

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: P1336062

Luminaire Tested: P3A02R459727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336062
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: P3A02R459727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

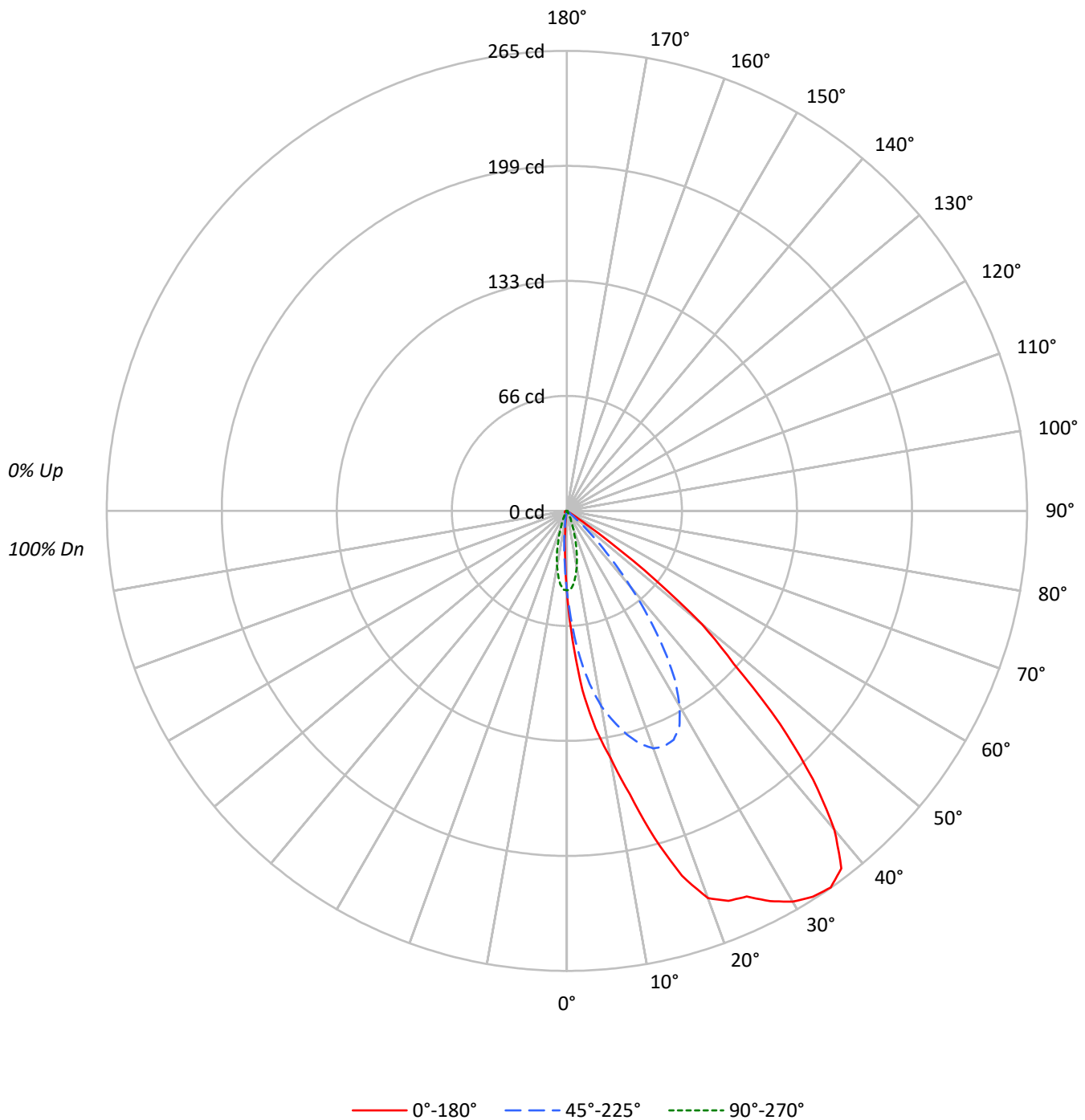
Lumens per Lamp: N/A
Luminaire Lumens: 120.0 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	10021	10021	10021	10021	10021
5°	22826	18512	9377	3764	2553
10°	32153	25428	7237	824	379
15°	44314	30261	4631	272	227
20°	55398	33976	2404	187	187
25°	59302	35179	1113	145	169
30°	65808	32866	506	152	177
35°	70885	26180	161	161	214
40°	68614	16230	86	200	258
45°	53866	7660	93	248	310
50°	34626	887	136	307	409
55°	5238	76	153	382	497
60°	88	88	175	439	526
65°	104	104	208	467	623
70°	128	128	256	513	705
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: 53866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	4.2
10°-20°	18.1	15.1
20°-30°	31.7	26.5
30°-40°	36.0	30.0
40°-50°	23.3	19.4
50°-60°	4.6	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°	54.8	45.7
0°-40°	90.8	75.7
0°-60°	118.8	99.0
0°-90°	120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	120.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	104	84	43	17	12	11
15°	195	133	20	1	1	56
25°	245	145	5	1	1	115
35°	265	98	1	1	1	163
45°	174	25	0	1	1	131
55°	14	0	0	1	1	26
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°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	74.2	74.0	74.3	72.3	72.2	70.7	70.2	68.5	66.2	65.1	62.5
5°	103.7	102.7	102.7	100.3	99.5	97.7	94.8	91.2	88.2	84.1	79.7
7.5°	126.4	126.2	126.2	124.1	122.1	119.7	115.8	111.7	106.9	100.6	94.1
10°	144.4	144.7	143.8	141.9	139.0	136.4	131.8	126.8	120.8	114.2	105.7
12.5°	167.1	164.9	164.2	159.9	156.2	151.1	145.6	139.9	132.6	124.2	114.6
15°	195.2	192.4	189.6	183.9	177.6	169.9	161.3	152.8	143.4	133.3	121.2
17.5°	220.3	220.3	216.6	207.5	199.5	188.1	176.4	165.2	154.0	140.7	125.6
20°	237.4	236.5	233.7	227.1	218.0	205.0	189.9	174.1	160.7	145.6	128.2
22.5°	243.1	242.9	243.0	239.1	231.7	218.3	199.7	181.1	164.3	146.8	127.0
25°	245.1	245.5	246.5	245.0	239.5	226.0	205.7	184.5	165.4	145.4	122.3
