

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: P1334081

Luminaire Tested: P3A02R159727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334081
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: P3A02R159727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

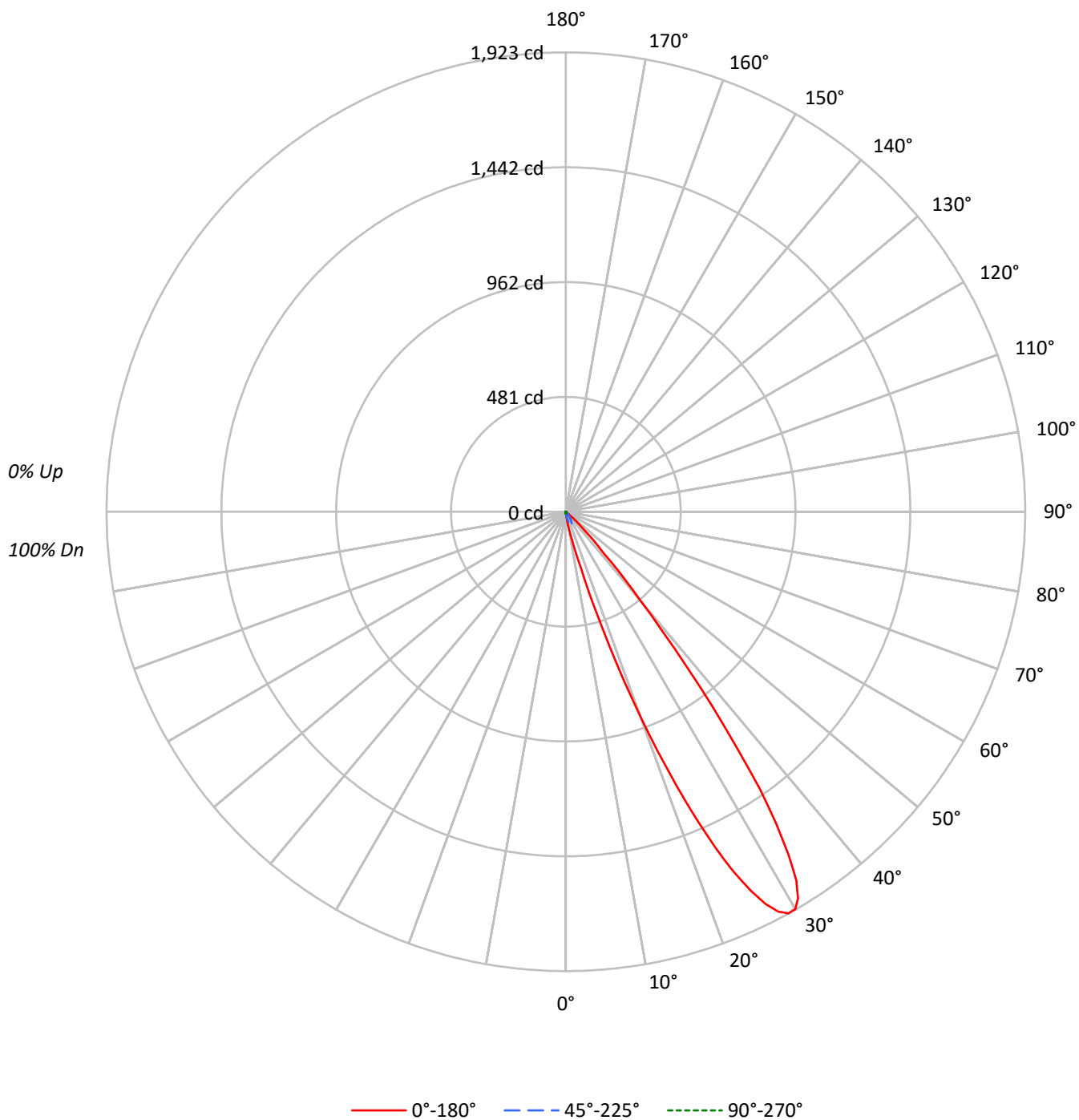
Lumens per Lamp: N/A
Luminaire Lumens: 210.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1513	1513	1513	1513	1513
5°	3280	2421	1431	770	638
10°	14562	4587	1136	312	223
15°	55051	10624	795	136	91
20°	211698	14958	467	47	47
25°	402556	14033	242	0	0
30°	486303	11318	101	0	0
35°	379293	7710	54	0	0
40°	138402	3807	57	0	57
45°	35539	1147	62	0	124
50°	6004	136	68	68	205
55°	765	0	153	229	382
60°	88	88	263	351	526
65°	104	104	415	519	623
70°	128	128	513	513	641
75°	169	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35539 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	16.1	7.7
20°-30°	89.2	42.5
30°-40°	86.2	41.1
40°-50°	15.0	7.1
50°-60°	1.1	0.5
60°-70°	0.6	0.3
70°-80°	0.5	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°	106.3	50.6
0°-40°	192.5	91.7
0°-60°	208.6	99.3
0°-90°	210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	210.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	15	11	6	4	3	3
15°	242	47	4	1	0	108
25°	1664	58	1	0	0	744
35°	1417	29	0	0	0	815
45°	115	4	0	0	0	123
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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	10.2	9.8	10.0	10.0	10.0	10.0	10.0	9.6	9.6	9.8	8.8
5°	14.9	14.9	14.7	14.9	14.9	14.7	14.3	14.1	14.1	13.7	11.0
7.5°	29.8	29.4	29.4	29.0	27.0	26.4	25.9	24.9	23.1	22.7	14.3
10°	65.4	65.6	64.1	62.3	62.1	59.0	58.0	56.2	52.7	49.2	20.6
