

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: P1335829

Luminaire Tested: P3A02R409835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

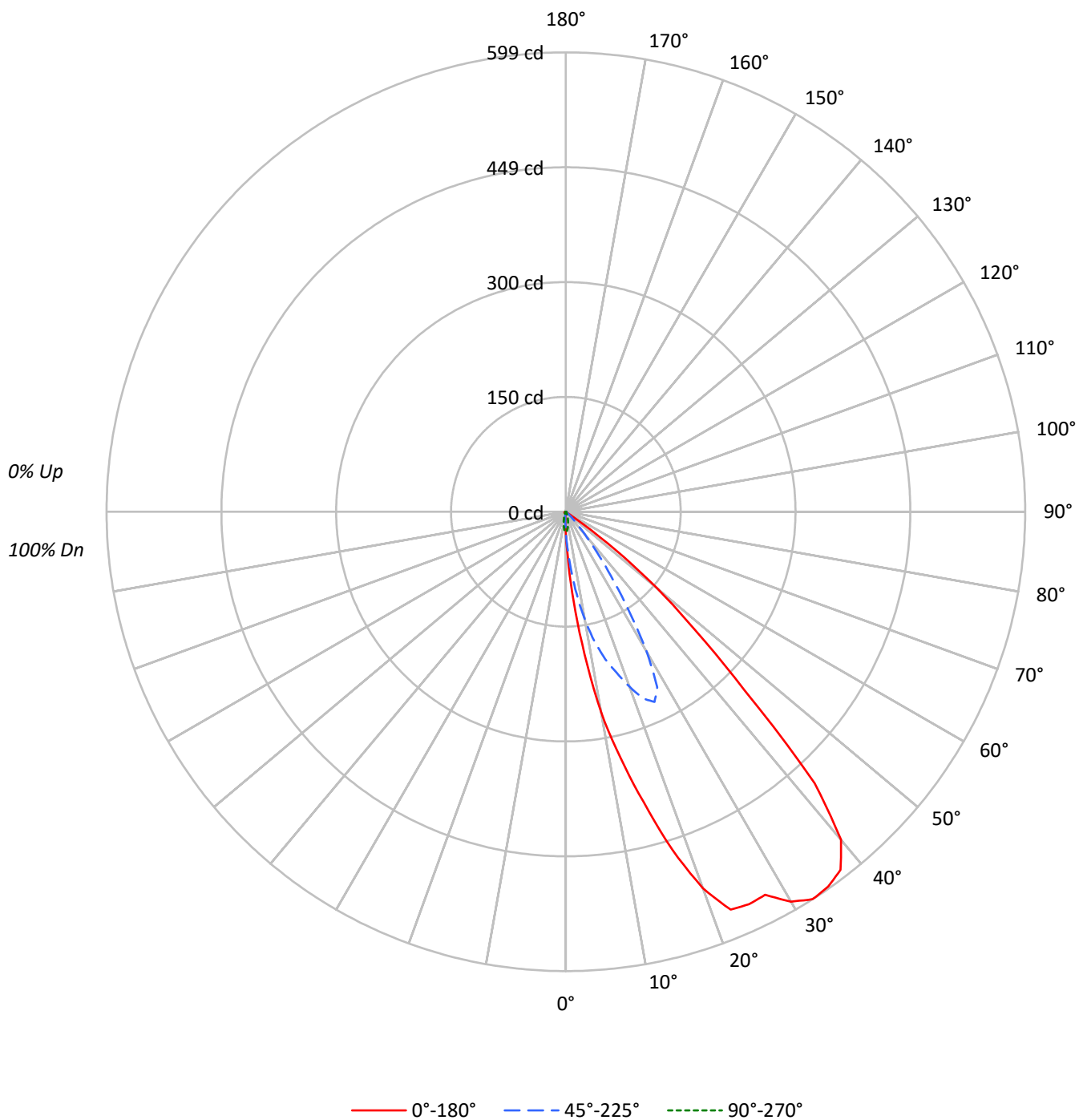
Lumens per Lamp: N/A
Luminaire Lumens: 221.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5723	5723	5723	5723	5723
5°	25864	16487	5129	1981	1431
10°	59318	31863	3629	713	534
15°	89013	45199	2247	386	341
20°	121881	56658	1307	210	257
25°	136629	66197	677	169	218
30°	148605	53451	279	152	228
35°	159705	27358	107	187	294
40°	159756	10906	57	200	372
45°	101995	3659	124	341	527
50°	52945	443	205	443	648
55°	4588	76	229	573	803
60°	175	88	263	658	921
65°	208	104	363	675	986
70°	128	128	449	705	962
75°	169	169	508	763	1101
80°	253	253	758	758	884
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 101995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	2.3
10°-20°	29.9	13.5
20°-30°	65.5	29.6
30°-40°	74.6	33.8
40°-50°	39.4	17.8
50°-60°	4.7	2.1
60°-70°	0.8	0.4
70°-80°	0.7	0.3
80°-90°	0.3	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°	100.5	45.5
0°-40°	175.1	79.2
0°-60°	219.2	99.2
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	118	75	23	9	6	16
15°	392	199	10	2	2	116
25°	565	274	3	1	1	260
35°	597	102	0	1	1	370
45°	329	12	0	1	2	265
55°	12	0	1	2	2	37
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	67.5°
0°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	58.3	58.3	58.1	56.4	56.2	56.0	53.0	52.3	48.8	46.3	35.3
5°	117.5	114.9	114.7	111.7	106.7	99.9	95.6	88.7	82.0	74.9	43.5
7.5°	187.2	189.4	183.2	180.1	168.9	160.8	148.5	137.7	122.5	108.3	50.2
10°	266.4	262.4	256.3	250.1	238.0	223.6	205.3	186.0	164.2	143.1	54.0
12.5°	328.2	323.1	319.4	311.0	299.0	280.6	258.7	232.9	204.0	173.5	53.8
15°	392.1	387.0	378.6	371.1	353.4	332.7	308.9	274.9	239.5	199.1	49.9
17.5°	462.3	455.8	446.4	435.0	417.8	394.9	364.8	323.3	273.1	220.0	42.8
20°	522.3	518.3	509.0	495.5	478.7	456.3	421.6	375.6	314.4	242.8	34.0
22.5°	561.5	557.9	551.6	539.8	527.1	503.2	471.4	421.0	348.9	263.6	25.8
25°	564.7	563.2	561.5	557.6	549.9	532.9	501.9	447.5	370.4	273.6	19.1
27.5°	563.0	562.4	562.0	560.0	554.9	538.1	506.4	451.5	367.6	258.0	14.0
30°	586.9	585.2	584.3	577.5	564.3	538.3	496.8	430.4	326.7	211.1	10.1
32.5°	599.0	598.6	597.7	591.2	572.5	538.7	480.8	379.4	259.1	152.4	6.9
35°	596.6	594.7	591.4	579.2	553.3	510.9	428.9	303.0	187.0	102.2	4.5
37.5°	588.4	584.1	577.5	555.7	521.1	463.2	347.8	223.0	127.2	66.1	2.6
40°	558.1	552.3	542.1	515.3	470.0	381.8	257.2	150.7	83.5	38.1	0.7
42.5°	479.9	472.4	464.9	435.0	383.1	284.7	169.2	93.2	47.6	20.9	0.2
45°	328.9	319.6	309.3	287.6	246.0	172.4	100.7	52.5	24.7	11.8	0.2
47.5°	228.4	224.1	206.2	178.6	136.9	91.3	52.1	25.8	13.1	5.4	0.2
50°	155.2	150.4	129.4	102.7	72.8	43.7	23.9	12.9	5.8	1.3	0.2
52.5°	81.4	75.5	62.2	47.4	29.5	18.3	10.5	5.6	1.7	0.2	0.2
55°	12.0	11.0	9.0	7.3	6.5	5.0	3.0	1.3	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.4	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.6
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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):

