

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: P1336158

Luminaire Tested: P3A02R459835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

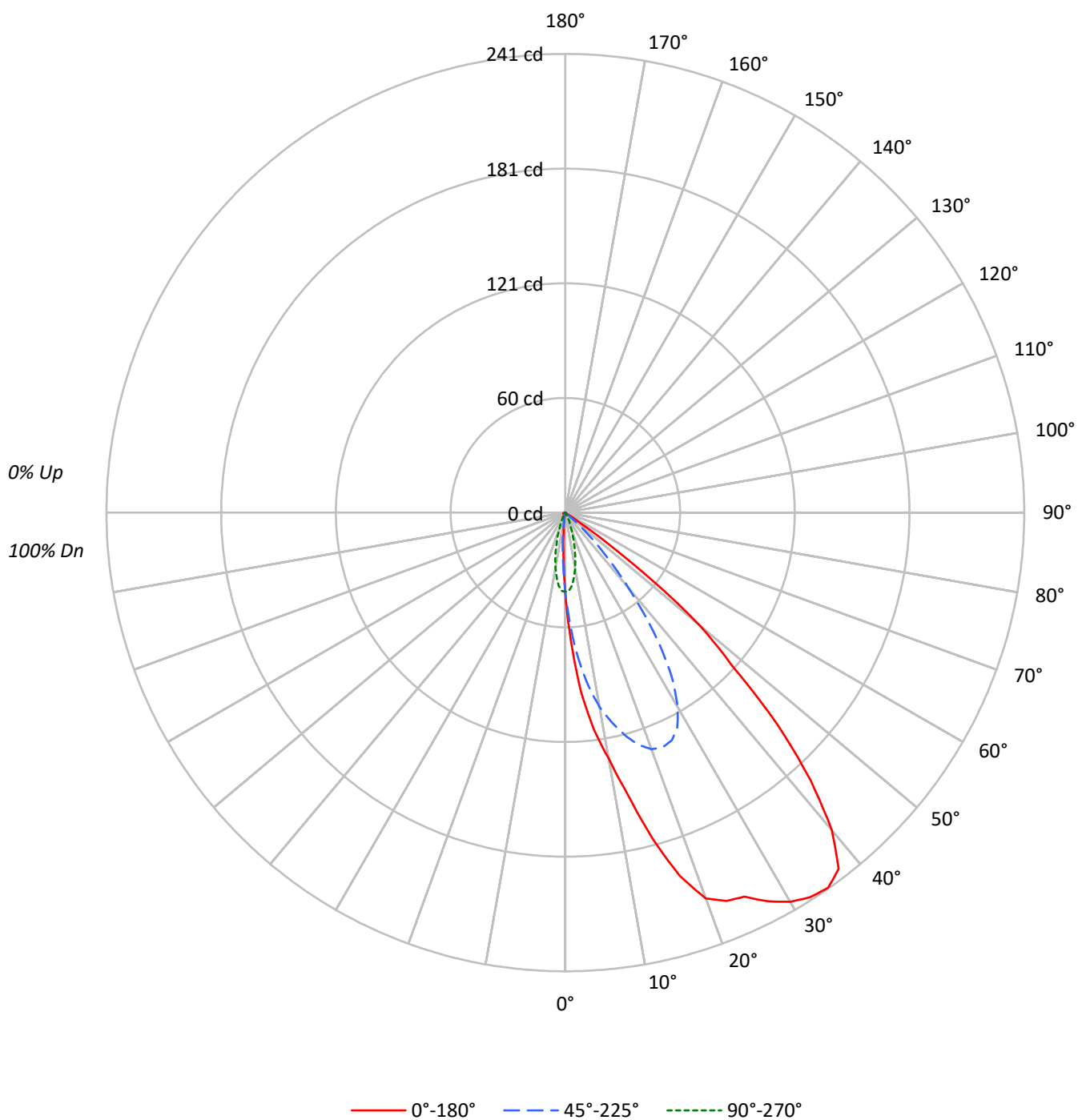
Lumens per Lamp: N/A
Luminaire Lumens: 109.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	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	81	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	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	42	42	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°	9100	9100	9100	9100	9100
5°	20735	16817	8519	3412	2333
10°	29213	23090	6569	757	334
15°	40250	27492	4200	250	204
20°	50334	30873	2194	163	163
25°	53858	31962	1016	121	145
30°	59781	29853	456	127	152
35°	64407	23798	134	134	187
40°	62317	14742	86	172	229
45°	48935	6946	93	217	279
50°	31453	819	136	273	375
55°	4779	76	153	344	459
60°	88	88	175	395	482
65°	104	104	208	415	571
70°	128	128	256	449	641
75°	85	169	339	508	678
80°	126	253	379	631	758
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	4.2
10°-20°	16.4	15.1
20°-30°	28.8	26.4
30°-40°	32.7	30.0
40°-50°	21.2	19.4
50°-60°	4.2	3.8
60°-70°	0.5	0.5
70°-80°	0.4	0.4
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°	49.8	45.7
0°-40°	82.5	75.7
0°-60°	107.9	99.0
0°-90°	109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	109.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	94	76	39	16	11	10
15°	177	121	18	1	1	51
25°	223	132	4	0	1	104
35°	241	89	0	0	1	148
45°	158	22	0	1	1	119
55°	12	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°	50°
0°	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
2.5°	67.4	67.2	67.5	65.6	65.5	64.2	63.8	62.3	60.2	59.2	56.8
5°	94.2	93.3	93.3	91.1	90.3	88.8	86.1	82.9	80.1	76.4	72.4
7.5°	114.9	114.7	114.7	112.8	110.9	108.8	105.2	101.5	97.1	91.3	85.5
10°	131.2	131.4	130.6	128.9	126.3	123.9	119.7	115.1	109.8	103.7	96.0
12.5°	151.8	149.8	149.1	145.2	141.8	137.3	132.3	127.1	120.4	112.9	104.1
15°	177.3	174.7	172.2	167.0	161.3	154.3	146.5	138.8	130.3	121.1	110.1
17.5°	200.1	200.1	196.7	188.5	181.2	170.8	160.3	150.0	139.9	127.8	114.1
20°	215.7	214.9	212.3	206.3	198.0	186.2	172.5	158.2	145.9	132.3	116.4
22.5°	220.8	220.6	220.7	217.1	210.5	198.3	181.4	164.5	149.2	133.4	115.3
25°	222.6	223.0	223.9	222.5	217.5	205.3	186.9	167.5	150.2	132.1	111.1
