

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: P1343451

Luminaire Tested: P3A13R159040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343451
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: P3A13R159040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

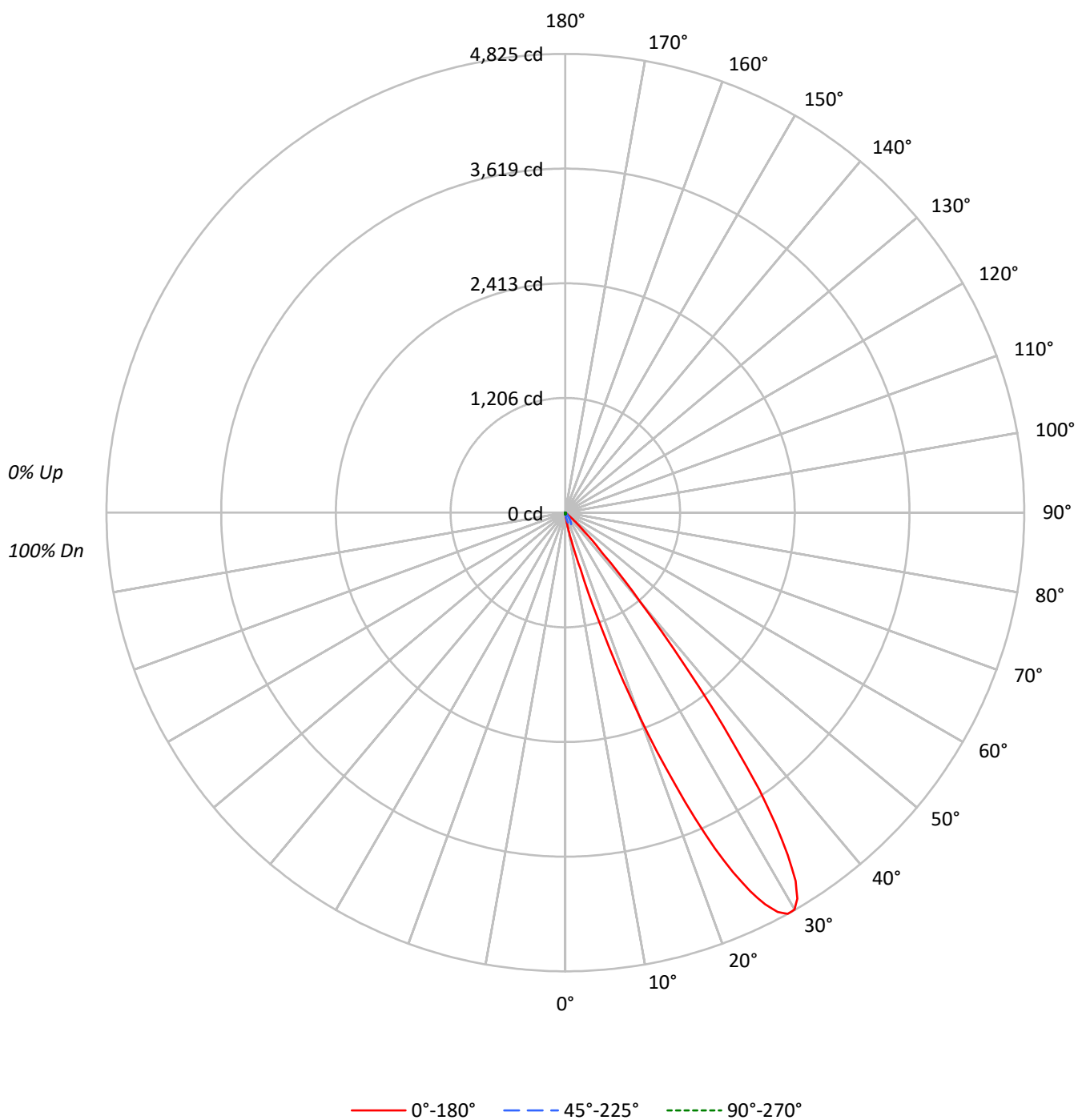
Lumens per Lamp: N/A
Luminaire Lumens: 527.0 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	3815	3815	3815	3815	3815
5°	8232	6097	3610	1915	1585
10°	36517	11534	2850	802	579
15°	138139	26652	1975	341	227
20°	531253	37570	1190	117	117
25°	1010236	35228	629	0	0
30°	1220390	28435	253	0	0
35°	951833	19354	134	0	0
40°	347336	9532	143	0	143
45°	89188	2853	155	0	310
50°	15044	341	171	171	512
55°	1950	0	382	573	994
60°	219	219	658	921	1360
65°	259	259	1090	1349	1608
70°	321	321	1346	1346	1667
75°	424	424	1779	1271	1779
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 89188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	40.4	7.7
20°-30°	224.0	42.5
30°-40°	216.4	41.1
40°-50°	37.6	7.1
50°-60°	2.7	0.5
60°-70°	1.6	0.3
70°-80°	1.3	0.2
80°-90°	0.6	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°	266.7	50.6
0°-40°	483.1	91.7
0°-60°	523.5	99.3
0°-90°	527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	527.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	37	28	16	9	7	7
15°	608	117	9	2	1	271
25°	4175	146	3	0	0	1867
35°	3556	72	0	0	0	2045
45°	288	9	0	0	1	309
55°	5	0	1	2	3	10
65°	0	0	2	3	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
2.5°	25.6	24.6	25.1	25.1	25.1	25.1	25.1	24.1	24.1	24.6	22.0
5°	37.4	37.4	36.9	37.4	37.4	36.9	35.9	35.4	35.4	34.3	27.7
7.5°	74.8	73.8	73.8	72.8	67.7	66.1	65.1	62.5	57.9	56.9	35.9
10°	164.0	164.6	161.0	156.4	155.8	148.2	145.6	141.0	132.3	123.5	51.8
