

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: P1335678

Luminaire Tested: P3A02R409035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335678
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: P3A02R409035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

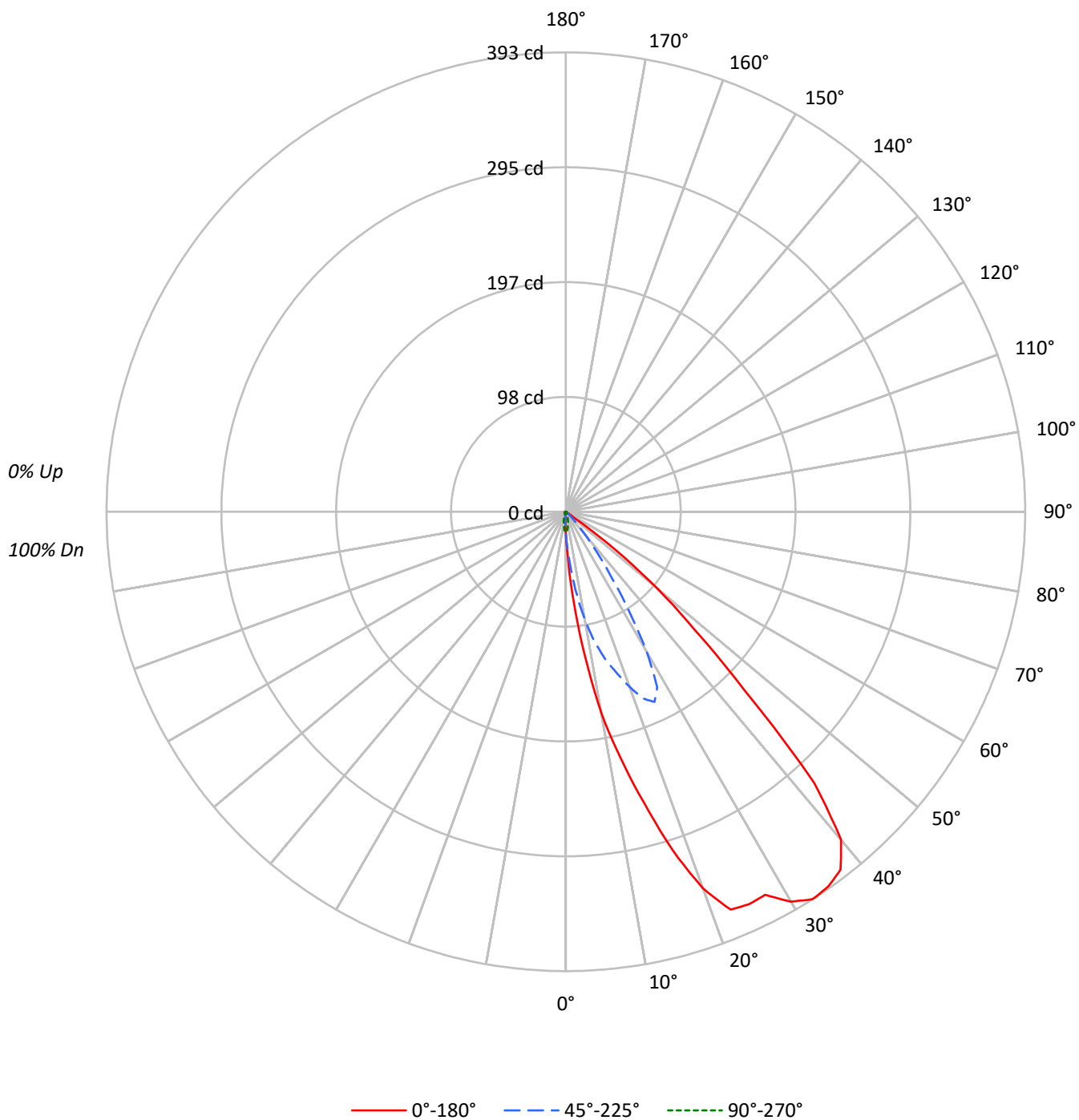
Lumens per Lamp: N/A
Luminaire Lumens: 145.0 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	63	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	52	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°	3772	3772	3772	3772	3772
5°	16971	10808	3368	1299	947
10°	38922	20908	2382	468	356
15°	58389	29648	1476	250	227
20°	79970	37173	863	140	163
25°	89642	43430	436	121	145
30°	97509	35069	177	101	152
35°	104775	17935	54	134	187
40°	104825	7156	29	143	258
45°	66922	2388	62	217	341
50°	34728	307	136	307	409
55°	2982	38	153	382	497
60°	88	44	175	439	570
65°	104	52	259	467	623
70°	64	64	321	449	641
75°	85	85	339	508	763
80°	126	126	505	505	631
85°	0	252	1006	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 66922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	2.3
10°-20°	19.6	13.5
20°-30°	43.0	29.6
30°-40°	49.0	33.8
40°-50°	25.8	17.8
50°-60°	3.0	2.1
60°-70°	0.5	0.4
70°-80°	0.4	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°	65.9	45.5
0°-40°	114.9	79.3
0°-60°	143.8	99.2
0°-90°	145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	77	49	15	6	4	10
15°	257	131	6	1	1	76
25°	370	180	2	0	1	171
35°	391	67	0	0	1	243
45°	216	8	0	1	1	174
55°	8	0	0	1	1	24
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°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	38.2	38.2	38.1	37.0	36.9	36.8	34.8	34.3	32.0	30.4	23.2
5°	77.1	75.4	75.2	73.3	70.0	65.6	62.7	58.2	53.8	49.1	28.6
7.5°	122.8	124.3	120.2	118.1	110.8	105.5	97.4	90.3	80.4	71.1	33.0
10°	174.8	172.2	168.1	164.1	156.1	146.7	134.7	122.1	107.7	93.9	35.4
12.5°	215.3	212.0	209.6	204.0	196.2	184.1	169.7	152.8	133.8	113.9	35.3
15°	257.2	253.9	248.4	243.5	231.9	218.3	202.7	180.4	157.1	130.6	32.7
17.5°	303.3	299.0	292.9	285.4	274.1	259.1	239.3	212.1	179.2	144.4	28.1
20°	342.7	340.1	334.0	325.1	314.1	299.4	276.6	246.5	206.3	159.3	22.3
