

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: P1344544

Luminaire Tested: P3A13R259827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344544
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: P3A13R259827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

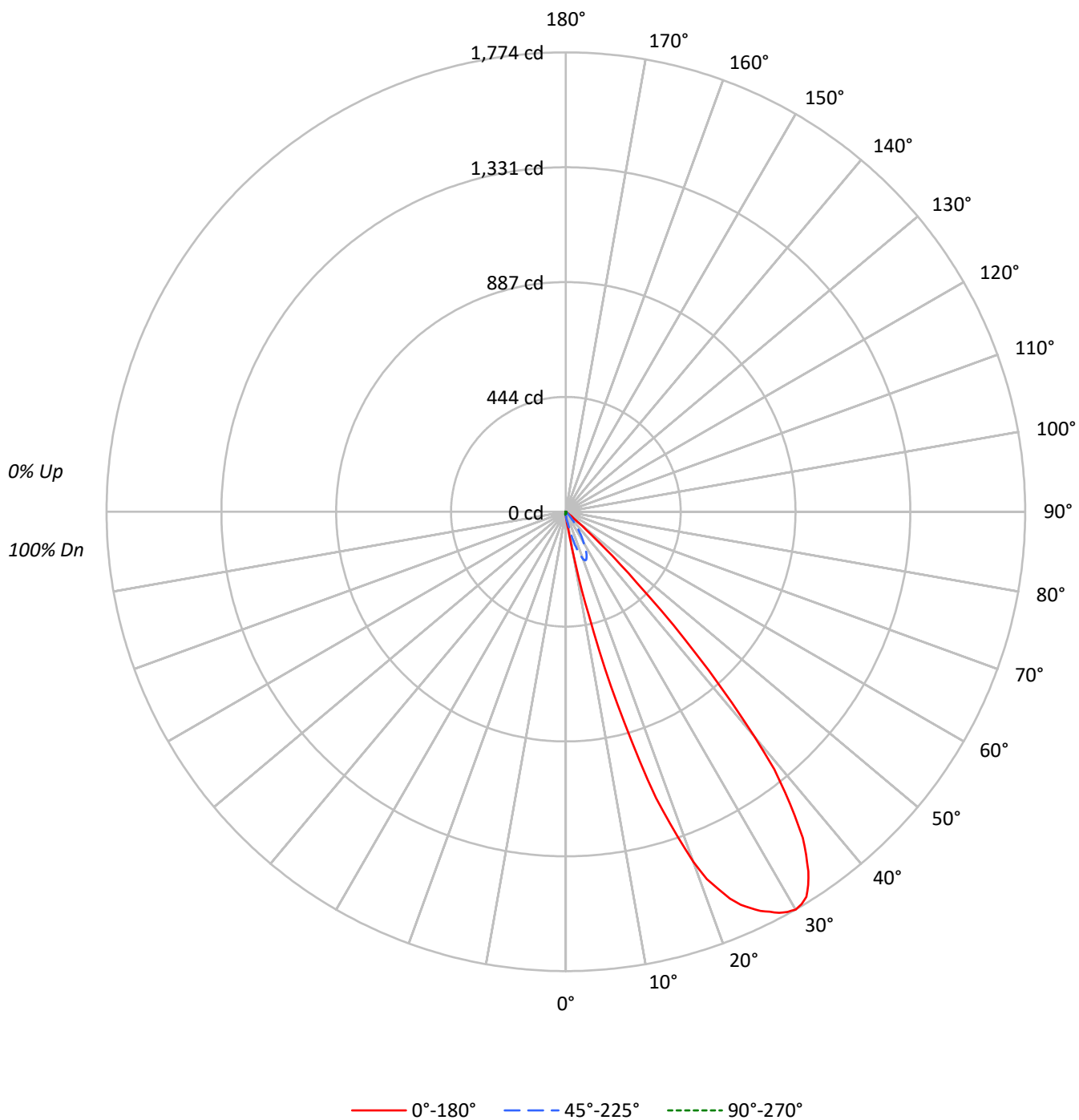
Lumens per Lamp: N/A
Luminaire Lumens: 355.0 lumens
Efficiency: N/A
Efficacy: 24.5 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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°	3333	3333	3333	3333	3333
5°	8387	6207	3126	1607	1233
10°	36650	10554	2583	735	512
15°	174303	28422	1793	295	227
20°	335516	45527	1167	70	70
25°	408628	45922	629	0	0
30°	449259	35145	253	0	0
35°	432939	22352	80	0	0
40°	323492	9675	0	0	86
45°	119764	2574	93	93	310
50°	14123	341	239	239	443
55°	1376	0	268	382	650
60°	132	0	439	570	746
65°	156	156	675	882	1038
70°	192	192	833	833	1282
75°	254	254	847	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 119764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.6
10°-20°	41.4	11.7
20°-30°	129.9	36.6
30°-40°	136.8	38.5
40°-50°	40.2	11.3
50°-60°	2.2	0.6
60°-70°	1.0	0.3
70°-80°	0.9	0.3
80°-90°	0.5	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°	173.5	48.9
0°-40°	310.3	87.4
0°-60°	352.6	99.3
0°-90°	355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	355.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	38	28	14	7	6	7
15°	768	125	8	1	1	242
25°	1689	190	3	0	0	775
35°	1617	84	0	0	0	976
45°	386	8	0	0	1	351
55°	4	0	1	1	2	9
65°	0	0	1	2	2	0
75°	0	0	1	1	1	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°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	23.5	23.8	22.9	23.5	22.9	22.5	22.2	20.5	17.9	15.2	12.6
5°	38.1	38.1	36.4	36.1	35.4	34.1	32.8	28.2	20.2	14.2	9.9
7.5°	59.6	59.3	58.6	57.0	53.7	50.3	47.0	36.8	22.2	13.2	7.6
10°	164.6	162.3	159.3	141.4	121.2	103.3	87.8	47.4	23.8	11.6	5.6
12.5°	409.1	395.8	364.3	328.6	282.9	234.8	187.8	77.2	24.5	9.6	4.0
15°	767.8	740.3	691.3	619.7	526.3	421.3	331.9	125.2	23.8	7.9	3.0
17.5°	1159.3	1132.8	1064.9	956.2	818.8	657.5	499.1	165.9	22.2	6.6	2.0
20°	1437.8	1409.7	1346.1	1230.8	1082.1	867.1	657.1	195.1	20.9	5.0	1.0
21°	1519.3	1491.2	1423.9	1312.6	1156.3	940.7	707.8	200.1	19.9	4.3	0.7
22°	1571.0	1554.4	1482.2	1374.2	1214.9	999.6	751.2	202.4	19.2	4.0	0.7
23°	1623.0	1598.1	1530.6	1416.6	1259.6	1043.3	783.3	200.7	18.5	3.3	0.3
24°	1661.4	1640.5	1562.0	1449.4	1290.8	1070.2	802.2	196.4	17.6	3.0	0.3
25°	1688.9	1669.7	1587.9	1471.6	1311.6	1084.7	808.2	189.8	16.6	2.6	0.3
26°	1715.1	1694.2	1609.4	1484.5	1322.6	1089.4	802.5	182.5	15.6	2.3	0.0
27°	1733.9	1712.7	1624.3	1492.1	1323.2	1083.8	787.3	172.6	14.6	2.0	0.0
28°	1754.1	1729.6	1634.6	1496.4	1319.2	1070.5	765.4	162.0	13.9	1.7	0.0
29°	1766.4	1743.2	1645.2	1501.1	1311.0	1048.3	733.7	149.4	12.3	1.0	0.0
30°	1774.3	1746.9	1644.2	1496.1	1300.0	1024.5	695.6	138.8	10.6	1.0	0.0
31°	1767.7	1738.9	1633.6	1482.2	1282.5	993.3	656.5	125.5	8.6	0.7	0.0
32°	1753.5	1719.4	1615.0	1458.0	1251.0	953.2	616.1	114.6	6.3	0.7	0.0
33°	1718.7	1689.9	1581.6	1425.6	1209.9	898.9	563.4	104.0	4.3	0.3	0.0
34°	1675.0	1646.2	1535.9	1382.2	1155.0	828.7	499.5	93.1	3.6	0.3	0.0
35°	1617.3	1588.9	1484.2	1321.6	1082.1	744.3	433.6	83.5	3.0	0.3	0.0
36°	1556.7	1519.0	1418.9	1257.0	984.4	648.2	363.0	72.5	2.3	0.3	0.0
37°	1467.6	1442.1	1331.2	1158.6	878.7	556.1	311.7	62.6	1.7	0.3	0.0
38°	1375.2	1351.7	1243.4	1059.6	760.8	465.0	261.0	53.0	1.3	0.0	0.0
39°	1279.8	1240.7	1133.8	932.7	637.3	389.5	219.6	44.4	0.7	0.0	0.0
40°	1130.1	1100.3	986.0	780.4	527.3	315.7	187.1	33.8	0.7	0.0	0.0
42.5°	749.2	721.4	601.5	423.3	280.2	184.5	123.5	13.2	0.0	0.3	0.0
45°	386.2	368.6	299.4	221.6	159.0	113.3	79.5	8.3	0.0	0.3	0.3
47.5°	153.4	150.4	135.8	117.3	90.4	67.2	43.4	3.6	0.0	0.3	0.3
50°	41.4	41.7	39.1	36.1	32.8	30.8	18.2	1.0	0.0	0.7	0.3
52.5°	17.6	17.9	17.2	16.2	14.6	10.9	7.3	0.3	0.3	0.7	0.7
55°	3.6	4.0	4.3	4.6	5.3	4.6	3.0	0.0	0.3	0.7	0.7
57.5°	0.7	0.7	0.7	0.7	1.0	1.0	0.7	0.0	0.3	0.7	1.0
60°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.7	1.0	1.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.3	1.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	1.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	1.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	1.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7	1.0	0.7



