

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: P1335694

Luminaire Tested: P3A02R409040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335694
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: P3A02R409040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

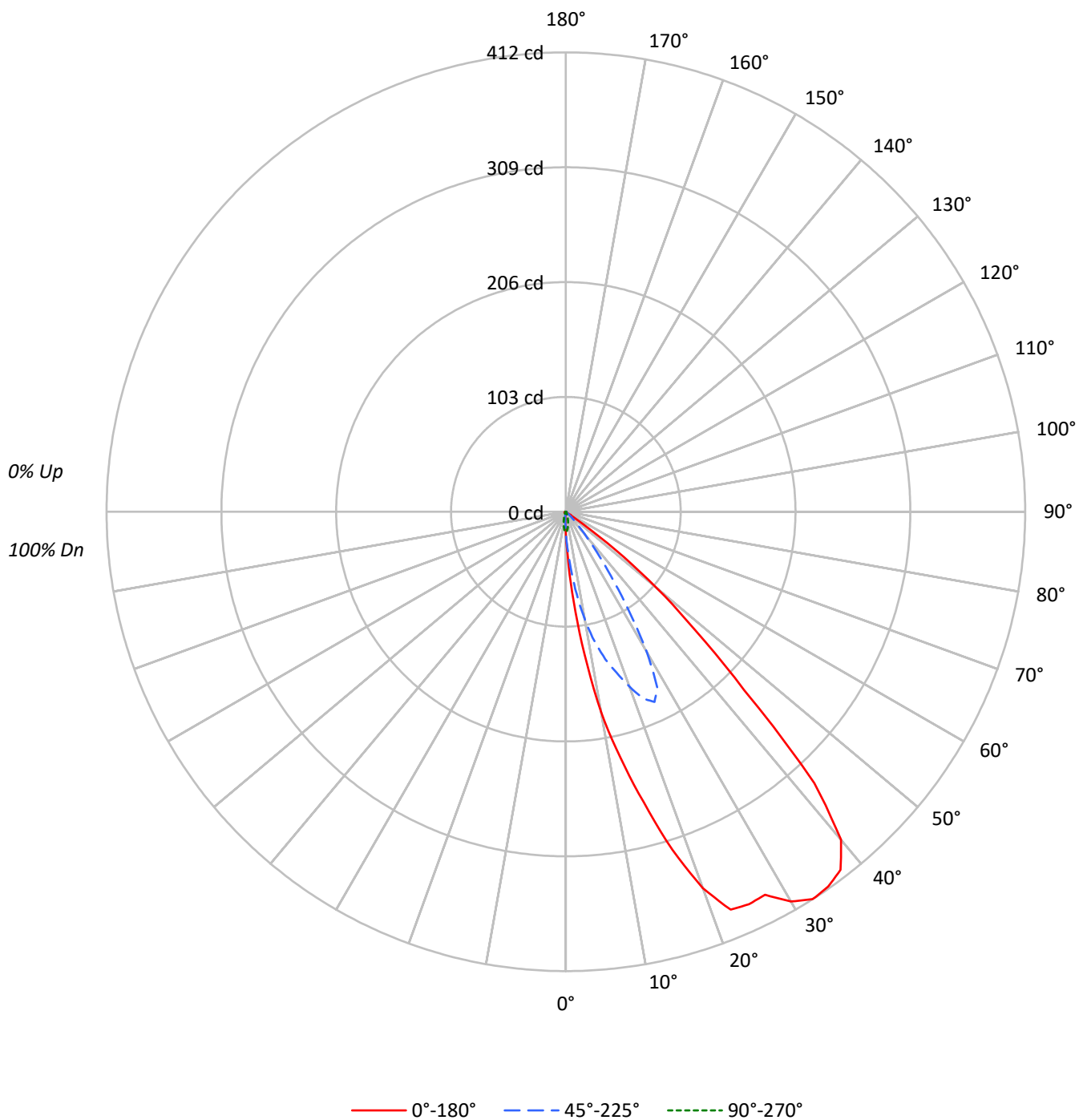
Lumens per Lamp: N/A
Luminaire Lumens: 152.0 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3947	3947	3947	3947	3947
5°	17786	11336	3544	1365	991
10°	40792	21910	2494	490	379
15°	61226	31078	1544	272	227
20°	83821	38970	910	140	187
25°	93973	45535	460	121	145
30°	102193	36765	203	101	152
35°	109834	18819	80	134	214
40°	109892	7500	29	143	258
45°	70147	2512	93	248	372
50°	36434	307	136	307	443
55°	3135	38	153	382	535
60°	132	44	175	439	614
65°	156	52	259	467	675
70°	64	64	321	513	641
75°	85	85	339	508	763
80°	126	126	505	505	631
85°	0	252	1006	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	2.3
10°-20°	20.6	13.5
20°-30°	45.1	29.6
30°-40°	51.3	33.8
40°-50°	27.1	17.8
50°-60°	3.2	2.1
60°-70°	0.6	0.4
70°-80°	0.5	0.3
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°	69.1	45.5
0°-40°	120.5	79.2
0°-60°	150.7	99.2
0°-90°	152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	152.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	81	52	16	6	4	11
15°	270	137	7	1	1	79
25°	388	188	2	0	1	179
35°	410	70	0	0	1	254
45°	226	8	0	1	1	182
55°	8	0	0	1	1	26
65°	0	0	0	1	1	0
75°	0	0	0	1	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°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	40.1	40.1	40.0	38.8	38.7	38.5	36.5	36.0	33.5	31.9	24.3
5°	80.8	79.0	78.9	76.8	73.4	68.7	65.8	61.0	56.4	51.5	29.9
7.5°	128.7	130.3	126.0	123.8	116.1	110.6	102.1	94.7	84.3	74.5	34.6
10°	183.2	180.5	176.3	172.0	163.7	153.8	141.2	128.0	112.9	98.4	37.1
12.5°	225.7	222.2	219.7	213.9	205.7	193.0	177.9	160.2	140.3	119.3	37.0
15°	269.7	266.2	260.4	255.3	243.1	228.8	212.5	189.1	164.7	136.9	34.3
17.5°	318.0	313.5	307.0	299.2	287.4	271.6	250.9	222.4	187.8	151.3	29.4
20°	359.2	356.5	350.1	340.8	329.3	313.8	290.0	258.3	216.2	167.0	23.4
22.5°	386.2	383.7	379.4	371.3	362.5	346.1	324.3	289.6	240.0	181.3	17.7
