

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: P1335950

Luminaire Tested: P3A02R459024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335950
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: P3A02R459024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

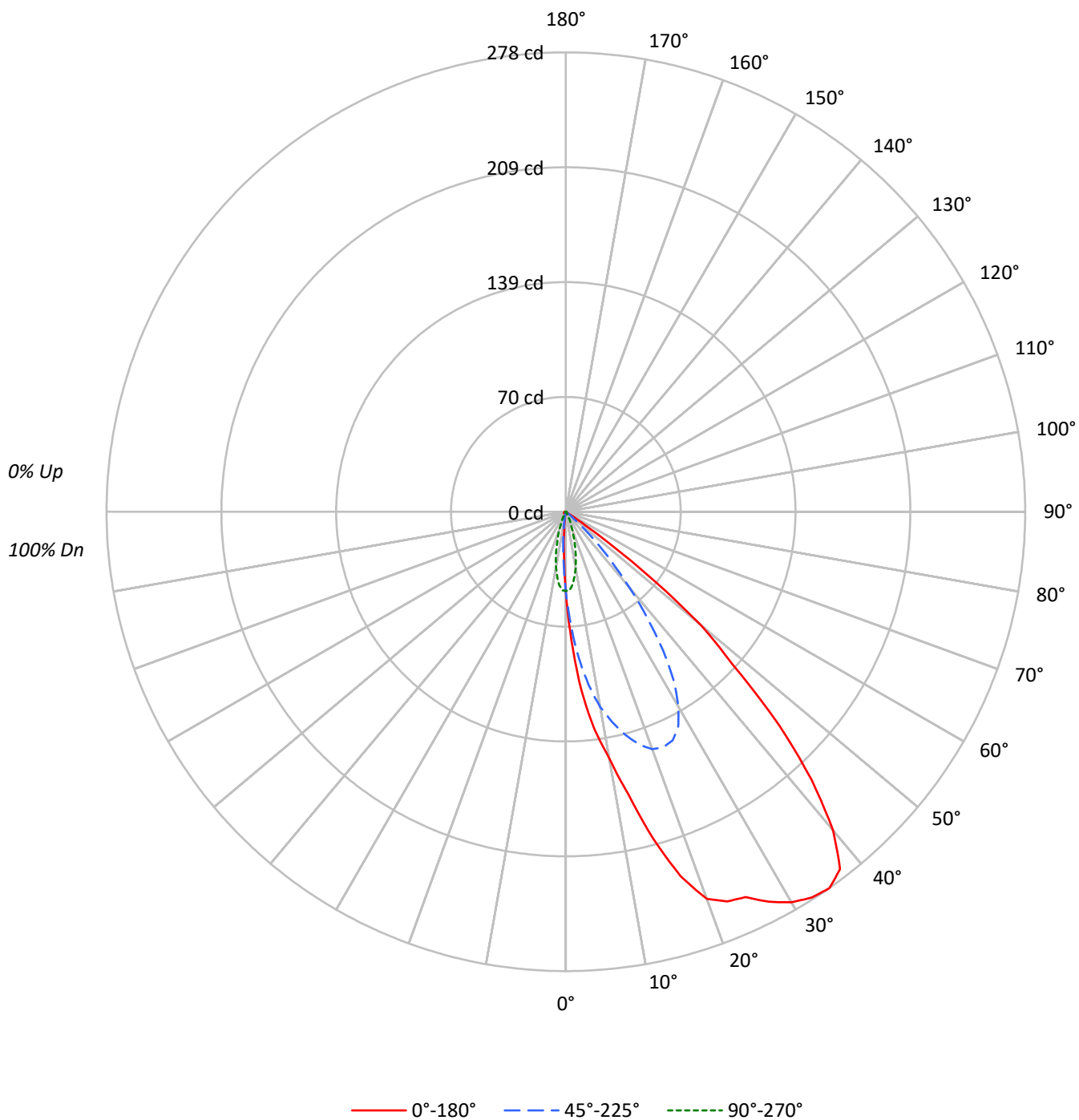
Lumens per Lamp: N/A
Luminaire Lumens: 125.9 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10504	10504	10504	10504	10504
5°	23971	19436	9839	3940	2685
10°	33756	26697	7593	868	401
15°	46538	31760	4858	295	250
20°	58175	35680	2544	187	187
25°	62254	36946	1161	145	169
30°	69099	34486	532	152	177
35°	74445	27492	161	161	214
40°	72021	17032	86	200	258
45°	56564	8032	93	248	341
50°	36331	921	136	307	443
55°	5505	76	153	421	535
60°	88	88	175	482	570
65°	104	104	208	467	675
70°	128	128	256	513	769
75°	85	169	339	593	763
80°	126	253	379	631	884
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 56564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	4.2
10°-20°	19.0	15.1
20°-30°	33.3	26.5
30°-40°	37.8	30.0
40°-50°	24.5	19.5
50°-60°	4.8	3.8
60°-70°	0.6	0.5
70°-80°	0.5	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°	57.5	45.7
0°-40°	95.4	75.7
0°-60°	124.7	99.0
0°-90°	125.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	125.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	109	88	45	18	12	12
15°	205	140	21	1	1	59
25°	257	153	5	1	1	121
35°	278	103	1	1	1	171
45°	182	26	0	1	1	137
55°	14	0	0	1	1	28
65°	0	0	0	1	1	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°	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
2.5°	77.9	77.7	78.0	75.9	75.8	74.2	73.8	72.0	69.5	68.4	65.6
5°	108.9	107.8	107.8	105.3	104.4	102.6	99.6	95.8	92.6	88.3	83.7
7.5°	132.8	132.6	132.6	130.3	128.2	125.7	121.6	117.3	112.2	105.6	98.8
10°	151.6	152.0	151.0	149.0	145.9	143.2	138.4	133.1	126.9	119.9	111.0
12.5°	175.4	173.1	172.4	167.9	164.0	158.7	152.9	146.9	139.2	130.5	120.3
15°	205.0	202.0	199.1	193.0	186.5	178.4	169.3	160.5	150.6	139.9	127.3
17.5°	231.3	231.3	227.4	217.9	209.5	197.5	185.2	173.4	161.8	147.7	131.9
20°	249.3	248.4	245.4	238.5	228.9	215.3	199.4	182.8	168.7	152.9	134.6
22.5°	255.2	255.0	255.1	251.0	243.3	229.2	209.7	190.2	172.5	154.2	133.3
25°	257.3	257.7	258.8	257.2	251.4	237.3	216.0	193.7	173.7	152.7	128.5
27.5°	266.1	265.2	266.4	265.3	258.8	241.9	217.3	192.8	171.1	147.3	119.8
