

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: P1345748

Luminaire Tested: P3A13R35W2N902750DE010 E3A301WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R35W2N902750DE010 E3A301WMH_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 5000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

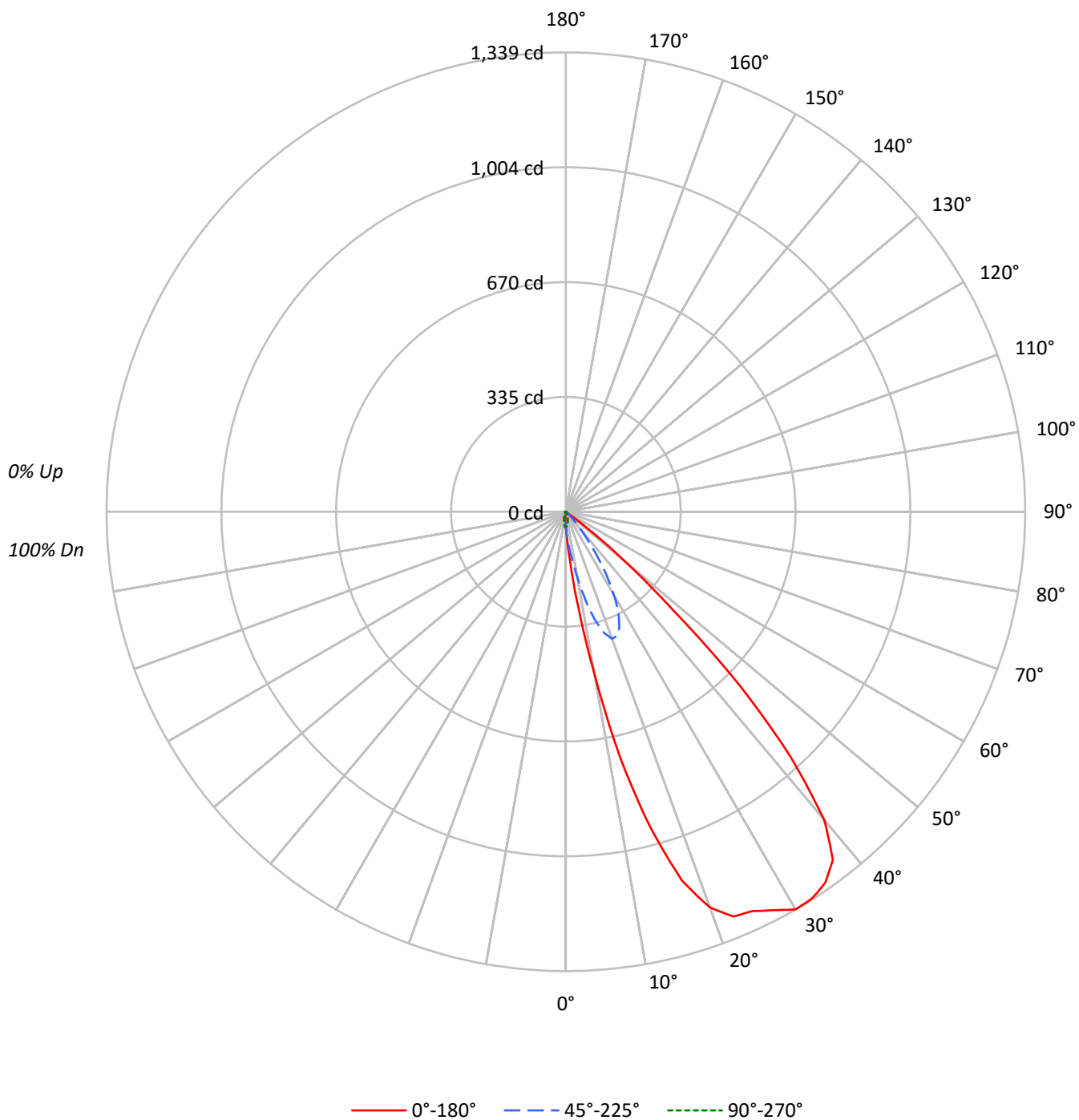
Lumens per Lamp: N/A
Luminaire Lumens: 421.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83	
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74	
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67	
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61	
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55	
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41	
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9692	9692	9692	9692	9692
5°	33018	21462	9069	3830	2818
10°	106277	43508	7147	1425	935
15°	216551	73780	5062	522	341
20°	286348	91895	3267	187	187
25°	310711	89328	1839	97	194
30°	338938	71201	760	101	203
35°	353166	44303	214	107	214
40°	335142	19351	115	229	315
45°	223713	7722	124	341	589
50°	75017	1296	273	512	785
55°	4205	153	306	726	994
60°	351	175	482	833	1140
65°	415	208	571	986	1349
70°	256	256	705	1218	1475
75°	339	339	932	1271	1610
80°	0	505	1389	1389	1389
85°	0	1006	2768	1006	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 223713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	1.8
10°-20°	60.5	14.4
20°-30°	127.6	30.3
30°-40°	144.8	34.4
40°-50°	71.3	16.9
50°-60°	6.2	1.5
60°-70°	1.3	0.3
70°-80°	1.2	0.3
80°-90°	0.6	0.1
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°	195.8	46.5
0°-40°	340.6	80.9
0°-60°	418.0	99.3
0°-90°	421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	150	98	41	17	13	25
15°	954	325	22	2	2	271
25°	1284	369	8	0	1	598
35°	1319	166	1	0	1	813
45°	721	25	0	1	2	533
55°	11	0	1	2	3	43
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	0	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	76.7	78.6	77.9	77.5	77.1	75.6	72.2	71.8	68.4	66.1	54.8
5°	150.0	147.0	147.8	143.6	138.3	130.8	125.8	115.3	106.6	97.5	63.9
7.5°	282.7	278.5	270.6	258.5	246.0	229.8	205.2	185.6	162.9	141.3	71.0
10°	477.3	475.0	464.8	433.8	406.6	363.2	322.4	279.3	237.0	195.4	76.0
12.5°	737.3	721.8	703.3	662.1	608.4	554.0	473.5	399.1	331.4	261.9	76.3
15°	953.9	944.0	918.0	864.3	799.7	721.1	625.5	525.3	423.3	325.0	72.6
17.5°	1128.1	1113.0	1079.3	1026.8	952.3	850.3	738.4	616.4	492.0	370.0	66.1
20°	1227.1	1219.2	1193.5	1140.9	1059.7	948.2	820.8	678.7	535.1	393.8	57.8
22.5°	1277.0	1271.3	1252.4	1210.5	1134.5	1022.3	876.4	711.2	547.6	391.1	49.1
25°	1284.2	1282.6	1266.4	1234.7	1171.2	1060.1	900.6	717.3	537.4	369.2	40.8
27.5°	1309.1	1303.8	1284.5	1252.8	1188.9	1066.5	892.3	696.5	504.5	330.7	34.0
30°	1338.6	1334.8	1315.5	1282.6	1207.1	1060.4	862.8	650.4	452.0	281.2	25.3
32.5°	1336.3	1334.8	1318.5	1283.8	1194.2	1024.9	810.3	581.2	380.6	221.8	15.9
35°	1319.3	1314.0	1293.6	1239.9	1120.9	933.5	710.5	487.5	301.2	165.5	10.2
37.5°	1278.5	1267.2	1232.8	1141.7	989.8	792.5	578.6	376.4	213.1	110.7	6.4
40°	1170.8	1156.4	1087.3	977.3	818.2	624.3	430.4	258.9	140.6	67.6	2.6
42.5°	971.2	942.1	873.0	760.0	610.7	441.4	282.7	167.8	82.8	40.8	0.8
45°	721.4	699.1	626.6	524.2	400.2	283.1	171.2	90.7	45.7	24.9	0.4
47.5°	420.2	406.6	369.2	302.0	221.1	148.5	87.7	48.8	26.8	12.1	0.4
50°	219.9	202.9	174.6	132.3	97.5	68.4	42.7	26.1	13.2	3.8	0.4
52.5°	77.1	76.0	69.2	52.2	42.3	30.6	20.8	11.3	3.8	0.8	0.4
55°	11.0	11.0	10.2	11.3	12.1	11.0	7.2	3.0	0.8	0.4	0.4
57.5°	0.8	0.8	0.8	1.1	1.5	1.5	1.1	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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):

