

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: P1344988

Luminaire Tested: P3A13R309727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344988
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: P3A13R309727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

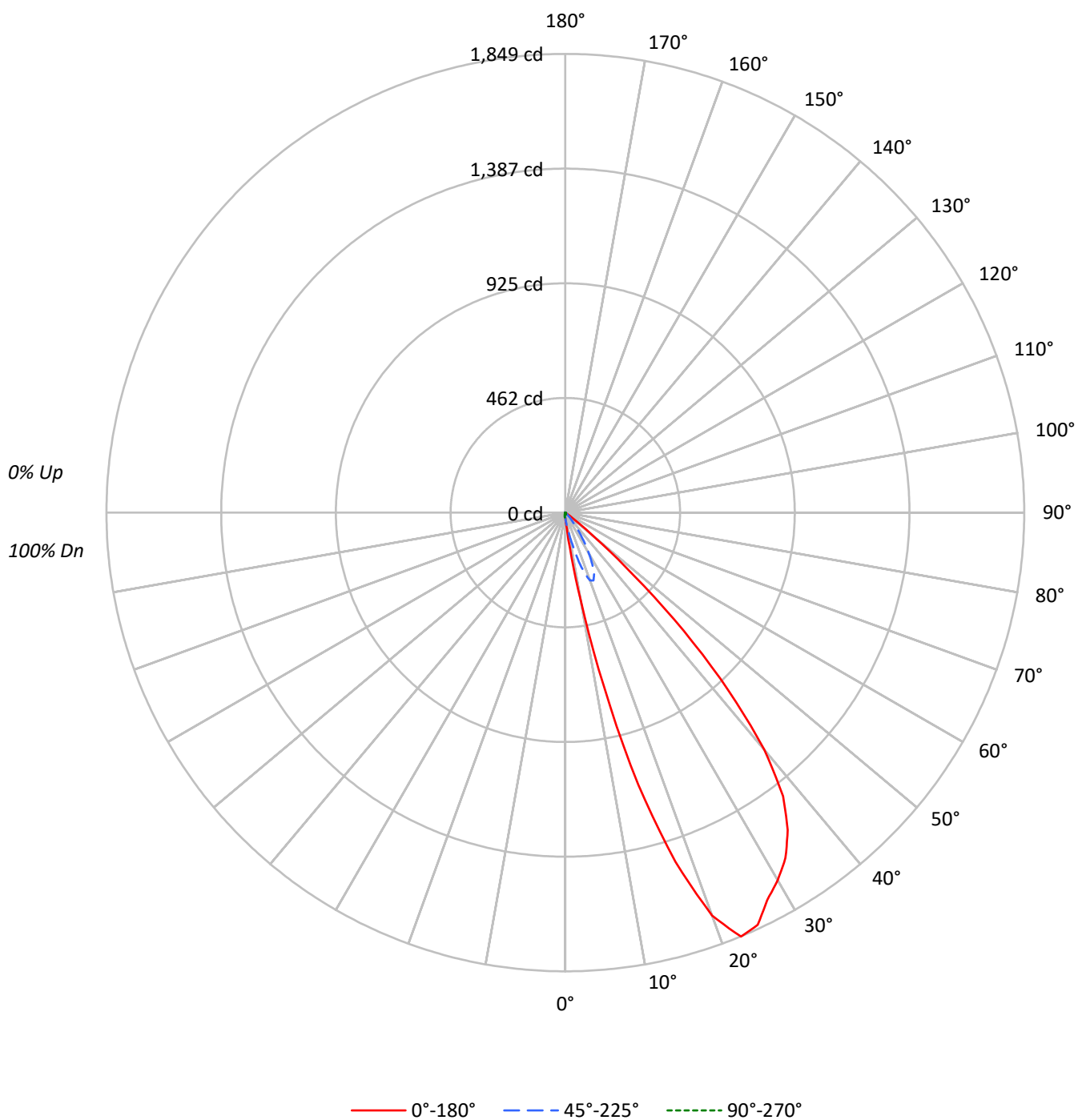
Lumens per Lamp: N/A
Luminaire Lumens: 436.0 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4539	4539	4539	4539	4539
5°	13691	9113	4292	1937	1585
10°	79224	19349	3362	891	623
15°	257686	43860	2361	182	91
20°	403212	67859	1493	0	0
25°	443614	66318	774	0	0
30°	433257	47805	304	0	0
35°	418162	27198	107	0	0
40°	356611	11507	0	0	0
45°	209293	4311	124	0	124
50°	50830	819	136	136	409
55°	4435	0	306	459	612
60°	175	0	351	526	877
65°	208	208	623	623	1038
70°	256	256	769	769	1026
75°	0	339	1017	1017	1017
80°	0	505	1515	1010	1010
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 209293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.9
10°-20°	59.9	13.7
20°-30°	152.3	34.9
30°-40°	151.8	34.8
40°-50°	61.5	14.1
50°-60°	4.3	1.0
60°-70°	1.0	0.2
70°-80°	1.0	0.2
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°	216.0	49.5
0°-40°	367.8	84.4
0°-60°	433.5	99.4
0°-90°	436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	62	41	20	9	7	14
15°	1135	193	10	1	0	330
25°	1834	274	3	0	0	828
35°	1562	102	0	0	0	958
45°	675	14	0	0	0	515
55°	12	0	1	1	2	30
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°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	34.3	34.7	34.7	33.9	33.5	33.5	32.3	31.9	30.7	29.5	25.5
5°	62.2	61.0	59.4	59.4	55.8	53.8	51.0	47.8	45.4	41.4	29.5
7.5°	141.0	131.5	128.7	125.1	111.6	100.8	88.4	77.7	67.7	59.4	32.7
10°	355.8	337.0	321.5	290.0	250.6	212.7	177.7	137.1	109.2	86.9	35.1
12.5°	716.7	691.6	661.7	604.4	530.7	436.3	352.6	263.3	184.9	127.9	35.9
15°	1135.1	1092.4	1045.8	972.9	852.2	716.7	565.7	423.5	296.8	193.2	35.1
17.5°	1476.1	1459.4	1390.4	1290.8	1143.0	968.5	782.5	588.0	400.4	253.0	32.7
20°	1727.9	1716.3	1633.1	1527.1	1360.6	1160.6	924.3	690.8	472.5	290.8	29.1
22.5°	1849.4	1847.4	1787.2	1678.9	1502.4	1275.7	1015.5	750.2	494.8	296.0	24.3
25°	1833.5	1840.6	1806.4	1725.9	1556.6	1323.1	1042.6	750.2	478.5	274.1	20.3
27.5°	1760.9	1765.7	1744.2	1682.5	1524.7	1288.8	1004.8	702.0	431.1	235.5	16.7
30°	1711.1	1713.1	1686.4	1620.3	1453.0	1210.8	915.5	612.7	359.4	188.8	12.4
32.5°	1650.6	1650.2	1619.1	1543.4	1359.0	1101.2	802.4	506.4	276.1	143.4	7.2
35°	1562.1	1552.2	1510.0	1422.7	1218.7	953.8	657.8	385.7	198.8	101.6	4.4
37.5°	1440.6	1414.7	1355.0	1238.2	1021.9	747.8	487.6	270.9	135.9	67.3	2.8
40°	1245.8	1218.3	1137.0	995.2	772.9	538.2	328.7	176.5	85.7	40.2	1.6
42.5°	976.9	958.2	848.6	707.2	510.4	343.4	197.6	104.4	48.2	23.1	0.4
45°	674.9	650.6	564.5	444.6	306.4	190.4	110.8	54.6	27.5	13.9	0.0
47.5°	372.5	342.6	292.8	230.3	154.2	100.0	55.8	29.5	15.5	6.8	0.0
50°	149.0	147.8	117.5	83.7	59.0	45.4	27.9	15.9	8.0	2.4	0.4
52.5°	52.2	52.2	45.0	36.7	28.7	20.7	13.9	7.6	2.8	0.8	0.4
55°	11.6	12.7	12.0	11.2	10.8	9.2	6.0	2.8	0.8	0.0	0.4
57.5°	1.2	1.2	1.2	1.6	2.0	2.0	1.6	0.8	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	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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):

