

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: P1334317

Luminaire Tested: P3A02R209027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334317
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: P3A02R209027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

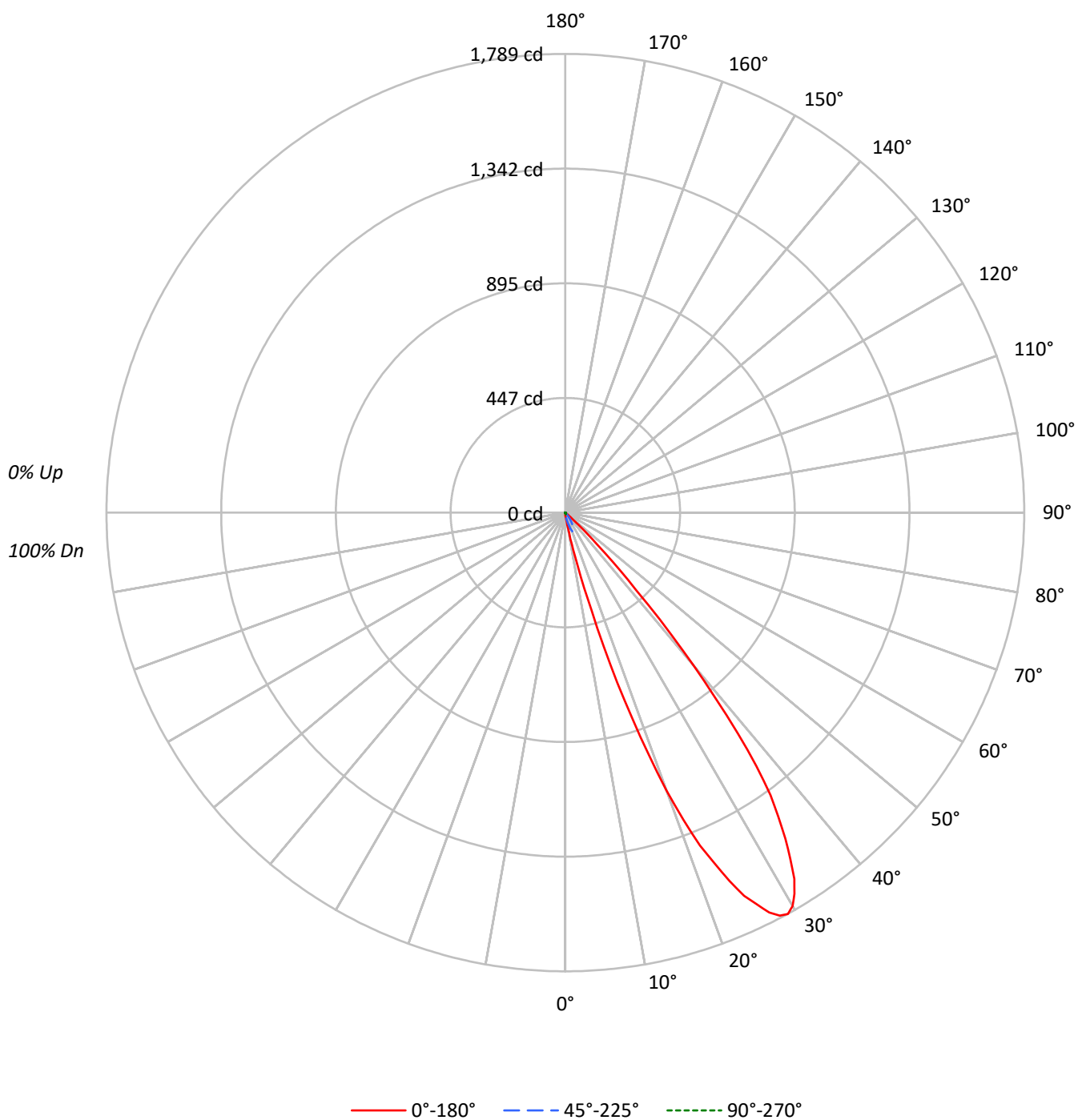
Lumens per Lamp: N/A
Luminaire Lumens: 251.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	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°	1908	1908	1908	1908	1908
5°	4358	3258	1805	1101	947
10°	13738	5678	1470	601	445
15°	89013	10488	1090	204	45
20°	268660	17968	747	0	0
25°	398999	18122	436	0	0
30°	448702	13774	177	0	0
35°	387137	8218	134	0	0
40°	222932	2805	0	0	0
45°	54362	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: 54734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	23.3	9.3
20°-30°	101.4	40.4
30°-40°	102.1	40.7
40°-50°	20.5	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°	125.8	50.1
0°-40°	227.9	90.8
0°-60°	249.4	99.4
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	15	8	5	4	3
15°	392	46	5	1	0	154
25°	1649	75	2	0	0	744
35°	1446	31	0	0	0	861
45°	175	4	0	0	0	191
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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	13.0	13.0	12.8	12.8	12.5	12.8	12.3	12.5	12.5	12.3	11.2
5°	19.8	20.3	20.0	20.0	19.8	20.0	19.6	19.1	18.7	18.7	14.8
7.5°	32.6	32.3	31.9	32.1	31.4	31.0	30.5	30.3	28.9	28.2	19.4
10°	61.7	63.1	61.9	61.7	57.6	57.4	54.7	50.8	47.4	45.5	25.5
12.5°	169.9	177.2	165.8	160.3	157.1	144.8	139.6	126.2	113.2	103.4	32.3
15°	392.1	410.1	387.1	388.7	369.6	334.5	303.8	277.4	246.2	214.7	46.2
17.5°	768.3	753.7	741.2	720.0	681.1	629.6	563.4	496.2	438.1	377.3	64.4
20°	1151.3	1138.4	1109.9	1063.7	1014.0	937.7	858.9	758.1	660.4	568.8	77.0
21°	1283.2	1278.9	1232.2	1203.7	1127.2	1054.3	963.5	855.5	745.5	637.2	79.0
22°	1400.9	1375.0	1349.9	1307.8	1231.7	1152.5	1051.4	937.7	818.4	698.0	79.2
23°	1482.4	1470.6	1446.9	1399.3	1323.7	1230.6	1124.0	1005.1	879.4	741.0	78.6
24°	1572.6	1557.6	1523.0	1467.4	1391.1	1299.1	1177.5	1059.6	922.9	777.2	76.7
