

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: P1334453

Luminaire Tested: P3A02R209740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334453
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: P3A02R209740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

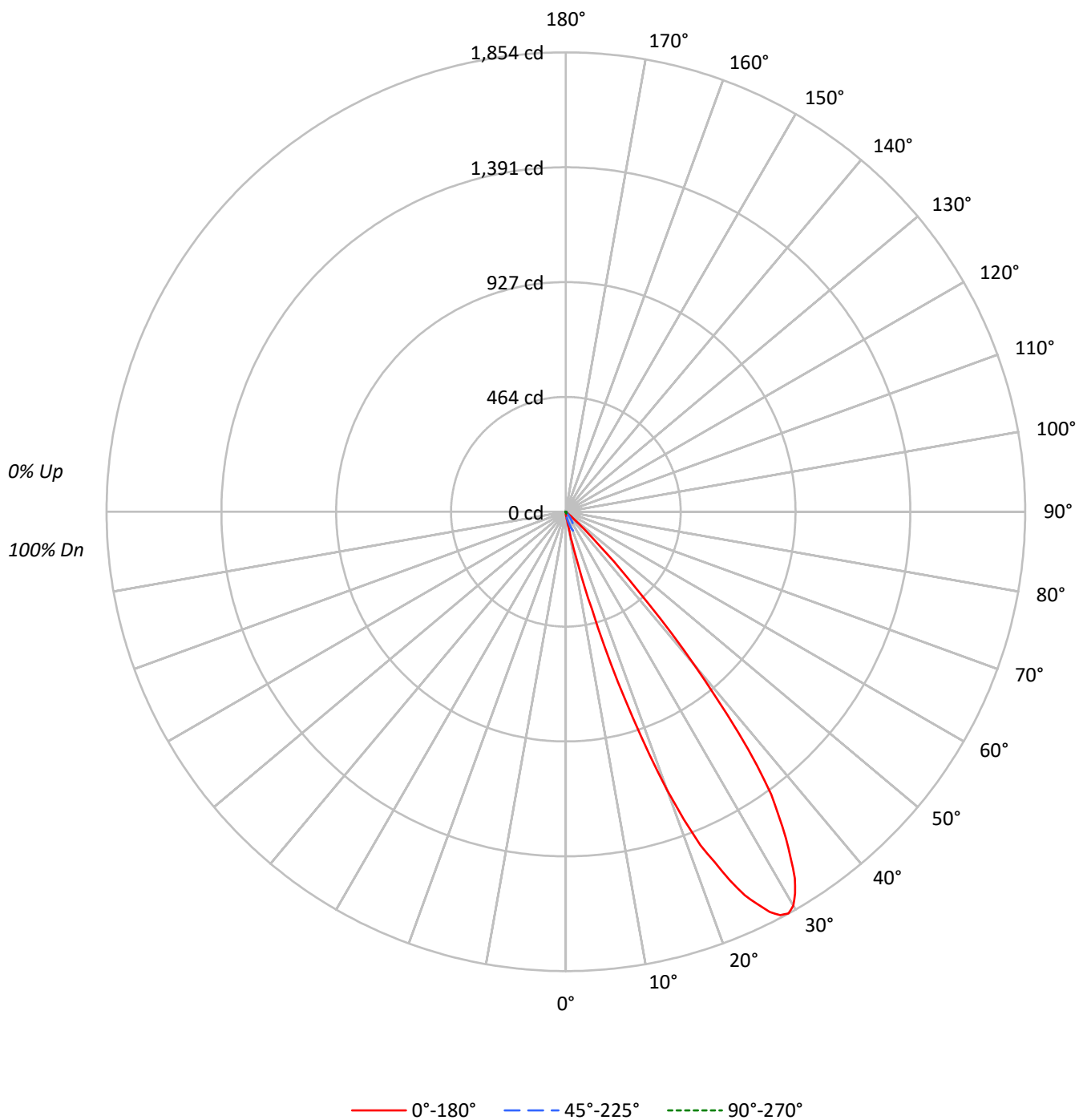
Lumens per Lamp: N/A
Luminaire Lumens: 259.9 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1974	1974	1974	1974	1974
5°	4512	3368	1871	1145	991
10°	14228	5878	1514	623	468
15°	92214	10874	1135	204	45
20°	278298	18598	770	0	0
25°	413322	18775	460	0	0
30°	464780	14281	177	0	0
35°	401030	8513	134	0	0
40°	230918	2891	0	0	0
45°	56316	1178	62	0	62
50°	6755	307	68	68	239
55°	918	0	191	191	344
60°	88	0	307	307	526
65°	104	104	467	467	726
70°	128	128	577	577	769
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: 56688 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	24.1	9.3
20°-30°	105.0	40.4
30°-40°	105.8	40.7
40°-50°	21.2	8.2
50°-60°	1.1	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°	130.3	50.1
0°-40°	236.1	90.8
0°-60°	258.4	99.4
0°-90°	259.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	259.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	15	8	5	4	3
15°	406	48	5	1	0	159
25°	1708	78	2	0	0	770
35°	1498	32	0	0	0	891
45°	182	4	0	0	0	198
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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	13.4	13.4	13.2	13.2	13.0	13.2	12.7	13.0	13.0	12.7	11.6
5°	20.5	21.0	20.8	20.8	20.5	20.8	20.3	19.8	19.3	19.3	15.3
7.5°	33.7	33.5	33.0	33.3	32.6	32.1	31.6	31.4	30.0	29.2	20.0
10°	63.9	65.3	64.2	63.9	59.7	59.4	56.6	52.6	49.1	47.2	26.4
12.5°	176.0	183.5	171.7	166.1	162.8	150.0	144.6	130.7	117.2	107.1	33.5
15°	406.2	424.8	401.0	402.6	382.8	346.5	314.7	287.3	255.0	222.4	47.9
17.5°	795.9	780.8	767.8	745.9	705.5	652.2	583.6	514.0	453.8	390.9	66.8
20°	1192.6	1179.2	1149.7	1101.8	1050.4	971.4	889.7	785.2	684.1	589.2	79.7
21°	1329.2	1324.7	1276.4	1246.9	1167.6	1092.1	998.0	886.2	772.3	660.0	81.9
22°	1451.1	1424.3	1398.3	1354.7	1275.9	1193.8	1089.1	971.4	847.8	723.0	82.1
23°	1535.6	1523.3	1498.8	1449.5	1371.2	1274.7	1164.3	1041.2	911.0	767.6	81.4
24°	1629.0	1613.4	1577.6	1520.0	1441.0	1345.7	1219.7	1097.6	956.0	805.1	79.5
25°	1708.3	1684.0	1641.5	1579.5	1493.1	1394.8	1268.1	1133.9	987.4	830.3	77.6
26°	1759.7	1746.5	1692.0	1624.5	1532.1	1430.6	1301.4	1161.7	1007.7	841.9	74.5
27°	1813.2	1788.9	1735.4	1657.8	1557.5	1454.0	1320.2	1175.2	1014.8	842.3	70.8
