

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: P1345068

Luminaire Tested: P3A13R309830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

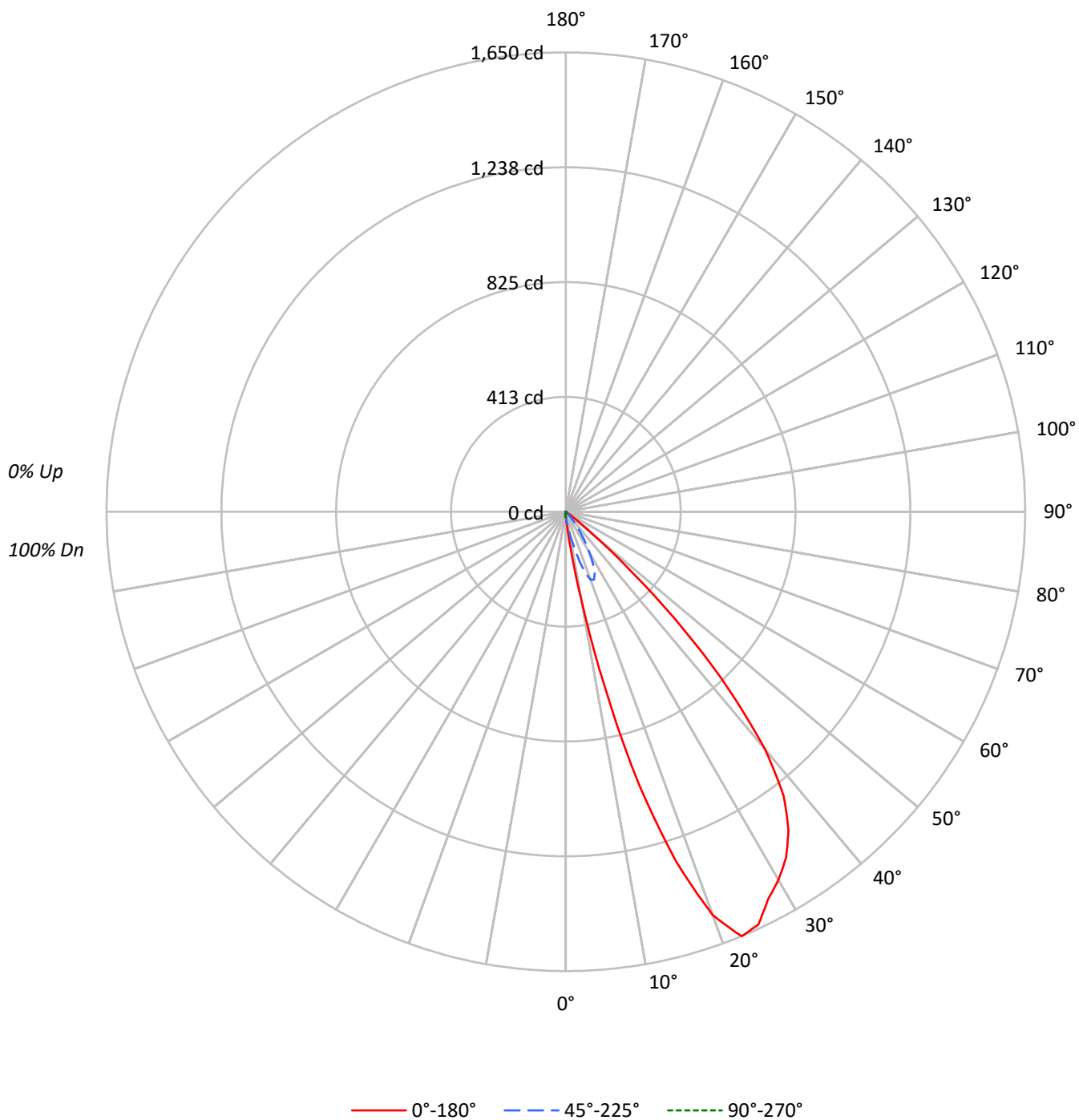
Lumens per Lamp: N/A
Luminaire Lumens: 389.1 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4057	4057	4057	4057	4057
5°	12217	8144	3830	1717	1409
10°	70673	17256	3006	802	557
15°	229899	39138	2089	159	91
20°	359738	60555	1330	0	0
25°	395781	59181	677	0	0
30°	386566	42665	279	0	0
35°	373083	24253	107	0	0
40°	318168	10276	0	0	0
45°	186717	3845	124	0	124
50°	45338	716	136	136	375
55°	3938	0	268	421	535
60°	175	0	307	482	789
65°	208	208	571	571	934
70°	256	256	705	705	898
75°	0	339	932	932	932
80°	0	505	1389	884	884
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 186717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.9
10°-20°	53.5	13.7
20°-30°	135.9	34.9
30°-40°	135.4	34.8
40°-50°	54.9	14.1
50°-60°	3.8	1.0
60°-70°	0.9	0.2
70°-80°	0.9	0.2
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°	192.7	49.5
0°-40°	328.1	84.3
0°-60°	386.8	99.4
0°-90°	389.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	56	37	17	8	6	13
15°	1013	172	9	1	0	295
25°	1636	245	3	0	0	739
35°	1394	91	0	0	0	854
45°	602	12	0	0	0	459
55°	10	0	1	1	1	27
65°	0	0	1	1	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°	35°	40°	45°	67.5°
0°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	30.6	30.9	30.9	30.2	29.9	29.9	28.8	28.4	27.4	26.3	22.7
5°	55.5	54.4	53.0	53.0	49.8	48.0	45.5	42.7	40.5	37.0	26.3
7.5°	125.8	117.3	114.8	111.6	99.5	89.9	78.9	69.3	60.4	53.0	29.1
10°	317.4	300.7	286.9	258.8	223.6	189.8	158.5	122.3	97.4	77.5	31.3
12.5°	639.5	617.1	590.4	539.2	473.5	389.2	314.6	235.0	164.9	114.1	32.0
15°	1012.7	974.7	933.1	868.0	760.3	639.5	504.7	377.9	264.8	172.4	31.3
17.5°	1317.0	1302.0	1240.5	1151.7	1019.8	864.1	698.1	524.7	357.2	225.7	29.1
20°	1541.6	1531.3	1457.0	1362.5	1213.9	1035.4	824.7	616.4	421.6	259.5	25.9
22.5°	1650.0	1648.3	1594.6	1497.9	1340.4	1138.2	906.1	669.3	441.5	264.1	21.7
25°	1635.8	1642.2	1611.6	1539.8	1388.8	1180.5	930.2	669.3	426.9	244.6	18.1
27.5°	1571.1	1575.4	1556.2	1501.1	1360.3	1149.9	896.5	626.3	384.6	210.1	14.9
30°	1526.7	1528.5	1504.6	1445.6	1296.4	1080.2	816.8	546.7	320.6	168.5	11.0
32.5°	1472.7	1472.3	1444.6	1377.0	1212.5	982.5	715.9	451.8	246.3	128.0	6.4
35°	1393.7	1384.9	1347.2	1269.3	1087.3	851.0	586.9	344.1	177.4	90.6	3.9
37.5°	1285.3	1262.2	1208.9	1104.8	911.7	667.2	435.1	241.7	121.2	60.1	2.5
40°	1111.5	1087.0	1014.5	887.9	689.6	480.2	293.3	157.5	76.4	35.9	1.4
42.5°	871.6	854.9	757.1	630.9	455.3	306.4	176.3	93.1	43.0	20.6	0.4
45°	602.1	580.5	503.7	396.7	273.3	169.9	98.8	48.7	24.5	12.4	0.0
47.5°	332.4	305.7	261.3	205.5	137.6	89.2	49.8	26.3	13.9	6.0	0.0
50°	132.9	131.9	104.9	74.6	52.6	40.5	24.9	14.2	7.1	2.1	0.4
52.5°	46.6	46.6	40.2	32.7	25.6	18.5	12.4	6.8	2.5	0.7	0.4
55°	10.3	11.4	10.7	10.0	9.6	8.2	5.3	2.5	0.7	0.0	0.4
57.5°	1.1	1.1	1.1	1.4	1.8	1.8	1.4	0.7	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.7
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.7
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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):

