

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: P1344528

Luminaire Tested: P3A13R259740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344528
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: P3A13R259740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

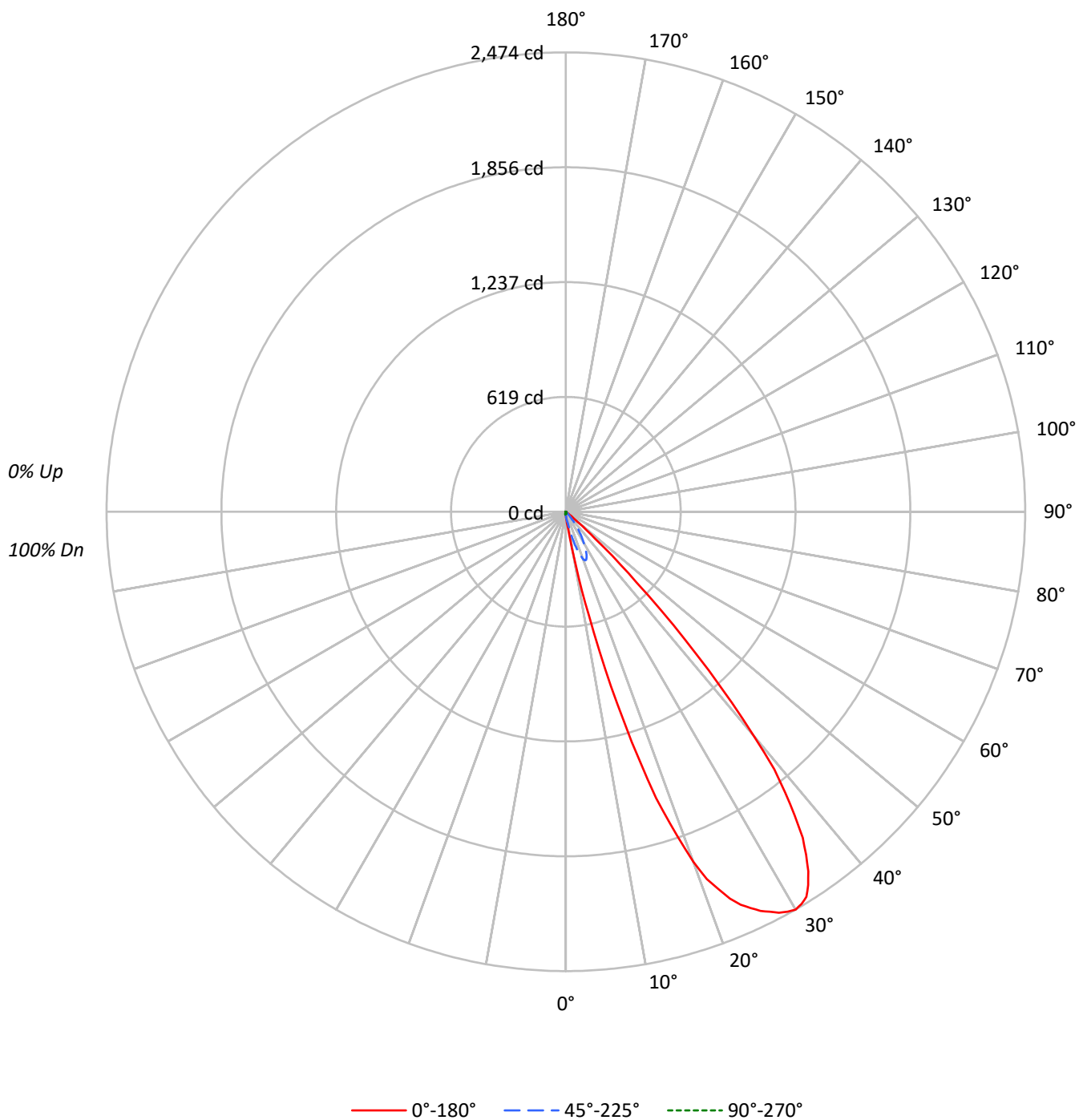
Lumens per Lamp: N/A
Luminaire Lumens: 495.0 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	4649	4649	4649	4649	4649
5°	11688	8651	4380	2245	1739
10°	51101	14696	3607	1024	713
15°	243021	39637	2520	409	318
20°	467851	63472	1610	117	117
25°	569767	64020	895	0	0
30°	626451	48995	354	0	0
35°	603700	31159	134	0	0
40°	451074	13482	0	0	143
45°	166994	3566	155	155	434
50°	19684	478	307	307	614
55°	1950	0	344	535	879
60°	219	0	614	789	1009
65°	259	259	934	1193	1453
70°	321	321	1154	1154	1795
75°	424	424	1186	1186	1525
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 166994 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.6
10°-20°	57.7	11.7
20°-30°	181.1	36.6
30°-40°	190.7	38.5
40°-50°	56.0	11.3
50°-60°	3.0	0.6
60°-70°	1.5	0.3
70°-80°	1.3	0.3
80°-90°	0.7	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°	241.9	48.9
0°-40°	432.6	87.4
0°-60°	491.6	99.3
0°-90°	495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	53	39	20	10	8	9
15°	1070	175	11	2	1	337
25°	2355	265	4	0	0	1080
35°	2255	116	0	0	0	1361
45°	538	12	0	0	1	489
55°	5	0	1	1	2	13
65°	0	0	2	2	3	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°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	32.8	33.3	31.9	32.8	31.9	31.4	30.9	28.6	24.9	21.2	17.5
5°	53.1	53.1	50.8	50.3	49.4	47.6	45.7	39.3	28.2	19.9	13.9
7.5°	83.1	82.7	81.7	79.4	74.8	70.2	65.6	51.3	30.9	18.5	10.6
10°	229.5	226.3	222.1	197.2	169.0	144.1	122.4	66.0	33.3	16.2	7.9
12.5°	570.4	551.9	508.0	458.1	394.4	327.4	261.9	107.6	34.2	13.4	5.5
15°	1070.5	1032.2	963.9	864.1	733.9	587.5	462.8	174.6	33.3	11.1	4.2
17.5°	1616.4	1579.5	1484.8	1333.3	1141.7	916.8	696.0	231.4	30.9	9.2	2.8
20°	2004.9	1965.6	1876.9	1716.2	1508.8	1209.1	916.3	272.0	29.1	6.9	1.4
21°	2118.5	2079.2	1985.5	1830.3	1612.3	1311.6	987.0	279.0	27.7	6.0	0.9
22°	2190.5	2167.4	2066.7	1916.2	1694.0	1393.8	1047.5	282.2	26.8	5.5	0.9
23°	2263.0	2228.4	2134.2	1975.3	1756.4	1454.8	1092.3	279.9	25.9	4.6	0.5
24°	2316.6	2287.5	2178.0	2021.0	1799.8	1492.2	1118.6	273.9	24.5	4.2	0.5
25°	2354.9	2328.1	2214.1	2052.0	1828.9	1512.5	1126.9	264.6	23.1	3.7	0.5
26°	2391.4	2362.3	2244.1	2070.0	1844.1	1519.0	1119.0	254.5	21.7	3.2	0.0
27°	2417.7	2388.2	2264.9	2080.6	1845.1	1511.1	1097.8	240.6	20.3	2.8	0.0
28°	2445.9	2411.7	2279.2	2086.6	1839.5	1492.7	1067.3	225.8	19.4	2.3	0.0
29°	2463.0	2430.7	2294.0	2093.1	1828.0	1461.7	1023.0	208.3	17.1	1.4	0.0
30°	2474.1	2435.8	2292.6	2086.1	1812.7	1428.5	969.9	193.5	14.8	1.4	0.0
31°	2464.8	2424.7	2277.8	2066.7	1788.2	1385.1	915.4	175.0	12.0	0.9	0.0
32°	2445.0	2397.4	2251.9	2033.0	1744.4	1329.2	859.0	159.8	8.8	0.9	0.0
33°	2396.5	2356.3	2205.3	1987.8	1687.1	1253.4	785.6	145.0	6.0	0.5	0.0
34°	2335.5	2295.4	2141.6	1927.3	1610.4	1155.5	696.5	129.8	5.1	0.5	0.0
35°	2255.2	2215.5	2069.5	1842.7	1508.8	1037.8	604.6	116.4	4.2	0.5	0.0
36°	2170.7	2118.0	1978.5	1752.7	1372.6	903.8	506.2	101.1	3.2	0.5	0.0
37°	2046.4	2010.9	1856.1	1615.5	1225.3	775.4	434.6	87.3	2.3	0.5	0.0
38°	1917.6	1884.8	1733.8	1477.4	1060.8	648.4	363.9	73.9	1.8	0.0	0.0
39°	1784.6	1730.1	1580.9	1300.5	888.6	543.1	306.2	61.9	0.9	0.0	0.0
40°	1575.8	1534.2	1374.9	1088.1	735.3	440.1	260.9	47.1	0.9	0.0	0.0
42.5°	1044.7	1005.9	838.7	590.2	390.7	257.2	172.3	18.5	0.0	0.5	0.0
45°	538.5	514.0	417.5	309.0	221.7	157.9	110.8	11.5	0.0	0.5	0.5
47.5°	213.8	209.7	189.4	163.5	126.1	93.8	60.5	5.1	0.0	0.5	0.5
50°	57.7	58.2	54.5	50.3	45.7	43.0	25.4	1.4	0.0	0.9	0.5
52.5°	24.5	24.9	24.0	22.6	20.3	15.2	10.2	0.5	0.5	0.9	0.9
55°	5.1	5.5	6.0	6.5	7.4	6.5	4.2	0.0	0.5	0.9	0.9
57.5°	0.9	0.9	0.9	0.9	1.4	1.4	0.9	0.0	0.5	0.9	1.4
60°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.9	1.4	1.4
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.8
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.8	1.8
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.8	1.8
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.8	1.8
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.8	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	0.9



