

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: P1334361

Luminaire Tested: P3A02R209035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

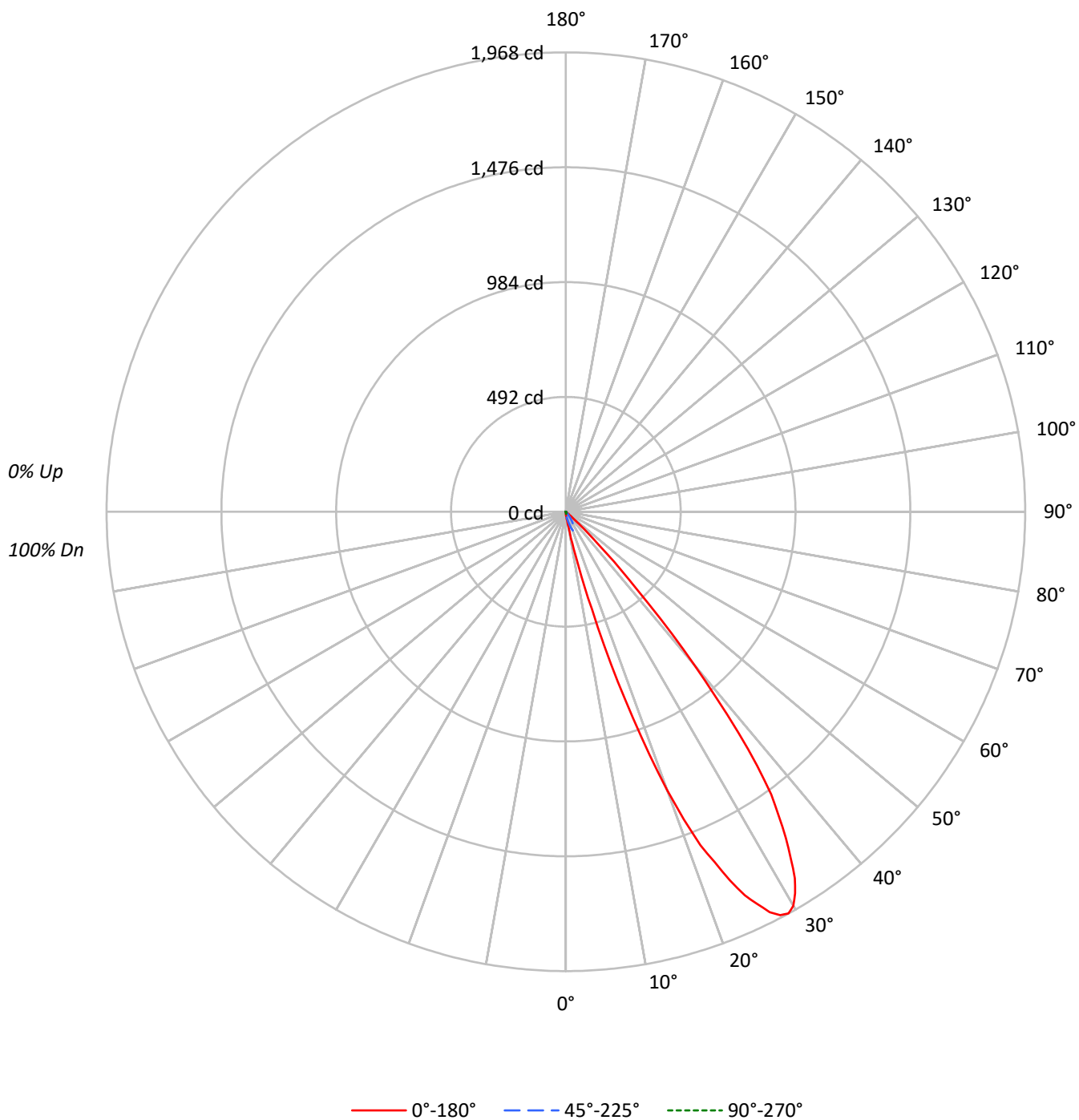
Lumens per Lamp: N/A
Luminaire Lumens: 276.1 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	99	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	71		77
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60
8	71	60	53	48	70	59	52	48	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	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2083	2083	2083	2083	2083
5°	4799	3588	1981	1211	1057
10°	15119	6235	1625	668	512
15°	97889	11532	1203	227	68
20°	295426	19742	817	0	0
25°	438751	19937	484	0	0
30°	493392	15142	203	0	0
35°	425711	9048	134	0	0
40°	245145	3092	0	0	0
45°	59789	1240	93	0	93
50°	7164	341	102	102	273
55°	956	0	191	191	382
60°	132	0	351	351	570
65°	156	156	519	519	778
70°	192	192	641	641	833
75°	0	254	847	678	847
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 60192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	25.6	9.3
20°-30°	111.5	40.4
30°-40°	112.3	40.7
40°-50°	22.5	8.2
50°-60°	1.1	0.4
60°-70°	0.8	0.3
70°-80°	0.7	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°	138.3	50.1
0°-40°	250.6	90.8
0°-60°	274.3	99.3
0°-90°	276.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	276.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	9	6	5	3
15°	431	51	5	1	0	169
25°	1813	82	2	0	0	818
35°	1590	34	0	0	0	946
45°	193	4	0	0	0	210
55°	2	0	0	0	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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	14.3	14.3	14.0	14.0	13.8	14.0	13.5	13.8	13.8	13.5	12.3
5°	21.8	22.3	22.0	22.0	21.8	22.0	21.5	21.0	20.5	20.5	16.3
7.5°	35.8	35.6	35.1	35.3	34.6	34.1	33.6	33.3	31.8	31.0	21.3
