

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: P1338952

Luminaire Tested: P3A05R409735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

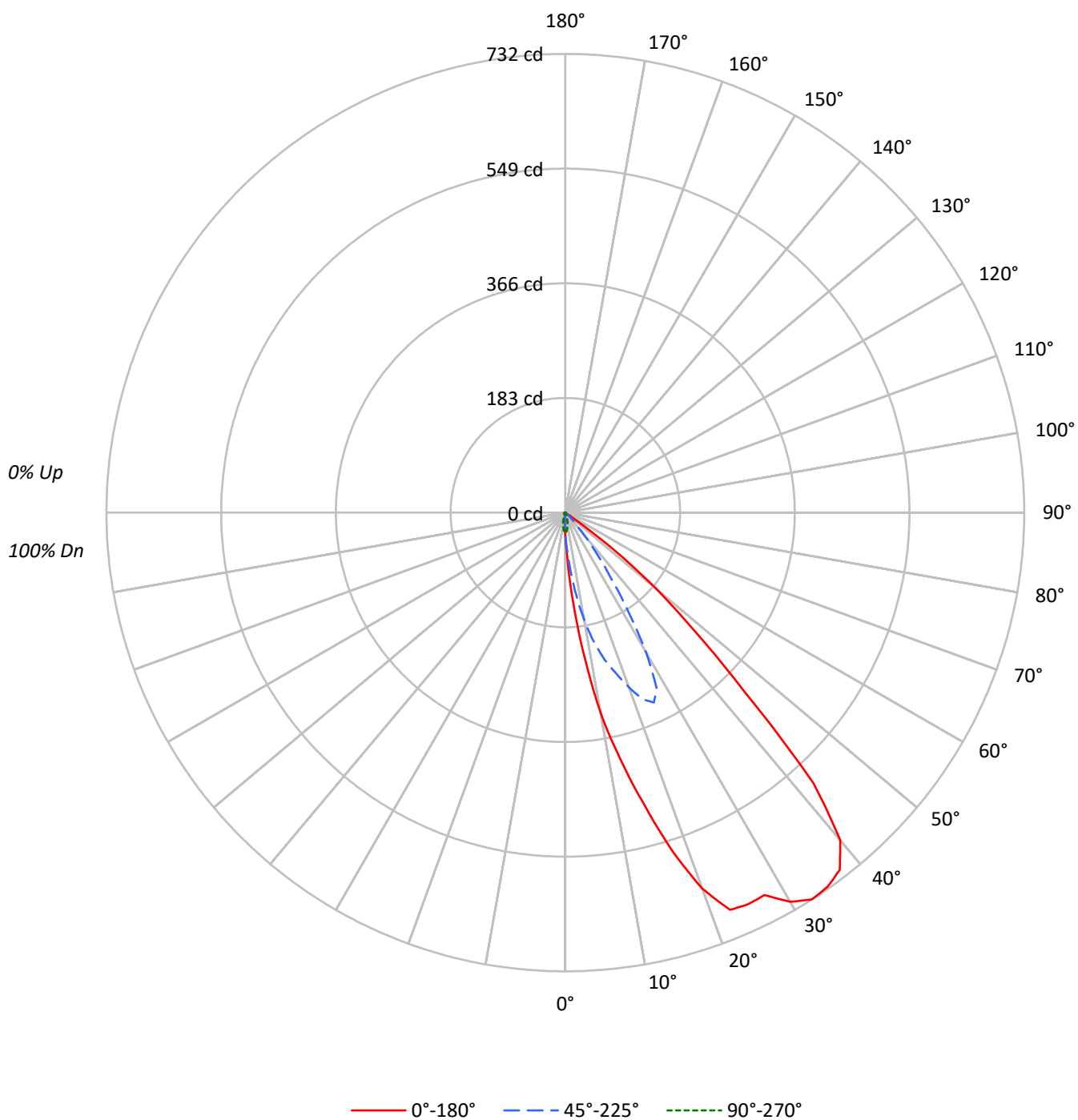
Lumens per Lamp: N/A
Luminaire Lumens: 270.0 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6995	6995	6995	6995	6995
5°	31587	20141	6273	2421	1761
10°	72455	38922	4431	868	668
15°	108741	55233	2747	477	409
20°	148880	69236	1587	257	327
25°	166897	80884	823	218	266
30°	181547	65301	354	177	279
35°	195121	33408	134	241	375
40°	195194	13339	57	258	458
45°	124633	4466	155	434	651
50°	64680	546	239	546	785
55°	5582	76	268	688	956
60°	219	88	307	789	1096
65°	259	104	467	830	1193
70°	128	128	577	898	1154
75°	169	169	593	932	1356
80°	253	253	884	884	1137
85°	0	503	1761	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 124633 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	2.3
10°-20°	36.5	13.5
20°-30°	80.0	29.6
30°-40°	91.2	33.8
40°-50°	48.1	17.8
50°-60°	5.7	2.1
60°-70°	1.0	0.4
70°-80°	0.8	0.3
80°-90°	0.4	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°	122.8	45.5
0°-40°	214.0	79.2
0°-60°	267.8	99.2
0°-90°	270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	144	92	28	11	8	19
15°	479	243	12	2	2	141
25°	690	334	3	1	1	318
35°	729	125	0	1	1	452
45°	402	14	0	1	2	324
55°	15	0	1	2	2	45
65°	0	0	1	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°	35°	40°	45°	67.5°
0°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	71.2	71.2	71.0	68.9	68.7	68.5	64.8	63.9	59.6	56.6	43.1
5°	143.5	140.3	140.1	136.5	130.3	122.1	116.8	108.4	100.2	91.5	53.2
7.5°	228.7	231.4	223.9	220.0	206.3	196.5	181.4	168.2	149.7	132.4	61.4
10°	325.4	320.6	313.1	305.6	290.7	273.2	250.8	227.3	200.6	174.8	65.9
12.5°	400.9	394.8	390.2	380.0	365.3	342.8	316.1	284.6	249.2	212.0	65.7
15°	479.0	472.8	462.6	453.4	431.8	406.4	377.4	335.9	292.6	243.3	60.9
17.5°	564.8	556.8	545.4	531.5	510.5	482.4	445.7	395.0	333.6	268.8	52.3
20°	638.0	633.3	621.8	605.4	584.9	557.5	515.0	458.9	384.1	296.7	41.5
22.5°	686.0	681.6	673.9	659.5	644.0	614.8	576.0	514.4	426.3	322.0	31.5
