

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: P1335054

Luminaire Tested: P3A02R309727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335054
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: P3A02R309727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

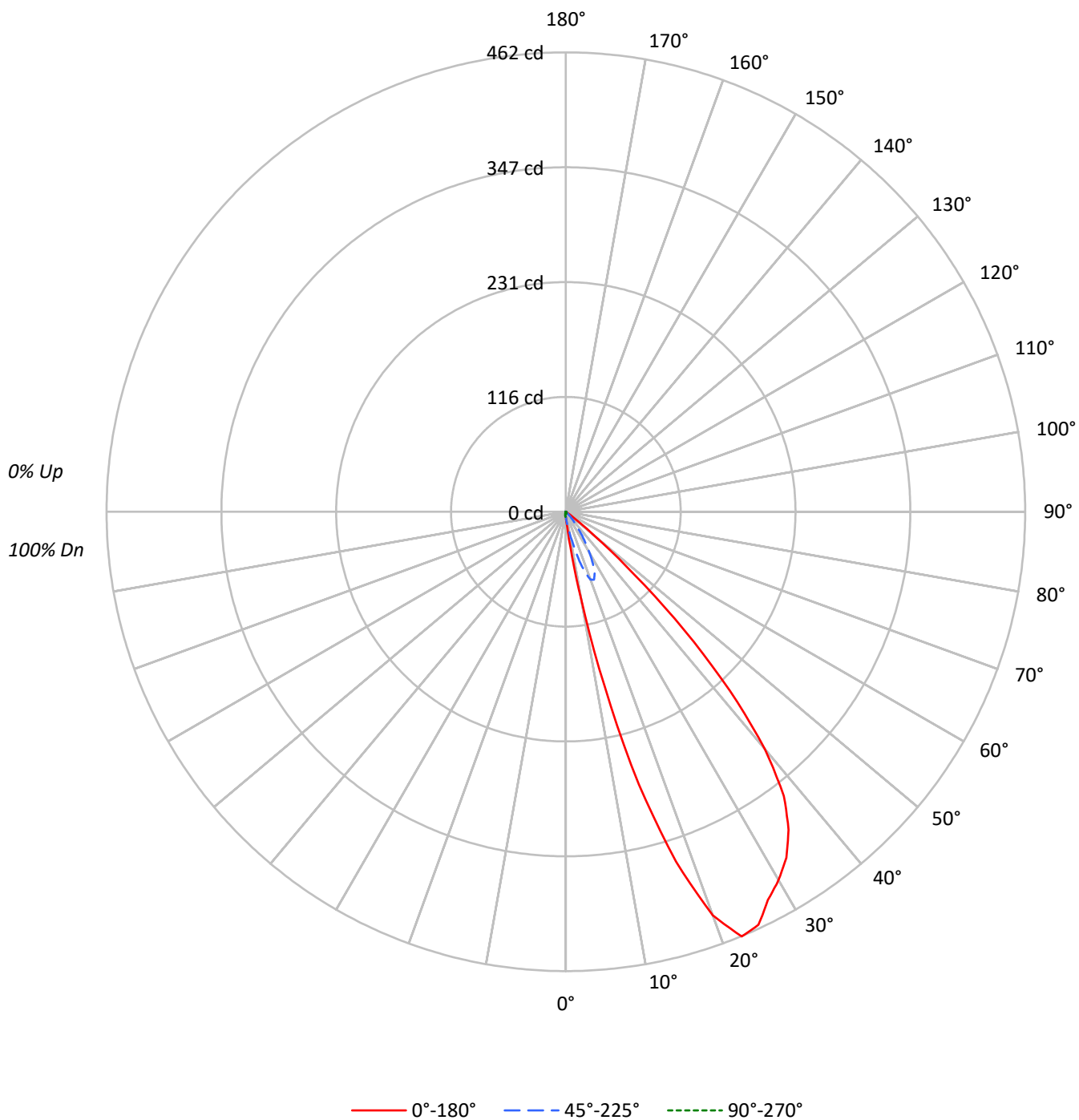
Lumens per Lamp: N/A
Luminaire Lumens: 109.0 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	1140	1140	1140	1140	1140
5°	3412	2289	1079	484	396
10°	19795	4832	846	223	156
15°	64427	10965	590	45	23
20°	100809	16965	373	0	0
25°	110910	16574	194	0	0
30°	108320	11951	76	0	0
35°	104534	6799	27	0	0
40°	89167	2891	0	0	0
45°	52316	1085	31	0	31
50°	12725	205	34	34	102
55°	1109	0	76	115	153
60°	44	0	88	132	219
65°	52	52	156	156	259
70°	64	64	192	192	256
75°	0	85	254	254	254
80°	0	126	379	253	253
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52316 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.9
10°-20°	15.0	13.7
20°-30°	38.1	34.9
30°-40°	37.9	34.8
40°-50°	15.4	14.1
50°-60°	1.1	1.0
60°-70°	0.2	0.2
70°-80°	0.2	0.2
80°-90°	0.1	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°	54.0	49.5
0°-40°	92.0	84.4
0°-60°	108.4	99.4
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°	5	5	5	5	5	
5°	16	10	5	2	2	4
15°	284	48	3	0	0	83
25°	458	68	1	0	0	207
35°	390	25	0	0	0	239
45°	169	4	0	0	0	129
55°	3	0	0	0	0	8
65°	0	0	0	0	0	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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
2.5°	8.6	8.7	8.7	8.5	8.4	8.4	8.1	8.0	7.7	7.4	6.4
5°	15.5	15.2	14.8	14.8	13.9	13.4	12.7	12.0	11.4	10.4	7.4
7.5°	35.3	32.9	32.2	31.3	27.9	25.2	22.1	19.4	16.9	14.8	8.2
10°	88.9	84.3	80.4	72.5	62.6	53.2	44.4	34.3	27.3	21.7	8.8
12.5°	179.2	172.9	165.4	151.1	132.7	109.1	88.1	65.8	46.2	32.0	9.0
15°	283.8	273.1	261.5	243.2	213.0	179.2	141.4	105.9	74.2	48.3	8.8
17.5°	369.0	364.8	347.6	322.7	285.8	242.1	195.6	147.0	100.1	63.2	8.2
20°	432.0	429.1	408.3	381.8	340.1	290.1	231.1	172.7	118.1	72.7	7.3
