

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: P1334097

Luminaire Tested: P3A02R159730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334097
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: P3A02R159730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

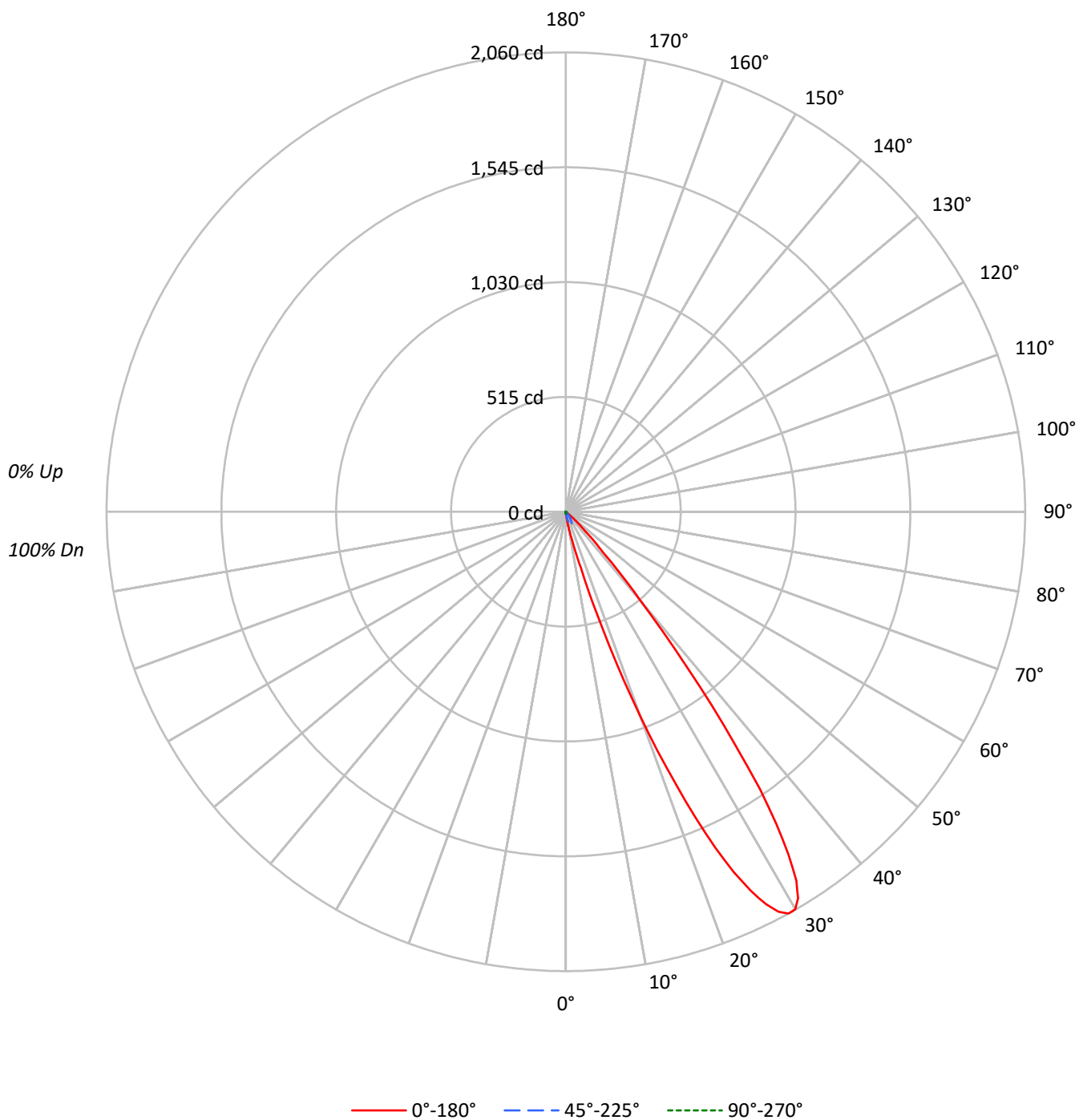
Lumens per Lamp: N/A
Luminaire Lumens: 225.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	99	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	53	48	70	59	52	48	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°	1623	1623	1623	1623	1623
5°	3522	2597	1541	814	682
10°	15586	4921	1225	334	245
15°	58979	11374	840	159	91
20°	226820	16031	513	47	47
25°	431323	15049	266	0	0
30°	521042	12128	101	0	0
35°	406384	8272	54	0	0
40°	148306	4065	57	0	57
45°	38081	1209	62	0	124
50°	6413	136	68	68	239
55°	841	0	153	268	421
60°	88	88	307	395	570
65°	104	104	467	571	675
70°	128	128	577	577	705
75°	169	169	763	593	763
80°	0	253	884	505	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38081 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	17.2	7.7
20°-30°	95.6	42.5
30°-40°	92.4	41.1
40°-50°	16.1	7.1
50°-60°	1.2	0.5
60°-70°	0.7	0.3
70°-80°	0.6	0.2
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°	113.9	50.6
0°-40°	206.3	91.7
0°-60°	223.5	99.3
0°-90°	225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	7	4	3	3
15°	260	50	4	1	0	116
25°	1783	62	1	0	0	797
35°	1518	31	0	0	0	873
45°	123	4	0	0	0	132
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°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2.5°	10.9	10.5	10.7	10.7	10.7	10.7	10.7	10.3	10.3	10.5	9.4
5°	16.0	16.0	15.8	16.0	16.0	15.8	15.3	15.1	15.1	14.7	11.8
7.5°	32.0	31.5	31.5	31.1	28.9	28.2	27.8	26.7	24.7	24.3	15.3
