

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: P1334037

Luminaire Tested: P3A02R159035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334037
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: P3A02R159035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

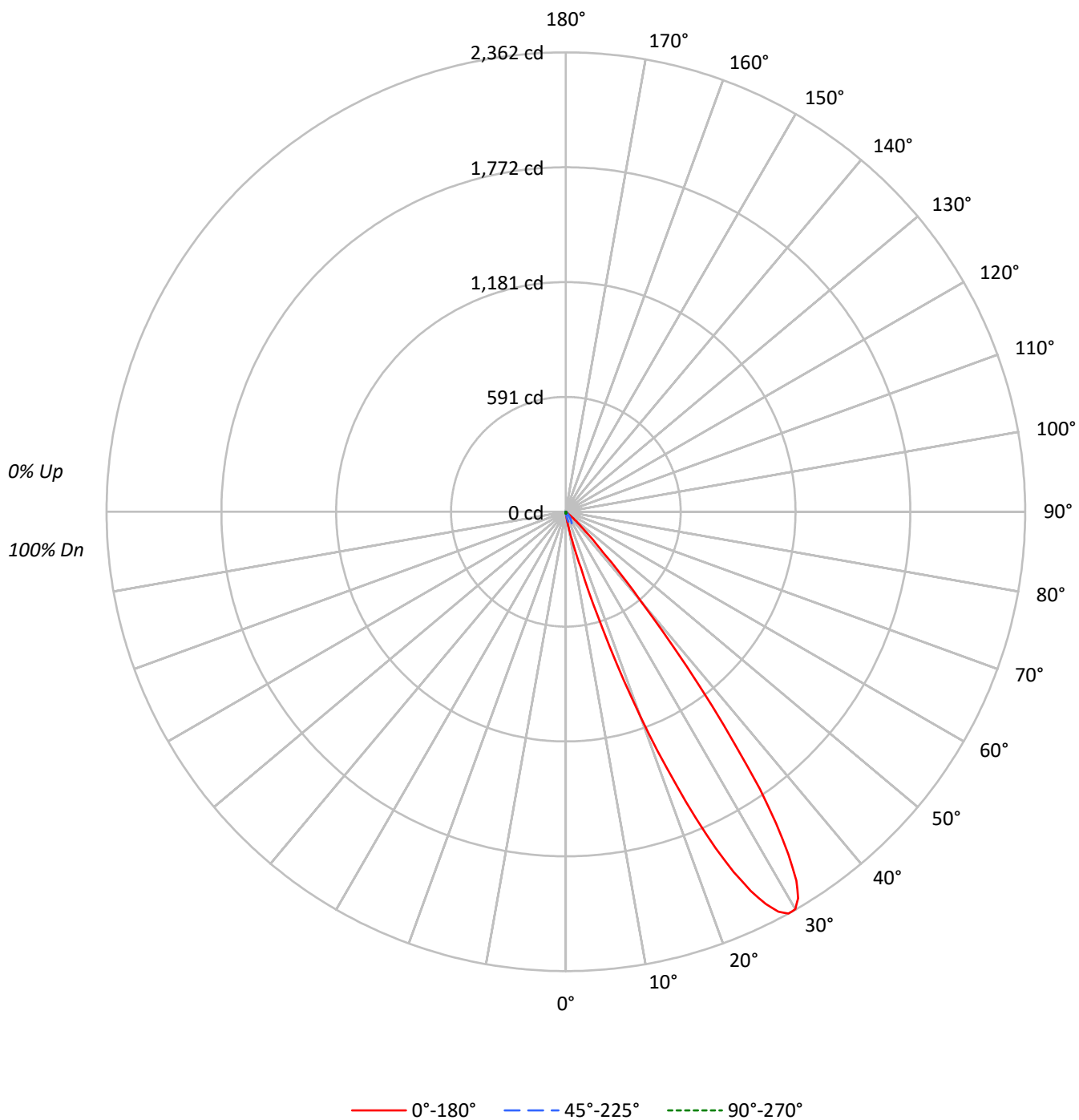
Lumens per Lamp: N/A
Luminaire Lumens: 258.1 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	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	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1864	1864	1864	1864	1864
5°	4028	2994	1761	947	770
10°	17880	5633	1403	401	289
15°	67628	13053	976	182	114
20°	260096	18388	583	70	70
25°	494569	17251	315	0	0
30°	597459	13926	127	0	0
35°	465972	9476	80	0	0
40°	170033	4666	86	0	86
45°	43663	1395	93	0	155
50°	7369	171	102	102	273
55°	956	0	191	306	497
60°	132	132	351	439	658
65°	156	156	519	675	778
70°	192	192	641	641	833
75°	254	254	847	678	847
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43663 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	19.8	7.7
20°-30°	109.7	42.5
30°-40°	105.9	41.0
40°-50°	18.4	7.1
50°-60°	1.3	0.5
60°-70°	0.8	0.3
70°-80°	0.7	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°	130.6	50.6
0°-40°	236.5	91.6
0°-60°	256.3	99.3
0°-90°	258.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	14	8	4	4	4
15°	298	58	4	1	0	133
25°	2044	71	1	0	0	914
35°	1741	35	0	0	0	1001
45°	141	4	0	0	0	151
55°	2	0	0	1	1	5
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	12.5	12.0	12.3	12.3	12.3	12.3	12.3	11.8	11.8	12.0	10.8
5°	18.3	18.3	18.1	18.3	18.3	18.1	17.6	17.3	17.3	16.8	13.6
7.5°	36.6	36.1	36.1	35.6	33.1	32.4	31.9	30.6	28.4	27.9	17.6
10°	80.3	80.6	78.8	76.5	76.3	72.5	71.3	69.0	64.8	60.5	25.3
