

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: P1344592

Luminaire Tested: P3A13R259840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344592
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: P3A13R259840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

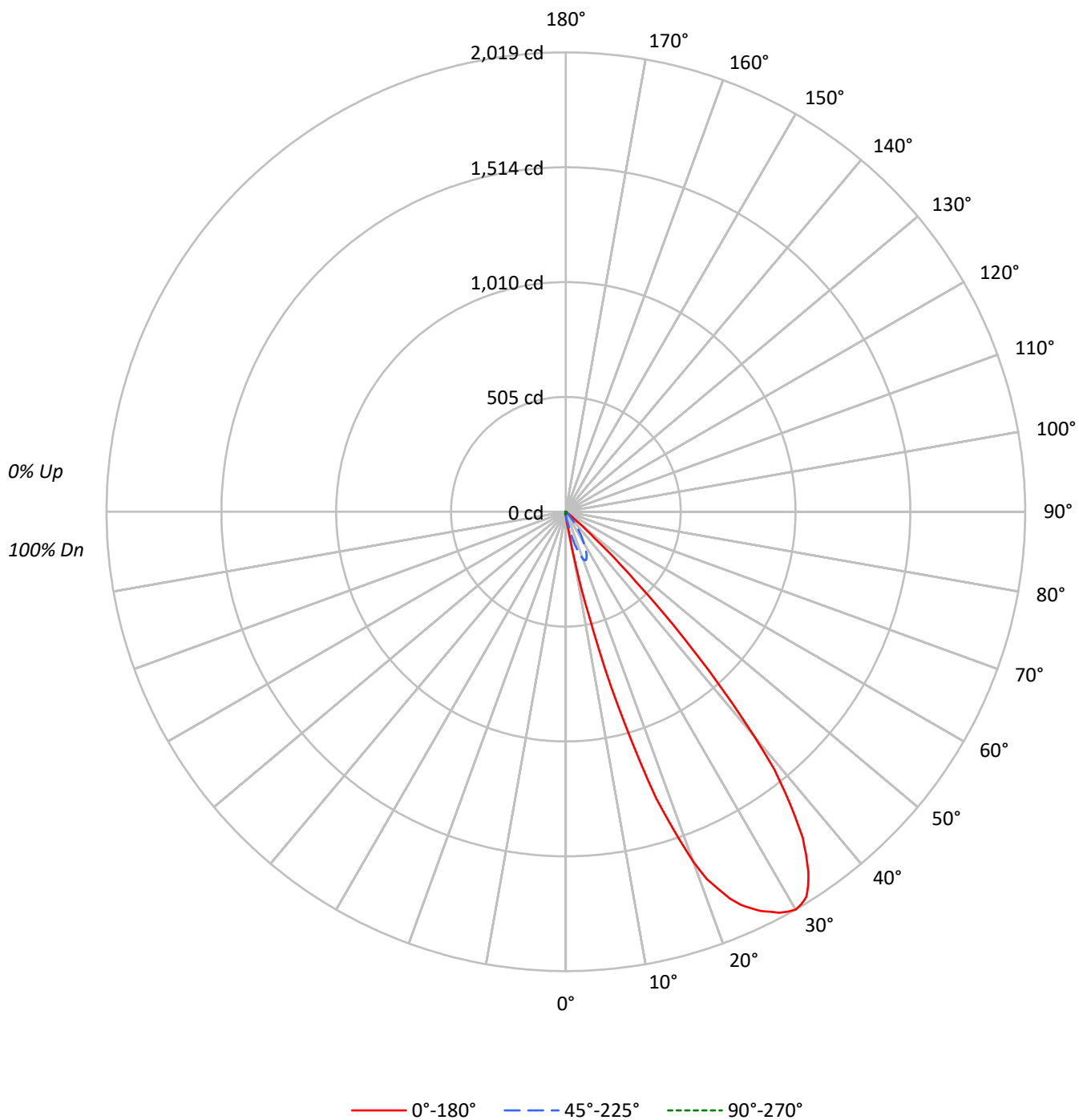
Lumens per Lamp: N/A
Luminaire Lumens: 404.0 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50		
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	50	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3794	3794	3794	3794	3794
5°	9531	7044	3566	1827	1409
10°	41705	12002	2939	846	579
15°	198344	32350	2043	341	250
20°	381837	51805	1330	93	93
25°	465027	52261	726	0	0
30°	511294	39981	279	0	0
35°	492714	25431	107	0	0
40°	368147	10992	0	0	115
45°	136293	2915	124	124	341
50°	16068	375	273	273	512
55°	1567	0	306	421	726
60°	175	0	482	658	833
65°	208	208	778	986	1193
70°	256	256	962	962	1475
75°	339	339	932	932	1271
80°	0	505	1389	1010	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 136293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.6
10°-20°	47.1	11.7
20°-30°	147.8	36.6
30°-40°	155.6	38.5
40°-50°	45.7	11.3
50°-60°	2.5	0.6
60°-70°	1.2	0.3
70°-80°	1.0	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°	197.5	48.9
0°-40°	353.1	87.4
0°-60°	401.3	99.3
0°-90°	404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	43	32	16	8	6	8
15°	874	142	9	2	1	275
25°	1922	216	3	0	0	882
35°	1841	95	0	0	0	1111
45°	440	9	0	0	1	399
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°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	26.8	27.1	26.0	26.8	26.0	25.6	25.3	23.4	20.4	17.3	14.3
5°	43.3	43.3	41.5	41.1	40.3	38.8	37.3	32.0	23.0	16.2	11.3
7.5°	67.8	67.5	66.7	64.8	61.1	57.3	53.5	41.8	25.3	15.1	8.7
10°	187.3	184.7	181.3	161.0	138.0	117.6	99.9	53.9	27.1	13.2	6.4
12.5°	465.5	450.4	414.6	373.9	321.9	267.2	213.7	87.8	27.9	10.9	4.5
15°	873.7	842.5	786.7	705.2	599.0	479.5	377.7	142.5	27.1	9.0	3.4
17.5°	1319.3	1289.1	1211.9	1088.2	931.8	748.2	568.0	188.8	25.3	7.5	2.3
20°	1636.3	1604.2	1531.9	1400.7	1231.5	986.8	747.8	222.0	23.7	5.7	1.1
21°	1729.0	1697.0	1620.5	1493.8	1315.9	1070.5	805.5	227.7	22.6	4.9	0.8
22°	1787.8	1769.0	1686.8	1563.9	1382.6	1137.6	854.9	230.3	21.9	4.5	0.8
23°	1847.0	1818.7	1741.8	1612.2	1433.5	1187.4	891.5	228.4	21.1	3.8	0.4
24°	1890.7	1867.0	1777.6	1649.5	1468.9	1217.9	912.9	223.5	20.0	3.4	0.4
25°	1922.0	1900.1	1807.0	1674.7	1492.7	1234.5	919.7	216.0	18.8	3.0	0.4
26°	1951.8	1928.0	1831.5	1689.4	1505.1	1239.7	913.3	207.7	17.7	2.6	0.0