10°	70.0	70.3	68.7	66.8	66.5	63.3	62.2	60.2	56.5	52.7	22.1
12.5°	127.2	124.3	120.6	120.8	114.5	112.3	107.2	101.8	96.1	90.2	36.3
15°	259.8	251.7	256.5	244.7	231.3	216.2	200.9	181.7	165.2	147.7	50.1
17.5°	547.2	555.1	541.7	491.1	460.1	423.5	372.1	322.4	279.9	245.8	61.3
20°	972.0	983.6	938.3	894.3	818.8	736.5	650.7	553.5	460.5	380.0	68.7
21°	1149.5	1142.5	1123.9	1053.4	966.3	870.9	765.8	658.6	545.9	441.2	69.4
22°	1321.1	1324.4	1281.0	1207.3	1116.7	1011.0	882.7	750.3	628.8	491.1	68.3
23°	1492.0	1502.5	1445.2	1376.0	1262.0	1142.7	994.3	851.4	701.3	548.3	66.1
24°	1650.3	1643.0	1604.3	1517.2	1395.3	1255.6	1101.6	928.2	760.8	597.1	64.3
25°	1782.7	1781.8	1721.0	1636.3	1496.8	1342.1	1172.3	991.0	811.8	630.1	62.2
26°	1891.0	1873.3	1825.4	1722.1	1584.4	1421.1	1230.3	1036.8	840.5	646.8	60.0
27°	1974.6	1961.9	1897.6	1790.1	1646.3	1465.8	1267.5	1059.5	853.6	652.2	57.1
28°	2030.9	2017.1	1948.6	1837.8	1680.5	1493.8	1287.2	1069.2	853.6	647.0	54.5
29°	2060.0	2041.2	1972.9	1854.3	1688.4	1497.1	1282.4	1059.8	840.2	630.8	51.4
30°	2057.8	2034.4	1962.8	1839.4	1664.9	1470.1	1255.4	1025.8	810.0	606.7	47.9
31°	2022.3	1996.1	1916.2	1789.0	1616.6	1419.4	1204.7	980.3	768.7	575.4	44.4
32°	1950.3	1917.1	1839.2	1712.4	1542.1	1343.4	1130.9	910.1	706.7	529.7	40.7
33°	1833.0	1799.5	1715.9	1597.1	1441.5	1247.1	1033.1	834.5	636.3	475.2	37.6
34°	1686.2	1655.5	1583.5	1463.8	1314.5	1125.2	920.6	730.1	563.1	421.1	34.4
35°	1518.1	1469.3	1404.0	1309.3	1163.7	973.3	799.1	633.0	487.9	364.4	30.9
36°	1290.7	1299.4	1230.3	1114.3	993.7	844.4	677.2	527.7	408.0	310.6	27.8
37°	1089.1	1075.3	1031.3	941.6	836.5	688.3	567.5	447.4	343.2	262.6	24.5
38°	878.5	881.6	838.5	769.5	665.4	566.0	456.8	367.5	287.2	223.5	21.4
39°	687.7	685.3	673.7	609.8	515.4	450.2	370.1	304.7	239.2	188.4	18.2