	90°	112.5°	135°	157.5°	180°
0°	20.7	20.7	20.7	20.7	20.7
2.5°	20.7	16.3	13.5	12.0	11.6
5°	19.5	12.4	8.8	7.6	7.2
7.5°	17.5	9.2	6.0	4.8	4.4
10°	15.1	6.8	4.0	2.8	2.8
12.5°	12.7	5.2	2.4	1.2	0.8
15°	10.4	3.2	0.8	0.4	0.4
17.5°	8.0	2.0	0.0	0.0	0.0
20°	6.4	0.8	0.0	0.0	0.0
22.5°	4.8	0.4	0.0	0.0	0.0
25°	3.2	0.0	0.0	0.0	0.0
27.5°	2.0	0.0	0.0	0.0	0.0
30°	1.2	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	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.2
52.5°	0.8	0.4	0.8	1.2	1.2
55°	0.8	0.8	1.2	1.6	1.6
57.5°	0.8	0.8	1.2	1.6	1.6
60°	0.8	0.8	1.2	1.6	2.0
62.5°	1.2	1.2	1.2	1.6	1.6
65°	1.2	1.2	1.2	1.6	2.0
67.5°	1.2	1.2	1.2	1.6	2.0
70°	1.2	1.2	1.2	1.6	1.6
72.5°	1.6	1.2	1.2	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	0.8	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8
82.5°	1.2	0.8	0.8	0.8	0.8
85°	1.2	0.8	0.4	0.4	0.4
87.5°	1.2	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)