

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: P1336395

Luminaire Tested: P3A05R159727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336395
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: P3A05R159727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

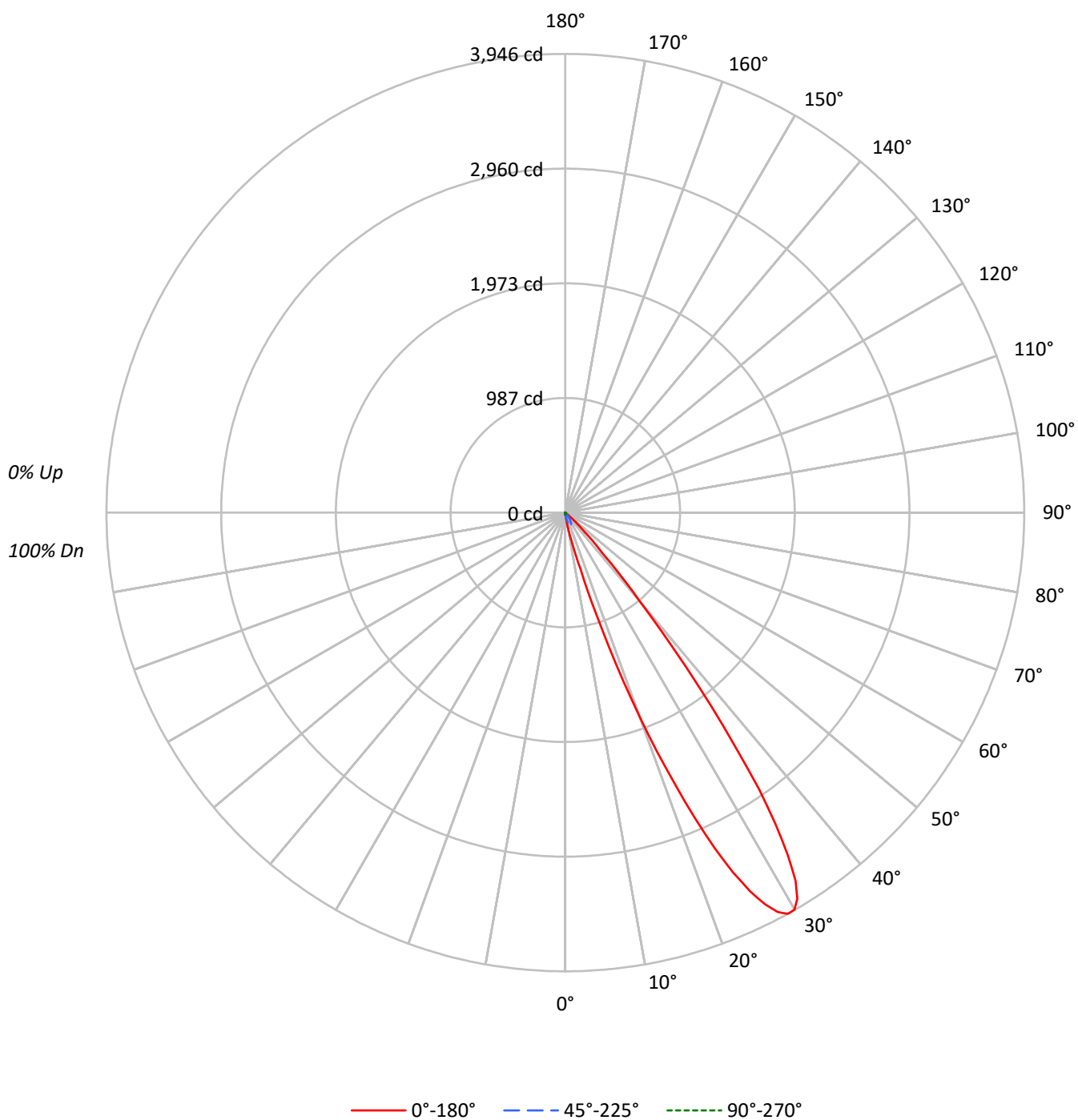
Lumens per Lamp: N/A
Luminaire Lumens: 431.0 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	3136	3136	3136	3136	3136
5°	6736	4975	2950	1563	1299
10°	29881	9419	2338	646	468
15°	112986	21794	1612	295	182
20°	434481	30709	980	93	93
25°	826209	28816	508	0	0
30°	998078	23244	203	0	0
35°	778449	15821	107	0	0
40°	284075	7815	115	0	115
45°	72938	2326	124	0	248
50°	12315	273	136	136	443
55°	1606	0	306	497	803
60°	175	175	570	746	1096
65°	208	208	882	1090	1297
70°	256	256	1090	1090	1346
75°	339	339	1440	1101	1440
80°	0	505	1642	1010	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 72938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	33.0	7.7
20°-30°	183.2	42.5
30°-40°	177.0	41.1
40°-50°	30.8	7.1
50°-60°	2.2	0.5
60°-70°	1.3	0.3
70°-80°	1.1	0.2
80°-90°	0.5	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°	218.2	50.6
0°-40°	395.1	91.7
0°-60°	428.1	99.3
0°-90°	431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	431.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	23	13	7	6	6
15°	498	96	7	1	1	222
25°	3415	119	2	0	0	1527
35°	2908	59	0	0	0	1672
45°	235	8	0	0	1	253
55°	4	0	1	1	2	8
65°	0	0	2	2	2	0
75°	0	0	2	1	2	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°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	21.0	20.1	20.5	20.5	20.5	20.5	20.5	19.7	19.7	20.1	18.0
5°	30.6	30.6	30.2	30.6	30.6	30.2	29.3	28.9	28.9	28.1	22.6
7.5°	61.2	60.4	60.4	59.5	55.3	54.1	53.2	51.1	47.4	46.5	29.3
10°	134.2	134.6	131.6	127.9	127.5	121.2	119.1	115.3	108.2	101.0	42.3