	90°	112.5°	135°	157.5°	180°
0°	44.2	44.2	44.2	44.2	44.2
2.5°	43.8	35.1	28.0	24.6	23.4
5°	41.2	26.5	17.4	13.6	12.8
7.5°	36.7	18.9	10.6	7.6	7.2
10°	32.1	13.6	6.4	4.5	4.2
12.5°	26.8	9.4	4.2	2.6	2.3
15°	22.3	6.4	2.3	1.9	1.5
17.5°	17.8	4.2	1.5	1.1	1.5
20°	14.0	2.6	0.8	0.8	0.8
22.5°	10.6	1.5	0.8	0.8	0.8
25°	7.6	0.8	0.4	0.4	0.8
27.5°	5.3	0.4	0.4	0.4	0.8
30°	3.0	0.4	0.4	0.4	0.8
32.5°	1.5	0.4	0.4	0.8	0.8
35°	0.8	0.4	0.4	0.8	0.8
37.5°	0.4	0.4	0.4	0.8	1.1
40°	0.4	0.4	0.8	1.1	1.1
42.5°	0.4	0.4	0.8	1.1	1.5
45°	0.4	0.8	1.1	1.5	1.9
47.5°	0.8	0.8	1.5	1.9	2.3
50°	0.8	1.1	1.5	2.3	2.3
52.5°	0.8	1.1	1.9	2.3	2.6
55°	0.8	1.5	1.9	2.6	2.6
57.5°	1.1	1.5	1.9	2.6	2.6
60°	1.1	1.5	1.9	2.6	2.6
62.5°	1.1	1.5	1.9	2.6	2.6
65°	1.1	1.5	1.9	2.6	2.6
67.5°	1.1	1.5	1.9	2.3	2.6
70°	1.1	1.5	1.9	2.3	2.3
72.5°	1.5	1.5	1.9	2.3	2.3
75°	1.1	1.5	1.5	1.9	1.9
77.5°	1.1	1.1	1.1	1.5	1.5
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	0.8	0.8	1.1	1.1
85°	1.1	0.8	0.4	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)