

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: P1345832

Luminaire Tested: P3A13R35W2N902765DE010 E3A301WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345832
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: P3A13R35W2N902765DE010 E3A301WMH_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,
E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

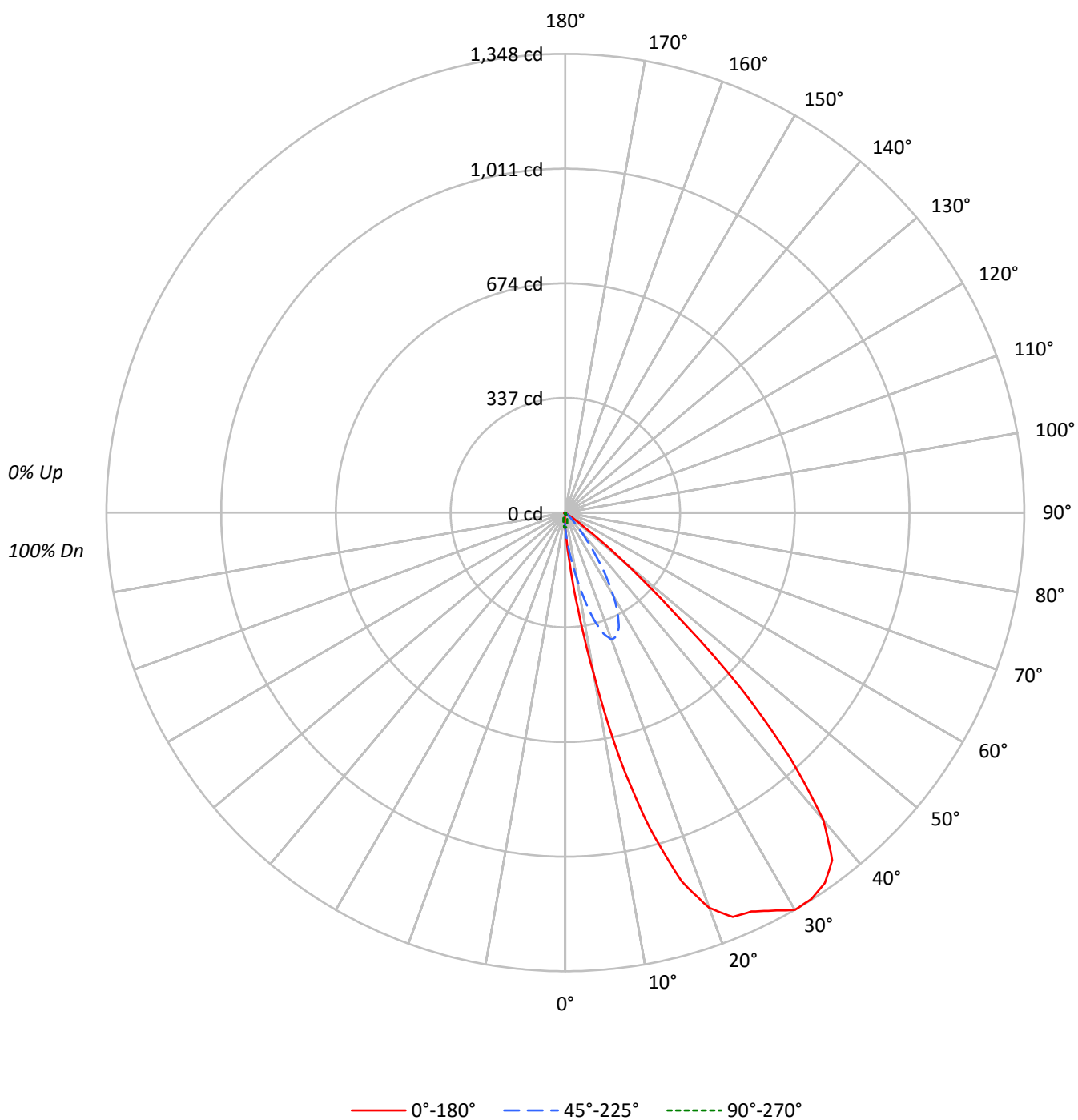
Lumens per Lamp: N/A
Luminaire Lumens: 424.0 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	9758	9758	9758	9758	9758
5°	33260	21616	9135	3852	2840
10°	107034	43820	7214	1447	935
15°	218094	74302	5108	522	341
20°	288378	92548	3290	187	187
25°	312913	89981	1839	97	194
30°	341344	71707	760	101	203
35°	355683	44624	214	107	214
40°	337518	19494	115	229	315
45°	225326	7784	124	341	589
50°	75563	1296	273	512	785
55°	4205	153	306	726	1032
60°	351	175	482	833	1184
65°	415	208	571	986	1401
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: 225326 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	1.8
10°-20°	60.9	14.4
20°-30°	128.5	30.3
30°-40°	145.8	34.4
40°-50°	71.8	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°	197.2	46.5
0°-40°	343.0	80.9
0°-60°	421.0	99.3
0°-90°	424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	151	98	42	18	13	25
15°	961	327	22	2	2	273
25°	1293	372	8	0	1	602
35°	1329	167	1	0	1	819
45°	727	25	0	1	2	537
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°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	77.3	79.2	78.4	78.0	77.6	76.1	72.7	72.3	68.9	66.6	55.2
5°	151.1	148.1	148.8	144.6	139.3	131.7	126.7	116.1	107.3	98.2	64.3
7.5°	284.7	280.5	272.5	260.3	247.8	231.4	206.7	186.9	164.0	142.3	71.6
10°	480.7	478.4	468.1	436.9	409.5	365.8	324.7	281.3	238.6	196.8	76.5