10°	67.9	69.4	68.1	67.9	63.4	63.1	60.1	55.8	52.1	50.1	28.0
12.5°	186.8	194.8	182.3	176.3	172.8	159.3	153.5	138.7	124.4	113.7	35.6
15°	431.2	451.0	425.7	427.4	406.4	367.8	334.0	305.0	270.7	236.1	50.8
17.5°	844.8	828.8	815.0	791.8	748.9	692.3	619.5	545.6	481.8	414.9	70.9
20°	1266.0	1251.7	1220.4	1169.6	1115.0	1031.1	944.5	833.6	726.2	625.5	84.6
21°	1411.0	1406.2	1354.9	1323.6	1239.5	1159.3	1059.4	940.7	819.8	700.6	86.9
22°	1540.4	1511.9	1484.4	1438.0	1354.4	1267.3	1156.1	1031.1	899.9	767.5	87.1
23°	1630.1	1617.1	1591.0	1538.7	1455.6	1353.1	1236.0	1105.3	967.0	814.8	86.4
24°	1729.2	1712.7	1674.7	1613.6	1529.7	1428.5	1294.8	1165.1	1014.9	854.6	84.4
25°	1813.4	1787.6	1742.5	1676.7	1585.0	1480.6	1346.1	1203.7	1048.2	881.4	82.4
26°	1868.0	1853.9	1796.1	1724.5	1626.3	1518.7	1381.4	1233.2	1069.7	893.7	79.1
27°	1924.8	1899.0	1842.2	1759.8	1653.4	1543.4	1401.5	1247.5	1077.2	894.2	75.1
28°	1957.4	1929.3	1865.0	1778.3	1670.9	1557.2	1413.0	1252.0	1075.7	886.4	70.4
29°	1967.6	1932.3	1869.5	1781.3	1675.2	1558.2	1411.2	1245.5	1062.4	867.4	64.9
30°	1948.6	1912.5	1852.9	1767.1	1661.6	1545.7	1395.0	1223.9	1038.9	840.1	59.8
31°	1907.0	1876.5	1818.9	1732.8	1631.6	1516.4	1358.2	1188.6	998.8	803.5	54.1
32°	1852.2	1822.1	1765.6	1687.7	1584.8	1468.6	1307.8	1133.5	951.8	748.9	48.3
33°	1769.8	1752.5	1701.7	1627.3	1524.4	1400.2	1240.2	1067.7	884.7	688.3	43.3
34°	1686.4	1664.6	1629.1	1547.7	1437.0	1313.1	1152.1	976.8	802.8	620.5	38.6
35°	1590.3	1577.3	1521.4	1456.3	1345.1	1218.4	1058.4	888.4	707.4	544.9	33.8
36°	1497.1	1477.1	1413.5	1344.6	1236.7	1099.7	941.7	782.0	625.0	474.0	28.8
37°	1361.9	1331.4	1286.0	1213.4	1087.2	970.5	826.3	678.1	523.6	397.4	23.3
38°	1202.9	1188.6	1125.8	1052.7	948.3	837.6	694.9	569.2	431.9	331.8	17.8
