

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: P1335045

Luminaire Tested: P3A02R309050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335045
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: P3A02R309050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

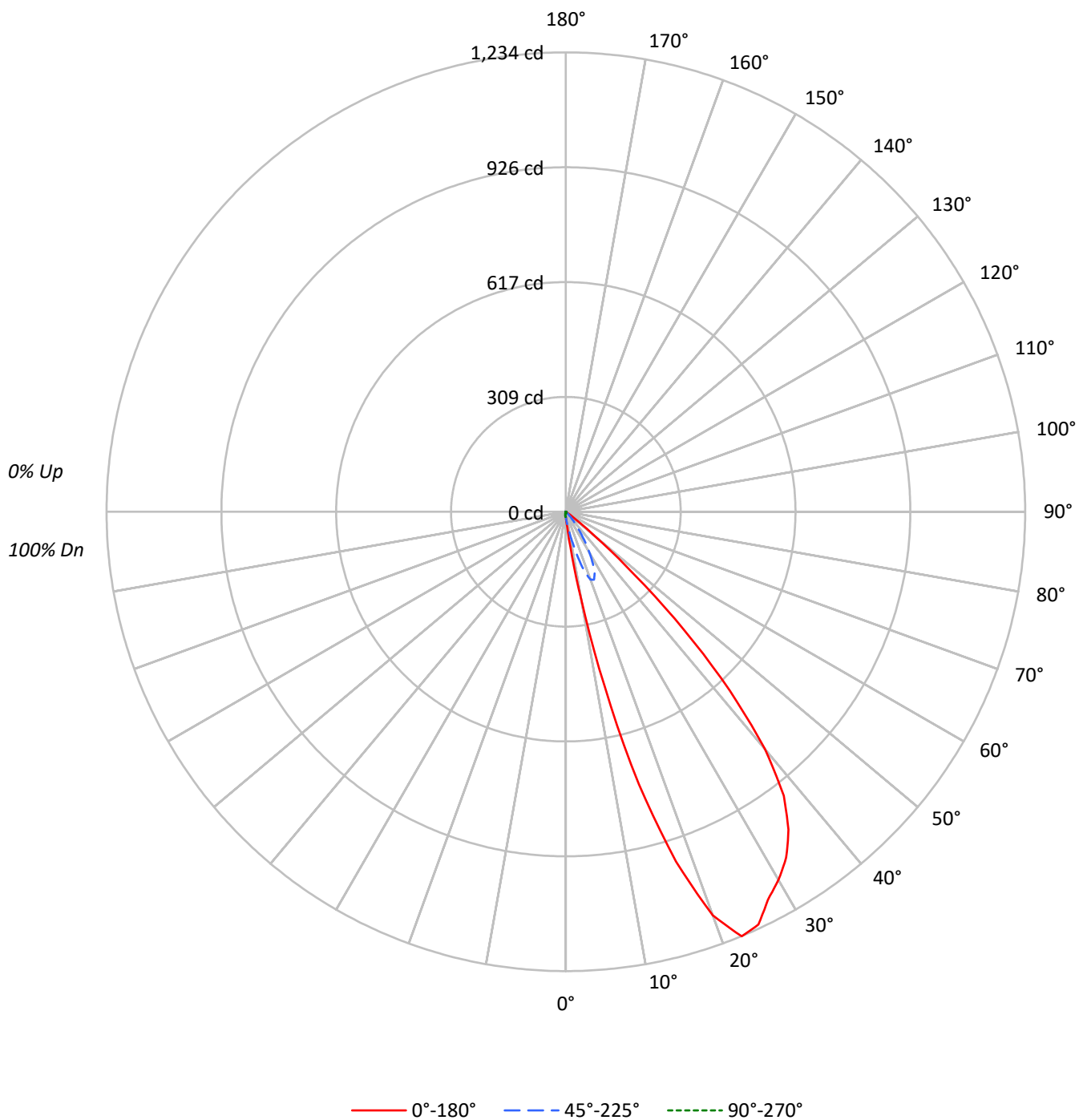
Lumens per Lamp: N/A
Luminaire Lumens: 291.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3026	3026	3026	3026	3026
5°	9135	6097	2862	1277	1057
10°	52883	12914	2249	601	423
15°	171987	29285	1566	114	68
20°	269103	45294	1003	0	0
25°	296074	44253	508	0	0
30°	289184	31904	203	0	0
35°	279096	18150	80	0	0
40°	238017	7700	0	0	0
45°	139673	2884	93	0	93
50°	33909	546	102	102	273
55°	2944	0	191	306	421
60°	132	0	219	351	570
65°	156	156	415	415	675
70°	192	192	513	513	705
75°	0	254	678	678	678
80°	0	379	1010	631	631
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 139673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.9
10°-20°	40.0	13.7
20°-30°	101.6	34.9
30°-40°	101.3	34.8
40°-50°	41.0	14.1
50°-60°	2.8	1.0
60°-70°	0.7	0.2
70°-80°	0.6	0.2
80°-90°	0.4	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°	144.2	49.5
0°-40°	245.5	84.3
0°-60°	289.4	99.4
0°-90°	291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	291.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	42	28	13	6	5	10
15°	758	129	7	0	0	220
25°	1224	183	2	0	0	553
35°	1043	68	0	0	0	639
45°	450	9	0	0	0	344
55°	8	0	0	1	1	20
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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	22.9	23.1	23.1	22.6	22.3	22.3	21.5	21.3	20.5	19.7	17.0
5°	41.5	40.7	39.6	39.6	37.2	35.9	34.0	31.9	30.3	27.7	19.7
7.5°	94.1	87.7	85.9	83.5	74.5	67.3	59.0	51.9	45.2	39.6	21.8
10°	237.5	225.0	214.6	193.6	167.3	142.0	118.6	91.5	72.9	58.0	23.4
12.5°	478.4	461.6	441.7	403.4	354.2	291.2	235.3	175.8	123.4	85.4	23.9
15°	757.6	729.1	698.0	649.3	568.8	478.4	377.6	282.7	198.1	129.0	23.4
17.5°	985.2	974.0	928.0	861.5	762.9	646.4	522.2	392.5	267.2	168.9	21.8
20°	1153.2	1145.5	1090.0	1019.2	908.1	774.6	616.9	461.1	315.4	194.1	19.4
22.5°	1234.3	1233.0	1192.9	1120.5	1002.7	851.4	677.8	500.7	330.3	197.6	16.2
