

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: P1336053

Luminaire Tested: P3A02R459050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336053
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: P3A02R459050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

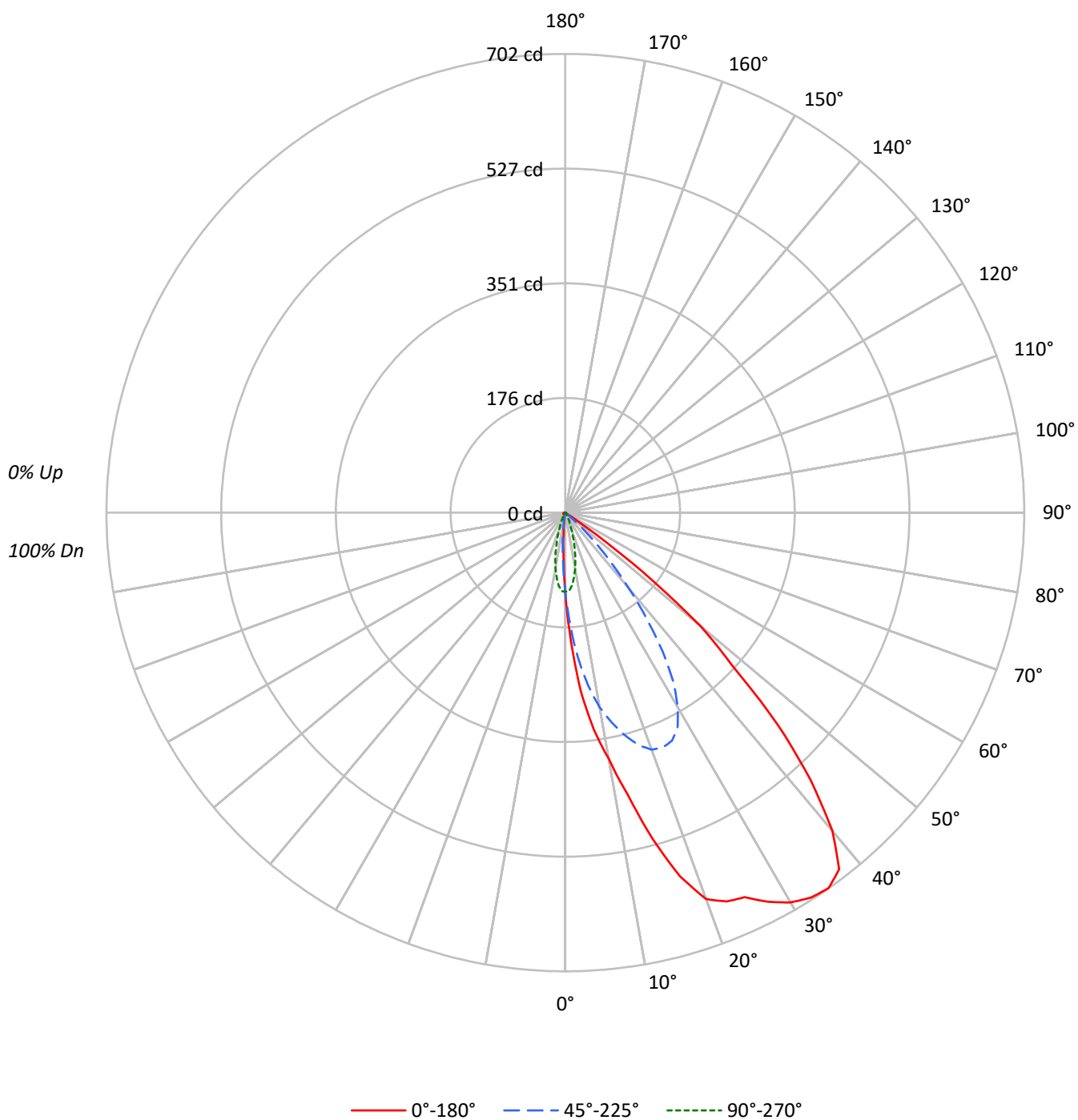
Lumens per Lamp: N/A
Luminaire Lumens: 318.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	26533	26533	26533	26533	26533
5°	60466	49064	24829	9949	6780
10°	85213	67378	19194	2182	1002
15°	117435	80182	12259	726	613
20°	146826	90051	6394	490	490
25°	157122	93247	2952	387	460
30°	174407	87077	1342	405	481
35°	187866	69413	428	428	562
40°	181798	43023	229	544	687
45°	142775	20281	248	651	837
50°	91733	2354	375	819	1092
55°	13916	191	421	1032	1338
60°	219	219	482	1184	1403
65°	259	259	571	1245	1660
70°	321	321	705	1346	1859
75°	254	424	932	1610	2033
80°	379	631	1010	1642	2399
85°	0	755	1258	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 142775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	4.2
10°-20°	47.9	15.1
20°-30°	84.1	26.5
30°-40°	95.5	30.0
40°-50°	61.9	19.5
50°-60°	12.1	3.8
60°-70°	1.5	0.5
70°-80°	1.2	0.4
80°-90°	0.6	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°	145.2	45.7
0°-40°	240.8	75.7
0°-60°	314.8	99.0
0°-90°	318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	318.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	121	121	121	121	121	
5°	275	223	113	45	31	29
15°	517	353	54	3	3	149
25°	649	385	12	2	2	304
35°	702	259	2	2	2	431
45°	460	65	1	2	3	347
55°	36	0	1	3	4	70
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	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°	50°
0°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
2.5°	196.5	196.0	196.8	191.5	191.2	187.2	186.2	181.6	175.5	172.6	165.7
5°	274.7	272.1	272.1	265.7	263.6	259.0	251.3	241.7	233.8	222.9	211.2
7.5°	335.1	334.6	334.6	329.0	323.7	317.3	306.9	296.0	283.2	266.5	249.5
10°	382.7	383.5	381.1	376.0	368.3	361.4	349.2	335.9	320.2	302.6	280.0
12.5°	442.8	436.9	435.1	423.7	413.8	400.5	385.9	370.7	351.3	329.2	303.7
15°	517.3	509.8	502.4	487.2	470.7	450.2	427.4	405.0	380.0	353.2	321.3
17.5°	583.8	583.8	573.9	550.0	528.7	498.4	467.5	437.7	408.2	372.9	333.0
20°	629.2	626.8	619.4	601.8	577.6	543.3	503.2	461.4	425.8	385.9	339.6
22.5°	644.1	643.6	643.9	633.5	614.1	578.4	529.2	480.0	435.4	389.1	336.4