	90°	112.5°	135°	157.5°	180°
0°	26.1	26.1	26.1	26.1	26.1
2.5°	25.8	19.1	14.8	12.7	12.5
5°	23.3	13.6	9.0	6.9	6.5
7.5°	19.8	9.5	5.2	3.7	3.5
10°	16.3	6.5	3.2	2.6	2.4
12.5°	12.9	4.3	2.2	2.1	1.9
15°	9.9	2.8	1.7	1.5	1.5
17.5°	7.5	1.9	1.3	1.3	1.3
20°	5.6	1.3	0.9	1.1	1.1
22.5°	3.9	0.9	0.7	0.9	0.9
25°	2.8	0.7	0.7	0.9	0.9
27.5°	1.9	0.6	0.6	0.7	0.9
30°	1.1	0.4	0.6	0.7	0.9
32.5°	0.6	0.4	0.6	0.9	0.9
35°	0.4	0.6	0.7	0.9	1.1
37.5°	0.2	0.6	0.7	1.1	1.1
40°	0.2	0.6	0.7	1.1	1.3
42.5°	0.4	0.7	0.9	1.3	1.5
45°	0.4	0.7	1.1	1.5	1.7
47.5°	0.4	0.7	1.3	1.7	1.7
50°	0.6	0.9	1.3	1.7	1.9
52.5°	0.6	0.9	1.3	1.9	2.1
55°	0.6	0.9	1.5	1.9	2.1
57.5°	0.6	1.1	1.5	1.9	2.1
60°	0.6	0.9	1.5	1.9	2.1
62.5°	0.7	0.9	1.3	1.9	1.9
65°	0.7	0.9	1.3	1.9	1.9
67.5°	0.7	0.9	1.3	1.7	1.7
70°	0.7	0.9	1.1	1.5	1.5
72.5°	0.7	0.9	1.1	1.3	1.5
75°	0.6	0.7	0.9	1.1	1.3
77.5°	0.6	0.7	0.7	1.1	1.1
80°	0.6	0.6	0.6	0.7	0.7
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	0.4	0.4	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)