12.5°	118.7	116.0	112.6	112.8	106.8	104.8	100.1	95.0	89.7	84.2	33.9
15°	242.5	234.9	239.4	228.4	215.9	201.8	187.5	169.6	154.2	137.9	46.8
17.5°	510.7	518.0	505.6	458.4	429.4	395.3	347.3	300.9	261.3	229.4	57.2
20°	907.2	918.0	875.7	834.7	764.2	687.4	607.3	516.6	429.8	354.6	64.1
21°	1072.9	1066.3	1049.0	983.2	901.9	812.8	714.8	614.7	509.5	411.8	64.8
22°	1233.0	1236.1	1195.6	1126.8	1042.2	943.6	823.8	700.3	586.9	458.4	63.7
23°	1392.6	1402.4	1348.8	1284.3	1177.9	1066.5	928.0	794.6	654.5	511.7	61.7
24°	1540.3	1533.5	1497.4	1416.0	1302.3	1171.9	1028.1	866.3	710.1	557.3	60.1
25°	1663.8	1663.0	1606.2	1527.2	1397.1	1252.6	1094.1	925.0	757.7	588.1	58.0
26°	1765.0	1748.4	1703.7	1607.3	1478.8	1326.4	1148.2	967.7	784.4	603.6	56.0
27°	1843.0	1831.1	1771.1	1670.8	1536.6	1368.0	1183.0	988.9	796.7	608.7	53.3
28°	1895.5	1882.6	1818.7	1715.3	1568.4	1394.2	1201.4	997.9	796.7	603.8	50.9
29°	1922.7	1905.1	1841.4	1730.6	1575.8	1397.3	1196.9	989.1	784.2	588.7	48.0
30°	1920.6	1898.8	1832.0	1716.7	1553.9	1372.1	1171.7	957.4	756.0	566.3	44.7
31°	1887.5	1863.0	1788.4	1669.8	1508.8	1324.7	1124.3	915.0	717.4	537.0	41.5
32°	1820.3	1789.3	1716.5	1598.3	1439.3	1253.9	1055.5	849.4	659.6	494.4	38.0
33°	1710.8	1679.6	1601.5	1490.6	1345.4	1164.0	964.2	778.9	593.8	443.5	35.1
34°	1573.8	1545.2	1477.9	1366.2	1226.9	1050.2	859.2	681.5	525.6	393.0	32.1
35°	1416.9	1371.3	1310.4	1222.0	1086.1	908.4	745.8	590.8	455.3	340.1	28.8
36°	1204.6	1212.8	1148.2	1040.0	927.4	788.1	632.0	492.5	380.8	289.9	25.9
37°	1016.5	1003.6	962.6	878.8	780.7	642.5	529.7	417.5	320.3	245.1	22.9
38°	820.0	822.8	782.6	718.2	621.0	528.3	426.3	343.0	268.0	208.6	20.0
39°	641.8	639.6	628.8	569.1	481.1	420.2	345.4	284.4	223.3	175.9	17.0