27.5°	253.4	252.6	253.7	252.7	246.5	230.4	206.9	183.7	163.0	140.3	114.1
30°	259.9	259.7	261.6	260.7	252.6	233.2	205.8	180.6	157.1	129.8	101.2
32.5°	263.6	263.7	264.2	260.5	248.5	227.1	200.4	174.5	145.9	116.0	84.3
35°	264.8	264.2	261.4	252.3	235.8	213.0	187.1	160.0	130.8	97.8	66.6
37.5°	259.6	256.5	249.3	235.6	216.6	195.2	170.0	141.6	110.0	77.3	49.7
40°	239.7	235.5	226.4	212.5	194.7	174.0	148.2	118.5	85.3	56.7	34.9
42.5°	209.7	207.6	198.1	186.0	170.9	150.0	123.4	93.3	63.1	39.1	22.3
45°	173.7	171.0	165.0	154.2	142.4	120.5	95.7	66.8	43.1	24.7	11.0
47.5°	130.3	130.5	126.3	118.2	106.6	88.3	65.5	44.9	27.0	12.7	2.5
50°	101.5	100.1	94.2	85.9	72.4	58.8	42.4	28.3	14.3	2.6	0.2
52.5°	56.2	57.1	54.0	51.3	44.3	35.1	25.0	14.4	3.0	0.3	0.2
55°	13.7	14.6	13.9	14.3	14.8	13.1	10.1	2.8	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°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	61.2	59.3	55.8	45.4	36.4	29.4	25.2	24.8
5°	75.8	70.7	63.2	42.6	26.9	17.1	12.3	11.6
7.5°	87.3	80.1	68.6	37.9	18.4	8.7	4.8	4.0
10°	96.8	86.6	71.5	32.5	11.5	3.7	2.0	1.7
12.5°	103.4	91.0	72.0	26.5	6.6	1.8	1.3	1.2
15°	107.6	92.4	69.5	20.4	3.7	1.2	1.1	1.0
17.5°	109.3	91.2	64.9	14.8	2.0	0.9	0.9	0.9
20°	108.5	87.3	58.1	10.3	1.3	0.8	0.8	0.8
22.5°	104.7	80.6	49.6	6.9	0.9	0.7	0.7	0.7
25°	97.1	71.5	40.5	4.6	0.6	0.6	0.7	0.7
27.5°	85.9	60.2	31.0	3.1	0.5	0.6	0.7	0.7
30°	71.8	47.7	22.3	2.0	0.5	0.6	0.6	0.7
32.5°	57.0	34.7	14.7	1.2	0.4	0.6	0.7	0.8
35°	41.3	23.7	9.3	0.6	0.5	0.6	0.7	0.8
37.5°	29.0	15.5	5.4	0.4	0.5	0.6	0.8	0.8
40°	18.9	8.6	2.0	0.3	0.5	0.7	0.8	0.9
42.5°	9.8	3.0	0.4	0.3	0.5	0.7	0.9	1.0
45°	2.5	0.4	0.1	0.3	0.6	0.8	1.0	1.0
47.5°	0.3	0.1	0.1	0.4	0.6	0.9	1.0	1.1
50°	0.1	0.2	0.2	0.4	0.6	0.9	1.1	1.2
52.5°	0.2	0.2	0.2	0.4	0.7	0.9	1.2	1.3
55°	0.2	0.2	0.2	0.4	0.7	1.0	1.2	1.3
57.5°	0.2	0.2	0.2	0.4	0.7	1.0	1.2	1.2
60°	0.2	0.2	0.2	0.4	0.7	1.0	1.2	1.2
62.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.2	1.2
65°	0.2	0.3	0.3	0.4	0.7	0.9	1.1	1.2
67.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.1	1.2
70°	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.1
72.5°	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.0
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)