27.5°	230.2	229.4	230.4	229.5	223.9	209.3	188.0	166.8	148.0	127.4	103.6
30°	236.1	235.9	237.6	236.8	229.4	211.9	187.0	164.1	142.7	117.9	91.9
32.5°	239.5	239.6	240.0	236.6	225.7	206.3	182.0	158.5	132.5	105.4	76.6
35°	240.6	240.0	237.5	229.2	214.2	193.4	169.9	145.3	118.8	88.9	60.5
37.5°	235.8	233.0	226.4	214.0	196.7	177.3	154.4	128.6	99.9	70.2	45.1
40°	217.7	213.9	205.7	193.0	176.8	158.1	134.6	107.7	77.5	51.5	31.7
42.5°	190.5	188.6	179.9	168.9	155.2	136.3	112.1	84.8	57.3	35.6	20.2
45°	157.8	155.3	149.9	140.1	129.4	109.5	87.0	60.7	39.1	22.4	10.0
47.5°	118.3	118.5	114.8	107.4	96.8	80.2	59.5	40.7	24.5	11.6	2.3
50°	92.2	90.9	85.6	78.0	65.7	53.4	38.5	25.7	12.9	2.4	0.2
52.5°	51.0	51.9	49.0	46.6	40.2	31.9	22.7	13.0	2.7	0.3	0.2
55°	12.5	13.2	12.7	12.9	13.4	11.9	9.2	2.6	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
2.5°	55.6	53.9	50.7	41.2	33.1	26.7	22.9	22.5
5°	68.8	64.2	57.4	38.7	24.4	15.5	11.2	10.6
7.5°	79.3	72.7	62.4	34.5	16.7	7.9	4.4	3.6
10°	88.0	78.7	64.9	29.5	10.5	3.4	1.8	1.5
12.5°	93.9	82.7	65.4	24.1	6.0	1.6	1.2	1.1
15°	97.7	84.0	63.2	18.5	3.4	1.1	1.0	0.9
17.5°	99.3	82.9	59.0	13.4	1.8	0.8	0.8	0.8
20°	98.5	79.3	52.8	9.4	1.2	0.7	0.7	0.7
22.5°	95.1	73.2	45.0	6.3	0.8	0.6	0.6	0.6
25°	88.2	64.9	36.8	4.2	0.5	0.5	0.6	0.6
27.5°	78.0	54.7	28.2	2.8	0.5	0.5	0.6	0.6
30°	65.2	43.3	20.2	1.8	0.5	0.5	0.5	0.6
32.5°	51.8	31.5	13.3	1.1	0.4	0.5	0.6	0.7
35°	37.6	21.5	8.5	0.5	0.5	0.5	0.6	0.7
37.5°	26.3	14.0	4.9	0.4	0.5	0.5	0.7	0.7
40°	17.1	7.8	1.8	0.3	0.5	0.6	0.7	0.8
42.5°	8.9	2.7	0.4	0.3	0.5	0.6	0.8	0.9
45°	2.3	0.4	0.1	0.3	0.5	0.7	0.9	0.9
47.5°	0.3	0.1	0.1	0.4	0.5	0.8	0.9	1.0
50°	0.1	0.2	0.2	0.4	0.5	0.8	1.0	1.1
52.5°	0.2	0.2	0.2	0.4	0.6	0.8	1.1	1.2
55°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.2
57.5°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
60°	0.2	0.2	0.2	0.4	0.6	0.9	1.1	1.1
62.5°	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.1
65°	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.1
67.5°	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.1
70°	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.0
72.5°	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9
75°	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.8
77.5°	0.2	0.2	0.3	0.3	0.5	0.5	0.7	0.7
80°	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6
82.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)