

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: P1344379

Luminaire Tested: P3A13R259024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344379
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: P3A13R259024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

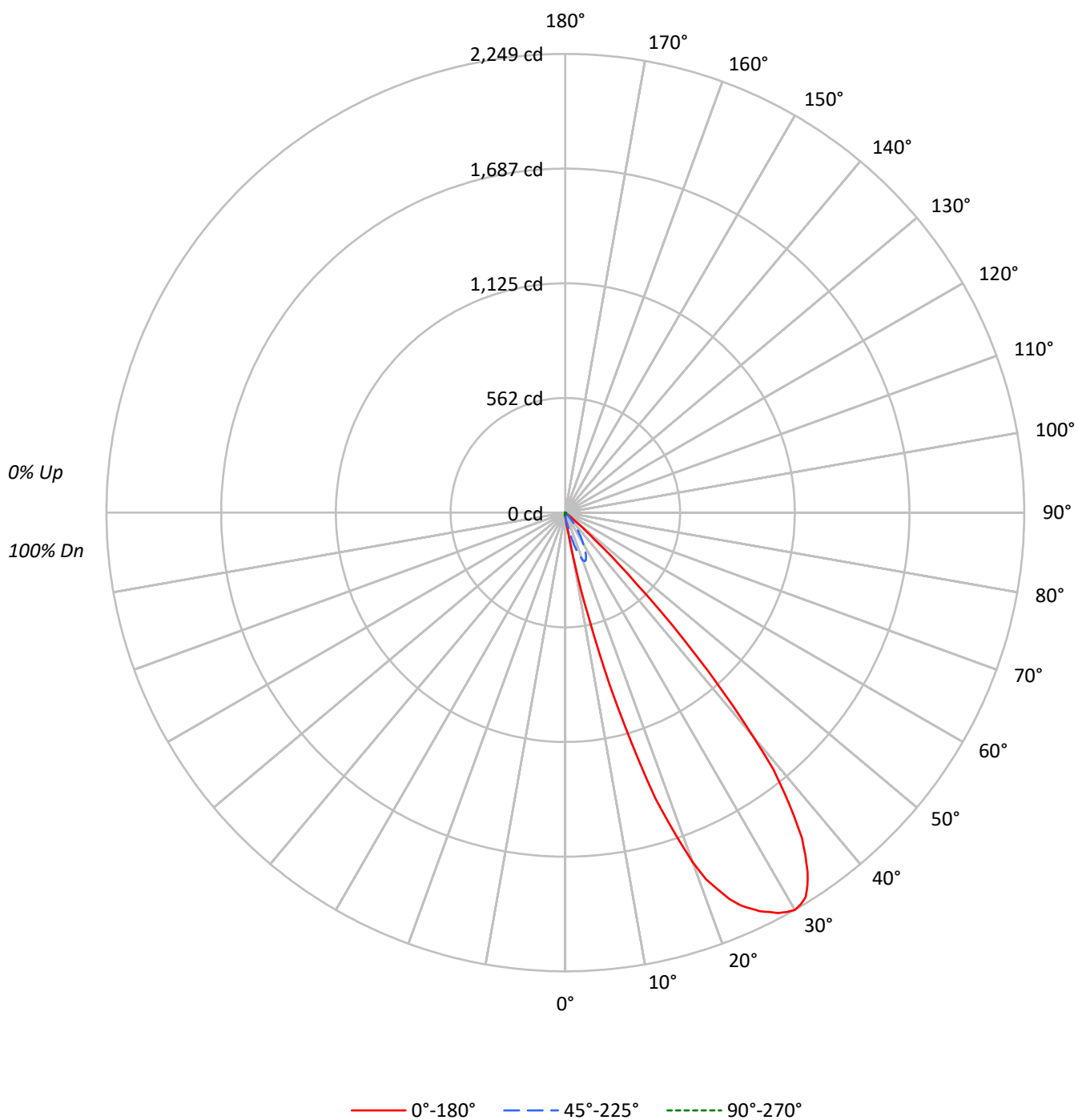
Lumens per Lamp: N/A
Luminaire Lumens: 450.0 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	104	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°	4232	4232	4232	4232	4232
5°	10632	7858	3984	2025	1563
10°	46470	13360	3273	935	646
15°	220932	36027	2293	386	295
20°	425310	57708	1470	93	93
25°	517965	58213	823	0	0
30°	569505	44538	329	0	0
35°	548823	28322	107	0	0
40°	410054	12252	0	0	115
45°	151830	3256	124	124	403
50°	17910	443	273	273	580
55°	1759	0	306	497	803
60°	175	0	570	746	921
65°	208	208	882	1090	1297
70°	256	256	1090	1090	1603
75°	339	339	1101	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: 151830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	52.5	11.7
20°-30°	164.7	36.6
30°-40°	173.3	38.5
40°-50°	50.9	11.3
50°-60°	2.7	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°	219.9	48.9
0°-40°	393.3	87.4
0°-60°	446.9	99.3
0°-90°	450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	48	36	18	9	7	9
15°	973	159	10	2	1	307
25°	2141	241	3	0	0	982
35°	2050	106	0	0	0	1237
45°	490	10	0	0	1	445
55°	5	0	1	1	2	12
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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	29.8	30.2	29.0	29.8	29.0	28.6	28.1	26.0	22.7	19.3	16.0
5°	48.3	48.3	46.2	45.8	44.9	43.2	41.6	35.7	25.6	18.1	12.6
7.5°	75.6	75.2	74.3	72.2	68.0	63.8	59.6	46.6	28.1	16.8	9.7
10°	208.7	205.7	202.0	179.3	153.7	131.0	111.3	60.0	30.2	14.7	7.1
12.5°	518.5	501.7	461.8	416.5	358.6	297.7	238.1	97.8	31.1	12.2	5.0
15°	973.2	938.4	876.2	785.6	667.2	534.1	420.7	158.7	30.2	10.1	3.8
17.5°	1469.5	1435.9	1349.8	1212.1	1037.9	833.4	632.7	210.3	28.1	8.4	2.5
20°	1822.6	1786.9	1706.3	1560.2	1371.7	1099.2	833.0	247.3	26.5	6.3	1.3
21°	1925.9	1890.2	1805.0	1663.9	1465.7	1192.4	897.2	253.6	25.2	5.5	0.8
22°	1991.4	1970.4	1878.9	1742.0	1540.0	1267.1	952.2	256.5	24.4	5.0	0.8
23°	2057.3	2025.8	1940.2	1795.7	1596.7	1322.5	993.0	254.4	23.5	4.2	0.4
24°	2106.0	2079.5	1980.0	1837.3	1636.2	1356.6	1016.9	249.0	22.3	3.8	0.4
25°	2140.8	2116.5	2012.8	1865.4	1662.6	1375.0	1024.4	240.6	21.0	3.4	0.4
26°	2174.0	2147.6	2040.1	1881.8	1676.5	1380.9	1017.3	231.3	19.7	2.9	0.0
