

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: P1334965

Luminaire Tested: P3A02R309027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R309027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

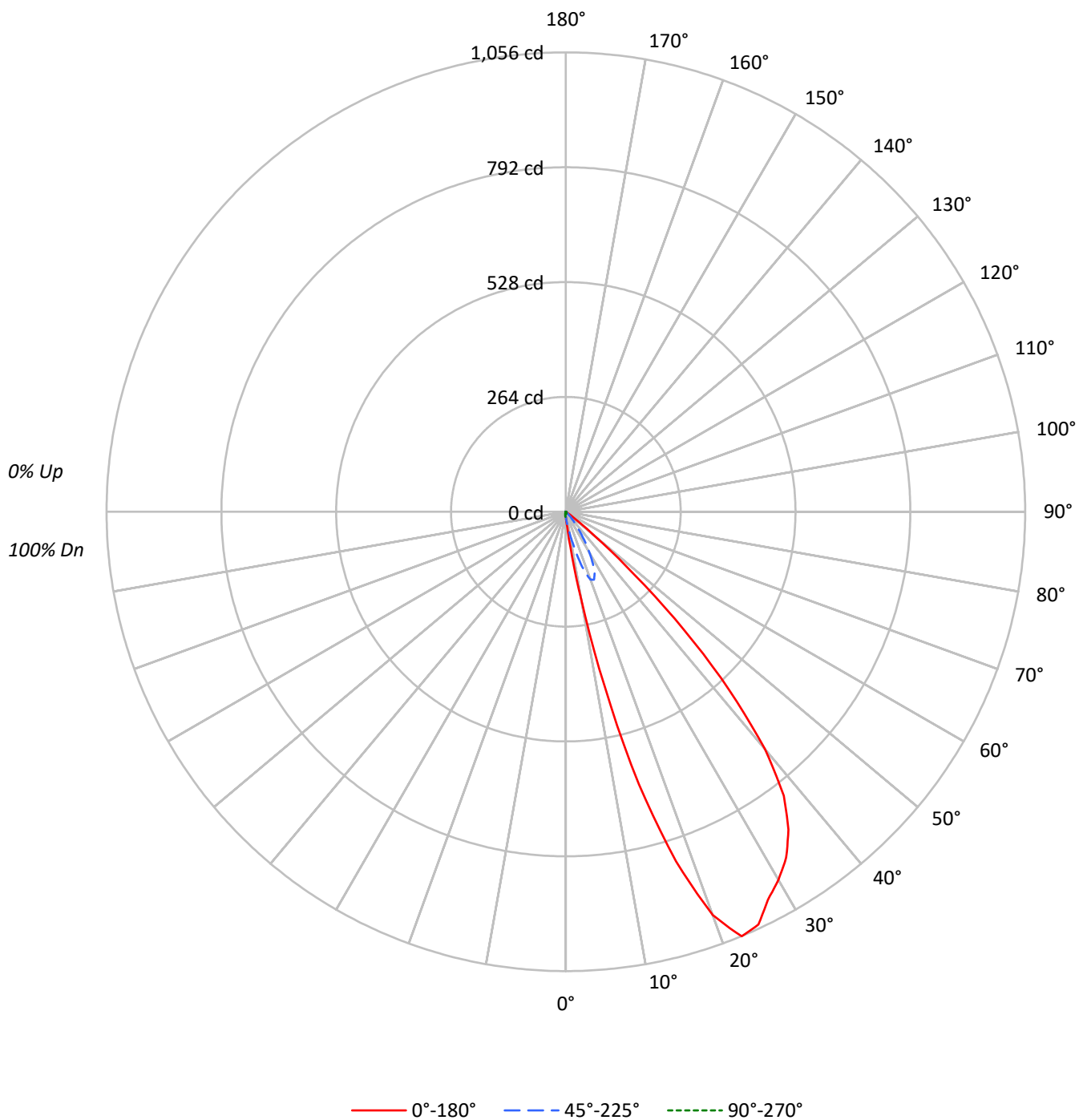
Lumens per Lamp: N/A
Luminaire Lumens: 249.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	87	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	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°	2588	2588	2588	2588	2588
5°	7814	5217	2443	1101	902
10°	45245	11044	1915	512	356
15°	147152	25063	1339	114	45
20°	230273	38760	840	0	0
25°	253345	37865	436	0	0
30°	247430	27295	177	0	0
35°	238808	15526	54	0	0
40°	203667	6584	0	0	0
45°	119516	2481	62	0	62
50°	29031	478	68	68	239
55°	2523	0	191	268	344
60°	88	0	219	307	482
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	593	593
80°	0	253	884	631	631
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 119516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.9
10°-20°	34.2	13.7
20°-30°	87.0	34.9
30°-40°	86.7	34.8
40°-50°	35.1	14.1
50°-60°	2.4	1.0
60°-70°	0.5	0.2
70°-80°	0.6	0.2
80°-90°	0.3	0.1
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°	123.4	49.5
0°-40°	210.0	84.3
0°-60°	247.6	99.4
0°-90°	249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	249.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	36	24	11	5	4	8
15°	648	110	6	0	0	189
25°	1047	156	2	0	0	473
35°	892	58	0	0	0	547
45°	385	8	0	0	0	294
55°	7	0	0	1	1	17
65°	0	0	1	1	1	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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	19.6	19.8	19.8	19.3	19.1	19.1	18.4	18.2	17.5	16.8	14.6
5°	35.5	34.8	33.9	33.9	31.9	30.7	29.1	27.3	25.9	23.7	16.8
7.5°	80.5	75.1	73.5	71.4	63.7	57.6	50.5	44.4	38.7	33.9	18.7
10°	203.2	192.5	183.6	165.6	143.1	121.5	101.5	78.3	62.3	49.6	20.0
12.5°	409.3	395.0	377.9	345.2	303.1	249.1	201.4	150.4	105.6	73.0	20.5
15°	648.2	623.9	597.3	555.6	486.7	409.3	323.1	241.9	169.5	110.4	20.0
17.5°	843.0	833.4	794.1	737.2	652.8	553.1	446.9	335.8	228.7	144.5	18.7