12.5°	243.6	238.1	231.0	231.4	219.3	215.1	205.4	195.0	184.1	172.7	69.6
15°	497.7	482.1	491.4	468.7	443.2	414.2	384.9	348.0	316.5	283.0	96.0
17.5°	1048.1	1063.2	1037.7	940.8	881.3	811.3	712.7	617.6	536.2	470.8	117.4
20°	1861.9	1884.1	1797.3	1713.1	1568.4	1410.8	1246.4	1060.3	882.1	727.8	131.6
21°	2201.9	2188.5	2152.9	2017.9	1851.0	1668.2	1467.0	1261.5	1045.6	845.2	132.9
22°	2530.6	2536.9	2453.9	2312.6	2139.0	1936.5	1690.9	1437.2	1204.5	940.8	130.8
23°	2858.1	2878.2	2768.3	2635.9	2417.4	2188.9	1904.7	1630.9	1343.3	1050.2	126.6
24°	3161.2	3147.3	3073.1	2906.3	2672.7	2405.3	2110.1	1778.1	1457.3	1143.7	123.3
25°	3414.8	3413.2	3296.6	3134.3	2867.3	2570.9	2245.5	1898.4	1555.0	1207.0	119.1
26°	3622.4	3588.4	3496.6	3298.7	3035.0	2722.2	2356.6	1986.0	1609.9	1238.9	114.9
27°	3782.5	3758.2	3634.9	3429.1	3153.6	2807.7	2427.9	2029.6	1635.1	1249.4	109.4
28°	3890.3	3863.9	3732.6	3520.5	3219.0	2861.4	2465.6	2048.1	1635.1	1239.3	104.4
29°	3946.0	3910.0	3779.2	3551.9	3234.1	2867.7	2456.4	2030.0	1609.5	1208.3	98.5
30°	3941.8	3897.0	3759.9	3523.4	3189.3	2816.1	2404.8	1965.0	1551.7	1162.2	91.8
31°	3873.9	3823.6	3670.6	3427.0	3096.6	2718.9	2307.6	1877.8	1472.4	1102.2	85.1
32°	3736.0	3672.3	3523.0	3280.2	2954.1	2573.4	2166.3	1743.3	1353.8	1014.6	78.0
33°	3511.3	3447.1	3287.0	3059.3	2761.2	2388.9	1978.9	1598.6	1218.8	910.2	72.1
34°	3229.9	3171.2	3033.3	2804.0	2518.0	2155.4	1763.4	1398.6	1078.7	806.6	65.8
35°	2908.0	2814.5	2689.5	2508.0	2229.2	1864.4	1530.7	1212.5	934.5	698.1	59.1
36°	2472.3	2489.1	2356.6	2134.4	1903.4	1617.5	1297.2	1010.8	781.5	594.9	53.2
37°	2086.2	2059.8	1975.5	1803.6	1602.4	1318.6	1087.1	857.0	657.4	503.1	47.0
38°	1682.9	1688.8	1606.2	1474.1	1274.5	1084.2	875.0	703.9	550.1	428.1	41.1
39°	1317.3	1312.7	1290.5	1168.0	987.3	862.4	709.0	583.6	458.2	361.0	34.8