28°	1843.9	1817.5	1756.8	1675.2	1574.0	1466.9	1331.1	1179.4	1013.3	835.0	66.3
29°	1853.6	1820.3	1761.1	1678.1	1578.0	1467.9	1329.4	1173.3	1000.8	817.1	61.1
30°	1835.6	1801.7	1745.5	1664.6	1565.3	1456.1	1314.1	1153.0	978.7	791.4	56.4
31°	1796.5	1767.7	1713.4	1632.3	1537.0	1428.5	1279.4	1119.7	940.9	756.9	51.0
32°	1744.8	1716.5	1663.2	1589.8	1492.9	1383.4	1232.0	1067.8	896.6	705.5	45.5
33°	1667.2	1650.9	1603.1	1533.0	1436.0	1319.1	1168.3	1005.8	833.4	648.4	40.8
34°	1588.7	1568.1	1534.6	1458.0	1353.7	1237.0	1085.3	920.2	756.2	584.5	36.3
35°	1498.1	1485.8	1433.2	1371.9	1267.2	1147.8	997.1	836.9	666.4	513.3	31.8
36°	1410.3	1391.5	1331.6	1266.7	1165.0	1036.0	887.2	736.7	588.8	446.5	27.1
37°	1283.0	1254.2	1211.5	1143.1	1024.2	914.3	778.4	638.8	493.2	374.3	21.9
38°	1133.2	1119.7	1060.5	991.6	893.3	789.0	654.6	536.2	406.9	312.5	16.7
39°	956.5	956.3	899.7	849.9	753.6	659.8	538.5	435.2	335.9	251.7	13.0
40°	806.7	778.9	744.0	681.5	607.6	527.9	421.8	340.6	260.6	202.9	10.1
42.5°	422.9	420.6	400.1	353.1	311.8	264.9	210.6	175.5	137.3	111.8	6.4
45°	181.6	182.8	168.7	161.6	145.5	126.0	106.4	88.7	76.0	61.6	3.8
47.5°	46.0	44.1	43.6	45.3	45.3	43.9	39.4	37.0	34.2	31.4	2.1
50°	19.8	19.3	18.9	18.9	17.7	17.0	15.8	14.4	13.2	11.8	0.9
52.5°	7.3	7.5	7.8	7.5	7.5	7.3	7.3	7.1	6.4	5.7	0.5
55°	2.4	2.4	2.4	2.6	2.6	2.8	2.8	2.8	2.8	2.6	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°	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	10.4	9.2	7.8	6.6	6.4	6.1
5°	11.6	8.5	6.4	5.2	4.7	4.5
7.5°	12.5	7.8	5.2	3.8	3.3	3.1
10°	13.0	6.8	4.2	2.8	2.1	2.1
12.5°	13.2	5.9	3.1	1.9	1.2	1.2
15°	13.0	5.0	2.4	0.9	0.2	0.2
17.5°	11.8	4.0	1.4	0.2	0.0	0.0
20°	10.1	3.3	0.9	0.0	0.0	0.0
21°	9.7	2.8	0.7	0.0	0.0	0.0
22°	9.0	2.6	0.5	0.0	0.0	0.0
23°	8.3	2.4	0.5	0.0	0.0	0.0
24°	7.5	2.1	0.2	0.0	0.0	0.0
25°	7.1	1.9	0.2	0.0	0.0	0.0
26°	6.6	1.7	0.2	0.0	0.0	0.0
27°	5.9	1.4	0.0	0.0	0.0	0.0
28°	5.4	1.2	0.0	0.0	0.0	0.0
29°	4.7	0.9	0.0	0.0	0.0	0.0
30°	4.0	0.7	0.0	0.0	0.0	0.0
31°	3.3	0.7	0.0	0.0	0.0	0.0
32°	2.8	0.5	0.0	0.0	0.0	0.0
33°	2.4	0.5	0.0	0.0	0.0	0.0
34°	2.1	0.5	0.0	0.0	0.0	0.0
35°	1.9	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.2	0.0	0.0	0.0	0.0
37°	1.2	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	1.2
60°	0.5	0.7	0.7	0.7	1.2	1.2
62.5°	0.5	0.7	0.9	0.9	1.2	1.4
65°	0.5	0.9	0.9	0.9	1.2	1.4
67.5°	0.7	0.9	0.9	0.9	1.2	1.4
70°	0.7	0.9	0.9	0.9	1.2	1.2
72.5°	0.7	0.9	0.7	0.9	0.9	1.2
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)