

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: P1336069

Luminaire Tested: P3A02R459727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336069
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 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

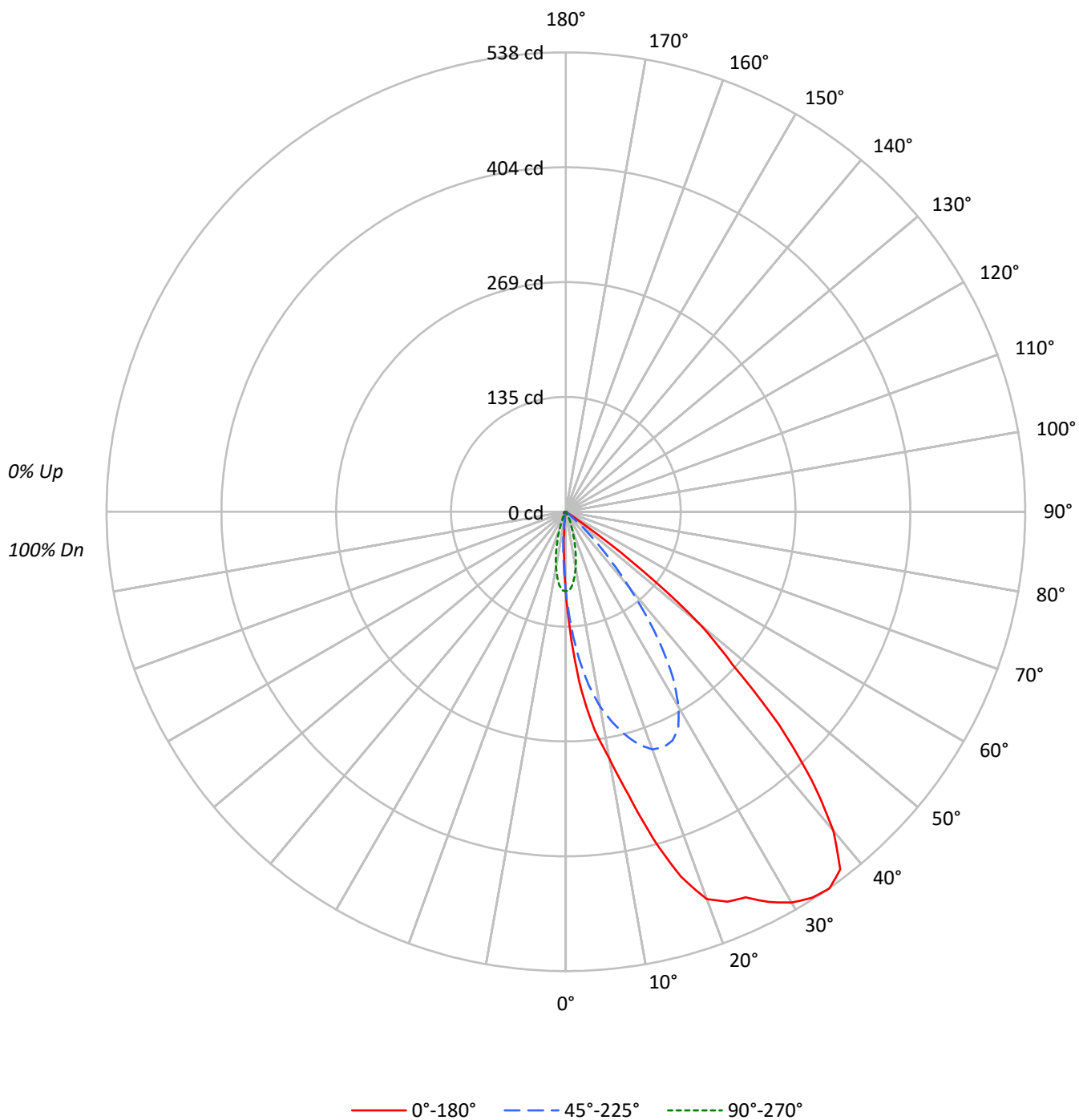
Lumens per Lamp: N/A
Luminaire Lumens: 243.9 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	20349	20349	20349	20349	20349
5°	46401	37640	19040	7638	5217
10°	65374	51702	14718	1692	779
15°	90103	61521	9398	545	454
20°	112663	69096	4900	373	373
25°	120563	71544	2274	290	339
30°	133818	66795	1038	304	354
35°	144152	53271	321	321	428
40°	139490	33005	172	401	515
45°	109531	15568	186	496	620
50°	70377	1808	273	614	819
55°	10705	153	306	765	1032
60°	175	175	351	877	1053
65°	208	208	415	934	1245
70°	256	256	513	1026	1410
75°	169	339	678	1186	1525
80°	253	505	758	1263	1768
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 109531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	4.2
10°-20°	36.7	15.1
20°-30°	64.5	26.5
30°-40°	73.3	30.0
40°-50°	47.4	19.5
50°-60°	9.3	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	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°	111.4	45.7
0°-40°	184.7	75.7
0°-60°	241.5	99.0
0°-90°	243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	243.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	93	93	93	93	93	
5°	211	171	86	35	24	22
15°	397	271	41	2	2	114
25°	498	296	9	1	1	234
35°	538	199	1	1	2	331
45°	353	50	1	2	2	266
55°	28	0	1	2	3	53
65°	0	0	1	2	2	0
75°	0	0	1	1	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°	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
2.5°	150.8	150.4	151.0	146.9	146.7	143.7	142.8	139.4	134.7	132.4	127.1
5°	210.8	208.8	208.8	203.9	202.2	198.8	192.8	185.5	179.4	171.0	162.0
7.5°	257.1	256.7	256.7	252.4	248.3	243.4	235.5	227.1	217.3	204.5	191.4
10°	293.6	294.3	292.4	288.5	282.6	277.3	267.9	257.7	245.7	232.2	214.9
12.5°	339.8	335.3	333.8	325.1	317.5	307.3	296.1	284.5	269.6	252.6	233.0
15°	396.9	391.2	385.5	373.8	361.2	345.5	327.9	310.8	291.6	271.0	246.5
17.5°	447.9	447.9	440.4	422.0	405.7	382.4	358.7	335.9	313.2	286.1	255.5
20°	482.8	481.0	475.3	461.8	443.2	416.9	386.1	354.0	326.7	296.1	260.6
22.5°	494.2	493.8	494.0	486.1	471.2	443.8	406.1	368.3	334.0	298.5	258.1
25°	498.3	499.1	501.2	498.1	486.9	459.5	418.3	375.1	336.3	295.7	248.7
27.5°	515.2	513.6	515.9	513.8	501.2	468.5	420.8	373.4	331.4	285.3	232.0