40°	483.5	487.2	461.9	425.9	374.6	324.6	275.2	226.7	184.7	148.3	13.3
42.5°	235.1	240.8	224.1	214.9	192.2	172.6	145.6	118.9	101.1	87.4	5.9
45°	114.6	111.3	109.9	105.4	100.1	89.5	79.3	68.0	59.4	51.3	3.7
47.5°	58.6	57.0	57.0	55.2	53.3	49.8	44.7	41.1	37.0	31.9	1.4
50°	17.6	17.4	17.2	17.4	16.8	17.4	17.8	18.0	16.3	16.1	0.4
52.5°	6.9	7.1	6.9	7.6	7.6	7.4	7.6	7.4	7.1	6.3	0.0
55°	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	2.2	2.5	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°	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	8.2	7.1	5.9	4.9	4.5	4.3
5°	8.8	6.5	4.5	3.5	3.1	2.9
7.5°	9.4	5.9	3.5	2.5	1.8	1.6
10°	9.8	5.1	2.7	1.4	1.0	1.0
12.5°	9.8	4.1	1.8	0.8	0.6	0.6
15°	9.6	3.5	1.2	0.6	0.4	0.4
17.5°	9.4	2.7	0.8	0.4	0.2	0.4
20°	8.8	2.0	0.4	0.2	0.2	0.2
21°	8.6	1.8	0.4	0.2	0.2	0.2
22°	8.2	1.6	0.2	0.0	0.2	0.2
23°	7.8	1.2	0.2	0.0	0.0	0.0
24°	7.1	1.0	0.2	0.0	0.0	0.0
25°	6.7	1.0	0.2	0.0	0.0	0.0
26°	6.3	0.6	0.0	0.0	0.0	0.0
27°	5.7	0.4	0.0	0.0	0.0	0.0
28°	5.3	0.4	0.0	0.0	0.0	0.0
29°	4.7	0.4	0.0	0.0	0.0	0.0
30°	4.1	0.4	0.0	0.0	0.0	0.0
31°	3.3	0.2	0.0	0.0	0.0	0.0
32°	2.7	0.2	0.0	0.0	0.0	0.0
33°	1.8	0.2	0.0	0.0	0.0	0.0
34°	1.2	0.2	0.0	0.0	0.0	0.0
35°	1.0	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.2	0.0	0.0	0.0	0.2
37°	0.6	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	0.6
52.5°	0.0	0.4	0.2	0.4	0.6	0.8
55°	0.2	0.4	0.4	0.6	0.8	1.0
57.5°	0.2	0.6	0.6	0.8	1.0	1.0
60°	0.4	0.6	0.8	0.8	1.2	1.2
62.5°	0.4	0.8	0.8	0.8	1.2	1.2
65°	0.4	0.8	0.8	1.0	1.2	1.2
67.5°	0.4	0.8	0.8	0.8	1.0	1.2
70°	0.4	0.8	0.6	0.8	1.0	1.0
72.5°	0.4	0.8	0.6	0.6	0.8	1.0
75°	0.4	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)