

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: P1345084

Luminaire Tested: P3A13R309835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345084
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: P3A13R309835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

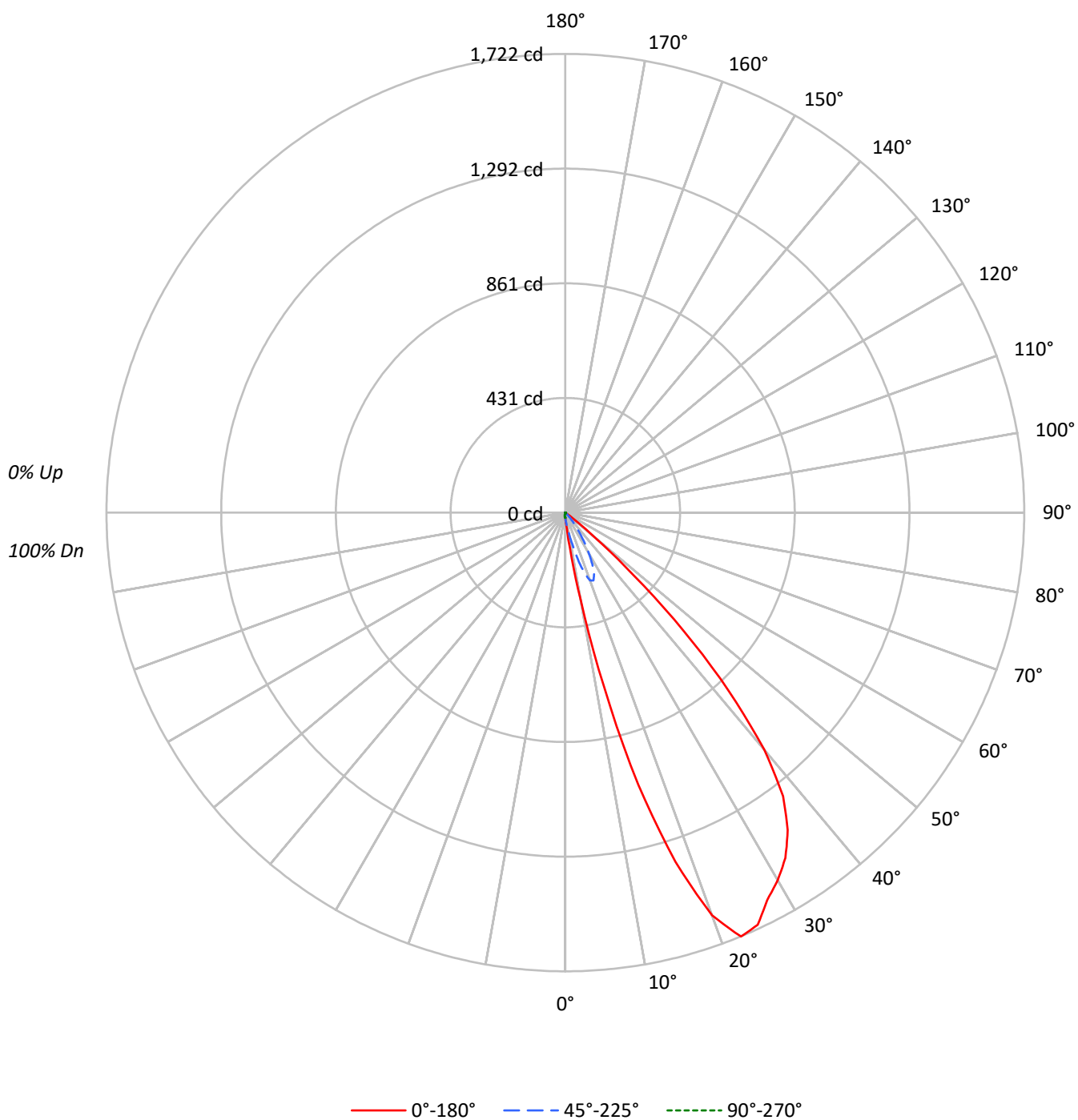
Lumens per Lamp: N/A
Luminaire Lumens: 406.0 lumens
Efficiency: N/A
Efficacy: 28.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	88	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°	4232	4232	4232	4232	4232
5°	12745	8497	4006	1805	1475
10°	73768	18013	3140	824	579
15°	239956	40840	2179	159	91
20°	375466	63192	1377	0	0
25°	413080	61746	726	0	0
30°	403454	44513	279	0	0
35°	389412	25324	107	0	0
40°	332079	10734	0	0	0
45°	194904	4031	124	0	124
50°	47350	751	136	136	375
55°	4129	0	268	421	573
60°	175	0	307	482	833
65°	208	208	571	571	986
70°	256	256	705	705	962
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: 194904 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.9
10°-20°	55.8	13.7
20°-30°	141.8	34.9
30°-40°	141.3	34.8
40°-50°	57.3	14.1
50°-60°	4.0	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°	201.1	49.5
0°-40°	342.5	84.4
0°-60°	403.7	99.4
0°-90°	406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	406.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	58	39	18	8	7	13
15°	1057	180	10	1	0	308
25°	1707	255	3	0	0	771
35°	1455	95	0	0	0	892
45°	628	13	0	0	0	479
55°	11	0	1	1	2	28
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°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	31.9	32.3	32.3	31.5	31.2	31.2	30.1	29.7	28.6	27.5	23.7
5°	57.9	56.8	55.3	55.3	51.9	50.1	47.5	44.5	42.3	38.6	27.5
7.5°	131.3	122.4	119.8	116.5	103.9	93.9	82.4	72.3	63.1	55.3	30.4
10°	331.3	313.9	299.4	270.1	233.4	198.1	165.5	127.6	101.7	80.9	32.6
12.5°	667.4	644.0	616.2	562.8	494.2	406.2	328.3	245.2	172.1	119.1	33.4