27°	2197.9	2171.1	2059.0	1891.4	1677.3	1373.8	998.0	218.7	18.5	2.5	0.0
28°	2223.6	2192.5	2072.0	1896.9	1672.3	1357.0	970.3	205.3	17.6	2.1	0.0
29°	2239.1	2209.7	2085.4	1902.8	1661.8	1328.8	930.0	189.4	15.5	1.3	0.0
30°	2249.2	2214.3	2084.2	1896.5	1647.9	1298.6	881.7	175.9	13.4	1.3	0.0
31°	2240.8	2204.2	2070.7	1878.9	1625.7	1259.1	832.2	159.1	10.9	0.8	0.0
32°	2222.7	2179.5	2047.2	1848.2	1585.8	1208.3	780.9	145.3	8.0	0.8	0.0
33°	2178.6	2142.1	2004.8	1807.1	1533.7	1139.5	714.2	131.8	5.5	0.4	0.0
34°	2123.2	2086.7	1946.9	1752.1	1464.0	1050.5	633.1	118.0	4.6	0.4	0.0
35°	2050.2	2014.0	1881.4	1675.2	1371.7	943.4	549.6	105.8	3.8	0.4	0.0
36°	1973.3	1925.5	1798.7	1593.4	1247.8	821.7	460.2	91.9	2.9	0.4	0.0
37°	1860.4	1828.1	1687.4	1468.7	1113.9	704.9	395.1	79.4	2.1	0.4	0.0
38°	1743.2	1713.4	1576.1	1343.1	964.4	589.5	330.8	67.2	1.7	0.0	0.0
39°	1622.3	1572.8	1437.2	1182.3	807.8	493.8	278.4	56.3	0.8	0.0	0.0
40°	1432.5	1394.8	1249.9	989.2	668.4	400.1	237.2	42.8	0.8	0.0	0.0
42.5°	949.7	914.4	762.5	536.6	355.2	233.9	156.6	16.8	0.0	0.4	0.0
45°	489.6	467.3	379.5	280.9	201.5	143.6	100.8	10.5	0.0	0.4	0.4
47.5°	194.4	190.6	172.1	148.6	114.6	85.2	55.0	4.6	0.0	0.4	0.4
50°	52.5	52.9	49.5	45.8	41.6	39.0	23.1	1.3	0.0	0.8	0.4
52.5°	22.3	22.7	21.8	20.6	18.5	13.9	9.2	0.4	0.4	0.8	0.8
55°	4.6	5.0	5.5	5.9	6.7	5.9	3.8	0.0	0.4	0.8	0.8
57.5°	0.8	0.8	0.8	0.8	1.3	1.3	0.8	0.0	0.4	0.8	1.3
60°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8	1.3	1.3
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3	1.7
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.7	1.7
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	1.7
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	1.7
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.3	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	1.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3	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°	19.3	19.3	19.3
2.5°	13.4	12.2	11.8
5°	9.2	8.0	7.1
7.5°	6.3	5.0	4.6
10°	4.2	3.4	2.9
12.5°	2.9	1.7	1.7
15°	1.7	1.3	1.3
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	1.3
47.5°	0.8	1.3	1.7
50°	0.8	1.7	1.7
52.5°	1.3	1.7	2.1
55°	1.3	2.1	2.1
57.5°	1.7	2.1	2.5
60°	1.7	2.1	2.1
62.5°	1.7	2.5	2.5
65°	2.1	2.5	2.5
67.5°	2.1	2.5	2.5
70°	1.7	2.1	2.5
72.5°	1.7	2.1	2.1
75°	1.3	1.7	1.7
77.5°	1.3	1.3	1.7
80°	0.8	1.3	1.3



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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)