12.5°	145.8	142.6	138.3	138.5	131.3	128.7	123.0	116.7	110.2	103.4	41.7
15°	297.9	288.6	294.1	280.6	265.3	248.0	230.4	208.3	189.5	169.4	57.5
17.5°	627.4	636.5	621.1	563.2	527.5	485.6	426.6	369.7	321.0	281.8	70.3
20°	1114.6	1127.9	1075.9	1025.5	938.9	844.5	746.1	634.7	528.0	435.7	78.8
21°	1318.1	1310.1	1288.7	1207.9	1108.0	998.6	878.1	755.2	625.9	506.0	79.6
22°	1514.8	1518.6	1468.9	1384.3	1280.4	1159.2	1012.2	860.3	721.0	563.2	78.3
23°	1710.9	1722.9	1657.1	1577.8	1447.1	1310.3	1140.2	976.3	804.1	628.7	75.8
24°	1892.3	1884.0	1839.6	1739.7	1599.9	1439.8	1263.1	1064.4	872.4	684.6	73.8
25°	2044.1	2043.1	1973.4	1876.2	1716.4	1538.9	1344.2	1136.4	930.8	722.5	71.3
26°	2168.4	2148.0	2093.1	1974.6	1816.8	1629.5	1410.7	1188.8	963.7	741.6	68.8
27°	2264.2	2249.7	2175.9	2052.7	1887.8	1680.7	1453.4	1214.9	978.8	747.9	65.5
28°	2328.7	2312.9	2234.4	2107.4	1926.9	1712.9	1475.9	1226.0	978.8	741.9	62.5
29°	2362.1	2340.5	2262.2	2126.2	1936.0	1716.6	1470.4	1215.2	963.5	723.3	59.0
30°	2359.6	2332.8	2250.7	2109.1	1909.1	1685.8	1439.6	1176.3	928.8	695.7	55.0
31°	2319.0	2288.8	2197.2	2051.4	1853.7	1627.5	1381.3	1124.1	881.4	659.8	50.9
32°	2236.4	2198.2	2108.9	1963.6	1768.3	1540.4	1296.8	1043.5	810.4	607.3	46.7
33°	2101.9	2063.5	1967.6	1831.3	1652.9	1430.0	1184.6	956.9	729.6	544.9	43.2
34°	1933.5	1898.3	1815.8	1678.5	1507.3	1290.2	1055.6	837.2	645.7	482.9	39.4
35°	1740.7	1684.8	1610.0	1501.3	1334.4	1116.1	916.3	725.8	559.4	417.9	35.4
36°	1480.0	1490.0	1410.7	1277.7	1139.4	968.2	776.5	605.1	467.8	356.1	31.9
37°	1248.8	1233.0	1182.6	1079.7	959.2	789.3	650.8	513.0	393.5	301.2	28.1
38°	1007.4	1010.9	961.5	882.4	762.9	649.0	523.8	421.4	329.3	256.2	24.6
39°	788.5	785.8	772.5	699.2	591.0	516.2	424.4	349.3	274.3	216.1	20.8
