

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: P1334186

Luminaire Tested: P3A02R159840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

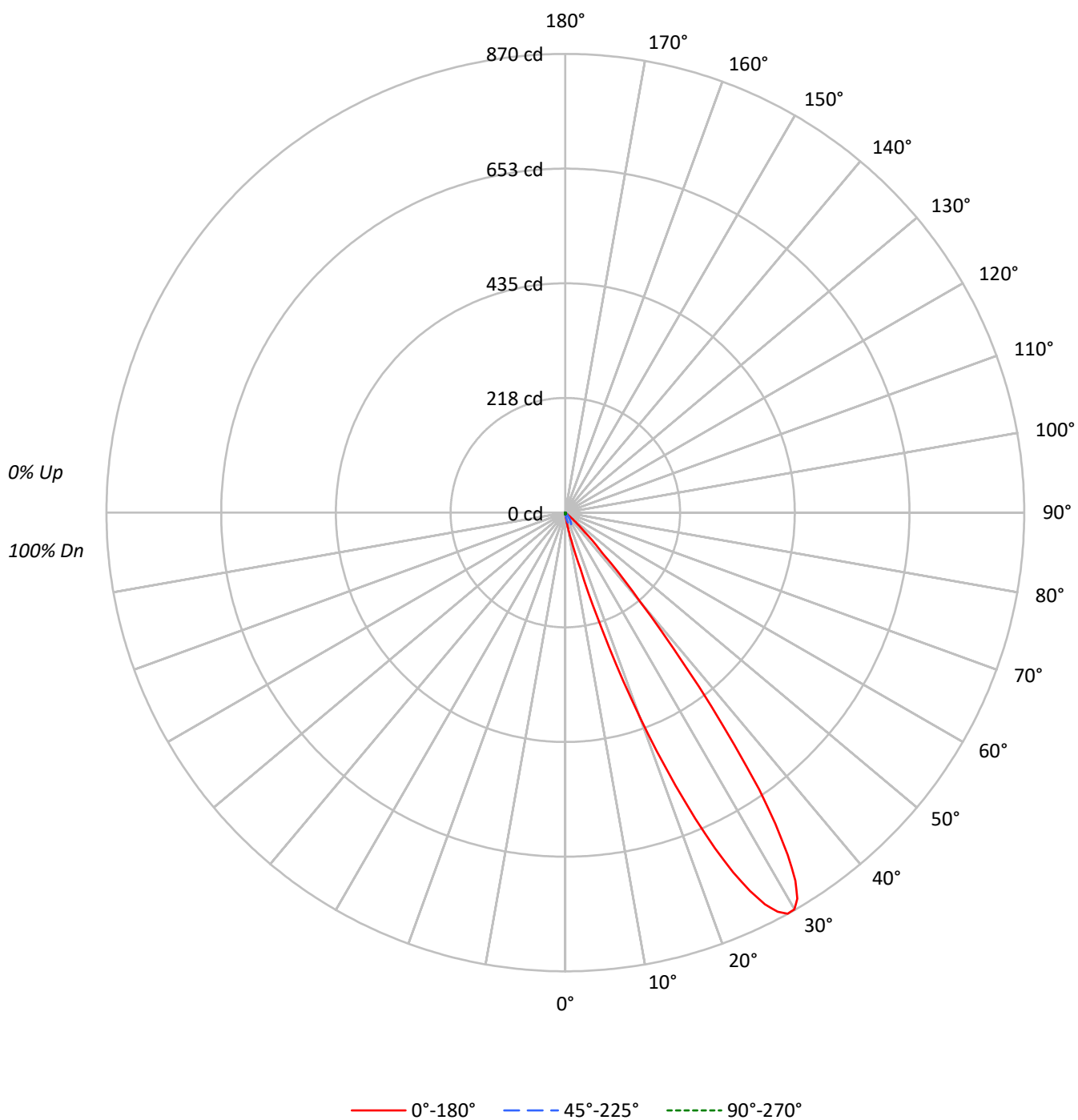
Lumens per Lamp: N/A
Luminaire Lumens: 95.1 lumens
Efficiency: N/A
Efficacy: 26.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	680	680	680	680	680
5°	1475	1101	660	352	286
10°	6591	2071	512	134	111
15°	24904	4813	363	68	45
20°	95768	6767	210	23	23
25°	182115	6339	121	0	0
30°	219983	5115	51	0	0
35°	171591	3480	27	0	0
40°	62603	1718	29	0	29
45°	16064	527	31	0	62
50°	2695	68	34	34	102
55°	344	0	76	115	191
60°	44	44	132	175	263
65°	52	52	208	259	311
70°	64	64	256	256	321
75°	85	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16064 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	7.3	7.7
20°-30°	40.4	42.5
30°-40°	39.0	41.0
40°-50°	6.8	7.1
50°-60°	0.5	0.5
60°-70°	0.3	0.3
70°-80°	0.3	0.3
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°	48.1	50.6
0°-40°	87.1	91.6
0°-60°	94.4	99.3
0°-90°	95.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	95.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	7	5	3	2	1	1
15°	110	21	2	0	0	49
25°	753	26	0	0	0	337
35°	641	13	0	0	0	369
45°	52	2	0	0	0	56
55°	1	0	0	0	0	2
65°	0	0	0	0	1	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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
2.5°	4.6	4.4	4.5	4.5	4.5	4.5	4.5	4.3	4.3	4.4	4.0
5°	6.7	6.7	6.7	6.7	6.7	6.7	6.5	6.4	6.4	6.2	5.0
7.5°	13.5	13.3	13.3	13.1	12.2	11.9	11.7	11.3	10.4	10.3	6.5
10°	29.6	29.7	29.0	28.2	28.1	26.7	26.2	25.4	23.8	22.3	9.3
