

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: P1335822

Luminaire Tested: P3A02R409835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335822
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: P3A02R409835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

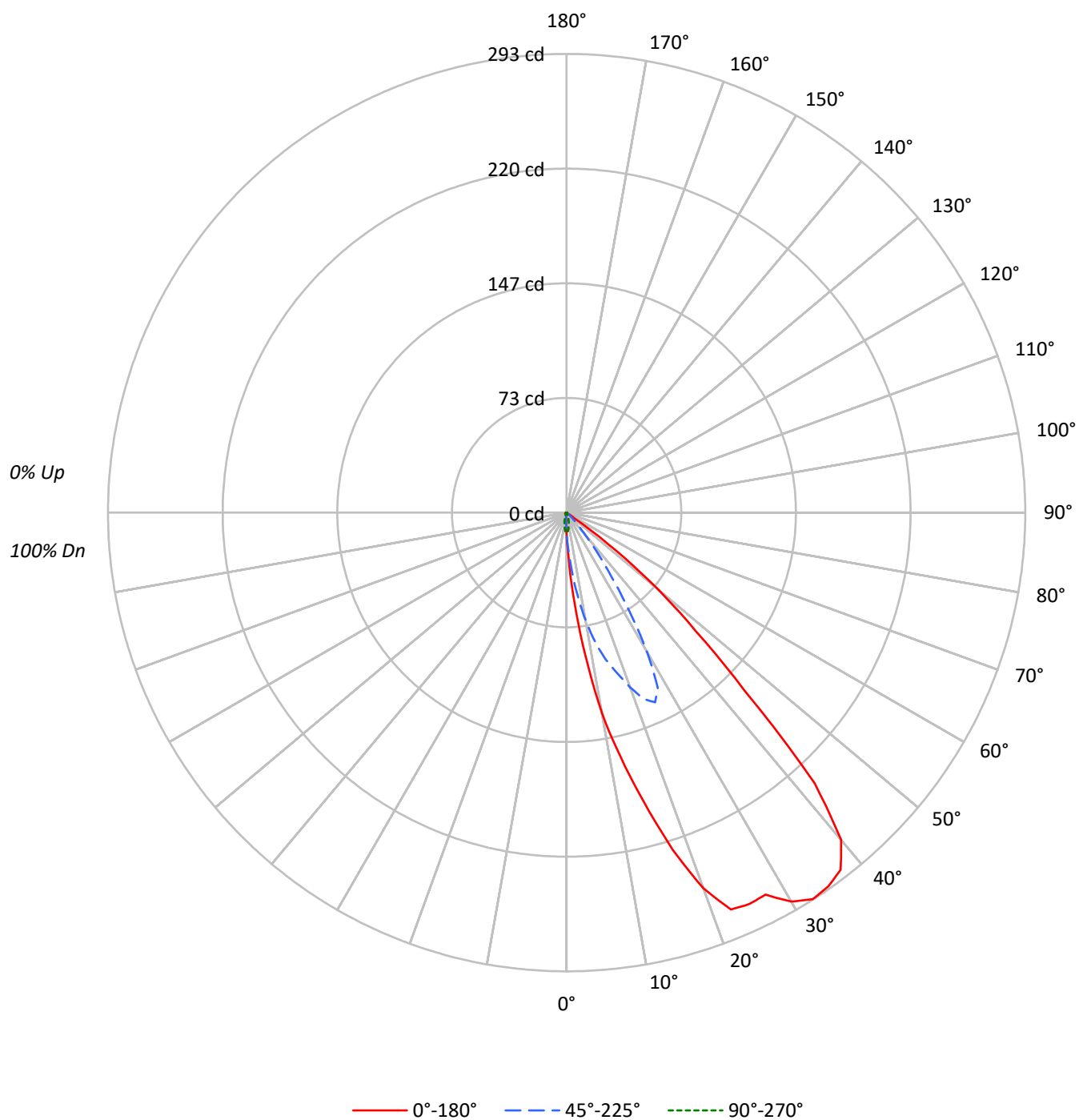
Lumens per Lamp: N/A
Luminaire Lumens: 108.0 lumens
Efficiency: N/A
Efficacy: 30.0 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2807	2807	2807	2807	2807
5°	12635	8056	2509	969	704
10°	28991	15564	1759	356	267
15°	43496	22089	1090	182	159
20°	59552	27699	630	117	117
25°	66754	32349	339	97	121
30°	72619	26105	127	76	127
35°	78032	13358	54	107	134
40°	78061	5324	29	115	172
45°	49835	1799	62	155	248
50°	25893	205	102	205	307
55°	2217	38	115	268	382
60°	88	44	132	307	439
65°	104	52	208	311	467
70°	64	64	256	321	449
75°	85	85	254	424	508
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49835 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	2.3
10°-20°	14.6	13.5
20°-30°	32.0	29.6
30°-40°	36.5	33.8
40°-50°	19.2	17.8
50°-60°	2.3	2.1
60°-70°	0.4	0.4
70°-80°	0.3	0.3
80°-90°	0.2	0.2
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°	49.1	45.5
0°-40°	85.6	79.2
0°-60°	107.1	99.1
0°-90°	108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	108.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	57	37	11	4	3	8
15°	192	97	5	1	1	56
25°	276	134	1	0	0	127
35°	292	50	0	0	0	181
45°	161	6	0	0	1	130
55°	6	0	0	1	1	18
65°	0	0	0	1	1	0
75°	0	0	0	0	1	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°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
2.5°	28.5	28.5	28.4	27.6	27.5	27.4	25.9	25.6	23.8	22.6	17.3
5°	57.4	56.1	56.0	54.6	52.1	48.8	46.7	43.4	40.1	36.6	21.3
7.5°	91.5	92.6	89.5	88.0	82.5	78.6	72.6	67.3	59.9	52.9	24.6
10°	130.2	128.2	125.2	122.2	116.3	109.3	100.3	90.9	80.2	69.9	26.4
12.5°	160.4	157.9	156.1	152.0	146.1	137.1	126.4	113.8	99.7	84.8	26.3
15°	191.6	189.1	185.0	181.4	172.7	162.6	151.0	134.4	117.0	97.3	24.4
17.5°	225.9	222.7	218.2	212.6	204.2	193.0	178.3	158.0	133.5	107.5	20.9