25°	1223.7	1228.5	1205.6	1151.9	1038.9	883.1	695.9	500.7	319.4	182.9	13.6
27.5°	1175.3	1178.5	1164.1	1122.9	1017.6	860.2	670.6	468.5	287.7	157.2	11.2
30°	1142.1	1143.4	1125.6	1081.4	969.8	808.1	611.1	409.0	239.8	126.0	8.2
32.5°	1101.7	1101.4	1080.6	1030.1	907.0	735.0	535.5	338.0	184.3	95.7	4.8
35°	1042.6	1036.0	1007.8	949.6	813.4	636.6	439.0	257.4	132.7	67.8	2.9
37.5°	961.5	944.2	904.4	826.4	682.1	499.1	325.5	180.8	90.7	44.9	1.9
40°	831.5	813.1	758.9	664.2	515.9	359.2	219.4	117.8	57.2	26.9	1.1
42.5°	652.0	639.5	566.4	472.0	340.6	229.2	131.9	69.7	32.2	15.4	0.3
45°	450.4	434.2	376.8	296.8	204.5	127.1	73.9	36.4	18.3	9.3	0.0
47.5°	248.6	228.7	195.4	153.7	102.9	66.7	37.2	19.7	10.4	4.5	0.0
50°	99.4	98.7	78.4	55.8	39.4	30.3	18.6	10.6	5.3	1.6	0.3
52.5°	34.8	34.8	30.0	24.5	19.1	13.8	9.3	5.1	1.9	0.5	0.3
55°	7.7	8.5	8.0	7.4	7.2	6.1	4.0	1.9	0.5	0.0	0.3
57.5°	0.8	0.8	0.8	1.1	1.3	1.3	1.1	0.5	0.0	0.0	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.5
62.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.5
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
75°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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°	13.8	13.8	13.8	13.8	13.8
2.5°	13.8	10.9	9.0	8.0	7.7
5°	13.0	8.2	5.8	5.1	4.8
7.5°	11.7	6.1	4.0	3.2	2.9
10°	10.1	4.5	2.7	1.9	1.9
12.5°	8.5	3.5	1.6	0.8	0.5
15°	6.9	2.1	0.5	0.3	0.3
17.5°	5.3	1.3	0.0	0.0	0.0
20°	4.3	0.5	0.0	0.0	0.0
22.5°	3.2	0.3	0.0	0.0	0.0
25°	2.1	0.0	0.0	0.0	0.0
27.5°	1.3	0.0	0.0	0.0	0.0
30°	0.8	0.0	0.0	0.0	0.0
32.5°	0.3	0.0	0.0	0.0	0.0
35°	0.3	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°	0.3	0.0	0.0	0.3	0.3
47.5°	0.3	0.3	0.3	0.5	0.5
50°	0.3	0.3	0.3	0.5	0.8
52.5°	0.5	0.3	0.5	0.8	0.8
55°	0.5	0.5	0.8	1.1	1.1
57.5°	0.5	0.5	0.8	1.1	1.1
60°	0.5	0.5	0.8	1.1	1.3
62.5°	0.8	0.8	0.8	1.1	1.1
65°	0.8	0.8	0.8	1.1	1.3
67.5°	0.8	0.8	0.8	1.1	1.3
70°	0.8	0.8	0.8	1.1	1.1
72.5°	1.1	0.8	0.8	1.1	1.1
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.5	0.8	0.8
80°	0.8	0.5	0.5	0.5	0.5
82.5°	0.8	0.5	0.5	0.5	0.5
85°	0.8	0.5	0.3	0.3	0.3
87.5°	0.8	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)