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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	0.3	0.3	0.7	1.0	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.0	0.7
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°	15.2	15.2	15.2
2.5°	10.6	9.6	9.3
5°	7.3	6.3	5.6
7.5°	5.0	4.0	3.6
10°	3.3	2.6	2.3
12.5°	2.3	1.3	1.3
15°	1.3	1.0	1.0
17.5°	0.7	0.3	0.3
20°	0.3	0.3	0.3
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	0.3
39°	0.0	0.3	0.3
40°	0.0	0.3	0.3
42.5°	0.0	0.3	0.7
45°	0.3	0.7	1.0
47.5°	0.7	1.0	1.3
50°	0.7	1.3	1.3
52.5°	1.0	1.3	1.7
55°	1.0	1.7	1.7
57.5°	1.3	1.7	2.0
60°	1.3	1.7	1.7
62.5°	1.3	2.0	2.0
65°	1.7	2.0	2.0
67.5°	1.7	2.0	2.0
70°	1.3	1.7	2.0
72.5°	1.3	1.7	1.7
75°	1.0	1.3	1.3
77.5°	1.0	1.0	1.3
80°	0.7	1.0	1.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	0.7	0.7	0.7
85°	0.3	0.3	0.3
87.5°	0.3	0.3	0.3
90°	0.0	0.0	0.0

(END OF REPORT)