20°	255.2	253.3	248.7	242.2	233.9	223.0	206.0	183.6	153.6	118.7	16.6
22.5°	274.4	272.7	269.5	263.8	257.6	245.9	230.4	205.7	170.5	128.8	12.6
25°	275.9	275.2	274.4	272.5	268.7	260.4	245.3	218.7	181.0	133.7	9.3
27.5°	275.1	274.8	274.7	273.7	271.2	263.0	247.5	220.6	179.6	126.1	6.8
30°	286.8	286.0	285.5	282.2	275.8	263.1	242.8	210.3	159.6	103.1	4.9
32.5°	292.7	292.6	292.1	288.9	279.8	263.3	235.0	185.4	126.6	74.5	3.4
35°	291.5	290.6	289.0	283.1	270.4	249.6	209.6	148.1	91.4	49.9	2.2
37.5°	287.5	285.4	282.2	271.6	254.7	226.4	170.0	109.0	62.2	32.3	1.3
40°	272.7	269.9	264.9	251.8	229.7	186.6	125.7	73.7	40.8	18.6	0.4
42.5°	234.5	230.8	227.2	212.6	187.2	139.1	82.7	45.5	23.3	10.2	0.1
45°	160.7	156.2	151.2	140.6	120.2	84.3	49.2	25.6	12.0	5.8	0.1
47.5°	111.6	109.5	100.8	87.3	66.9	44.6	25.5	12.6	6.4	2.6	0.1
50°	75.9	73.5	63.3	50.2	35.6	21.4	11.7	6.3	2.8	0.6	0.1
52.5°	39.8	36.9	30.4	23.2	14.4	8.9	5.1	2.7	0.8	0.1	0.1
55°	5.8	5.4	4.4	3.6	3.2	2.5	1.5	0.6	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
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	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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°	12.8	12.8	12.8	12.8	12.8
2.5°	12.6	9.3	7.2	6.2	6.1
5°	11.4	6.7	4.4	3.4	3.2
7.5°	9.7	4.7	2.6	1.8	1.7
10°	7.9	3.2	1.6	1.3	1.2
12.5°	6.3	2.1	1.1	1.0	0.9
15°	4.8	1.4	0.8	0.7	0.7
17.5°	3.7	0.9	0.6	0.6	0.6
20°	2.7	0.6	0.5	0.5	0.5
22.5°	1.9	0.5	0.4	0.5	0.5
25°	1.4	0.4	0.4	0.5	0.5
27.5°	0.9	0.3	0.3	0.4	0.5
30°	0.5	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.5
37.5°	0.1	0.3	0.4	0.5	0.5
40°	0.1	0.3	0.4	0.5	0.6
42.5°	0.2	0.4	0.5	0.6	0.7
45°	0.2	0.4	0.5	0.7	0.8
47.5°	0.2	0.4	0.6	0.8	0.8
50°	0.3	0.5	0.6	0.8	0.9
52.5°	0.3	0.5	0.6	0.9	1.0
55°	0.3	0.5	0.7	0.9	1.0
57.5°	0.3	0.5	0.7	0.9	1.0
60°	0.3	0.5	0.7	0.9	1.0
62.5°	0.4	0.5	0.6	0.9	0.9
65°	0.4	0.5	0.6	0.9	0.9
67.5°	0.4	0.5	0.6	0.8	0.8
70°	0.4	0.5	0.5	0.7	0.7
72.5°	0.4	0.5	0.5	0.6	0.7
75°	0.3	0.4	0.5	0.5	0.6
77.5°	0.3	0.4	0.4	0.5	0.5
80°	0.3	0.3	0.3	0.4	0.4
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)