12.5°	297.8	291.2	282.5	283.0	268.1	263.0	251.2	238.4	225.0	211.2	85.1
15°	608.5	589.5	600.8	573.1	541.9	506.5	470.6	425.5	387.0	346.0	117.4
17.5°	1281.6	1300.1	1268.8	1150.4	1077.6	992.0	871.5	755.1	655.7	575.7	143.5
20°	2276.6	2303.8	2197.7	2094.6	1917.8	1725.0	1524.1	1296.5	1078.6	889.9	161.0
21°	2692.4	2676.0	2632.4	2467.3	2263.3	2039.8	1793.7	1542.5	1278.5	1033.5	162.5
22°	3094.3	3102.0	3000.5	2827.7	2615.5	2367.9	2067.5	1757.3	1472.8	1150.4	159.9
23°	3494.7	3519.3	3385.0	3223.0	2955.9	2676.5	2328.9	1994.2	1642.5	1284.2	154.8
24°	3865.3	3848.4	3757.6	3553.6	3268.1	2941.0	2580.1	2174.1	1781.9	1398.5	150.7
25°	4175.4	4173.4	4030.9	3832.5	3505.9	3143.5	2745.7	2321.2	1901.4	1475.9	145.6
26°	4429.2	4387.7	4275.4	4033.4	3711.0	3328.6	2881.5	2428.4	1968.5	1514.8	140.5
27°	4625.0	4595.3	4444.6	4192.9	3856.1	3433.1	2968.7	2481.7	1999.3	1527.7	133.8
28°	4756.8	4724.5	4564.0	4304.6	3936.0	3498.8	3014.8	2504.2	1999.3	1515.4	127.6
29°	4825.0	4780.9	4620.9	4343.1	3954.5	3506.4	3003.5	2482.2	1968.0	1477.4	120.5
30°	4819.8	4765.0	4597.3	4308.2	3899.6	3443.4	2940.5	2402.7	1897.3	1421.0	112.3
31°	4736.8	4675.3	4488.2	4190.3	3786.3	3324.5	2821.6	2296.1	1800.4	1347.7	104.1
32°	4568.1	4490.2	4307.7	4010.9	3612.1	3146.6	2648.8	2131.6	1655.3	1240.6	95.4
33°	4293.3	4214.9	4019.1	3740.7	3376.2	2921.0	2419.7	1954.7	1490.2	1112.9	88.2
34°	3949.4	3877.6	3708.9	3428.5	3078.9	2635.5	2156.2	1710.2	1319.0	986.3	80.5
35°	3555.7	3441.3	3288.6	3066.6	2725.7	2279.7	1871.6	1482.6	1142.7	853.5	72.3
36°	3023.0	3043.5	2881.5	2609.8	2327.4	1977.8	1586.1	1236.0	955.6	727.4	65.1
37°	2550.9	2518.6	2415.6	2205.4	1959.3	1612.2	1329.3	1047.8	803.8	615.2	57.4
38°	2057.7	2064.9	1963.9	1802.4	1558.4	1325.7	1069.9	860.7	672.6	523.4	50.2
