

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: P1335038

Luminaire Tested: P3A02R309050DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335038
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: P3A02R309050DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

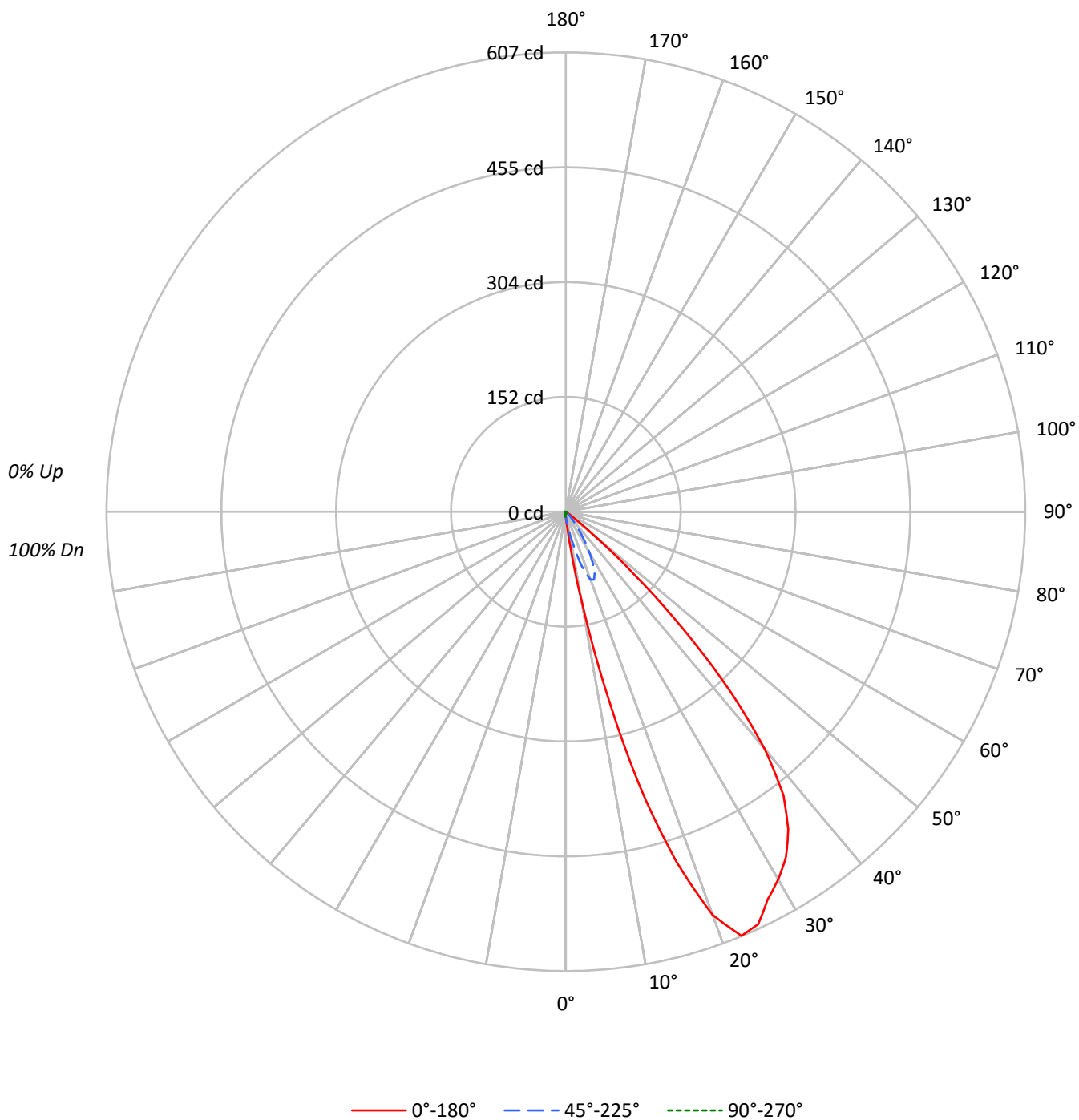
Lumens per Lamp: N/A
Luminaire Lumens: 143.0 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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°	1491	1491	1491	1491	1491
5°	4490	2994	1409	638	528
10°	25985	6346	1113	289	200
15°	84518	14393	772	68	23
20°	132241	22262	490	0	0
25°	145484	21751	242	0	0
30°	142098	15673	101	0	0
35°	137166	8914	27	0	0
40°	116962	3779	0	0	0
45°	68658	1427	31	0	31
50°	16682	273	34	34	136
55°	1453	0	115	153	191
60°	44	0	132	175	307
65°	52	52	208	208	363
70°	64	64	256	256	321
75°	0	85	339	339	339
80°	0	126	505	379	379
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.9
10°-20°	19.7	13.7
20°-30°	49.9	34.9
30°-40°	49.8	34.8
40°-50°	20.2	14.1
50°-60°	1.4	1.0
60°-70°	0.3	0.2
70°-80°	0.3	0.2
80°-90°	0.2	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°	70.9	49.5
0°-40°	120.6	84.4
0°-60°	142.2	99.4
0°-90°	143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	20	14	6	3	2	5
15°	372	63	3	0	0	108
25°	601	90	1	0	0	272
35°	512	33	0	0	0	314
45°	221	5	0	0	0	169
55°	4	0	0	0	0	10
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	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°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
2.5°	11.2	11.4	11.4	11.1	11.0	11.0	10.6	10.5	10.1	9.7	8.4
5°	20.4	20.0	19.5	19.5	18.3	17.6	16.7	15.7	14.9	13.6	9.7
7.5°	46.3	43.1	42.2	41.0	36.6	33.1	29.0	25.5	22.2	19.5	10.7
10°	116.7	110.5	105.5	95.1	82.2	69.8	58.3	45.0	35.8	28.5	11.5
12.5°	235.1	226.8	217.0	198.2	174.1	143.1	115.6	86.4	60.6	41.9	11.8
15°	372.3	358.3	343.0	319.1	279.5	235.1	185.6	138.9	97.3	63.4	11.5
17.5°	484.1	478.6	456.0	423.4	374.9	317.7	256.6	192.9	131.3	83.0	10.7
20°	566.7	562.9	535.6	500.9	446.2	380.6	303.2	226.6	155.0	95.4	9.5
22.5°	606.6	605.9	586.2	550.6	492.8	418.4	333.1	246.1	162.3	97.1	8.0