20°	986.8	980.2	932.6	872.1	777.0	662.8	527.9	394.5	269.8	166.1	16.6
22.5°	1056.2	1055.1	1020.7	958.8	858.0	728.5	580.0	428.4	282.6	169.1	13.9
25°	1047.1	1051.2	1031.6	985.7	889.0	755.6	595.4	428.4	273.3	156.5	11.6
27.5°	1005.7	1008.4	996.1	960.9	870.8	736.1	573.8	400.9	246.2	134.5	9.6
30°	977.2	978.4	963.1	925.4	829.8	691.5	522.9	349.9	205.2	107.8	7.1
32.5°	942.7	942.4	924.7	881.4	776.1	628.9	458.2	289.2	157.7	81.9	4.1
35°	892.1	886.5	862.3	812.5	696.0	544.7	375.7	220.2	113.5	58.0	2.5
37.5°	822.7	808.0	773.8	707.2	583.6	427.1	278.5	154.7	77.6	38.5	1.6
40°	711.5	695.8	649.4	568.4	441.4	307.4	187.7	100.8	48.9	23.0	0.9
42.5°	557.9	547.2	484.6	403.9	291.5	196.1	112.9	59.6	27.5	13.2	0.2
45°	385.4	371.6	322.4	253.9	175.0	108.8	63.3	31.2	15.7	8.0	0.0
47.5°	212.7	195.7	167.2	131.5	88.1	57.1	31.9	16.8	8.9	3.9	0.0
50°	85.1	84.4	67.1	47.8	33.7	25.9	15.9	9.1	4.6	1.4	0.2
52.5°	29.8	29.8	25.7	20.9	16.4	11.8	8.0	4.3	1.6	0.5	0.2
55°	6.6	7.3	6.8	6.4	6.1	5.2	3.4	1.6	0.5	0.0	0.2
57.5°	0.7	0.7	0.7	0.9	1.1	1.1	0.9	0.5	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.5
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.5
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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°	11.8	11.8	11.8	11.8	11.8
2.5°	11.8	9.3	7.7	6.8	6.6
5°	11.1	7.1	5.0	4.3	4.1
7.5°	10.0	5.2	3.4	2.7	2.5
10°	8.6	3.9	2.3	1.6	1.6
12.5°	7.3	3.0	1.4	0.7	0.5
15°	5.9	1.8	0.5	0.2	0.2
17.5°	4.6	1.1	0.0	0.0	0.0
20°	3.6	0.5	0.0	0.0	0.0
22.5°	2.7	0.2	0.0	0.0	0.0
25°	1.8	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.7	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.5	0.5
50°	0.2	0.2	0.2	0.5	0.7
52.5°	0.5	0.2	0.5	0.7	0.7
55°	0.5	0.5	0.7	0.9	0.9
57.5°	0.5	0.5	0.7	0.9	0.9
60°	0.5	0.5	0.7	0.9	1.1
62.5°	0.7	0.7	0.7	0.9	0.9
65°	0.7	0.7	0.7	0.9	1.1
67.5°	0.7	0.7	0.7	0.9	1.1
70°	0.7	0.7	0.7	0.9	0.9
72.5°	0.9	0.7	0.7	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.5	0.7	0.7
80°	0.7	0.5	0.5	0.5	0.5
82.5°	0.7	0.5	0.5	0.5	0.5
85°	0.7	0.5	0.2	0.2	0.2
87.5°	0.7	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)