

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: P1342562

Luminaire Tested: P3A09R409835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342562
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: P3A09R409835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

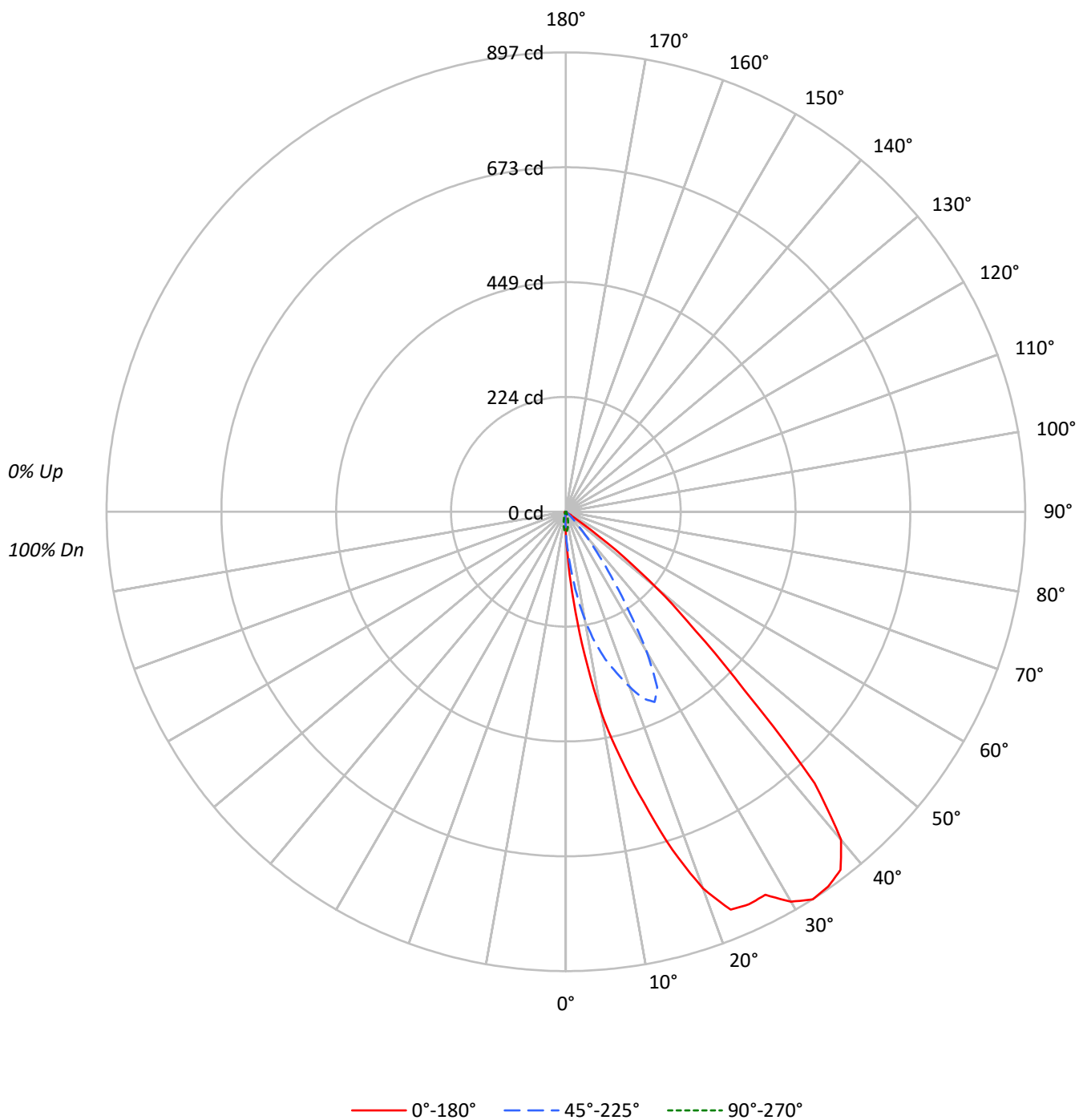
Lumens per Lamp: N/A
Luminaire Lumens: 331.0 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8596	8596	8596	8596	8596
5°	38741	24697	7704	2950	2157
10°	88820	47717	5411	1069	802
15°	133304	67696	3360	568	499
20°	182529	84871	1960	327	397
25°	204617	99151	1016	266	339
30°	222566	80038	430	203	354
35°	239183	40957	161	294	455
40°	239277	16345	86	315	573
45°	152760	5458	186	527	775
50°	79315	682	273	682	955
55°	6843	115	306	841	1185
60°	263	132	351	965	1360
65°	311	156	571	1038	1453
70°	192	192	705	1090	1410
75°	254	254	678	1186	1694
80°	379	379	1010	1010	1389
85°	0	755	2013	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 152760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	2.3
10°-20°	44.8	13.5
20°-30°	98.1	29.6
30°-40°	111.8	33.8
40°-50°	59.0	17.8
50°-60°	7.0	2.1
60°-70°	1.3	0.4
70°-80°	1.0	0.3
80°-90°	0.5	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°	150.5	45.5
0°-40°	262.3	79.2
0°-60°	328.3	99.2
0°-90°	331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	331.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	176	112	35	13	10	24
15°	587	298	15	2	2	173
25°	846	410	4	1	1	390
35°	894	153	1	1	2	554
45°	493	18	1	2	2	397
55°	18	0	1	2	3	56
65°	1	0	1	2	3	1
75°	0	0	1	1	2	0
85°	0	0	1	1	1	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°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
2.5°	87.3	87.3	87.0	84.5	84.2	83.9	79.5	78.3	73.0	69.4	52.9
5°	176.0	172.0	171.8	167.3	159.7	149.7	143.2	132.9	122.8	112.2	65.2
7.5°	280.3	283.7	274.4	269.7	252.9	240.9	222.4	206.2	183.5	162.3	75.3
10°	398.9	393.1	383.8	374.6	356.4	334.9	307.5	278.6	245.9	214.3	80.8
12.5°	491.5	484.0	478.4	465.8	447.9	420.2	387.5	348.9	305.5	259.9	80.6
15°	587.2	579.7	567.1	555.9	529.3	498.2	462.7	411.8	358.6	298.2	74.7
17.5°	692.4	682.6	668.6	651.6	625.8	591.4	546.4	484.3	409.0	329.6	64.1