22.5°	462.3	461.9	446.8	419.7	375.6	318.9	253.9	187.5	123.7	74.0	6.1
25°	458.4	460.2	451.6	431.5	389.1	330.8	260.7	187.5	119.6	68.5	5.1
27.5°	440.2	441.4	436.1	420.6	381.2	322.2	251.2	175.5	107.8	58.9	4.2
30°	427.8	428.3	421.6	405.1	363.2	302.7	228.9	153.2	89.8	47.2	3.1
32.5°	412.6	412.5	404.8	385.9	339.7	275.3	200.6	126.6	69.0	35.9	1.8
35°	390.5	388.0	377.5	355.7	304.7	238.4	164.4	96.4	49.7	25.4	1.1
37.5°	360.2	353.7	338.7	309.6	255.5	187.0	121.9	67.7	34.0	16.8	0.7
40°	311.5	304.6	284.3	248.8	193.2	134.6	82.2	44.1	21.4	10.1	0.4
42.5°	244.2	239.5	212.2	176.8	127.6	85.9	49.4	26.1	12.1	5.8	0.1
45°	168.7	162.6	141.1	111.2	76.6	47.6	27.7	13.6	6.9	3.5	0.0
47.5°	93.1	85.7	73.2	57.6	38.5	25.0	13.9	7.4	3.9	1.7	0.0
50°	37.3	37.0	29.4	20.9	14.7	11.4	7.0	4.0	2.0	0.6	0.1
52.5°	13.0	13.0	11.3	9.2	7.2	5.2	3.5	1.9	0.7	0.2	0.1
55°	2.9	3.2	3.0	2.8	2.7	2.3	1.5	0.7	0.2	0.0	0.1
57.5°	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.2	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	0.2
62.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
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	0.1	0.3
75°	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	5.2	5.2	5.2	5.2	5.2
2.5°	5.2	4.1	3.4	3.0	2.9
5°	4.9	3.1	2.2	1.9	1.8
7.5°	4.4	2.3	1.5	1.2	1.1
10°	3.8	1.7	1.0	0.7	0.7
12.5°	3.2	1.3	0.6	0.3	0.2
15°	2.6	0.8	0.2	0.1	0.1
17.5°	2.0	0.5	0.0	0.0	0.0
20°	1.6	0.2	0.0	0.0	0.0
22.5°	1.2	0.1	0.0	0.0	0.0
25°	0.8	0.0	0.0	0.0	0.0
27.5°	0.5	0.0	0.0	0.0	0.0
30°	0.3	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	0.2	0.2
50°	0.1	0.1	0.1	0.2	0.3
52.5°	0.2	0.1	0.2	0.3	0.3
55°	0.2	0.2	0.3	0.4	0.4
57.5°	0.2	0.2	0.3	0.4	0.4
60°	0.2	0.2	0.3	0.4	0.5
62.5°	0.3	0.3	0.3	0.4	0.4
65°	0.3	0.3	0.3	0.4	0.5
67.5°	0.3	0.3	0.3	0.4	0.5
70°	0.3	0.3	0.3	0.4	0.4
72.5°	0.4	0.3	0.3	0.4	0.4
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.2	0.3	0.3
80°	0.3	0.2	0.2	0.2	0.2
82.5°	0.3	0.2	0.2	0.2	0.2
85°	0.3	0.2	0.1	0.1	0.1
87.5°	0.3	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)