

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: P1337427

Luminaire Tested: P3A05R259735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R259735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

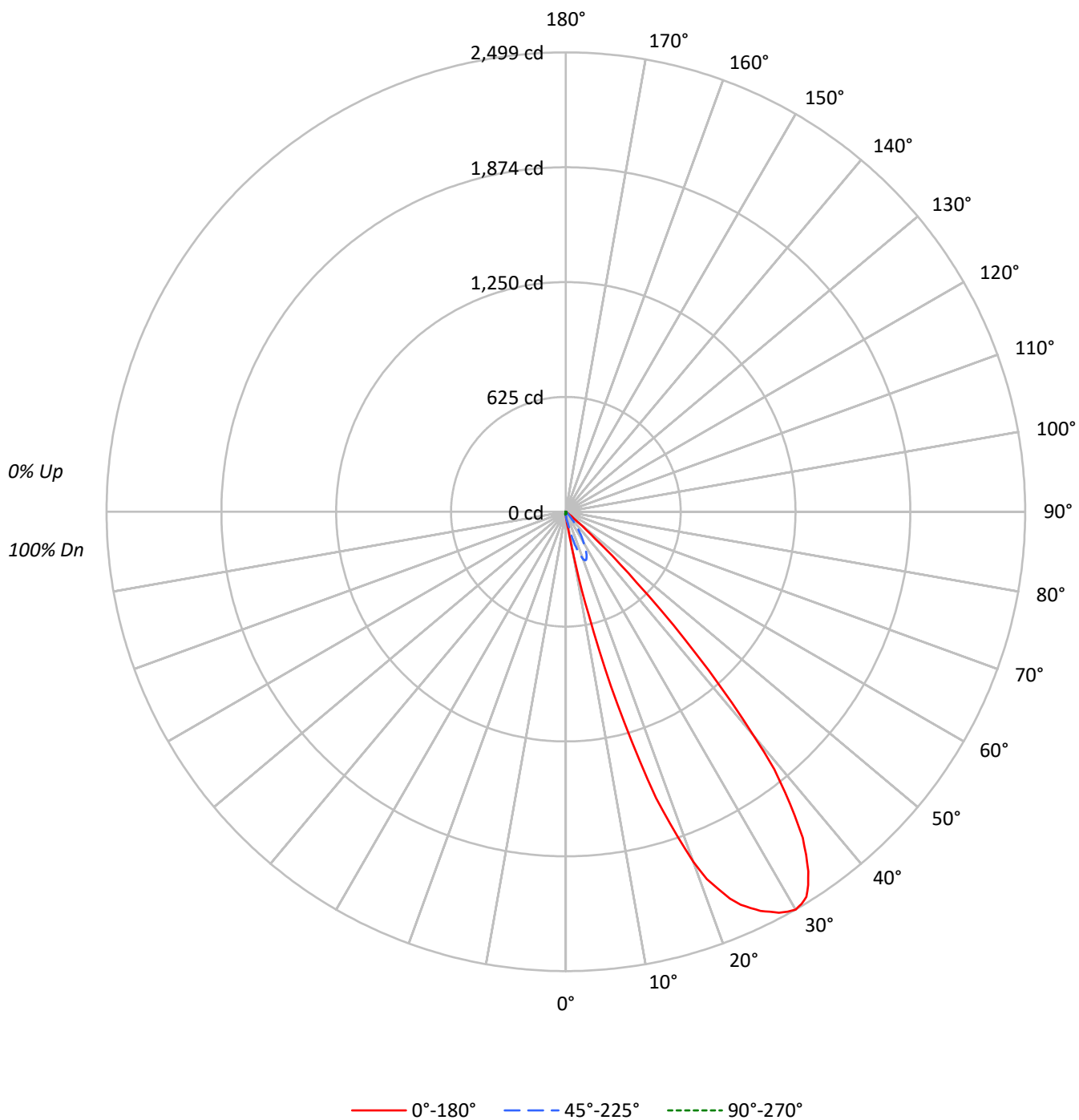
Lumens per Lamp: N/A
Luminaire Lumens: 500.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4715	4715	4715	4715	4715
5°	11798	8739	4424	2267	1739
10°	51636	14852	3629	1047	735
15°	245495	40023	2543	431	318
20°	472564	64126	1633	117	117
25°	575525	64673	895	0	0
30°	632781	49501	354	0	0
35°	609803	31481	134	0	0
40°	455625	13626	0	0	143
45°	168669	3628	155	155	434
50°	19888	478	307	307	648
55°	1950	0	344	535	879
60°	219	0	614	833	1009
65°	259	259	986	1193	1453
70°	321	321	1218	1218	1795
75°	424	424	1186	1186	1610
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 168669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.6
10°-20°	58.3	11.7
20°-30°	183.0	36.6
30°-40°	192.6	38.5
40°-50°	56.6	11.3
50°-60°	3.0	0.6
60°-70°	1.5	0.3
70°-80°	1.3	0.3
80°-90°	0.7	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°	244.4	48.9
0°-40°	437.0	87.4
0°-60°	496.6	99.3
0°-90°	500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	54	40	20	10	8	10
15°	1081	176	11	2	1	341
25°	2379	267	4	0	0	1091
35°	2278	118	0	0	0	1375
45°	544	12	0	0	1	494
55°	5	0	1	1	2	13
65°	0	0	2	2	3	0
75°	0	0	1	1	2	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°	45°	67.5°	90°	112.5°
0°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	33.1	33.6	32.2	33.1	32.2	31.7	31.3	28.9	25.2	21.5	17.7
5°	53.6	53.6	51.3	50.8	49.9	48.1	46.2	39.7	28.5	20.1	14.0
7.5°	84.0	83.5	82.6	80.2	75.6	70.9	66.2	51.8	31.3	18.7	10.7
10°	231.9	228.6	224.4	199.2	170.7	145.5	123.6	66.7	33.6	16.3	7.9
12.5°	576.1	557.5	513.2	462.8	398.4	330.8	264.5	108.7	34.5	13.5	5.6
15°	1081.4	1042.6	973.6	872.8	741.3	593.4	467.4	176.3	33.6	11.2	4.2
17.5°	1632.8	1595.5	1499.8	1346.8	1153.2	926.0	703.0	233.7	31.3	9.3	2.8
20°	2025.1	1985.5	1895.9	1733.5	1524.1	1221.3	925.5	274.8	29.4	7.0	1.4
21°	2139.9	2100.2	2005.5	1848.8	1628.6	1324.9	996.9	281.8	28.0	6.1	0.9
22°	2212.6	2189.3	2087.6	1935.5	1711.1	1407.9	1058.0	285.0	27.1	5.6	0.9
23°	2285.9	2250.9	2155.7	1995.2	1774.1	1469.5	1103.3	282.7	26.1	4.7	0.5
24°	2340.0	2310.6	2200.0	2041.4	1818.0	1507.3	1129.9	276.6	24.7	4.2	0.5
25°	2378.7	2351.7	2236.4	2072.7	1847.4	1527.8	1138.3	267.3	23.3	3.7	0.5
26°	2415.6	2386.2	2266.8	2090.9	1862.8	1534.3	1130.3	257.0	21.9	3.3	0.0
27°	2442.2	2412.3	2287.7	2101.6	1863.7	1526.4	1108.9	243.0	20.5	2.8	0.0
