

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: P1335973

Luminaire Tested: P3A02R459027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335973
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: P3A02R459027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

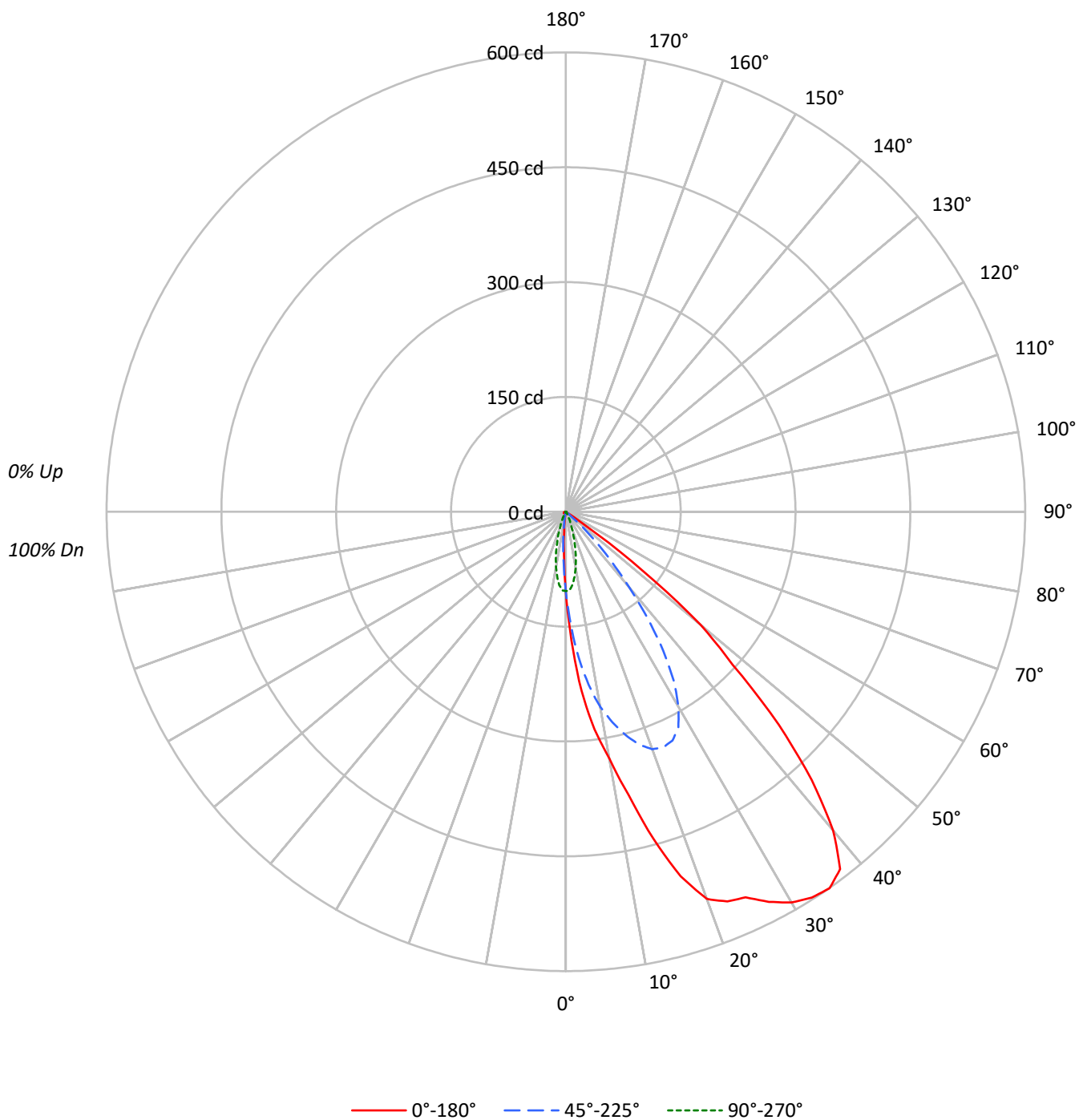
Lumens per Lamp: N/A
Luminaire Lumens: 272.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	22696	22696	22696	22696	22696
5°	51728	41955	21219	8519	5811
10°	72878	57648	16410	1870	868
15°	100432	68582	10488	613	522
20°	125591	77030	5460	420	420
25°	134403	79747	2540	339	387
30°	149188	74467	1139	354	405
35°	160696	59374	375	375	482
40°	155491	36783	200	458	573
45°	122121	17366	217	558	713
50°	78462	2013	307	682	921
55°	11928	191	344	879	1147
60°	219	219	395	1009	1184
65°	259	259	467	1038	1401
70°	321	321	577	1154	1603
75°	169	424	763	1356	1694
80°	253	631	884	1389	2020
85°	0	503	1258	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 122121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	4.2
10°-20°	41.0	15.1
20°-30°	72.0	26.5
30°-40°	81.7	30.0
40°-50°	52.9	19.4
50°-60°	10.4	3.8
60°-70°	1.3	0.5
70°-80°	1.0	0.4
80°-90°	0.5	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°	124.2	45.7
0°-40°	205.9	75.7
0°-60°	269.2	99.0
0°-90°	272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	272.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	235	191	96	39	26	25
15°	442	302	46	3	2	127
25°	556	330	10	1	2	260
35°	600	222	1	1	2	369
45°	394	56	1	2	2	297
55°	31	0	1	2	3	60
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°	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5
2.5°	168.1	167.6	168.3	163.8	163.6	160.1	159.2	155.4	150.1	147.6	141.7
5°	235.0	232.7	232.7	227.2	225.4	221.6	215.0	206.8	200.0	190.6	180.6
7.5°	286.6	286.2	286.2	281.4	276.8	271.4	262.5	253.2	242.3	227.9	213.4
10°	327.3	328.0	326.0	321.7	315.1	309.1	298.7	287.3	273.9	258.9	239.5
12.5°	378.7	373.7	372.2	362.4	354.0	342.6	330.1	317.1	300.5	281.6	259.8
15°	442.4	436.1	429.7	416.7	402.6	385.1	365.6	346.4	325.1	302.1	274.8
17.5°	499.3	499.3	490.9	470.4	452.2	426.3	399.9	374.4	349.2	318.9	284.8
20°	538.2	536.2	529.8	514.8	494.1	464.7	430.4	394.7	364.2	330.1	290.5
22.5°	550.9	550.5	550.7	541.8	525.2	494.8	452.7	410.6	372.4	332.8	287.8
25°	555.5	556.4	558.7	555.3	542.8	512.3	466.3	418.1	374.9	329.6	277.3
27.5°	574.4	572.6	575.1	572.8	558.7	522.3	469.1	416.3	369.4	318.0	258.6