30°	528.5	528.1	532.0	530.1	513.6	474.2	418.5	367.3	319.4	263.8	205.7
32.5°	536.1	536.3	537.3	529.7	505.3	461.8	407.5	354.9	296.7	235.9	171.4
35°	538.5	537.3	531.6	513.0	479.5	433.0	380.4	325.3	265.9	199.0	135.5
37.5°	527.9	521.6	506.9	479.1	440.4	396.9	345.7	287.9	223.6	157.1	101.0
40°	487.3	478.9	460.4	432.0	395.9	353.8	301.4	241.0	173.5	115.3	71.0
42.5°	426.5	422.2	402.8	378.1	347.5	305.1	251.0	189.8	128.4	79.6	45.3
45°	353.2	347.7	335.5	313.6	289.6	245.1	194.7	135.9	87.5	50.2	22.4
47.5°	264.9	265.3	256.9	240.4	216.7	179.6	133.3	91.2	54.9	25.9	5.1
50°	206.3	203.4	191.6	174.7	147.1	119.6	86.1	57.5	29.0	5.3	0.4
52.5°	114.3	116.1	109.8	104.3	90.0	71.4	50.8	29.2	6.1	0.6	0.4
55°	28.0	29.6	28.4	29.0	30.0	26.7	20.6	5.7	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.0	1.4	1.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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°	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
2.5°	124.5	120.6	113.5	92.2	74.1	59.8	51.2	50.4
5°	154.1	143.7	128.6	86.5	54.7	34.7	25.1	23.7
7.5°	177.5	162.8	139.6	77.1	37.3	17.8	9.8	8.2
10°	196.9	176.1	145.3	66.1	23.5	7.6	4.1	3.5
12.5°	210.2	185.1	146.3	53.9	13.5	3.7	2.7	2.4
15°	218.8	187.9	141.4	41.4	7.6	2.4	2.2	2.0
17.5°	222.2	185.5	132.0	30.0	4.1	1.8	1.8	1.8
20°	220.6	177.5	118.2	21.0	2.7	1.6	1.6	1.6
22.5°	212.8	163.9	100.8	14.1	1.8	1.4	1.4	1.4
25°	197.5	145.3	82.4	9.4	1.2	1.2	1.4	1.4
27.5°	174.7	122.4	63.1	6.3	1.0	1.2	1.4	1.4
30°	145.9	96.9	45.3	4.1	1.0	1.2	1.2	1.4
32.5°	115.9	70.6	29.8	2.4	0.8	1.2	1.4	1.6
35°	84.1	48.2	19.0	1.2	1.0	1.2	1.4	1.6
37.5°	59.0	31.4	11.0	0.8	1.0	1.2	1.6	1.6
40°	38.4	17.5	4.1	0.6	1.0	1.4	1.6	1.8
42.5°	20.0	6.1	0.8	0.6	1.0	1.4	1.8	2.0
45°	5.1	0.8	0.2	0.6	1.2	1.6	2.0	2.0
47.5°	0.6	0.2	0.2	0.8	1.2	1.8	2.0	2.2
50°	0.2	0.4	0.4	0.8	1.2	1.8	2.2	2.4
52.5°	0.4	0.4	0.4	0.8	1.4	1.8	2.4	2.7
55°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.7
57.5°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.4
60°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.4
62.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.4	2.4
65°	0.4	0.6	0.6	0.8	1.4	1.8	2.2	2.4
67.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.2	2.4
70°	0.4	0.4	0.6	0.8	1.2	1.6	2.0	2.2
72.5°	0.4	0.4	0.6	0.8	1.2	1.6	1.8	2.0
75°	0.4	0.4	0.6	0.8	1.0	1.4	1.8	1.8
77.5°	0.4	0.4	0.6	0.6	1.0	1.2	1.6	1.6
80°	0.4	0.4	0.6	0.6	0.8	1.0	1.2	1.4
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	1.0	1.0
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)