	12.9	12.9
12.5°	11.9	11.9	11.9
15°	10.9	11.2	11.2
17.5°	9.8	10.5	10.5
20°	9.2	9.8	10.2
22.5°	8.5	9.2	9.5
25°	8.1	8.8	9.2
27.5°	7.5	8.5	9.2
30°	7.1	8.1	8.8
31°	7.1	8.1	8.5
32°	6.8	8.1	8.5
33°	6.8	8.1	8.5
34°	6.8	7.8	8.5
35°	6.4	7.8	8.1
36°	6.4	7.8	8.1
37°	6.4	7.8	8.5
38°	6.4	7.8	8.1
39°	6.1	7.8	8.1
40°	6.1	7.8	8.1
41°	6.1	7.8	8.1
42°	6.1	7.8	8.1
43°	6.1	7.8	8.1
44°	6.1	7.5	8.1
45°	6.1	7.5	8.1
46°	6.1	7.8	8.1
47°	6.1	7.8	8.5
48°	6.1	7.5	8.1
49°	5.8	7.5	8.1
50°	5.8	7.5	8.1
51°	5.8	7.8	8.5
52°	5.8	7.8	8.5
53°	5.8	7.8	8.5
54°	5.8	7.8	8.1
55°	5.8	7.8	8.5
56°	5.8	7.8	8.1
57°	5.8	7.8	8.1
58°	5.8	7.5	8.1
59°	5.8	7.5	8.1
60°	5.8	7.5	8.1
62.5°	5.4	7.5	8.1
65°	5.4	7.1	7.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.1	7.1	7.5
70°	4.8	6.8	7.1
72.5°	4.4	6.4	6.8
75°	4.1	5.8	6.1
77.5°	3.4	5.1	5.8
80°	3.1	4.4	4.8
82.5°	2.4	3.7	4.1
85°	1.7	2.7	2.7
87.5°	0.7	1.4	1.4
90°	0.0	0.0	0.0

(END OF REPORT)