

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: P1334193

Luminaire Tested: P3A02R159840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

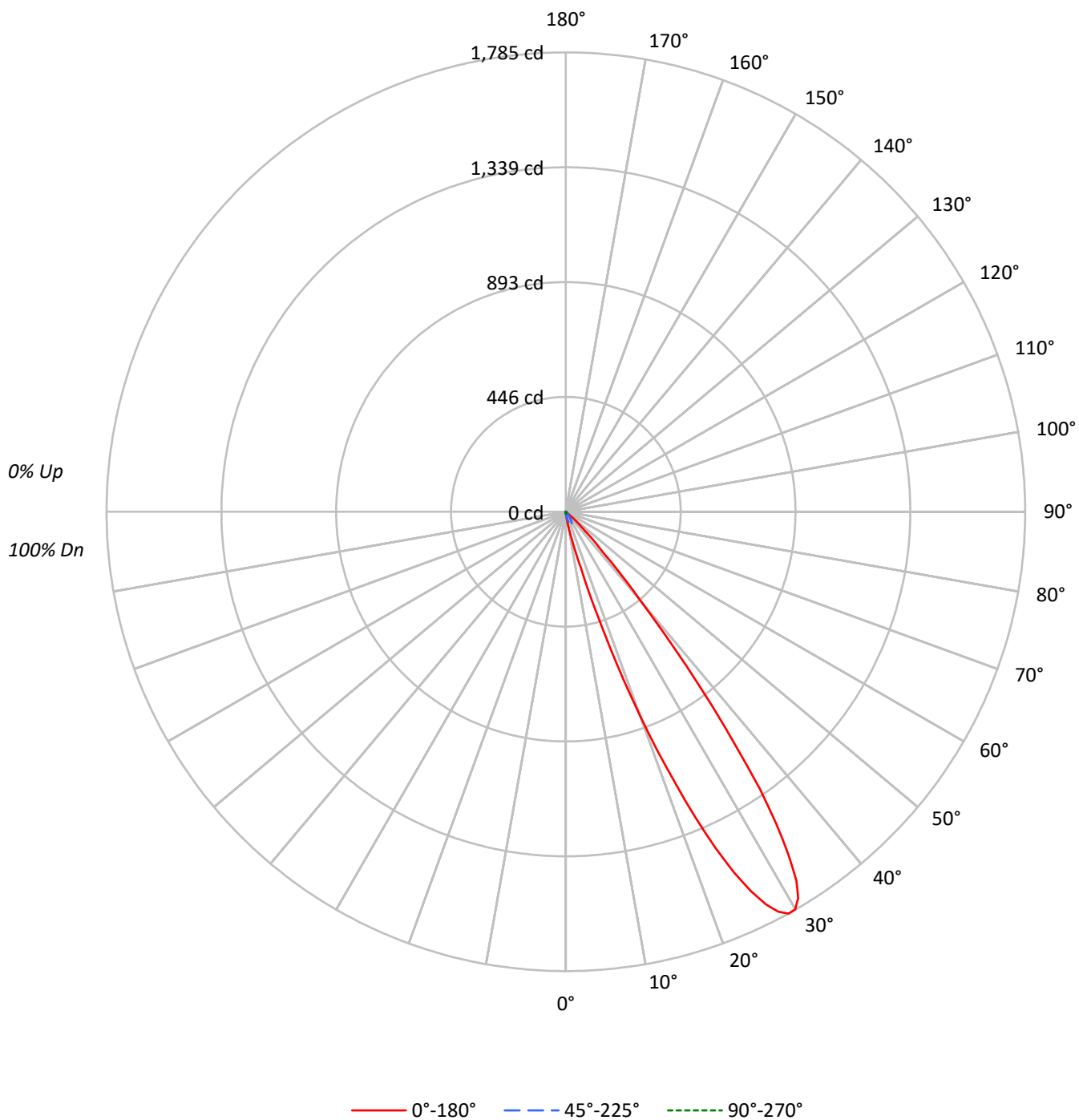
Lumens per Lamp: N/A
Luminaire Lumens: 195.1 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1403	1403	1403	1403	1403
5°	3038	2245	1343	704	594
10°	13516	4275	1047	289	200
15°	51124	9852	726	136	91
20°	196577	13908	443	47	47
25°	373812	13041	218	0	0
30°	451563	10508	101	0	0
35°	352203	7147	54	0	0
40°	128527	3521	57	0	57
45°	32996	1054	62	0	124
50°	5561	136	68	68	205
55°	726	0	153	229	344
60°	88	88	263	351	482
65°	104	104	415	467	571
70°	128	128	513	513	577
75°	169	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	14.9	7.7
20°-30°	82.9	42.5
30°-40°	80.1	41.0
40°-50°	13.9	7.1
50°-60°	1.0	0.5
60°-70°	0.6	0.3
70°-80°	0.5	0.3
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°	98.7	50.6
0°-40°	178.8	91.6
0°-60°	193.7	99.3
0°-90°	195.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	195.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	14	10	6	3	3	3
15°	225	43	3	1	0	100
25°	1545	54	1	0	0	691
35°	1316	27	0	0	0	757
45°	106	3	0	0	0	114
55°	2	0	0	1	1	4
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	9.5	9.1	9.3	9.3	9.3	9.3	9.3	8.9	8.9	9.1	8.2
5°	13.8	13.8	13.7	13.8	13.8	13.7	13.3	13.1	13.1	12.7	10.2
7.5°	27.7	27.3	27.3	26.9	25.0	24.5	24.1	23.1	21.4	21.1	13.3
10°	60.7	60.9	59.6	57.9	57.7	54.8	53.9	52.2	48.9	45.7	19.2
12.5°	110.2	107.7	104.5	104.7	99.2	97.3	92.9	88.2	83.3	78.2	31.5
15°	225.2	218.1	222.3	212.1	200.5	187.4	174.1	157.4	143.2	128.0	43.4
