

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: P1334437

Luminaire Tested: P3A02R209735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334437
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: P3A02R209735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

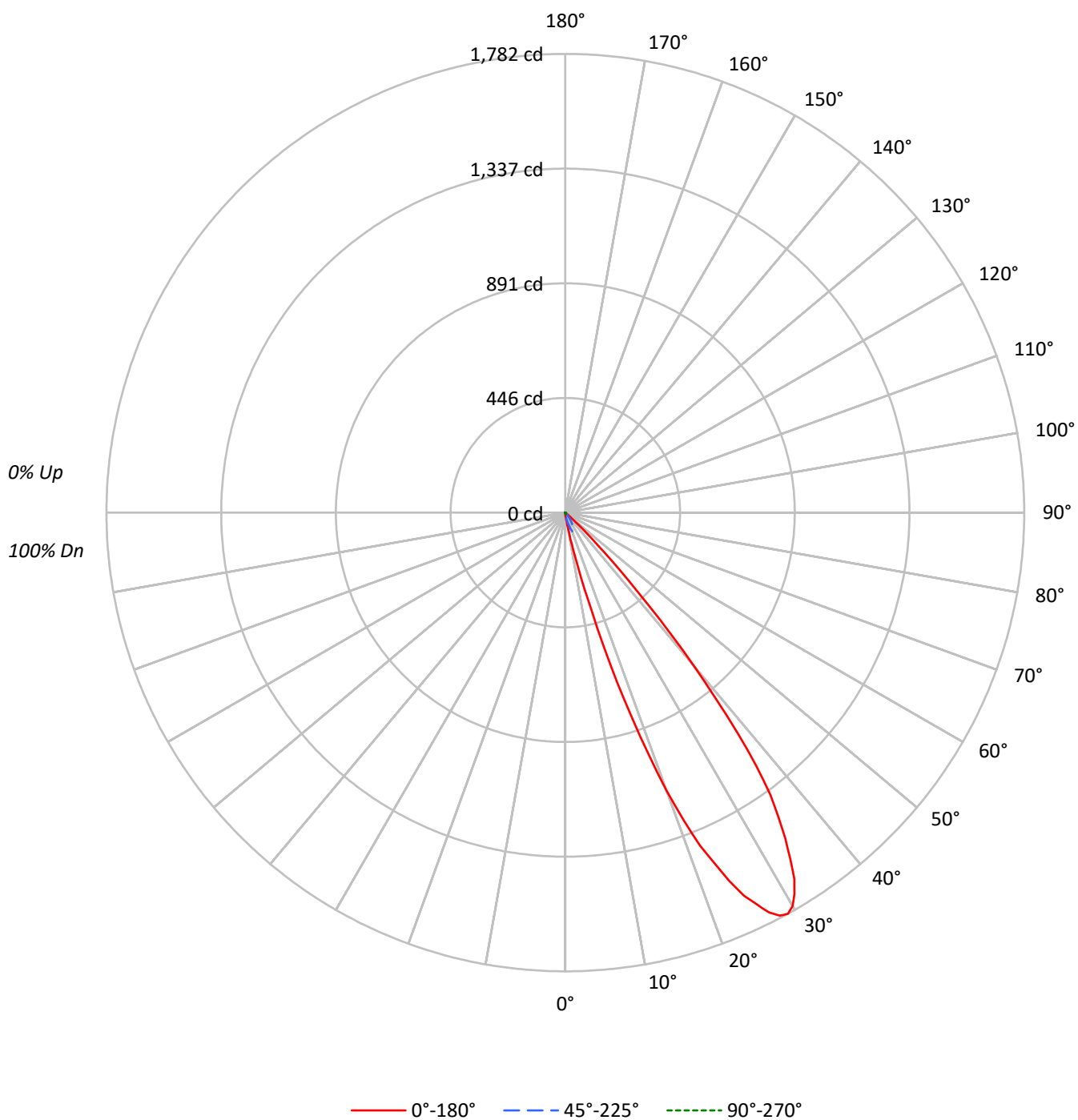
Lumens per Lamp: N/A
Luminaire Lumens: 250.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	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	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1886	1886	1886	1886	1886
5°	4336	3236	1805	1101	947
10°	13694	5656	1470	601	445
15°	88672	10443	1090	204	45
20°	267587	17898	747	0	0
25°	397426	18049	436	0	0
30°	446904	13724	177	0	0
35°	385611	8191	134	0	0
40°	222045	2805	0	0	0
45°	54145	1116	62	0	62
50°	6516	307	68	68	239
55°	879	0	191	191	344
60°	88	0	307	307	482
65°	104	104	467	467	726
70°	128	128	577	577	705
75°	0	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 54517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	23.2	9.3
20°-30°	101.0	40.4
30°-40°	101.7	40.7
40°-50°	20.4	8.2
50°-60°	1.0	0.4
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°	125.3	50.1
0°-40°	227.0	90.8
0°-60°	248.4	99.4
0°-90°	250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	15	8	5	4	3
15°	391	46	5	1	0	153
25°	1643	75	2	0	0	741
35°	1440	31	0	0	0	857
45°	175	4	0	0	0	190
55°	2	0	0	0	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°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
2.5°	12.9	12.9	12.7	12.7	12.5	12.7	12.2	12.5	12.5	12.2	11.1
5°	19.7	20.2	20.0	20.0	19.7	20.0	19.5	19.1	18.6	18.6	14.7
7.5°	32.4	32.2	31.8	32.0	31.3	30.8	30.4	30.2	28.8	28.1	19.3
10°	61.5	62.8	61.7	61.5	57.4	57.2	54.4	50.6	47.2	45.4	25.4
