

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: P1344480

Luminaire Tested: P3A13R259727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R259727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

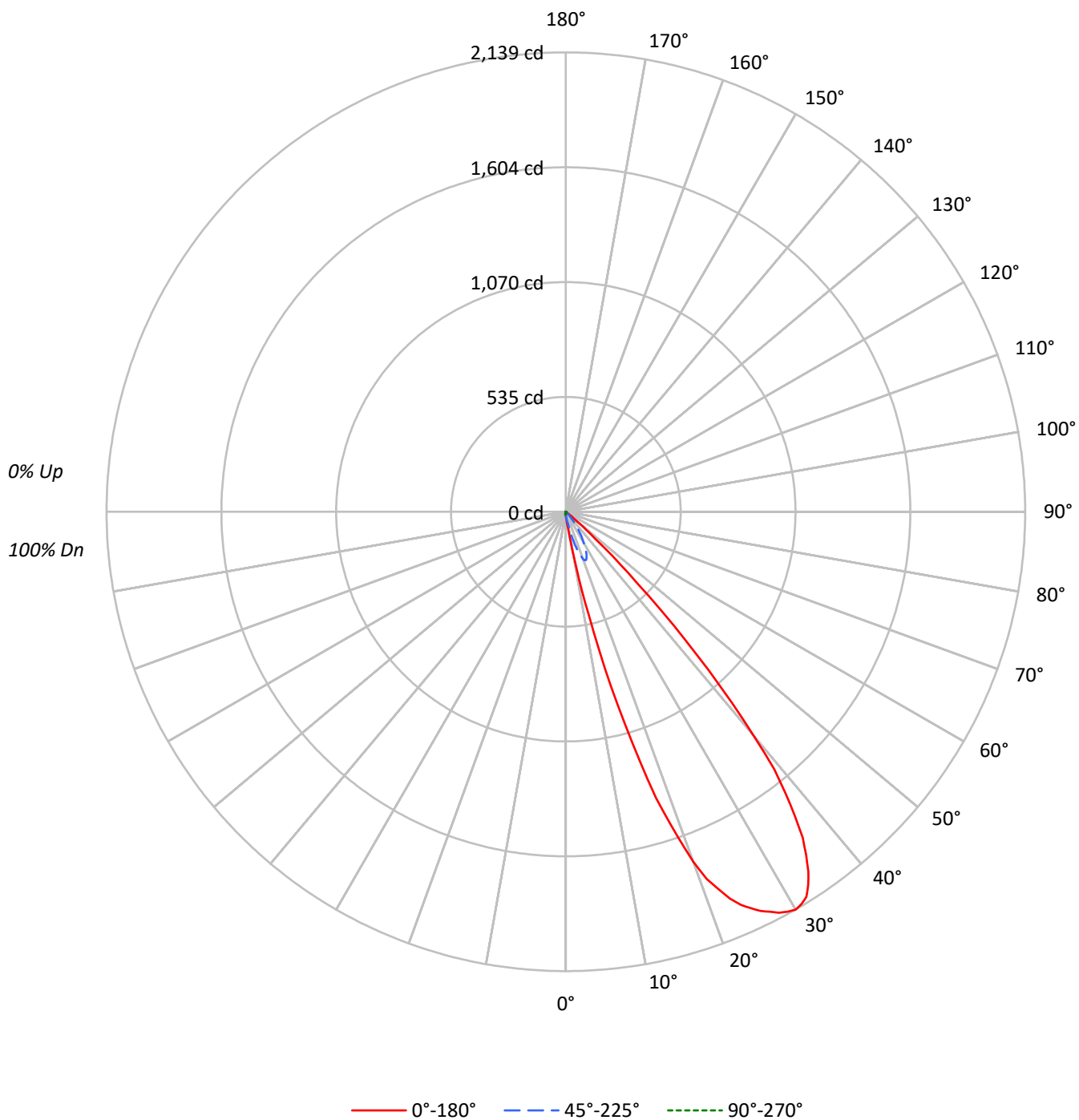
Lumens per Lamp: N/A
Luminaire Lumens: 428.0 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	52	63	57	52		61	56	52		60
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4035	4035	4035	4035	4035
5°	10103	7462	3786	1937	1497
10°	44199	12714	3117	891	623
15°	210126	34257	2179	363	272
20°	404519	54885	1400	93	93
25°	492657	55358	774	0	0
30°	541653	42361	304	0	0
35°	521973	26930	107	0	0
40°	390016	11650	0	0	115
45°	144387	3101	124	124	372
50°	17023	409	273	273	546
55°	1682	0	306	459	765
60°	175	0	526	702	877
65°	208	208	830	1038	1245
70°	256	256	1026	1026	1539
75°	339	339	1017	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 144387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.6
10°-20°	49.9	11.7
20°-30°	156.6	36.6
30°-40°	164.9	38.5
40°-50°	48.4	11.3
50°-60°	2.6	0.6
60°-70°	1.3	0.3
70°-80°	1.1	0.3
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°	209.2	48.9
0°-40°	374.1	87.4
0°-60°	425.1	99.3
0°-90°	428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	46	34	17	9	7	8
15°	926	151	10	2	1	292
25°	2036	229	3	0	0	934
35°	1950	101	0	0	0	1177
45°	466	10	0	0	1	423
55°	4	0	1	1	2	11
65°	0	0	2	2	2	0
75°	0	0	1	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	28.4	28.8	27.6	28.4	27.6	27.2	26.8	24.8	21.6	18.4	15.2
5°	45.9	45.9	43.9	43.5	42.7	41.1	39.5	33.9	24.4	17.2	12.0
7.5°	71.9	71.5	70.7	68.7	64.7	60.7	56.7	44.3	26.8	16.0	9.2
10°	198.5	195.7	192.1	170.5	146.2	124.6	105.8	57.1	28.8	14.0	6.8
12.5°	493.2	477.2	439.3	396.1	341.0	283.1	226.4	93.0	29.6	11.6	4.8
15°	925.6	892.5	833.4	747.1	634.5	507.9	400.1	150.9	28.8	9.6	3.6
17.5°	1397.7	1365.7	1283.8	1152.9	987.1	792.7	601.8	200.1	26.8	8.0	2.4
20°	1733.5	1699.5	1622.9	1483.9	1304.6	1045.4	792.3	235.2	25.2	6.0	1.2
21°	1831.7	1797.8	1716.7	1582.5	1394.1	1134.1	853.4	241.2	24.0	5.2	0.8
22°	1894.0	1874.1	1787.0	1656.8	1464.7	1205.2	905.7	244.0	23.2	4.8	0.8
23°	1956.7	1926.8	1845.3	1707.9	1518.6	1257.9	944.4	242.0	22.4	4.0	0.4
24°	2003.0	1977.9	1883.2	1747.5	1556.2	1290.2	967.2	236.8	21.2	3.6	0.4
25°	2036.2	2013.0	1914.4	1774.2	1581.3	1307.8	974.4	228.8	20.0	3.2	0.4
26°	2067.7	2042.6	1940.3	1789.8	1594.5	1313.4	967.6	220.0	18.8	2.8	0.0
27°	2090.5	2064.9	1958.3	1799.0	1595.3	1306.6	949.2	208.1	17.6	2.4	0.0
28°	2114.8	2085.3	1970.7	1804.2	1590.5	1290.6	922.9	195.3	16.8	2.0	0.0
29°	2129.6	2101.7	1983.5	1809.8	1580.5	1263.9	884.5	180.1	14.8	1.2	0.0
30°	2139.2	2106.1	1982.3	1803.8	1567.4	1235.1	838.6	167.3	12.8	1.2	0.0
31°	2131.2	2096.5	1969.5	1787.0	1546.2	1197.6	791.5	151.3	10.4	0.8	0.0
32°	2114.0	2072.9	1947.1	1757.8	1508.3	1149.3	742.8	138.2	7.6	0.8	0.0
33°	2072.1	2037.4	1906.8	1718.7	1458.8	1083.8	679.3	125.4	5.2	0.4	0.0
34°	2019.4	1984.7	1851.7	1666.4	1392.5	999.1	602.2	112.2	4.4	0.4	0.0
35°	1949.9	1915.6	1789.4	1593.3	1304.6	897.3	522.7	100.6	3.6	0.4	0.0
36°	1876.8	1831.3	1710.7	1515.5	1186.8	781.5	437.7	87.5	2.8	0.4	0.0
37°	1769.4	1738.7	1604.9	1396.9	1059.4	670.5	375.8	75.5	2.0	0.4	0.0
38°	1658.0	1629.7	1499.1	1277.5	917.3	560.7	314.7	63.9	1.6	0.0	0.0
39°	1543.0	1495.9	1366.9	1124.5	768.3	469.6	264.8	53.5	0.8	0.0	0.0
40°	1362.5	1326.6	1188.8	940.8	635.7	380.6	225.6	40.7	0.8	0.0	0.0
42.5°	903.3	869.7	725.2	510.3	337.8	222.4	148.9	16.0	0.0	0.4	0.0
45°	465.6	444.5	361.0	267.2	191.7	136.6	95.8	10.0	0.0	0.4	0.4
47.5°	184.9	181.3	163.7	141.4	109.0	81.1	52.3	4.4	0.0	0.4	0.4
50°	49.9	50.3	47.1	43.5	39.5	37.1	22.0	1.2	0.0	0.8	0.4
52.5°	21.2	21.6	20.8	19.6	17.6	13.2	8.8	0.4	0.4	0.8	0.8
55°	4.4	4.8	5.2	5.6	6.4	5.6	3.6	0.0	0.4	0.8	0.8
57.5°	0.8	0.8	0.8	0.8	1.2	1.2	0.8	0.0	0.4	0.8	1.2
60°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8	1.2	1.2
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.6	1.6
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	1.6
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	1.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	1.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	1.2	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	0.8
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):