20°	782.2	776.3	762.3	742.2	717.0	683.4	631.4	562.6	470.8	363.7	50.9
22.5°	840.9	835.6	826.1	808.5	789.5	753.7	706.1	630.6	522.6	394.7	38.6
25°	845.7	843.5	840.9	835.1	823.6	798.1	751.7	670.3	554.8	409.8	28.5
27.5°	843.2	842.3	841.8	838.7	831.2	806.0	758.4	676.2	550.6	386.3	21.0
30°	879.0	876.5	875.1	865.0	845.1	806.3	744.1	644.6	489.3	316.1	15.1
32.5°	897.2	896.6	895.2	885.4	857.5	806.8	720.1	568.2	388.0	228.3	10.4
35°	893.5	890.7	885.7	867.5	828.6	765.1	642.3	453.8	280.0	153.0	6.7
37.5°	881.2	874.8	865.0	832.3	780.5	693.8	520.9	334.0	190.5	99.0	3.9
40°	835.9	827.2	811.8	771.8	703.9	571.8	385.2	225.8	125.1	57.1	1.1
42.5°	718.7	707.5	696.3	651.6	573.8	426.3	253.5	139.6	71.3	31.3	0.3
45°	492.6	478.7	463.3	430.8	368.4	258.2	150.8	78.6	36.9	17.6	0.3
47.5°	342.1	335.7	308.8	267.4	205.1	136.8	78.1	38.6	19.6	8.1	0.3
50°	232.5	225.2	193.9	153.9	109.1	65.5	35.8	19.3	8.7	2.0	0.3
52.5°	122.0	113.0	93.2	71.1	44.2	27.4	15.7	8.4	2.5	0.3	0.3
55°	17.9	16.5	13.4	10.9	9.8	7.6	4.5	2.0	0.3	0.3	0.6
57.5°	0.6	0.6	0.6	0.6	0.8	0.8	0.6	0.3	0.3	0.3	0.6
60°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6
67.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
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°	39.2	39.2	39.2	39.2	39.2
2.5°	38.6	28.5	22.1	19.0	18.7
5°	35.0	20.4	13.4	10.4	9.8
7.5°	29.7	14.3	7.8	5.6	5.3
10°	24.3	9.8	4.8	3.9	3.6
12.5°	19.3	6.4	3.4	3.1	2.8
15°	14.8	4.2	2.5	2.2	2.2
17.5°	11.2	2.8	2.0	2.0	2.0
20°	8.4	2.0	1.4	1.7	1.7
22.5°	5.9	1.4	1.1	1.4	1.4
25°	4.2	1.1	1.1	1.4	1.4
27.5°	2.8	0.8	0.8	1.1	1.4
30°	1.7	0.6	0.8	1.1	1.4
32.5°	0.8	0.6	0.8	1.4	1.4
35°	0.6	0.8	1.1	1.4	1.7
37.5°	0.3	0.8	1.1	1.7	1.7
40°	0.3	0.8	1.1	1.7	2.0
42.5°	0.6	1.1	1.4	2.0	2.2
45°	0.6	1.1	1.7	2.2	2.5
47.5°	0.6	1.1	2.0	2.5	2.5
50°	0.8	1.4	2.0	2.5	2.8
52.5°	0.8	1.4	2.0	2.8	3.1
55°	0.8	1.4	2.2	2.8	3.1
57.5°	0.8	1.7	2.2	2.8	3.1
60°	0.8	1.4	2.2	2.8	3.1
62.5°	1.1	1.4	2.0	2.8	2.8
65°	1.1	1.4	2.0	2.8	2.8
67.5°	1.1	1.4	2.0	2.5	2.5
70°	1.1	1.4	1.7	2.2	2.2
72.5°	1.1	1.4	1.7	2.0	2.2
75°	0.8	1.1	1.4	1.7	2.0
77.5°	0.8	1.1	1.1	1.7	1.7
80°	0.8	0.8	0.8	1.1	1.1
82.5°	0.8	0.8	0.6	0.8	0.8
85°	0.8	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)