25°	689.8	688.0	686.0	681.2	671.8	651.1	613.2	546.8	452.5	334.3	23.3
27.5°	687.8	687.1	686.7	684.1	678.0	657.4	618.6	551.6	449.1	315.1	17.1
30°	717.0	714.9	713.8	705.6	689.4	657.7	607.0	525.8	399.1	257.9	12.3
32.5°	731.8	731.4	730.2	722.3	699.4	658.1	587.4	463.5	316.5	186.2	8.4
35°	728.9	726.6	722.5	707.6	675.9	624.1	523.9	370.1	228.4	124.8	5.5
37.5°	718.8	713.6	705.6	678.9	636.7	565.9	424.9	272.5	155.4	80.8	3.2
40°	681.9	674.8	662.2	629.6	574.1	466.4	314.2	184.2	102.0	46.6	0.9
42.5°	586.2	577.1	568.0	531.5	468.0	347.8	206.7	113.9	58.2	25.6	0.2
45°	401.9	390.4	377.9	351.4	300.5	210.6	123.0	64.1	30.1	14.4	0.2
47.5°	279.1	273.8	251.9	218.2	167.3	111.6	63.7	31.5	16.0	6.6	0.2
50°	189.6	183.7	158.1	125.5	89.0	53.4	29.2	15.7	7.1	1.6	0.2
52.5°	99.5	92.2	76.0	58.0	36.1	22.4	12.8	6.8	2.1	0.2	0.2
55°	14.6	13.5	11.0	8.9	8.0	6.2	3.7	1.6	0.2	0.2	0.5
57.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.2	0.2	0.2	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.7
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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°	31.9	31.9	31.9	31.9	31.9
2.5°	31.5	23.3	18.0	15.5	15.3
5°	28.5	16.7	11.0	8.4	8.0
7.5°	24.2	11.6	6.4	4.6	4.3
10°	19.9	8.0	3.9	3.2	3.0
12.5°	15.7	5.2	2.7	2.5	2.3
15°	12.1	3.4	2.1	1.8	1.8
17.5°	9.1	2.3	1.6	1.6	1.6
20°	6.8	1.6	1.1	1.4	1.4
22.5°	4.8	1.1	0.9	1.1	1.1
25°	3.4	0.9	0.9	1.1	1.1
27.5°	2.3	0.7	0.7	0.9	1.1
30°	1.4	0.5	0.7	0.9	1.1
32.5°	0.7	0.5	0.7	1.1	1.1
35°	0.5	0.7	0.9	1.1	1.4
37.5°	0.2	0.7	0.9	1.4	1.4
40°	0.2	0.7	0.9	1.4	1.6
42.5°	0.5	0.9	1.1	1.6	1.8
45°	0.5	0.9	1.4	1.8	2.1
47.5°	0.5	0.9	1.6	2.1	2.1
50°	0.7	1.1	1.6	2.1	2.3
52.5°	0.7	1.1	1.6	2.3	2.5
55°	0.7	1.1	1.8	2.3	2.5
57.5°	0.7	1.4	1.8	2.3	2.5
60°	0.7	1.1	1.8	2.3	2.5
62.5°	0.9	1.1	1.6	2.3	2.3
65°	0.9	1.1	1.6	2.3	2.3
67.5°	0.9	1.1	1.6	2.1	2.1
70°	0.9	1.1	1.4	1.8	1.8
72.5°	0.9	1.1	1.4	1.6	1.8
75°	0.7	0.9	1.1	1.4	1.6
77.5°	0.7	0.9	0.9	1.4	1.4
80°	0.7	0.7	0.7	0.9	0.9
82.5°	0.7	0.7	0.5	0.7	0.7
85°	0.7	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)