	135°	157.5°	180°
0°	18.4	18.4	18.4
2.5°	12.8	11.6	11.2
5°	8.8	7.6	6.8
7.5°	6.0	4.8	4.4
10°	4.0	3.2	2.8
12.5°	2.8	1.6	1.6
15°	1.6	1.2	1.2
17.5°	0.8	0.4	0.4
20°	0.4	0.4	0.4
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.4
39°	0.0	0.4	0.4
40°	0.0	0.4	0.4
42.5°	0.0	0.4	0.8
45°	0.4	0.8	1.2
47.5°	0.8	1.2	1.6
50°	0.8	1.6	1.6
52.5°	1.2	1.6	2.0
55°	1.2	2.0	2.0
57.5°	1.6	2.0	2.4
60°	1.6	2.0	2.0
62.5°	1.6	2.4	2.4
65°	2.0	2.4	2.4
67.5°	2.0	2.4	2.4
70°	1.6	2.0	2.4
72.5°	1.6	2.0	2.0
75°	1.2	1.6	1.6
77.5°	1.2	1.2	1.6
80°	0.8	1.2	1.2

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.8	0.8	0.8
85°	0.4	0.4	0.4
87.5°	0.4	0.4	0.4
90°	0.0	0.0	0.0

(END OF REPORT)