	90°	112.5°	135°	157.5°	180°
0°	18.5	18.5	18.5	18.5	18.5
2.5°	18.5	14.6	12.1	10.7	10.3
5°	17.4	11.0	7.8	6.8	6.4
7.5°	15.6	8.2	5.3	4.3	3.9
10°	13.5	6.0	3.6	2.5	2.5
12.5°	11.4	4.6	2.1	1.1	0.7
15°	9.2	2.8	0.7	0.4	0.4
17.5°	7.1	1.8	0.0	0.0	0.0
20°	5.7	0.7	0.0	0.0	0.0
22.5°	4.3	0.4	0.0	0.0	0.0
25°	2.8	0.0	0.0	0.0	0.0
27.5°	1.8	0.0	0.0	0.0	0.0
30°	1.1	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.7	0.7
50°	0.4	0.4	0.4	0.7	1.1
52.5°	0.7	0.4	0.7	1.1	1.1
55°	0.7	0.7	1.1	1.4	1.4
57.5°	0.7	0.7	1.1	1.4	1.4
60°	0.7	0.7	1.1	1.4	1.8
62.5°	1.1	1.1	1.1	1.4	1.4
65°	1.1	1.1	1.1	1.4	1.8
67.5°	1.1	1.1	1.1	1.4	1.8
70°	1.1	1.1	1.1	1.4	1.4
72.5°	1.4	1.1	1.1	1.4	1.4
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.7	1.1	1.1
80°	1.1	0.7	0.7	0.7	0.7
82.5°	1.1	0.7	0.7	0.7	0.7
85°	1.1	0.7	0.4	0.4	0.4
87.5°	1.1	0.7	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)