22.5°	368.4	366.1	361.9	354.2	345.8	330.2	309.3	276.2	228.9	172.9	16.9
25°	370.5	369.5	368.4	365.8	360.8	349.6	329.3	293.6	243.0	179.5	12.5
27.5°	369.4	369.0	368.8	367.4	364.1	353.1	332.2	296.2	241.2	169.2	9.2
30°	385.1	384.0	383.3	378.9	370.2	353.2	326.0	282.4	214.3	138.5	6.6
32.5°	393.0	392.8	392.2	387.9	375.6	353.4	315.4	248.9	170.0	100.0	4.5
35°	391.4	390.2	388.0	380.0	363.0	335.2	281.4	198.8	122.7	67.0	2.9
37.5°	386.0	383.2	378.9	364.6	341.9	303.9	228.2	146.3	83.5	43.4	1.7
40°	366.2	362.4	355.6	338.1	308.3	250.5	168.8	98.9	54.8	25.0	0.5
42.5°	314.8	309.9	305.0	285.4	251.4	186.8	111.0	61.2	31.3	13.7	0.1
45°	215.8	209.7	202.9	188.7	161.4	113.1	66.1	34.4	16.2	7.7	0.1
47.5°	149.9	147.1	135.3	117.2	89.8	59.9	34.2	16.9	8.6	3.6	0.1
50°	101.8	98.7	84.9	67.4	47.8	28.7	15.7	8.5	3.8	0.9	0.1
52.5°	53.4	49.5	40.8	31.1	19.4	12.0	6.9	3.7	1.1	0.1	0.1
55°	7.8	7.2	5.9	4.8	4.3	3.3	2.0	0.9	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.4	0.4	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	0.4
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	0.2	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	0.2	0.4
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	0.4
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°	17.2	17.2	17.2	17.2	17.2
2.5°	16.9	12.5	9.7	8.3	8.2
5°	15.3	8.9	5.9	4.5	4.3
7.5°	13.0	6.3	3.4	2.5	2.3
10°	10.7	4.3	2.1	1.7	1.6
12.5°	8.5	2.8	1.5	1.3	1.2
15°	6.5	1.8	1.1	1.0	1.0
17.5°	4.9	1.2	0.9	0.9	0.9
20°	3.7	0.9	0.6	0.7	0.7
22.5°	2.6	0.6	0.5	0.6	0.6
25°	1.8	0.5	0.5	0.6	0.6
27.5°	1.2	0.4	0.4	0.5	0.6
30°	0.7	0.2	0.4	0.5	0.6
32.5°	0.4	0.2	0.4	0.6	0.6
35°	0.2	0.4	0.5	0.6	0.7
37.5°	0.1	0.4	0.5	0.7	0.7
40°	0.1	0.4	0.5	0.7	0.9
42.5°	0.2	0.5	0.6	0.9	1.0
45°	0.2	0.5	0.7	1.0	1.1
47.5°	0.2	0.5	0.9	1.1	1.1
50°	0.4	0.6	0.9	1.1	1.2
52.5°	0.4	0.6	0.9	1.2	1.3
55°	0.4	0.6	1.0	1.2	1.3
57.5°	0.4	0.7	1.0	1.2	1.3
60°	0.4	0.6	1.0	1.2	1.3
62.5°	0.5	0.6	0.9	1.2	1.2
65°	0.5	0.6	0.9	1.2	1.2
67.5°	0.5	0.6	0.9	1.1	1.1
70°	0.5	0.6	0.7	1.0	1.0
72.5°	0.5	0.6	0.7	0.9	1.0
75°	0.4	0.5	0.6	0.7	0.9
77.5°	0.4	0.5	0.5	0.7	0.7
80°	0.4	0.4	0.4	0.5	0.5
82.5°	0.4	0.4	0.2	0.4	0.4
85°	0.4	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)