40°	518.1	522.0	494.9	456.3	401.4	347.8	294.8	242.9	197.9	158.9	14.2
42.5°	251.9	258.0	240.1	230.2	206.0	184.9	156.1	127.4	108.3	93.7	6.3
45°	122.8	119.3	117.8	112.9	107.2	95.9	84.9	72.9	63.7	54.9	3.9
47.5°	62.8	61.1	61.1	59.1	57.1	53.4	47.9	44.0	39.6	34.1	1.5
50°	18.8	18.6	18.4	18.6	17.9	18.6	19.0	19.3	17.5	17.3	0.4
52.5°	7.4	7.7	7.4	8.1	8.1	7.9	8.1	7.9	7.7	6.8	0.0
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.4	2.6	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°	7.4	7.4	7.4	7.4	7.4	7.4
2.5°	8.8	7.7	6.3	5.3	4.8	4.6
5°	9.4	7.0	4.8	3.7	3.3	3.1
7.5°	10.1	6.3	3.7	2.6	2.0	1.8
10°	10.5	5.5	2.8	1.5	1.1	1.1
12.5°	10.5	4.4	2.0	0.9	0.7	0.7
15°	10.3	3.7	1.3	0.7	0.4	0.4
17.5°	10.1	2.8	0.9	0.4	0.2	0.4
20°	9.4	2.2	0.4	0.2	0.2	0.2
21°	9.2	2.0	0.4	0.2	0.2	0.2
22°	8.8	1.8	0.2	0.0	0.2	0.2
23°	8.3	1.3	0.2	0.0	0.0	0.0
24°	7.7	1.1	0.2	0.0	0.0	0.0
25°	7.2	1.1	0.2	0.0	0.0	0.0
26°	6.8	0.7	0.0	0.0	0.0	0.0
27°	6.1	0.4	0.0	0.0	0.0	0.0
28°	5.7	0.4	0.0	0.0	0.0	0.0
29°	5.0	0.4	0.0	0.0	0.0	0.0
30°	4.4	0.4	0.0	0.0	0.0	0.0
31°	3.5	0.2	0.0	0.0	0.0	0.0
32°	2.8	0.2	0.0	0.0	0.0	0.0
33°	2.0	0.2	0.0	0.0	0.0	0.0
34°	1.3	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	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	0.7
52.5°	0.0	0.4	0.2	0.4	0.7	0.9
55°	0.2	0.4	0.4	0.7	0.9	1.1
57.5°	0.2	0.7	0.7	0.9	1.1	1.1
60°	0.4	0.7	0.9	0.9	1.3	1.3
62.5°	0.4	0.9	0.9	0.9	1.3	1.3
65°	0.4	0.9	0.9	1.1	1.3	1.3
67.5°	0.4	0.9	0.9	0.9	1.1	1.3
70°	0.4	0.9	0.7	0.9	1.1	1.1
72.5°	0.4	0.9	0.7	0.7	0.9	1.1
75°	0.4	0.9	0.7	0.7	0.9	0.9
77.5°	0.4	0.7	0.7	0.4	0.7	0.7
80°	0.4	0.7	0.4	0.4	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.7	0.4	0.2	0.4	0.4
85°	0.4	0.7	0.4	0.2	0.2	0.2
87.5°	0.4	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)