30°	272.9	272.7	274.7	273.8	265.2	244.9	216.1	189.7	164.9	136.2	106.2
32.5°	276.8	276.9	277.5	273.6	260.9	238.5	210.4	183.2	153.2	121.8	88.5
35°	278.1	277.5	274.5	264.9	247.6	223.6	196.4	168.0	137.3	102.7	70.0
37.5°	272.6	269.3	261.8	247.4	227.4	205.0	178.5	148.7	115.5	81.1	52.2
40°	251.6	247.3	237.7	223.1	204.4	182.7	155.6	124.4	89.6	59.5	36.7
42.5°	220.2	218.0	208.0	195.3	179.5	157.5	129.6	98.0	66.3	41.1	23.4
45°	182.4	179.6	173.2	162.0	149.5	126.6	100.5	70.2	45.2	25.9	11.6
47.5°	136.8	137.0	132.7	124.1	111.9	92.7	68.8	47.1	28.3	13.4	2.6
50°	106.5	105.1	98.9	90.2	76.0	61.7	44.5	29.7	15.0	2.7	0.2
52.5°	59.0	60.0	56.7	53.8	46.5	36.9	26.2	15.1	3.2	0.3	0.2
55°	14.4	15.3	14.6	15.0	15.5	13.8	10.6	3.0	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.5	0.7	0.7	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°	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
2.5°	64.3	62.3	58.6	47.6	38.3	30.9	26.4	26.0
5°	79.6	74.2	66.4	44.7	28.2	17.9	13.0	12.2
7.5°	91.7	84.1	72.1	39.8	19.3	9.2	5.1	4.2
10°	101.7	90.9	75.0	34.1	12.1	3.9	2.1	1.8
12.5°	108.5	95.6	75.6	27.8	7.0	1.9	1.4	1.3
15°	113.0	97.1	73.0	21.4	3.9	1.3	1.2	1.1
17.5°	114.8	95.8	68.2	15.5	2.1	0.9	0.9	0.9
20°	113.9	91.7	61.0	10.9	1.4	0.8	0.8	0.8
22.5°	109.9	84.6	52.1	7.3	0.9	0.7	0.7	0.7
25°	102.0	75.0	42.6	4.8	0.6	0.6	0.7	0.7
27.5°	90.2	63.2	32.6	3.3	0.5	0.6	0.7	0.7
30°	75.3	50.1	23.4	2.1	0.5	0.6	0.6	0.7
32.5°	59.9	36.5	15.4	1.3	0.4	0.6	0.7	0.8
35°	43.4	24.9	9.8	0.6	0.5	0.6	0.7	0.8
37.5°	30.5	16.2	5.7	0.4	0.5	0.6	0.8	0.8
40°	19.8	9.1	2.1	0.3	0.5	0.7	0.8	0.9
42.5°	10.3	3.2	0.4	0.3	0.5	0.7	0.9	1.1
45°	2.6	0.4	0.1	0.3	0.6	0.8	1.1	1.1
47.5°	0.3	0.1	0.1	0.4	0.6	0.9	1.1	1.2
50°	0.1	0.2	0.2	0.4	0.6	0.9	1.2	1.3
52.5°	0.2	0.2	0.2	0.4	0.7	0.9	1.3	1.4
55°	0.2	0.2	0.2	0.4	0.7	1.1	1.3	1.4
57.5°	0.2	0.2	0.2	0.4	0.7	1.1	1.3	1.3
60°	0.2	0.2	0.2	0.4	0.7	1.1	1.3	1.3
62.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.3	1.3
65°	0.2	0.3	0.3	0.4	0.7	0.9	1.2	1.3
67.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.2	1.3
70°	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.2
72.5°	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1
75°	0.2	0.2	0.3	0.4	0.5	0.7	0.9	0.9
77.5°	0.2	0.2	0.3	0.3	0.5	0.6	0.8	0.8
80°	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7
82.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
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)