39°	1015.4	1015.1	955.0	902.2	800.0	700.4	571.7	462.0	356.6	267.2	13.8
40°	856.4	826.8	789.8	723.4	645.0	560.4	447.7	361.6	276.7	215.3	10.8
42.5°	449.0	446.5	424.7	374.8	331.0	281.2	223.6	186.3	145.7	118.7	6.8
45°	192.8	194.1	179.0	171.5	154.5	133.7	112.9	94.1	80.6	65.4	4.0
47.5°	48.8	46.8	46.3	48.1	48.1	46.6	41.8	39.3	36.3	33.3	2.3
50°	21.0	20.5	20.0	20.0	18.8	18.0	16.8	15.3	14.0	12.5	1.0
52.5°	7.8	8.0	8.3	8.0	8.0	7.8	7.8	7.5	6.8	6.0	0.5
55°	2.5	2.5	2.5	2.8	2.8	3.0	3.0	3.0	3.0	2.8	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
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	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	11.0	9.8	8.3	7.0	6.8	6.5
5°	12.3	9.0	6.8	5.5	5.0	4.8
7.5°	13.3	8.3	5.5	4.0	3.5	3.3
10°	13.8	7.3	4.5	3.0	2.3	2.3
12.5°	14.0	6.3	3.3	2.0	1.3	1.3
15°	13.8	5.3	2.5	1.0	0.3	0.3
17.5°	12.5	4.3	1.5	0.3	0.0	0.0
20°	10.8	3.5	1.0	0.0	0.0	0.0
21°	10.3	3.0	0.8	0.0	0.0	0.0
22°	9.5	2.8	0.5	0.0	0.0	0.0
23°	8.8	2.5	0.5	0.0	0.0	0.0
24°	8.0	2.3	0.3	0.0	0.0	0.0
25°	7.5	2.0	0.3	0.0	0.0	0.0
26°	7.0	1.8	0.3	0.0	0.0	0.0
27°	6.3	1.5	0.0	0.0	0.0	0.0
28°	5.8	1.3	0.0	0.0	0.0	0.0
29°	5.0	1.0	0.0	0.0	0.0	0.0
30°	4.3	0.8	0.0	0.0	0.0	0.0
31°	3.5	0.8	0.0	0.0	0.0	0.0
32°	3.0	0.5	0.0	0.0	0.0	0.0
33°	2.5	0.5	0.0	0.0	0.0	0.0
34°	2.3	0.5	0.0	0.0	0.0	0.0
35°	2.0	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.0	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.0	1.0
57.5°	0.3	0.5	0.5	0.8	1.0	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.0	1.0	1.3	1.5
65°	0.5	1.0	1.0	1.0	1.3	1.5
67.5°	0.8	1.0	1.0	1.0	1.3	1.5
70°	0.8	1.0	1.0	1.0	1.3	1.3
72.5°	0.8	1.0	0.8	1.0	1.0	1.3
75°	0.8	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	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)