25°	601.3	603.7	592.5	566.1	510.5	434.0	342.0	246.1	156.9	89.9	6.7
27.5°	577.6	579.1	572.1	551.8	500.1	422.7	329.5	230.2	141.4	77.2	5.5
30°	561.2	561.9	553.1	531.4	476.6	397.1	300.3	201.0	117.9	61.9	4.1
32.5°	541.4	541.2	531.0	506.2	445.7	361.2	263.2	166.1	90.6	47.0	2.4
35°	512.4	509.1	495.2	466.6	399.7	312.8	215.7	126.5	65.2	33.3	1.4
37.5°	472.5	464.0	444.4	406.1	335.2	245.3	159.9	88.9	44.6	22.1	0.9
40°	408.6	399.6	372.9	326.4	253.5	176.5	107.8	57.9	28.1	13.2	0.5
42.5°	320.4	314.3	278.3	231.9	167.4	112.6	64.8	34.2	15.8	7.6	0.1
45°	221.4	213.4	185.2	145.8	100.5	62.5	36.3	17.9	9.0	4.6	0.0
47.5°	122.2	112.4	96.0	75.5	50.6	32.8	18.3	9.7	5.1	2.2	0.0
50°	48.9	48.5	38.5	27.4	19.3	14.9	9.1	5.2	2.6	0.8	0.1
52.5°	17.1	17.1	14.8	12.0	9.4	6.8	4.6	2.5	0.9	0.3	0.1
55°	3.8	4.2	3.9	3.7	3.5	3.0	2.0	0.9	0.3	0.0	0.1
57.5°	0.4	0.4	0.4	0.5	0.7	0.7	0.5	0.3	0.0	0.0	0.1
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.3
62.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.3
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
75°	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.4
77.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
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°	6.8	6.8	6.8	6.8	6.8
2.5°	6.8	5.4	4.4	3.9	3.8
5°	6.4	4.1	2.9	2.5	2.4
7.5°	5.7	3.0	2.0	1.6	1.4
10°	5.0	2.2	1.3	0.9	0.9
12.5°	4.2	1.7	0.8	0.4	0.3
15°	3.4	1.0	0.3	0.1	0.1
17.5°	2.6	0.7	0.0	0.0	0.0
20°	2.1	0.3	0.0	0.0	0.0
22.5°	1.6	0.1	0.0	0.0	0.0
25°	1.0	0.0	0.0	0.0	0.0
27.5°	0.7	0.0	0.0	0.0	0.0
30°	0.4	0.0	0.0	0.0	0.0
32.5°	0.1	0.0	0.0	0.0	0.0
35°	0.1	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°	0.1	0.0	0.0	0.1	0.1
47.5°	0.1	0.1	0.1	0.3	0.3
50°	0.1	0.1	0.1	0.3	0.4
52.5°	0.3	0.1	0.3	0.4	0.4
55°	0.3	0.3	0.4	0.5	0.5
57.5°	0.3	0.3	0.4	0.5	0.5
60°	0.3	0.3	0.4	0.5	0.7
62.5°	0.4	0.4	0.4	0.5	0.5
65°	0.4	0.4	0.4	0.5	0.7
67.5°	0.4	0.4	0.4	0.5	0.7
70°	0.4	0.4	0.4	0.5	0.5
72.5°	0.5	0.4	0.4	0.5	0.5
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.3	0.4	0.4
80°	0.4	0.3	0.3	0.3	0.3
82.5°	0.4	0.3	0.3	0.3	0.3
85°	0.4	0.3	0.1	0.1	0.1
87.5°	0.4	0.3	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)