12.5°	169.2	176.5	165.1	159.7	156.5	144.3	139.0	125.7	112.7	103.0	32.2
15°	390.6	408.5	385.6	387.2	368.1	333.2	302.6	276.3	245.2	213.9	46.0
17.5°	765.3	750.7	738.3	717.2	678.4	627.1	561.1	494.2	436.4	375.8	64.2
20°	1146.7	1133.8	1105.5	1059.4	1010.0	934.0	855.5	755.0	657.7	566.6	76.7
21°	1278.1	1273.8	1227.3	1198.9	1122.7	1050.1	959.6	852.1	742.6	634.6	78.7
22°	1395.3	1369.5	1344.5	1302.6	1226.8	1147.9	1047.2	934.0	815.2	695.2	78.9
23°	1476.5	1464.7	1441.1	1393.7	1318.4	1225.7	1119.5	1001.1	875.9	738.0	78.2
24°	1566.3	1551.4	1516.9	1461.6	1385.6	1293.9	1172.8	1055.3	919.3	774.1	76.4
25°	1642.6	1619.2	1578.4	1518.7	1435.7	1341.1	1219.3	1090.3	949.4	798.4	74.6
26°	1692.0	1679.3	1626.9	1562.0	1473.1	1375.6	1251.3	1117.0	968.9	809.5	71.7
27°	1743.5	1720.1	1668.6	1594.0	1497.6	1398.1	1269.5	1130.0	975.7	809.9	68.0
28°	1773.0	1747.6	1689.3	1610.8	1513.5	1410.5	1279.9	1134.0	974.4	802.9	63.7
29°	1782.3	1750.3	1693.4	1613.5	1517.4	1411.4	1278.3	1128.1	962.4	785.7	58.7
30°	1765.0	1732.4	1678.4	1600.6	1505.1	1400.1	1263.6	1108.6	941.0	760.9	54.2
31°	1727.4	1699.7	1647.5	1569.5	1477.9	1373.6	1230.2	1076.7	904.7	727.8	49.0
32°	1677.7	1650.5	1599.2	1528.7	1435.5	1330.2	1184.6	1026.8	862.1	678.4	43.8
33°	1603.1	1587.4	1541.4	1474.0	1380.8	1268.3	1123.4	967.1	801.3	623.5	39.2
34°	1527.6	1507.8	1475.6	1401.9	1301.7	1189.4	1043.5	884.8	727.2	562.0	34.9
35°	1440.5	1428.7	1378.1	1319.1	1218.4	1103.7	958.7	804.7	640.7	493.5	30.6
36°	1356.1	1337.9	1280.3	1218.0	1120.2	996.1	853.0	708.3	566.1	429.3	26.1
37°	1233.6	1205.9	1164.9	1099.1	984.8	879.1	748.5	614.2	474.3	359.9	21.1
38°	1089.6	1076.7	1019.7	953.5	858.9	758.7	629.4	515.5	391.2	300.5	16.1
39°	919.7	919.5	865.1	817.2	724.7	634.4	517.8	418.5	323.0	242.0	12.5