17.5°	474.2	481.0	469.5	425.7	398.7	367.0	322.5	279.4	242.6	213.0	53.1
20°	842.4	852.4	813.2	775.1	709.6	638.3	563.9	479.7	399.1	329.3	59.6
21°	996.2	990.2	974.0	913.0	837.5	754.8	663.7	570.8	473.1	382.4	60.1
22°	1144.9	1147.8	1110.2	1046.3	967.8	876.2	765.0	650.2	545.0	425.7	59.2
23°	1293.1	1302.2	1252.5	1192.6	1093.7	990.4	861.7	737.9	607.8	475.2	57.3
24°	1430.2	1424.0	1390.4	1314.9	1209.2	1088.2	954.7	804.5	659.3	517.5	55.8
25°	1545.0	1544.2	1491.5	1418.1	1297.3	1163.2	1016.0	858.9	703.5	546.1	53.9
26°	1638.9	1623.5	1582.0	1492.4	1373.1	1231.6	1066.2	898.5	728.4	560.5	52.0
27°	1711.3	1700.3	1644.6	1551.4	1426.8	1270.3	1098.5	918.3	739.8	565.3	49.5
28°	1760.1	1748.1	1688.8	1592.8	1456.4	1294.6	1115.5	926.6	739.8	560.7	47.2
29°	1785.3	1769.0	1709.8	1607.0	1463.2	1297.5	1111.4	918.5	728.2	546.7	44.6
30°	1783.4	1763.1	1701.1	1594.1	1442.9	1274.1	1088.0	889.1	702.0	525.8	41.5
31°	1752.7	1729.9	1660.7	1550.5	1401.0	1230.1	1044.0	849.6	666.2	498.7	38.5
32°	1690.3	1661.5	1593.9	1484.1	1336.5	1164.3	980.1	788.7	612.5	459.0	35.3
33°	1588.6	1559.6	1487.1	1384.1	1249.3	1080.8	895.3	723.3	551.4	411.8	32.6
34°	1461.3	1434.8	1372.4	1268.6	1139.3	975.2	797.8	632.8	488.1	365.0	29.8
35°	1315.7	1273.4	1216.8	1134.7	1008.6	843.5	692.5	548.6	422.8	315.8	26.7
36°	1118.6	1126.2	1066.2	965.7	861.2	731.8	586.9	457.3	353.6	269.2	24.1
37°	943.9	931.9	893.8	816.0	725.0	596.6	491.9	387.7	297.4	227.6	21.2
38°	761.4	764.1	726.7	666.9	576.6	490.5	395.9	318.5	248.9	193.7	18.6
39°	596.0	593.9	583.9	528.5	446.7	390.2	320.8	264.0	207.3	163.3	15.7