15°	1057.0	1017.3	973.9	906.0	793.5	667.4	526.8	394.4	276.4	179.9	32.6
17.5°	1374.5	1358.9	1294.8	1202.0	1064.4	901.9	728.6	547.6	372.8	235.6	30.4
20°	1609.0	1598.2	1520.7	1422.0	1266.9	1080.7	860.7	643.3	440.0	270.8	27.1
22.5°	1722.1	1720.3	1664.3	1563.4	1399.0	1187.9	945.7	698.6	460.8	275.6	22.6
25°	1707.3	1714.0	1682.1	1607.1	1449.5	1232.1	970.9	698.6	445.6	255.2	18.9
27.5°	1639.8	1644.2	1624.2	1566.7	1419.8	1200.2	935.6	653.7	401.4	219.3	15.6
30°	1593.4	1595.3	1570.4	1508.8	1353.0	1127.4	852.5	570.6	334.6	175.8	11.5
32.5°	1537.0	1536.6	1507.7	1437.2	1265.5	1025.4	747.2	471.5	257.1	133.6	6.7
35°	1454.7	1445.4	1406.1	1324.8	1134.9	888.2	612.5	359.1	185.1	94.6	4.1
37.5°	1341.5	1317.4	1261.7	1153.0	951.6	696.4	454.1	252.3	126.5	62.7	2.6
40°	1160.1	1134.5	1058.8	926.7	719.7	501.2	306.1	164.3	79.8	37.5	1.5
42.5°	909.7	892.2	790.2	658.5	475.2	319.8	184.0	97.2	44.9	21.5	0.4
45°	628.5	605.8	525.7	414.0	285.3	177.3	103.1	50.8	25.6	13.0	0.0
47.5°	346.9	319.1	272.7	214.4	143.6	93.1	51.9	27.5	14.5	6.3	0.0
50°	138.8	137.6	109.4	77.9	54.9	42.3	26.0	14.8	7.4	2.2	0.4
52.5°	48.6	48.6	41.9	34.1	26.7	19.3	13.0	7.0	2.6	0.7	0.4
55°	10.8	11.9	11.1	10.4	10.0	8.5	5.6	2.6	0.7	0.0	0.4
57.5°	1.1	1.1	1.1	1.5	1.9	1.9	1.5	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°	19.3	19.3	19.3	19.3	19.3
2.5°	19.3	15.2	12.6	11.1	10.8
5°	18.2	11.5	8.2	7.0	6.7
7.5°	16.3	8.5	5.6	4.5	4.1
10°	14.1	6.3	3.7	2.6	2.6
12.5°	11.9	4.8	2.2	1.1	0.7
15°	9.6	3.0	0.7	0.4	0.4
17.5°	7.4	1.9	0.0	0.0	0.0
20°	5.9	0.7	0.0	0.0	0.0
22.5°	4.5	0.4	0.0	0.0	0.0
25°	3.0	0.0	0.0	0.0	0.0
27.5°	1.9	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	1.5	1.5
57.5°	0.7	0.7	1.1	1.5	1.5
60°	0.7	0.7	1.1	1.5	1.9
62.5°	1.1	1.1	1.1	1.5	1.5
65°	1.1	1.1	1.1	1.5	1.9
67.5°	1.1	1.1	1.1	1.5	1.9
70°	1.1	1.1	1.1	1.5	1.5
72.5°	1.5	1.1	1.1	1.5	1.5
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)