40°	775.7	748.9	715.4	655.3	584.3	507.6	405.5	327.5	250.6	195.1	9.8
42.5°	406.7	404.4	384.7	339.5	299.8	254.7	202.5	168.7	132.0	107.5	6.1
45°	174.6	175.8	162.2	155.4	139.9	121.1	102.3	85.3	73.0	59.2	3.6
47.5°	44.2	42.4	42.0	43.5	43.5	42.2	37.9	35.6	32.9	30.2	2.0
50°	19.1	18.6	18.1	18.1	17.0	16.3	15.2	13.8	12.7	11.3	0.9
52.5°	7.0	7.3	7.5	7.3	7.3	7.0	7.0	6.8	6.1	5.4	0.5
55°	2.3	2.3	2.3	2.5	2.5	2.7	2.7	2.7	2.7	2.5	0.0
57.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
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	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	8.6	8.6	8.6	8.6	8.6	8.6
2.5°	10.0	8.8	7.5	6.4	6.1	5.9
5°	11.1	8.2	6.1	5.0	4.5	4.3
7.5°	12.0	7.5	5.0	3.6	3.2	2.9
10°	12.5	6.6	4.1	2.7	2.0	2.0
12.5°	12.7	5.7	2.9	1.8	1.1	1.1
15°	12.5	4.8	2.3	0.9	0.2	0.2
17.5°	11.3	3.9	1.4	0.2	0.0	0.0
20°	9.8	3.2	0.9	0.0	0.0	0.0
21°	9.3	2.7	0.7	0.0	0.0	0.0
22°	8.6	2.5	0.5	0.0	0.0	0.0
23°	7.9	2.3	0.5	0.0	0.0	0.0
24°	7.3	2.0	0.2	0.0	0.0	0.0
25°	6.8	1.8	0.2	0.0	0.0	0.0
26°	6.4	1.6	0.2	0.0	0.0	0.0
27°	5.7	1.4	0.0	0.0	0.0	0.0
28°	5.2	1.1	0.0	0.0	0.0	0.0
29°	4.5	0.9	0.0	0.0	0.0	0.0
30°	3.9	0.7	0.0	0.0	0.0	0.0
31°	3.2	0.7	0.0	0.0	0.0	0.0
32°	2.7	0.5	0.0	0.0	0.0	0.0
33°	2.3	0.5	0.0	0.0	0.0	0.0
34°	2.0	0.5	0.0	0.0	0.0	0.0
35°	1.8	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.2	0.7	0.7
55°	0.2	0.5	0.2	0.5	0.9	0.9
57.5°	0.2	0.5	0.5	0.7	0.9	1.1
60°	0.5	0.7	0.7	0.7	1.1	1.1
62.5°	0.5	0.7	0.9	0.9	1.1	1.4
65°	0.5	0.9	0.9	0.9	1.1	1.4
67.5°	0.7	0.9	0.9	0.9	1.1	1.4
70°	0.7	0.9	0.9	0.9	1.1	1.1
72.5°	0.7	0.9	0.7	0.9	0.9	1.1
75°	0.7	0.9	0.7	0.7	0.9	0.9
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.5	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)