12.5°	53.7	52.5	50.9	51.0	48.3	47.4	45.3	43.0	40.6	38.1	15.3
15°	109.7	106.3	108.3	103.3	97.7	91.3	84.8	76.7	69.8	62.4	21.2
17.5°	231.0	234.4	228.7	207.4	194.2	178.8	157.1	136.1	118.2	103.8	25.9
20°	410.4	415.3	396.2	377.6	345.7	311.0	274.7	233.7	194.4	160.4	29.0
21°	485.3	482.4	474.5	444.8	408.0	367.7	323.3	278.1	230.5	186.3	29.3
22°	557.8	559.2	540.9	509.7	471.5	426.8	372.7	316.8	265.5	207.4	28.8
23°	630.0	634.4	610.2	581.0	532.8	482.5	419.8	359.5	296.1	231.5	27.9
24°	696.8	693.7	677.4	640.6	589.1	530.2	465.1	391.9	321.2	252.1	27.2
25°	752.7	752.3	726.6	690.9	632.0	566.7	495.0	418.4	342.8	266.1	26.2
26°	798.4	790.9	770.7	727.1	669.0	600.0	519.4	437.8	354.9	273.1	25.3
27°	833.7	828.4	801.2	755.8	695.1	618.9	535.2	447.4	360.4	275.4	24.1
28°	857.5	851.7	822.7	776.0	709.5	630.7	543.5	451.4	360.4	273.2	23.0
29°	869.8	861.8	833.0	782.9	712.9	632.1	541.4	447.5	354.8	266.3	21.7
30°	868.8	859.0	828.7	776.6	703.0	620.7	530.1	433.1	342.0	256.2	20.2
31°	853.9	842.8	809.1	755.4	682.5	599.3	508.6	413.9	324.5	242.9	18.8
32°	823.5	809.4	776.5	723.0	651.1	567.2	477.5	384.2	298.4	223.6	17.2
33°	773.9	759.8	724.5	674.3	608.6	526.6	436.2	352.4	268.6	200.6	15.9
34°	711.9	699.0	668.6	618.0	555.0	475.1	388.7	308.3	237.8	177.8	14.5
35°	641.0	620.4	592.8	552.8	491.3	411.0	337.4	267.3	206.0	153.9	13.0
36°	544.9	548.6	519.4	470.5	419.5	356.5	285.9	222.8	172.3	131.1	11.7
37°	459.8	454.0	435.4	397.6	353.2	290.6	239.6	188.9	144.9	110.9	10.4
38°	370.9	372.2	354.0	324.9	280.9	239.0	192.9	155.2	121.2	94.4	9.1
39°	290.4	289.3	284.4	257.5	217.6	190.1	156.3	128.6	101.0	79.6	7.7