40°	449.0	452.4	428.9	395.5	347.9	301.4	255.5	210.6	171.5	137.7	12.3
42.5°	218.3	223.6	208.1	199.5	178.5	160.3	135.2	110.4	93.9	81.2	5.5
45°	106.4	103.4	102.1	97.9	92.9	83.1	73.6	63.2	55.2	47.6	3.4
47.5°	54.4	52.9	52.9	51.2	49.5	46.3	41.5	38.1	34.3	29.6	1.3
50°	16.3	16.1	15.9	16.1	15.6	16.1	16.5	16.7	15.2	15.0	0.4
52.5°	6.4	6.6	6.4	7.0	7.0	6.8	7.0	6.8	6.6	5.9	0.0
55°	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.3	2.1	2.3	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	7.6	6.6	5.5	4.6	4.2	4.0
5°	8.2	6.1	4.2	3.2	2.8	2.7
7.5°	8.7	5.5	3.2	2.3	1.7	1.5
10°	9.1	4.7	2.5	1.3	0.9	0.9
12.5°	9.1	3.8	1.7	0.8	0.6	0.6
15°	8.9	3.2	1.1	0.6	0.4	0.4
17.5°	8.7	2.5	0.8	0.4	0.2	0.4
20°	8.2	1.9	0.4	0.2	0.2	0.2
21°	8.0	1.7	0.4	0.2	0.2	0.2
22°	7.6	1.5	0.2	0.0	0.2	0.2
23°	7.2	1.1	0.2	0.0	0.0	0.0
24°	6.6	0.9	0.2	0.0	0.0	0.0
25°	6.3	0.9	0.2	0.0	0.0	0.0
26°	5.9	0.6	0.0	0.0	0.0	0.0
27°	5.3	0.4	0.0	0.0	0.0	0.0
28°	4.9	0.4	0.0	0.0	0.0	0.0
29°	4.4	0.4	0.0	0.0	0.0	0.0
30°	3.8	0.4	0.0	0.0	0.0	0.0
31°	3.0	0.2	0.0	0.0	0.0	0.0
32°	2.5	0.2	0.0	0.0	0.0	0.0
33°	1.7	0.2	0.0	0.0	0.0	0.0
34°	1.1	0.2	0.0	0.0	0.0	0.0
35°	0.9	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.2	0.0	0.0	0.0	0.2
37°	0.6	0.2	0.0	0.0	0.0	0.2
38°	0.4	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.4	0.6	0.8
55°	0.2	0.4	0.4	0.6	0.8	0.9
57.5°	0.2	0.6	0.6	0.8	0.9	0.9
60°	0.4	0.6	0.8	0.8	1.1	1.1
62.5°	0.4	0.8	0.8	0.8	1.1	1.1
65°	0.4	0.8	0.8	0.9	1.1	1.1
67.5°	0.4	0.8	0.8	0.8	0.9	1.1
70°	0.4	0.8	0.6	0.8	0.9	0.9
72.5°	0.4	0.8	0.6	0.6	0.8	0.9
75°	0.4	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)