27°	1973.3	1949.1	1848.5	1698.1	1505.9	1233.3	896.0	196.4	16.6	2.3	0.0
28°	1996.3	1968.4	1860.2	1703.0	1501.3	1218.3	871.1	184.3	15.8	1.9	0.0
29°	2010.2	1983.8	1872.2	1708.3	1491.9	1193.0	834.9	170.0	13.9	1.1	0.0
30°	2019.3	1988.0	1871.1	1702.6	1479.5	1165.9	791.6	157.9	12.1	1.1	0.0
31°	2011.7	1978.9	1859.1	1686.8	1459.5	1130.4	747.1	142.9	9.8	0.8	0.0
32°	1995.5	1956.7	1837.9	1659.3	1423.7	1084.8	701.1	130.4	7.2	0.8	0.0
33°	1955.9	1923.1	1799.9	1622.3	1377.0	1023.0	641.2	118.4	4.9	0.4	0.0
34°	1906.2	1873.4	1747.9	1573.0	1314.4	943.1	568.4	105.9	4.1	0.4	0.0
35°	1840.6	1808.2	1689.1	1504.0	1231.5	847.0	493.4	95.0	3.4	0.4	0.0
36°	1771.6	1728.6	1614.8	1430.5	1120.3	737.7	413.1	82.5	2.6	0.4	0.0
37°	1670.2	1641.2	1514.9	1318.5	1000.0	632.9	354.7	71.2	1.9	0.4	0.0
38°	1565.0	1538.3	1415.0	1205.8	865.8	529.2	297.0	60.3	1.5	0.0	0.0
39°	1456.5	1412.0	1290.3	1061.5	725.2	443.3	249.9	50.5	0.8	0.0	0.0
40°	1286.1	1252.2	1122.1	888.1	600.1	359.2	213.0	38.4	0.8	0.0	0.0
42.5°	852.6	821.0	684.5	481.7	318.9	210.0	140.6	15.1	0.0	0.4	0.0
45°	439.5	419.5	340.8	252.2	180.9	128.9	90.5	9.4	0.0	0.4	0.4
47.5°	174.5	171.1	154.5	133.4	102.9	76.5	49.4	4.1	0.0	0.4	0.4
50°	47.1	47.5	44.5	41.1	37.3	35.1	20.7	1.1	0.0	0.8	0.4
52.5°	20.0	20.4	19.6	18.5	16.6	12.4	8.3	0.4	0.4	0.8	0.8
55°	4.1	4.5	4.9	5.3	6.0	5.3	3.4	0.0	0.4	0.8	0.8
57.5°	0.8	0.8	0.8	0.8	1.1	1.1	0.8	0.0	0.4	0.8	1.1
60°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8	1.1	1.1
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.1	1.5
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.5	1.5
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	1.5
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	1.5
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.1	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	1.1	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.1	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.1	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°	17.3	17.3	17.3
2.5°	12.1	10.9	10.6
5°	8.3	7.2	6.4
7.5°	5.7	4.5	4.1
10°	3.8	3.0	2.6
12.5°	2.6	1.5	1.5
15°	1.5	1.1	1.1
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	1.1
47.5°	0.8	1.1	1.5
50°	0.8	1.5	1.5
52.5°	1.1	1.5	1.9
55°	1.1	1.9	1.9
57.5°	1.5	1.9	2.3
60°	1.5	1.9	1.9
62.5°	1.5	2.3	2.3
65°	1.9	2.3	2.3
67.5°	1.9	2.3	2.3
70°	1.5	1.9	2.3
72.5°	1.5	1.9	1.9
75°	1.1	1.5	1.5
77.5°	1.1	1.1	1.5
80°	0.8	1.1	1.1

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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)