40°	594.0	598.6	567.4	523.3	460.3	398.8	338.1	278.6	226.9	182.2	16.3
42.5°	288.9	295.9	275.3	264.0	236.2	212.1	178.9	146.1	124.2	107.4	7.3
45°	140.8	136.8	135.0	129.5	123.0	109.9	97.4	83.6	73.0	63.0	4.5
47.5°	72.0	70.0	70.0	67.8	65.5	61.2	55.0	50.4	45.4	39.2	1.8
50°	21.6	21.3	21.1	21.3	20.6	21.3	21.8	22.1	20.1	19.8	0.5
52.5°	8.5	8.8	8.5	9.3	9.3	9.0	9.3	9.0	8.8	7.8	0.0
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.8	3.0	2.8	3.0	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	8.5	8.5	8.5	8.5	8.5	8.5
2.5°	10.0	8.8	7.3	6.0	5.5	5.3
5°	10.8	8.0	5.5	4.3	3.8	3.5
7.5°	11.5	7.3	4.3	3.0	2.3	2.0
10°	12.0	6.3	3.3	1.8	1.3	1.3
12.5°	12.0	5.0	2.3	1.0	0.8	0.8
15°	11.8	4.3	1.5	0.8	0.5	0.5
17.5°	11.5	3.3	1.0	0.5	0.3	0.5
20°	10.8	2.5	0.5	0.3	0.3	0.3
21°	10.5	2.3	0.5	0.3	0.3	0.3
22°	10.0	2.0	0.3	0.0	0.3	0.3
23°	9.5	1.5	0.3	0.0	0.0	0.0
24°	8.8	1.3	0.3	0.0	0.0	0.0
25°	8.3	1.3	0.3	0.0	0.0	0.0
26°	7.8	0.8	0.0	0.0	0.0	0.0
27°	7.0	0.5	0.0	0.0	0.0	0.0
28°	6.5	0.5	0.0	0.0	0.0	0.0
29°	5.8	0.5	0.0	0.0	0.0	0.0
30°	5.0	0.5	0.0	0.0	0.0	0.0
31°	4.0	0.3	0.0	0.0	0.0	0.0
32°	3.3	0.3	0.0	0.0	0.0	0.0
33°	2.3	0.3	0.0	0.0	0.0	0.0
34°	1.5	0.3	0.0	0.0	0.0	0.0
35°	1.3	0.3	0.0	0.0	0.0	0.0
36°	0.8	0.3	0.0	0.0	0.0	0.3
37°	0.8	0.3	0.0	0.0	0.0	0.3
38°	0.5	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.5
45°	0.0	0.3	0.0	0.0	0.3	0.5
47.5°	0.0	0.3	0.0	0.0	0.5	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.5	0.8	1.0
55°	0.3	0.5	0.5	0.8	1.0	1.3
57.5°	0.3	0.8	0.8	1.0	1.3	1.3
60°	0.5	0.8	1.0	1.0	1.5	1.5
62.5°	0.5	1.0	1.0	1.0	1.5	1.5
65°	0.5	1.0	1.0	1.3	1.5	1.5
67.5°	0.5	1.0	1.0	1.0	1.3	1.5
70°	0.5	1.0	0.8	1.0	1.3	1.3
72.5°	0.5	1.0	0.8	0.8	1.0	1.3
75°	0.5	1.0	0.8	0.8	1.0	1.0
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)