

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: P1336014

Luminaire Tested: P3A02R459035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

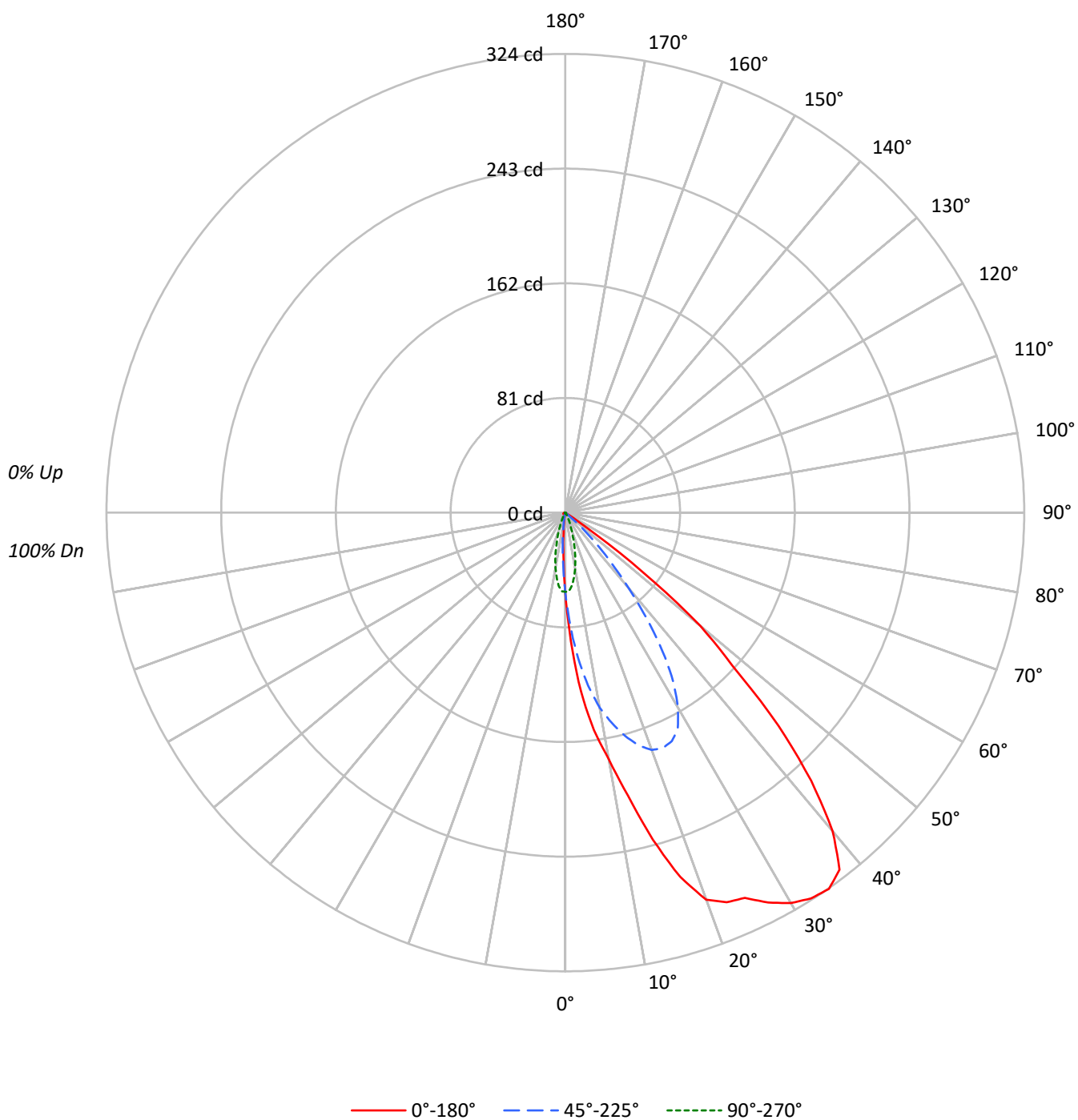
Lumens per Lamp: N/A
Luminaire Lumens: 147.0 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	10
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	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	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	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12258	12258	12258	12258	12258
5°	27955	22672	11468	4600	3148
10°	39389	31151	8862	1002	468
15°	54280	37072	5675	341	272
20°	67883	41630	2964	233	233
25°	72633	43091	1379	169	218
30°	80620	40259	633	177	228
35°	86839	32096	187	187	268
40°	84043	19894	115	258	315
45°	65991	9365	124	310	372
50°	42404	1092	171	375	512
55°	6423	76	191	459	612
60°	88	88	219	526	658
65°	104	104	259	571	778
70°	128	128	321	641	898
75°	85	169	424	763	932
80°	126	253	505	758	1137
85°	0	252	503	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	4.2
10°-20°	22.1	15.1
20°-30°	38.9	26.5
30°-40°	44.2	30.0
40°-50°	28.6	19.5
50°-60°	5.6	3.8
60°-70°	0.7	0.5
70°-80°	0.6	0.4
80°-90°	0.2	0.2
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°	67.1	45.7
0°-40°	111.3	75.7
0°-60°	145.5	99.0
0°-90°	147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	147.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	127	103	52	21	14	14
15°	239	163	25	2	1	69
25°	300	178	6	1	1	141
35°	324	120	1	1	1	199
45°	213	30	0	1	1	160
55°	17	0	0	1	2	32
65°	0	0	0	1	2	0
75°	0	0	0	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
2.5°	90.9	90.6	91.0	88.5	88.4	86.5	86.1	84.0	81.1	79.8	76.6
5°	127.0	125.8	125.8	122.8	121.8	119.7	116.2	111.7	108.1	103.0	97.6
7.5°	154.9	154.7	154.7	152.1	149.6	146.7	141.9	136.8	130.9	123.2	115.3
10°	176.9	177.3	176.2	173.8	170.3	167.1	161.4	155.3	148.0	139.9	129.5
12.5°	204.7	202.0	201.1	195.8	191.3	185.1	178.4	171.4	162.4	152.2	140.4
15°	239.1	235.7	232.2	225.2	217.6	208.1	197.6	187.2	175.7	163.3	148.5
17.5°	269.8	269.8	265.3	254.2	244.4	230.4	216.1	202.4	188.7	172.4	153.9
20°	290.9	289.8	286.3	278.2	267.0	251.2	232.6	213.3	196.8	178.4	157.0
22.5°	297.8	297.5	297.6	292.8	283.9	267.4	244.6	221.9	201.2	179.9	155.5
25°	300.2	300.7	301.9	300.1	293.3	276.9	252.0	226.0	202.6	178.1	149.9