25°	388.4	387.3	386.2	383.5	378.2	366.5	345.2	307.8	254.8	188.2	13.1
27.5°	387.2	386.8	386.6	385.1	381.7	370.1	348.3	310.5	252.8	177.4	9.6
30°	403.6	402.5	401.8	397.2	388.1	370.2	341.7	296.0	224.7	145.2	6.9
32.5°	412.0	411.7	411.1	406.6	393.8	370.5	330.7	260.9	178.2	104.8	4.8
35°	410.3	409.0	406.7	398.4	380.5	351.4	295.0	208.4	128.6	70.3	3.1
37.5°	404.7	401.7	397.2	382.2	358.4	318.6	239.2	153.4	87.5	45.5	1.8
40°	383.9	379.9	372.8	354.4	323.2	262.6	176.9	103.7	57.4	26.2	0.5
42.5°	330.0	324.9	319.8	299.2	263.5	195.8	116.4	64.1	32.8	14.4	0.1
45°	226.2	219.8	212.7	197.8	169.2	118.6	69.2	36.1	17.0	8.1	0.1
47.5°	157.1	154.2	141.8	122.8	94.2	62.8	35.8	17.7	9.0	3.7	0.1
50°	106.8	103.4	89.0	70.7	50.1	30.1	16.4	8.9	4.0	0.9	0.1
52.5°	56.0	51.9	42.8	32.6	20.3	12.6	7.2	3.9	1.2	0.1	0.1
55°	8.2	7.6	6.2	5.0	4.5	3.5	2.1	0.9	0.1	0.1	0.3
57.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.1	0.1	0.1	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3
67.5°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3	0.4
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	0.3	0.4
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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°	18.0	18.0	18.0	18.0	18.0
2.5°	17.7	13.1	10.1	8.7	8.6
5°	16.1	9.4	6.2	4.8	4.5
7.5°	13.6	6.6	3.6	2.6	2.4
10°	11.2	4.5	2.2	1.8	1.7
12.5°	8.9	3.0	1.5	1.4	1.3
15°	6.8	1.9	1.2	1.0	1.0
17.5°	5.1	1.3	0.9	0.9	0.9
20°	3.9	0.9	0.6	0.8	0.8
22.5°	2.7	0.6	0.5	0.6	0.6
25°	1.9	0.5	0.5	0.6	0.6
27.5°	1.3	0.4	0.4	0.5	0.6
30°	0.8	0.3	0.4	0.5	0.6
32.5°	0.4	0.3	0.4	0.6	0.6
35°	0.3	0.4	0.5	0.6	0.8
37.5°	0.1	0.4	0.5	0.8	0.8
40°	0.1	0.4	0.5	0.8	0.9
42.5°	0.3	0.5	0.6	0.9	1.0
45°	0.3	0.5	0.8	1.0	1.2
47.5°	0.3	0.5	0.9	1.2	1.2
50°	0.4	0.6	0.9	1.2	1.3
52.5°	0.4	0.6	0.9	1.3	1.4
55°	0.4	0.6	1.0	1.3	1.4
57.5°	0.4	0.8	1.0	1.3	1.4
60°	0.4	0.6	1.0	1.3	1.4
62.5°	0.5	0.6	0.9	1.3	1.3
65°	0.5	0.6	0.9	1.3	1.3
67.5°	0.5	0.6	0.9	1.2	1.2
70°	0.5	0.6	0.8	1.0	1.0
72.5°	0.5	0.6	0.8	0.9	1.0
75°	0.4	0.5	0.6	0.8	0.9
77.5°	0.4	0.5	0.5	0.8	0.8
80°	0.4	0.4	0.4	0.5	0.5
82.5°	0.4	0.4	0.3	0.4	0.4
85°	0.4	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)