

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: P1336149

Luminaire Tested: P3A02R459830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336149
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: P3A02R459830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

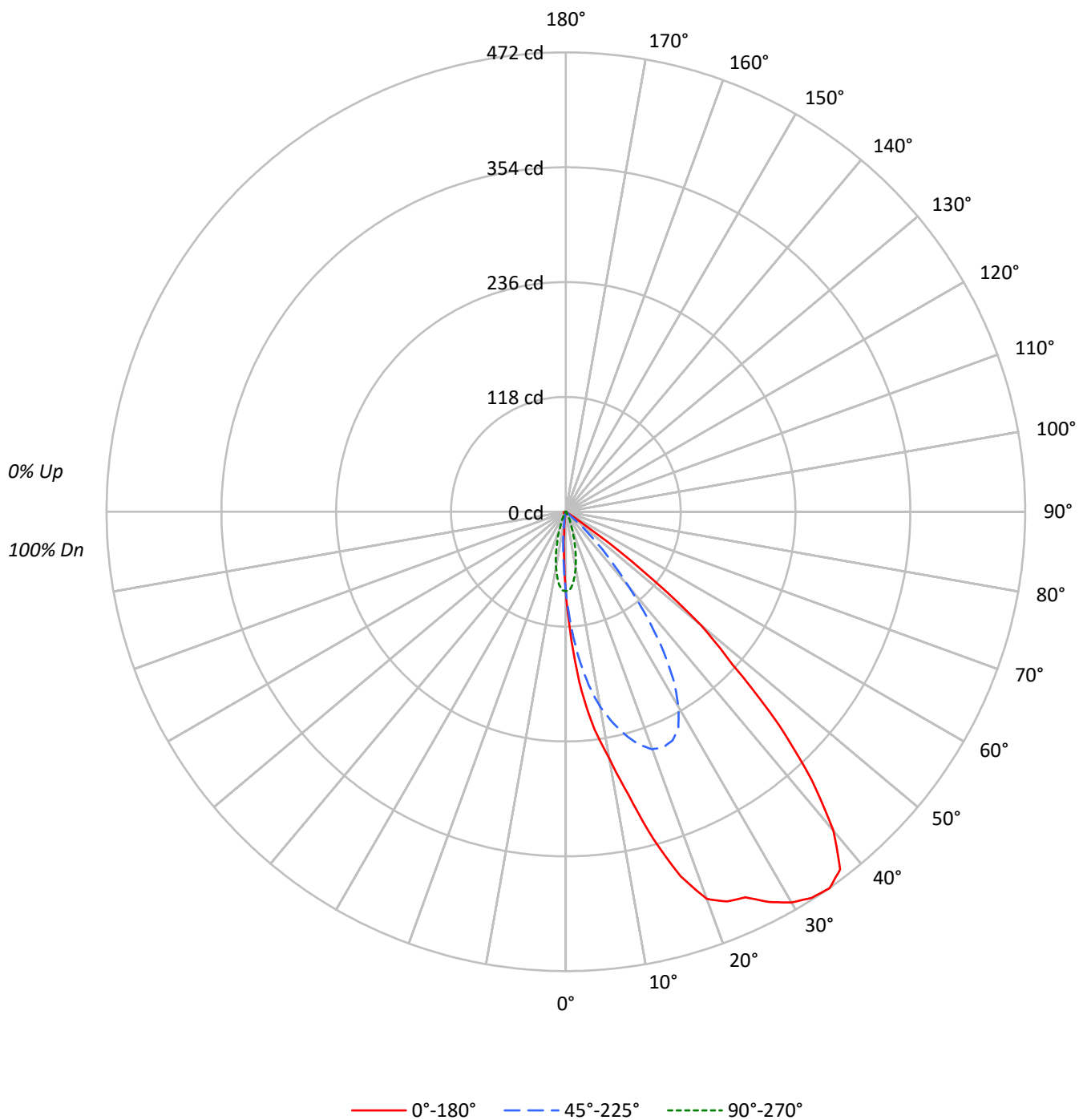
Lumens per Lamp: N/A
Luminaire Lumens: 214.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	94	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°	17849	17849	17849	17849	17849
5°	40700	33018	16707	6692	4578
10°	57336	45357	12914	1470	668
15°	79024	53962	8241	477	409
20°	98802	60602	4294	327	327
25°	105732	62737	1984	266	315
30°	117360	58591	912	279	329
35°	126431	46712	294	294	375
40°	122344	28940	143	372	458
45°	96072	13645	155	434	558
50°	61712	1603	239	546	716
55°	9366	153	268	688	879
60°	175	175	307	789	921
65°	208	208	363	830	1090
70°	256	256	449	898	1282
75°	169	339	593	1101	1356
80°	253	505	631	1137	1642
85°	0	503	1006	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 96072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	4.2
10°-20°	32.2	15.1
20°-30°	56.6	26.4
30°-40°	64.3	30.0
40°-50°	41.6	19.4
50°-60°	8.2	3.8
60°-70°	1.0	0.5
70°-80°	0.8	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°	97.7	45.7
0°-40°	162.0	75.7
0°-60°	211.8	99.0
0°-90°	214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	214.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	81	81	81	81	81	
5°	185	150	76	30	21	20
15°	348	238	36	2	2	100
25°	437	259	8	1	1	205
35°	472	174	1	1	1	290
45°	310	44	0	1	2	233
55°	24	0	1	2	2	47
65°	0	0	1	2	2	0
75°	0	0	1	1	2	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°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2.5°	132.3	131.9	132.4	128.9	128.7	126.0	125.3	122.2	118.1	116.2	111.5
5°	184.9	183.1	183.1	178.8	177.4	174.3	169.1	162.7	157.3	150.0	142.1
7.5°	225.5	225.1	225.1	221.4	217.8	213.5	206.5	199.2	190.6	179.3	167.9
10°	257.5	258.1	256.5	253.1	247.9	243.2	235.0	226.0	215.5	203.7	188.5
12.5°	298.0	294.0	292.8	285.1	278.5	269.5	259.7	249.5	236.4	221.6	204.4
15°	348.1	343.1	338.1	327.9	316.8	303.0	287.6	272.6	255.7	237.7	216.2
17.5°	392.8	392.8	386.2	370.1	355.8	335.4	314.6	294.6	274.7	250.9	224.1
20°	423.4	421.8	416.8	405.0	388.7	365.6	338.6	310.5	286.5	259.7	228.5
22.5°	433.5	433.1	433.3	426.3	413.2	389.3	356.1	323.0	293.0	261.8	226.4
25°	437.0	437.8	439.5	436.9	427.0	403.0	366.9	328.9	294.9	259.3	218.2