12.5°	742.6	727.0	708.3	666.8	612.8	558.0	476.9	401.9	333.8	263.8	76.9
15°	960.7	950.8	924.5	870.5	805.4	726.2	629.9	529.0	426.3	327.3	73.1
17.5°	1136.1	1120.9	1087.0	1034.1	959.1	856.4	743.7	620.8	495.6	372.6	66.6
20°	1235.8	1227.8	1202.0	1149.1	1067.2	954.9	826.7	683.6	538.9	396.6	58.2
22.5°	1286.1	1280.4	1261.3	1219.1	1142.6	1029.5	882.6	716.3	551.5	393.9	49.5
25°	1293.3	1291.8	1275.4	1243.4	1179.5	1067.6	907.0	722.4	541.2	371.9	41.1
27.5°	1318.4	1313.1	1293.7	1261.7	1197.4	1074.1	898.6	701.5	508.1	333.0	34.3
30°	1348.1	1344.3	1324.9	1291.8	1215.7	1068.0	868.9	655.0	455.2	283.2	25.5
32.5°	1345.8	1344.3	1327.9	1292.9	1202.7	1032.2	816.0	585.4	383.3	223.4	16.0
35°	1328.7	1323.4	1302.8	1248.8	1128.9	940.1	715.5	491.0	303.3	166.7	10.3
37.5°	1287.6	1276.2	1241.5	1149.8	996.8	798.1	582.7	379.1	214.7	111.5	6.5
40°	1179.1	1164.7	1095.0	984.3	824.0	628.8	433.5	260.7	141.6	68.1	2.7
42.5°	978.2	948.9	879.2	765.4	615.1	444.6	284.7	169.0	83.4	41.1	0.8
45°	726.6	704.1	631.0	527.9	403.1	285.1	172.4	91.3	46.1	25.1	0.4
47.5°	423.2	409.5	371.9	304.1	222.7	149.6	88.3	49.1	27.0	12.2	0.4
50°	221.5	204.4	175.8	133.2	98.2	68.9	43.0	26.3	13.3	3.8	0.4
52.5°	77.6	76.5	69.7	52.5	42.6	30.8	20.9	11.4	3.8	0.8	0.4
55°	11.0	11.0	10.3	11.4	12.2	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°	44.5	44.5	44.5	44.5	44.5
2.5°	44.2	35.4	28.2	24.7	23.6
5°	41.5	26.6	17.5	13.7	12.9
7.5°	36.9	19.0	10.7	7.6	7.2
10°	32.4	13.7	6.5	4.6	4.2
12.5°	27.0	9.5	4.2	2.7	2.3
15°	22.5	6.5	2.3	1.9	1.5
17.5°	17.9	4.2	1.5	1.1	1.5
20°	14.1	2.7	0.8	0.8	0.8
22.5°	10.7	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	2.7
55°	0.8	1.5	1.9	2.7	2.7
57.5°	1.1	1.5	1.9	2.7	2.7
60°	1.1	1.5	1.9	2.7	2.7
62.5°	1.1	1.5	1.9	2.7	2.7
65°	1.1	1.5	1.9	2.7	2.7
67.5°	1.1	1.5	1.9	2.3	2.7
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)