30°	589.2	588.7	593.0	591.0	572.6	528.7	466.6	409.5	356.0	294.1	229.3
32.5°	597.6	597.8	598.9	590.5	563.2	514.8	454.3	395.6	330.7	263.0	191.1
35°	600.3	598.9	592.6	571.9	534.6	482.7	424.0	362.6	296.4	221.8	151.0
37.5°	588.5	581.4	565.0	534.1	490.9	442.4	385.3	321.0	249.3	175.2	112.6
40°	543.2	533.9	513.2	481.6	441.3	394.4	336.0	268.6	193.4	128.5	79.2
42.5°	475.4	470.6	449.0	421.5	387.4	340.1	279.8	211.6	143.1	88.7	50.5
45°	393.8	387.6	374.0	349.6	322.8	273.2	217.0	151.5	97.6	56.0	25.0
47.5°	295.3	295.7	286.4	268.0	241.6	200.2	148.5	101.7	61.2	28.9	5.7
50°	230.0	226.8	213.6	194.7	164.0	133.3	96.0	64.1	32.3	5.9	0.5
52.5°	127.4	129.4	122.4	116.2	100.3	79.6	56.6	32.5	6.8	0.7	0.5
55°	31.2	33.0	31.6	32.3	33.4	29.8	23.0	6.4	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.1	1.6	1.6	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	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
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°	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5
2.5°	138.8	134.4	126.5	102.8	82.6	66.7	57.1	56.2
5°	171.7	160.1	143.3	96.4	61.0	38.7	28.0	26.4
7.5°	197.9	181.5	155.6	86.0	41.6	19.8	10.9	9.1
10°	219.5	196.3	162.0	73.7	26.2	8.4	4.5	3.9
12.5°	234.3	206.3	163.1	60.1	15.0	4.1	3.0	2.7
15°	243.9	209.5	157.6	46.2	8.4	2.7	2.5	2.3
17.5°	247.7	206.8	147.2	33.4	4.5	2.0	2.0	2.0
20°	245.9	197.9	131.7	23.4	3.0	1.8	1.8	1.8
22.5°	237.3	182.7	112.4	15.7	2.0	1.6	1.6	1.6
25°	220.2	162.0	91.9	10.5	1.4	1.4	1.6	1.6
27.5°	194.7	136.5	70.3	7.1	1.1	1.4	1.6	1.6
30°	162.6	108.1	50.5	4.5	1.1	1.4	1.4	1.6
32.5°	129.2	78.7	33.2	2.7	0.9	1.4	1.6	1.8
35°	93.7	53.7	21.2	1.4	1.1	1.4	1.6	1.8
37.5°	65.7	35.0	12.3	0.9	1.1	1.4	1.8	1.8
40°	42.8	19.6	4.5	0.7	1.1	1.6	1.8	2.0
42.5°	22.3	6.8	0.9	0.7	1.1	1.6	2.0	2.3
45°	5.7	0.9	0.2	0.7	1.4	1.8	2.3	2.3
47.5°	0.7	0.2	0.2	0.9	1.4	2.0	2.3	2.5
50°	0.2	0.5	0.5	0.9	1.4	2.0	2.5	2.7
52.5°	0.5	0.5	0.5	0.9	1.6	2.0	2.7	3.0
55°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	3.0
57.5°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.7
60°	0.5	0.5	0.5	0.9	1.6	2.3	2.7	2.7
62.5°	0.5	0.5	0.7	0.9	1.6	2.0	2.7	2.7
65°	0.5	0.7	0.7	0.9	1.6	2.0	2.5	2.7
67.5°	0.5	0.5	0.7	0.9	1.6	2.0	2.5	2.7
70°	0.5	0.5	0.7	0.9	1.4	1.8	2.3	2.5
72.5°	0.5	0.5	0.7	0.9	1.4	1.8	2.0	2.3
75°	0.5	0.5	0.7	0.9	1.1	1.6	2.0	2.0
77.5°	0.5	0.5	0.7	0.7	1.1	1.4	1.8	1.8
80°	0.5	0.5	0.7	0.7	0.9	1.1	1.4	1.6
82.5°	0.5	0.5	0.5	0.7	0.7	0.9	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)