25°	1649.1	1625.7	1584.7	1524.8	1441.4	1346.5	1224.2	1094.6	953.2	801.6	74.9
26°	1698.8	1686.0	1633.4	1568.3	1479.0	1381.1	1256.3	1121.5	972.8	812.7	72.0
27°	1750.5	1727.0	1675.3	1600.4	1503.6	1403.6	1274.5	1134.5	979.6	813.2	68.3
28°	1780.1	1754.6	1696.0	1617.2	1519.6	1416.2	1285.0	1138.6	978.3	806.1	64.0
29°	1789.4	1757.3	1700.1	1620.0	1523.4	1417.1	1283.4	1132.7	966.2	788.8	59.0
30°	1772.1	1739.3	1685.1	1607.0	1511.1	1405.7	1268.6	1113.1	944.8	764.0	54.4
31°	1734.3	1706.5	1654.1	1575.8	1483.8	1379.1	1235.1	1081.0	908.4	730.7	49.2
32°	1684.4	1657.1	1605.6	1534.8	1441.2	1335.6	1189.4	1030.9	865.6	681.1	43.9
33°	1609.5	1593.8	1547.6	1479.9	1386.3	1273.4	1127.9	971.0	804.5	626.0	39.4
34°	1533.7	1513.9	1481.5	1407.5	1306.9	1194.1	1047.7	888.3	730.1	564.3	35.1
35°	1446.2	1434.4	1383.6	1324.4	1223.3	1108.1	962.6	807.9	643.3	495.5	30.7
36°	1361.5	1343.3	1285.5	1222.8	1124.7	1000.1	856.4	711.2	568.4	431.1	26.2
37°	1238.5	1210.8	1169.6	1103.5	988.7	882.6	751.5	616.7	476.2	361.4	21.2
38°	1094.0	1081.0	1023.8	957.3	862.4	761.7	631.9	517.6	392.8	301.7	16.2
39°	923.4	923.2	868.5	820.5	727.6	636.9	519.9	420.1	324.3	243.0	12.5
40°	778.8	751.9	718.2	657.9	586.6	509.6	407.2	328.8	251.6	195.8	9.8
42.5°	408.3	406.0	386.2	340.9	301.0	255.7	203.4	169.4	132.5	107.9	6.1
45°	175.3	176.5	162.8	156.0	140.5	121.6	102.7	85.6	73.3	59.4	3.6
47.5°	44.4	42.6	42.1	43.7	43.7	42.4	38.0	35.8	33.0	30.3	2.0
50°	19.1	18.7	18.2	18.2	17.1	16.4	15.3	13.9	12.8	11.4	0.9
52.5°	7.1	7.3	7.5	7.3	7.3	7.1	7.1	6.8	6.1	5.5	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°	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	10.0	8.9	7.5	6.4	6.1	5.9
5°	11.2	8.2	6.1	5.0	4.6	4.3
7.5°	12.1	7.5	5.0	3.6	3.2	3.0
10°	12.5	6.6	4.1	2.7	2.0	2.0
12.5°	12.8	5.7	3.0	1.8	1.1	1.1
15°	12.5	4.8	2.3	0.9	0.2	0.2
17.5°	11.4	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°	8.7	2.5	0.5	0.0	0.0	0.0
23°	8.0	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°	4.6	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)