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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	0.5	0.5	0.9	1.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	0.9
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°	21.2	21.2	21.2
2.5°	14.8	13.4	12.9
5°	10.2	8.8	7.9
7.5°	6.9	5.5	5.1
10°	4.6	3.7	3.2
12.5°	3.2	1.8	1.8
15°	1.8	1.4	1.4
17.5°	0.9	0.5	0.5
20°	0.5	0.5	0.5
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	0.5
39°	0.0	0.5	0.5
40°	0.0	0.5	0.5
42.5°	0.0	0.5	0.9
45°	0.5	0.9	1.4
47.5°	0.9	1.4	1.8
50°	0.9	1.8	1.8
52.5°	1.4	1.8	2.3
55°	1.4	2.3	2.3
57.5°	1.8	2.3	2.8
60°	1.8	2.3	2.3
62.5°	1.8	2.8	2.8
65°	2.3	2.8	2.8
67.5°	2.3	2.8	2.8
70°	1.8	2.3	2.8
72.5°	1.8	2.3	2.3
75°	1.4	1.8	1.8
77.5°	1.4	1.4	1.8
80°	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.9	0.9	0.9
85°	0.5	0.5	0.5
87.5°	0.5	0.5	0.5
90°	0.0	0.0	0.0

(END OF REPORT)