27.5°	451.9	450.5	452.4	450.6	439.5	410.9	369.0	327.5	290.6	250.2	203.5
30°	463.5	463.2	466.6	465.0	450.5	415.9	367.1	322.1	280.1	231.4	180.4
32.5°	470.2	470.3	471.2	464.6	443.1	405.0	357.4	311.2	260.2	206.9	150.3
35°	472.3	471.2	466.2	449.9	420.6	379.8	333.6	285.3	233.2	174.5	118.8
37.5°	463.0	457.4	444.6	420.2	386.2	348.1	303.2	252.5	196.2	137.8	88.6
40°	427.4	420.0	403.8	378.9	347.2	310.3	264.3	211.4	152.1	101.1	62.3
42.5°	374.0	370.3	353.3	331.6	304.8	267.6	220.1	166.4	112.6	69.8	39.7
45°	309.8	305.0	294.2	275.1	254.0	214.9	170.7	119.2	76.8	44.0	19.7
47.5°	232.3	232.7	225.3	210.8	190.1	157.5	116.9	80.0	48.1	22.7	4.5
50°	180.9	178.4	168.1	153.2	129.0	104.9	75.5	50.5	25.4	4.7	0.4
52.5°	100.2	101.8	96.3	91.5	78.9	62.6	44.6	25.6	5.4	0.5	0.4
55°	24.5	26.0	24.9	25.4	26.3	23.4	18.1	5.0	0.5	0.4	0.4
57.5°	0.5	0.5	0.5	0.5	0.9	1.3	1.3	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°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2.5°	109.2	105.8	99.5	80.9	65.0	52.4	44.9	44.2
5°	135.1	126.0	112.8	75.9	48.0	30.4	22.0	20.8
7.5°	155.7	142.8	122.4	67.7	32.8	15.6	8.6	7.2
10°	172.7	154.5	127.4	58.0	20.6	6.6	3.6	3.0
12.5°	184.3	162.3	128.3	47.2	11.8	3.2	2.3	2.1
15°	191.9	164.8	124.0	36.3	6.6	2.1	2.0	1.8
17.5°	194.9	162.7	115.8	26.3	3.6	1.6	1.6	1.6
20°	193.5	155.7	103.6	18.4	2.3	1.4	1.4	1.4
22.5°	186.7	143.7	88.4	12.3	1.6	1.3	1.3	1.3
25°	173.2	127.4	72.3	8.2	1.1	1.1	1.3	1.3
27.5°	153.2	107.4	55.3	5.5	0.9	1.1	1.3	1.3
30°	128.0	85.0	39.7	3.6	0.9	1.1	1.1	1.3
32.5°	101.7	61.9	26.1	2.1	0.7	1.1	1.3	1.4
35°	73.7	42.2	16.6	1.1	0.9	1.1	1.3	1.4
37.5°	51.7	27.6	9.7	0.7	0.9	1.1	1.4	1.4
40°	33.6	15.4	3.6	0.5	0.9	1.3	1.4	1.6
42.5°	17.5	5.4	0.7	0.5	0.9	1.3	1.6	1.8
45°	4.5	0.7	0.2	0.5	1.1	1.4	1.8	1.8
47.5°	0.5	0.2	0.2	0.7	1.1	1.6	1.8	2.0
50°	0.2	0.4	0.4	0.7	1.1	1.6	2.0	2.1
52.5°	0.4	0.4	0.4	0.7	1.3	1.6	2.1	2.3
55°	0.4	0.4	0.4	0.7	1.3	1.8	2.1	2.3
57.5°	0.4	0.4	0.4	0.7	1.3	1.8	2.1	2.1
60°	0.4	0.4	0.4	0.7	1.3	1.8	2.1	2.1
62.5°	0.4	0.4	0.5	0.7	1.3	1.6	2.1	2.1
65°	0.4	0.5	0.5	0.7	1.3	1.6	2.0	2.1
67.5°	0.4	0.4	0.5	0.7	1.3	1.6	2.0	2.1
70°	0.4	0.4	0.5	0.7	1.1	1.4	1.8	2.0
72.5°	0.4	0.4	0.5	0.7	1.1	1.4	1.6	1.8
75°	0.4	0.4	0.5	0.7	0.9	1.3	1.6	1.6
77.5°	0.4	0.4	0.5	0.5	0.9	1.1	1.4	1.4
80°	0.4	0.4	0.5	0.5	0.7	0.9	1.1	1.3
82.5°	0.4	0.4	0.4	0.5	0.5	0.7	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
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)