40°	992.4	999.9	947.9	874.1	768.9	666.2	564.7	465.4	379.0	304.4	27.3
42.5°	482.6	494.3	459.9	441.1	394.5	354.3	298.9	244.0	207.5	179.4	12.2
45°	235.2	228.5	225.6	216.3	205.4	183.6	162.7	139.6	122.0	105.2	7.5
47.5°	120.3	117.0	117.0	113.2	109.4	102.3	91.8	84.3	75.9	65.4	2.9
50°	36.1	35.6	35.2	35.6	34.4	35.6	36.5	36.9	33.5	33.1	0.8
52.5°	14.3	14.7	14.3	15.5	15.5	15.1	15.5	15.1	14.7	13.0	0.0
55°	4.2	4.2	4.2	4.2	4.2	4.2	4.6	5.0	4.6	5.0	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	16.8	14.7	12.2	10.1	9.2	8.8
5°	18.0	13.4	9.2	7.1	6.3	5.9
7.5°	19.3	12.2	7.1	5.0	3.8	3.4
10°	20.1	10.5	5.5	2.9	2.1	2.1
12.5°	20.1	8.4	3.8	1.7	1.3	1.3
15°	19.7	7.1	2.5	1.3	0.8	0.8
17.5°	19.3	5.5	1.7	0.8	0.4	0.8
20°	18.0	4.2	0.8	0.4	0.4	0.4
21°	17.6	3.8	0.8	0.4	0.4	0.4
22°	16.8	3.4	0.4	0.0	0.4	0.4
23°	15.9	2.5	0.4	0.0	0.0	0.0
24°	14.7	2.1	0.4	0.0	0.0	0.0
25°	13.8	2.1	0.4	0.0	0.0	0.0
26°	13.0	1.3	0.0	0.0	0.0	0.0
27°	11.7	0.8	0.0	0.0	0.0	0.0
28°	10.9	0.8	0.0	0.0	0.0	0.0
29°	9.6	0.8	0.0	0.0	0.0	0.0
30°	8.4	0.8	0.0	0.0	0.0	0.0
31°	6.7	0.4	0.0	0.0	0.0	0.0
32°	5.5	0.4	0.0	0.0	0.0	0.0
33°	3.8	0.4	0.0	0.0	0.0	0.0
34°	2.5	0.4	0.0	0.0	0.0	0.0
35°	2.1	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.4	0.0	0.0	0.0	0.4
37°	1.3	0.4	0.0	0.0	0.0	0.4
38°	0.8	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.3
52.5°	0.0	0.8	0.4	0.8	1.3	1.7
55°	0.4	0.8	0.8	1.3	1.7	2.1
57.5°	0.4	1.3	1.3	1.7	2.1	2.1
60°	0.8	1.3	1.7	1.7	2.5	2.5
62.5°	0.8	1.7	1.7	1.7	2.5	2.5
65°	0.8	1.7	1.7	2.1	2.5	2.5
67.5°	0.8	1.7	1.7	1.7	2.1	2.5
70°	0.8	1.7	1.3	1.7	2.1	2.1
72.5°	0.8	1.7	1.3	1.3	1.7	2.1
75°	0.8	1.7	1.3	1.3	1.7	1.7
77.5°	0.8	1.3	1.3	0.8	1.3	1.3
80°	0.8	1.3	0.8	0.8	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.3	0.8	0.4	0.8	0.8
85°	0.8	1.3	0.8	0.4	0.4	0.4
87.5°	0.8	1.3	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)