27.5°	310.4	309.4	310.8	309.6	301.9	282.3	253.5	225.0	199.7	171.9	139.8
30°	318.4	318.2	320.5	319.4	309.4	285.7	252.1	221.3	192.4	159.0	123.9
32.5°	323.0	323.1	323.7	319.1	304.4	278.2	245.5	213.8	178.8	142.1	103.3
35°	324.4	323.7	320.3	309.1	288.9	260.9	229.2	196.0	160.2	119.9	81.6
37.5°	318.0	314.2	305.4	288.7	265.3	239.1	208.3	173.5	134.7	94.7	60.9
40°	293.6	288.5	277.3	260.3	238.5	213.2	181.6	145.2	104.5	69.5	42.8
42.5°	256.9	254.4	242.7	227.8	209.4	183.8	151.2	114.3	77.3	47.9	27.3
45°	212.8	209.5	202.1	189.0	174.4	147.6	117.3	81.9	52.7	30.2	13.5
47.5°	159.6	159.8	154.8	144.8	130.6	108.2	80.3	55.0	33.1	15.6	3.1
50°	124.3	122.6	115.4	105.2	88.6	72.0	51.9	34.7	17.5	3.2	0.2
52.5°	68.8	70.0	66.1	62.8	54.2	43.0	30.6	17.6	3.7	0.4	0.2
55°	16.8	17.8	17.1	17.5	18.1	16.1	12.4	3.4	0.4	0.2	0.2
57.5°	0.4	0.4	0.4	0.4	0.6	0.9	0.9	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
2.5°	75.0	72.7	68.4	55.6	44.6	36.0	30.9	30.4
5°	92.8	86.5	77.5	52.1	32.9	20.9	15.1	14.3
7.5°	107.0	98.1	84.1	46.5	22.5	10.7	5.9	4.9
10°	118.6	106.1	87.5	39.8	14.1	4.5	2.5	2.1
12.5°	126.6	111.5	88.1	32.5	8.1	2.2	1.6	1.5
15°	131.8	113.2	85.2	25.0	4.5	1.5	1.4	1.2
17.5°	133.9	111.7	79.5	18.1	2.5	1.1	1.1	1.1
20°	132.9	107.0	71.2	12.7	1.6	1.0	1.0	1.0
22.5°	128.2	98.7	60.7	8.5	1.1	0.9	0.9	0.9
25°	119.0	87.5	49.7	5.7	0.7	0.7	0.9	0.9
27.5°	105.2	73.8	38.0	3.8	0.6	0.7	0.9	0.9
30°	87.9	58.4	27.3	2.5	0.6	0.7	0.7	0.9
32.5°	69.8	42.5	17.9	1.5	0.5	0.7	0.9	1.0
35°	50.7	29.0	11.4	0.7	0.6	0.7	0.9	1.0
37.5°	35.5	18.9	6.6	0.5	0.6	0.7	1.0	1.0
40°	23.1	10.6	2.5	0.4	0.6	0.9	1.0	1.1
42.5°	12.0	3.7	0.5	0.4	0.6	0.9	1.1	1.2
45°	3.1	0.5	0.1	0.4	0.7	1.0	1.2	1.2
47.5°	0.4	0.1	0.1	0.5	0.7	1.1	1.2	1.4
50°	0.1	0.2	0.2	0.5	0.7	1.1	1.4	1.5
52.5°	0.2	0.2	0.2	0.5	0.9	1.1	1.5	1.6
55°	0.2	0.2	0.2	0.5	0.9	1.2	1.5	1.6
57.5°	0.2	0.2	0.2	0.5	0.9	1.2	1.5	1.5
60°	0.2	0.2	0.2	0.5	0.9	1.2	1.5	1.5
62.5°	0.2	0.2	0.4	0.5	0.9	1.1	1.5	1.5
65°	0.2	0.4	0.4	0.5	0.9	1.1	1.4	1.5
67.5°	0.2	0.2	0.4	0.5	0.9	1.1	1.4	1.5
70°	0.2	0.2	0.4	0.5	0.7	1.0	1.2	1.4
72.5°	0.2	0.2	0.4	0.5	0.7	1.0	1.1	1.2
75°	0.2	0.2	0.4	0.5	0.6	0.9	1.1	1.1
77.5°	0.2	0.2	0.4	0.4	0.6	0.7	1.0	1.0
80°	0.2	0.2	0.4	0.4	0.5	0.6	0.7	0.9
82.5°	0.2	0.2	0.2	0.4	0.4	0.5	0.6	0.6
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)