39°	1610.7	1605.1	1577.9	1428.2	1207.3	1054.5	866.9	713.6	560.3	441.4	42.5
40°	1213.4	1222.6	1159.1	1068.9	940.2	814.6	690.5	569.0	463.4	372.2	33.3
42.5°	590.0	604.4	562.4	539.3	482.4	433.2	365.5	298.4	253.8	219.4	14.9
45°	287.6	279.4	275.8	264.5	251.2	224.5	198.9	170.7	149.2	128.7	9.2
47.5°	147.1	143.0	143.0	138.4	133.8	125.1	112.3	103.0	92.8	80.0	3.6
50°	44.1	43.6	43.1	43.6	42.0	43.6	44.6	45.1	41.0	40.5	1.0
52.5°	17.4	17.9	17.4	19.0	19.0	18.5	19.0	18.5	17.9	15.9	0.0
55°	5.1	5.1	5.1	5.1	5.1	5.1	5.6	6.2	5.6	6.2	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	17.4	17.4	17.4	17.4	17.4	17.4
2.5°	20.5	17.9	14.9	12.3	11.3	10.8
5°	22.0	16.4	11.3	8.7	7.7	7.2
7.5°	23.6	14.9	8.7	6.2	4.6	4.1
10°	24.6	12.8	6.7	3.6	2.6	2.6
12.5°	24.6	10.3	4.6	2.1	1.5	1.5
15°	24.1	8.7	3.1	1.5	1.0	1.0
17.5°	23.6	6.7	2.1	1.0	0.5	1.0
20°	22.0	5.1	1.0	0.5	0.5	0.5
21°	21.5	4.6	1.0	0.5	0.5	0.5
22°	20.5	4.1	0.5	0.0	0.5	0.5
23°	19.5	3.1	0.5	0.0	0.0	0.0
24°	17.9	2.6	0.5	0.0	0.0	0.0
25°	16.9	2.6	0.5	0.0	0.0	0.0
26°	15.9	1.5	0.0	0.0	0.0	0.0
27°	14.4	1.0	0.0	0.0	0.0	0.0
28°	13.3	1.0	0.0	0.0	0.0	0.0
29°	11.8	1.0	0.0	0.0	0.0	0.0
30°	10.3	1.0	0.0	0.0	0.0	0.0
31°	8.2	0.5	0.0	0.0	0.0	0.0
32°	6.7	0.5	0.0	0.0	0.0	0.0
33°	4.6	0.5	0.0	0.0	0.0	0.0
34°	3.1	0.5	0.0	0.0	0.0	0.0
35°	2.6	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.5	0.0	0.0	0.0	0.5
37°	1.5	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	1.0	1.5	2.1
55°	0.5	1.0	1.0	1.5	2.1	2.6
57.5°	0.5	1.5	1.5	2.1	2.6	2.6
60°	1.0	1.5	2.1	2.1	3.1	3.1
62.5°	1.0	2.1	2.1	2.1	3.1	3.1
65°	1.0	2.1	2.1	2.6	3.1	3.1
67.5°	1.0	2.1	2.1	2.1	2.6	3.1
70°	1.0	2.1	1.5	2.1	2.6	2.6
72.5°	1.0	2.1	1.5	1.5	2.1	2.6
75°	1.0	2.1	1.5	1.5	2.1	2.1
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)