28°	2470.6	2436.1	2302.2	2107.7	1858.1	1507.7	1078.1	228.1	19.6	2.3	0.0
29°	2487.9	2455.2	2317.1	2114.2	1846.4	1476.5	1033.3	210.4	17.3	1.4	0.0
30°	2499.1	2460.4	2315.7	2107.2	1831.0	1442.9	979.7	195.5	14.9	1.4	0.0
31°	2489.7	2449.2	2300.8	2087.6	1806.3	1399.1	924.6	176.8	12.1	0.9	0.0
32°	2469.7	2421.6	2274.7	2053.6	1762.0	1342.6	867.7	161.4	8.9	0.9	0.0
33°	2420.7	2380.1	2227.6	2007.8	1704.1	1266.1	793.5	146.5	6.1	0.5	0.0
34°	2359.1	2318.5	2163.2	1946.7	1626.7	1167.2	703.5	131.1	5.1	0.5	0.0
35°	2278.0	2237.8	2090.4	1861.4	1524.1	1048.2	610.7	117.6	4.2	0.5	0.0
36°	2192.6	2139.4	1998.5	1770.4	1386.5	913.0	511.3	102.2	3.3	0.5	0.0
37°	2067.1	2031.2	1874.9	1631.8	1237.6	783.3	439.0	88.2	2.3	0.5	0.0
38°	1936.9	1903.8	1751.3	1492.4	1071.6	655.0	367.6	74.6	1.9	0.0	0.0
39°	1802.6	1747.5	1596.9	1313.7	897.6	548.6	309.3	62.5	0.9	0.0	0.0
40°	1591.7	1549.7	1388.8	1099.1	742.7	444.6	263.6	47.6	0.9	0.0	0.0
42.5°	1055.2	1016.1	847.2	596.2	394.7	259.8	174.0	18.7	0.0	0.5	0.0
45°	543.9	519.2	421.7	312.1	223.9	159.5	112.0	11.7	0.0	0.5	0.5
47.5°	216.0	211.8	191.3	165.1	127.4	94.7	61.1	5.1	0.0	0.5	0.5
50°	58.3	58.8	55.0	50.8	46.2	43.4	25.7	1.4	0.0	0.9	0.5
52.5°	24.7	25.2	24.3	22.9	20.5	15.4	10.3	0.5	0.5	0.9	0.9
55°	5.1	5.6	6.1	6.5	7.5	6.5	4.2	0.0	0.5	0.9	0.9
57.5°	0.9	0.9	0.9	0.9	1.4	1.4	0.9	0.0	0.5	0.9	1.4
60°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.9	1.4	1.4
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.9
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.9	1.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	1.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	1.9
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	0.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	1.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	0.9
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):

	135°	157.5°	180°
0°	21.5	21.5	21.5
2.5°	14.9	13.5	13.1
5°	10.3	8.9	7.9
7.5°	7.0	5.6	5.1
10°	4.7	3.7	3.3
12.5°	3.3	1.9	1.9
15°	1.9	1.4	1.4
17.5°	0.9	0.5	0.5
20°	0.5	0.5	0.5
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.5
39°	0.0	0.5	0.5
40°	0.0	0.5	0.5
42.5°	0.0	0.5	0.9
45°	0.5	0.9	1.4
47.5°	0.9	1.4	1.9
50°	0.9	1.9	1.9
52.5°	1.4	1.9	2.3
55°	1.4	2.3	2.3
57.5°	1.9	2.3	2.8
60°	1.9	2.3	2.3
62.5°	1.9	2.8	2.8
65°	2.3	2.8	2.8
67.5°	2.3	2.8	2.8
70°	1.9	2.3	2.8
72.5°	1.9	2.3	2.3
75°	1.4	1.9	1.9
77.5°	1.4	1.4	1.9
80°	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.9	0.9	0.9
85°	0.5	0.5	0.5
87.5°	0.5	0.5	0.5
90°	0.0	0.0	0.0

(END OF REPORT)