25°	649.4	650.5	653.2	649.2	634.5	598.9	545.2	488.8	438.3	385.4	324.2
27.5°	671.5	669.4	672.3	669.7	653.2	610.6	548.4	486.7	431.9	371.8	302.4
30°	688.8	688.3	693.3	690.9	669.4	618.1	545.5	478.7	416.2	343.9	268.1
32.5°	698.6	698.9	700.2	690.4	658.5	601.8	531.1	462.5	386.7	307.4	223.4
35°	701.8	700.2	692.8	668.6	625.0	564.3	495.7	423.9	346.5	259.3	176.6
37.5°	688.0	679.8	660.6	624.4	573.9	517.3	450.5	375.2	291.5	204.8	131.6
40°	635.1	624.2	600.0	563.0	515.9	461.2	392.8	314.1	226.1	150.3	92.5
42.5°	555.8	550.2	525.0	492.8	452.9	397.6	327.1	247.3	167.3	103.7	59.0
45°	460.4	453.2	437.2	408.8	377.4	319.4	253.7	177.1	114.1	65.4	29.3
47.5°	345.2	345.7	334.8	313.3	282.4	234.0	173.7	118.9	71.5	33.8	6.6
50°	268.9	265.1	249.7	227.6	191.7	155.8	112.2	75.0	37.8	6.9	0.5
52.5°	148.9	151.3	143.1	135.9	117.3	93.1	66.2	38.0	8.0	0.8	0.5
55°	36.4	38.6	37.0	37.8	39.1	34.8	26.9	7.4	0.8	0.5	0.5
57.5°	0.8	0.8	0.8	0.8	1.3	1.9	1.9	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
2.5°	162.2	157.2	147.9	120.2	96.5	77.9	66.8	65.7
5°	200.8	187.2	167.5	112.8	71.3	45.2	32.7	30.8
7.5°	231.4	212.2	181.9	100.5	48.7	23.1	12.8	10.6
10°	256.6	229.5	189.4	86.2	30.6	9.8	5.3	4.5
12.5°	273.9	241.2	190.7	70.2	17.6	4.8	3.5	3.2
15°	285.1	244.9	184.3	54.0	9.8	3.2	2.9	2.7
17.5°	289.6	241.7	172.1	39.1	5.3	2.4	2.4	2.4
20°	287.5	231.4	154.0	27.4	3.5	2.1	2.1	2.1
22.5°	277.4	213.6	131.4	18.4	2.4	1.9	1.9	1.9
25°	257.4	189.4	107.4	12.2	1.6	1.6	1.9	1.9
27.5°	227.6	159.6	82.2	8.2	1.3	1.6	1.9	1.9
30°	190.2	126.3	59.0	5.3	1.3	1.6	1.6	1.9
32.5°	151.1	92.0	38.8	3.2	1.1	1.6	1.9	2.1
35°	109.6	62.8	24.7	1.6	1.3	1.6	1.9	2.1
37.5°	76.9	41.0	14.4	1.1	1.3	1.6	2.1	2.1
40°	50.0	22.9	5.3	0.8	1.3	1.9	2.1	2.4
42.5°	26.1	8.0	1.1	0.8	1.3	1.9	2.4	2.7
45°	6.6	1.1	0.3	0.8	1.6	2.1	2.7	2.7
47.5°	0.8	0.3	0.3	1.1	1.6	2.4	2.7	2.9
50°	0.3	0.5	0.5	1.1	1.6	2.4	2.9	3.2
52.5°	0.5	0.5	0.5	1.1	1.9	2.4	3.2	3.5
55°	0.5	0.5	0.5	1.1	1.9	2.7	3.2	3.5
57.5°	0.5	0.5	0.5	1.1	1.9	2.7	3.2	3.2
60°	0.5	0.5	0.5	1.1	1.9	2.7	3.2	3.2
62.5°	0.5	0.5	0.8	1.1	1.9	2.4	3.2	3.2
65°	0.5	0.8	0.8	1.1	1.9	2.4	2.9	3.2
67.5°	0.5	0.5	0.8	1.1	1.9	2.4	2.9	3.2
70°	0.5	0.5	0.8	1.1	1.6	2.1	2.7	2.9
72.5°	0.5	0.5	0.8	1.1	1.6	2.1	2.4	2.7
75°	0.5	0.5	0.8	1.1	1.3	1.9	2.4	2.4
77.5°	0.5	0.5	0.8	0.8	1.3	1.6	2.1	2.1
80°	0.5	0.5	0.8	0.8	1.1	1.3	1.6	1.9
82.5°	0.5	0.5	0.5	0.8	0.8	1.1	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)