40°	218.7	220.4	208.9	192.7	169.5	146.8	124.5	102.6	83.5	67.1	6.0
42.5°	106.4	109.0	101.4	97.2	87.0	78.1	65.9	53.8	45.7	39.6	2.7
45°	51.8	50.4	49.7	47.7	45.3	40.5	35.9	30.8	26.9	23.2	1.7
47.5°	26.5	25.8	25.8	25.0	24.1	22.5	20.2	18.6	16.7	14.4	0.6
50°	7.9	7.9	7.8	7.9	7.6	7.9	8.0	8.1	7.4	7.3	0.2
52.5°	3.1	3.2	3.1	3.4	3.4	3.3	3.4	3.3	3.2	2.9	0.0
55°	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.1	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	3.1	3.1	3.1	3.1	3.1	3.1
2.5°	3.7	3.2	2.7	2.2	2.0	1.9
5°	4.0	3.0	2.0	1.6	1.4	1.3
7.5°	4.3	2.7	1.6	1.1	0.8	0.7
10°	4.4	2.3	1.2	0.6	0.5	0.5
12.5°	4.4	1.8	0.8	0.4	0.3	0.3
15°	4.3	1.6	0.6	0.3	0.2	0.2
17.5°	4.3	1.2	0.4	0.2	0.1	0.2
20°	4.0	0.9	0.2	0.1	0.1	0.1
21°	3.9	0.8	0.2	0.1	0.1	0.1
22°	3.7	0.7	0.1	0.0	0.1	0.1
23°	3.5	0.6	0.1	0.0	0.0	0.0
24°	3.2	0.5	0.1	0.0	0.0	0.0
25°	3.0	0.5	0.1	0.0	0.0	0.0
26°	2.9	0.3	0.0	0.0	0.0	0.0
27°	2.6	0.2	0.0	0.0	0.0	0.0
28°	2.4	0.2	0.0	0.0	0.0	0.0
29°	2.1	0.2	0.0	0.0	0.0	0.0
30°	1.8	0.2	0.0	0.0	0.0	0.0
31°	1.5	0.1	0.0	0.0	0.0	0.0
32°	1.2	0.1	0.0	0.0	0.0	0.0
33°	0.8	0.1	0.0	0.0	0.0	0.0
34°	0.6	0.1	0.0	0.0	0.0	0.0
35°	0.5	0.1	0.0	0.0	0.0	0.0
36°	0.3	0.1	0.0	0.0	0.0	0.1
37°	0.3	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.2	0.3	0.4
55°	0.1	0.2	0.2	0.3	0.4	0.5
57.5°	0.1	0.3	0.3	0.4	0.5	0.5
60°	0.2	0.3	0.4	0.4	0.6	0.6
62.5°	0.2	0.4	0.4	0.4	0.6	0.6
65°	0.2	0.4	0.4	0.5	0.6	0.6
67.5°	0.2	0.4	0.4	0.4	0.5	0.6
70°	0.2	0.4	0.3	0.4	0.5	0.5
72.5°	0.2	0.4	0.3	0.3	0.4	0.5
75°	0.2	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)