

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: P1342578

Luminaire Tested: P3A09R409840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342578
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: P3A09R409840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

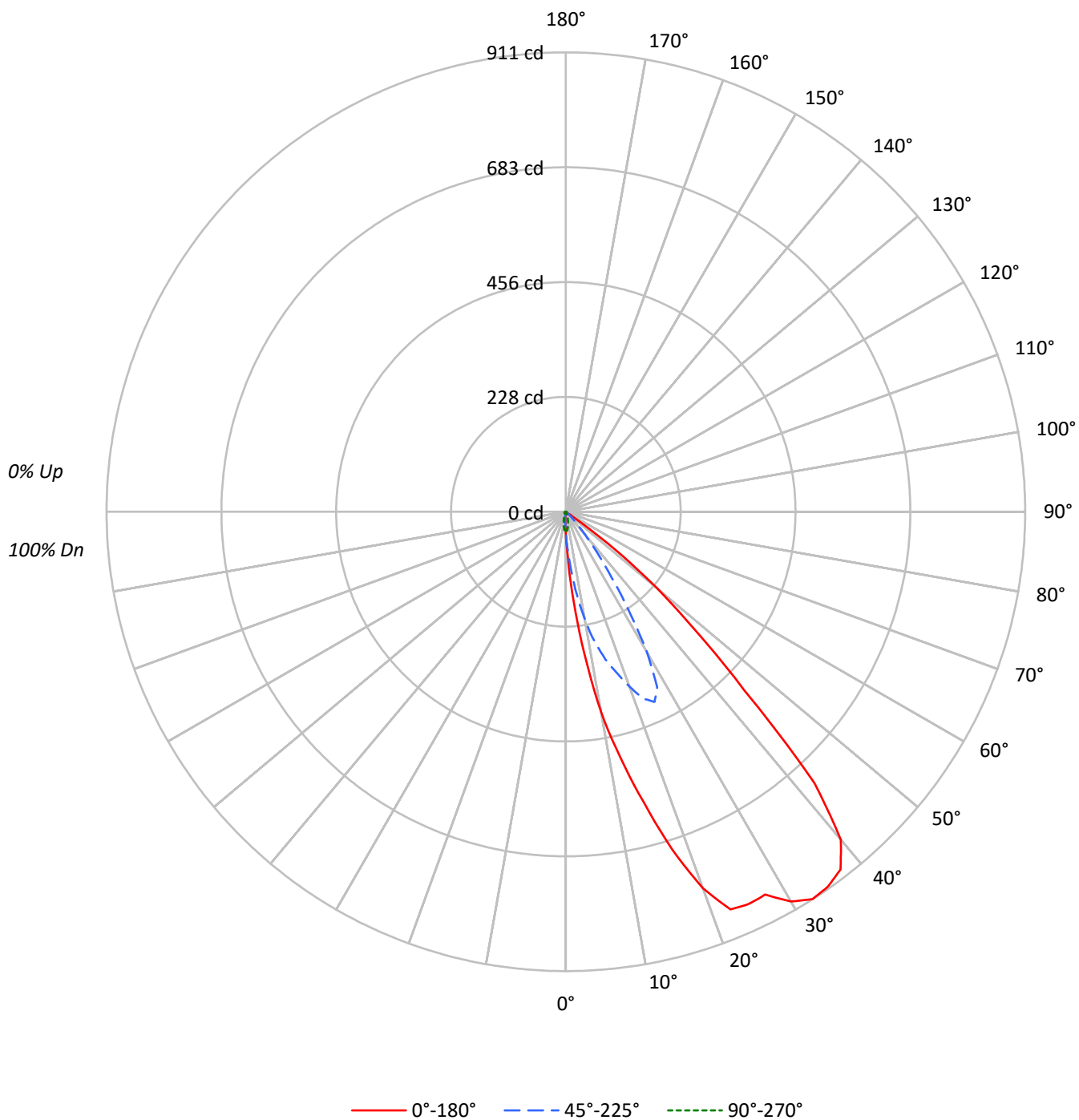
Lumens per Lamp: N/A
Luminaire Lumens: 336.1 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	8727	8727	8727	8727	8727
5°	39313	25071	7814	2994	2179
10°	90179	48429	5500	1069	824
15°	135324	68718	3428	590	522
20°	185283	86154	1984	327	397
25°	207714	100651	1040	266	339
30°	225933	81253	430	228	354
35°	242797	41573	161	294	455
40°	242884	16574	86	315	573
45°	155086	5551	186	527	806
50°	80509	682	307	682	955
55°	6958	115	344	879	1185
60°	263	132	395	1009	1360
65°	311	156	571	1038	1453
70°	192	192	705	1090	1475
75°	254	254	763	1186	1694
80°	379	379	1137	1137	1389
85°	0	755	2264	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 155086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	2.3
10°-20°	45.5	13.5
20°-30°	99.6	29.6
30°-40°	113.5	33.8
40°-50°	59.9	17.8
50°-60°	7.1	2.1
60°-70°	1.3	0.4
70°-80°	1.1	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°	152.8	45.5
0°-40°	266.3	79.2
0°-60°	333.2	99.2
0°-90°	336.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	336.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	179	114	36	14	10	24
15°	596	303	15	3	2	176
25°	858	416	4	1	1	396
35°	907	155	1	1	2	562
45°	500	18	1	2	3	403
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°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
2.5°	88.6	88.6	88.3	85.8	85.5	85.2	80.7	79.5	74.1	70.4	53.7
5°	178.6	174.6	174.4	169.8	162.2	151.9	145.4	134.9	124.7	113.9	66.2
7.5°	284.5	288.0	278.6	273.8	256.7	244.5	225.8	209.3	186.3	164.7	76.4
10°	405.0	399.0	389.6	380.3	361.8	339.9	312.1	282.8	249.6	217.5	82.1
12.5°	499.0	491.3	485.6	472.8	454.7	426.5	393.3	354.1	310.1	263.8	81.8
15°	596.1	588.4	575.6	564.3	537.3	505.8	469.7	418.0	364.1	302.7	75.8
17.5°	702.9	692.9	678.7	661.4	635.3	600.3	554.6	491.6	415.2	334.5	65.0
20°	794.0	788.0	773.8	753.4	727.8	693.8	640.9	571.1	477.9	369.2	51.7
22.5°	853.6	848.3	838.6	820.7	801.4	765.0	716.8	640.1	530.5	400.7	39.2
25°	858.5	856.2	853.6	847.7	836.0	810.2	763.1	680.4	563.1	416.0	29.0
27.5°	855.9	855.1	854.5	851.4	843.7	818.1	769.9	686.4	558.9	392.2	21.3
30°	892.3	889.7	888.3	878.1	857.9	818.4	755.4	654.3	496.7	320.9	15.3
32.5°	910.7	910.2	908.7	898.8	870.4	819.0	731.0	576.8	393.9	231.7	10.5
35°	907.0	904.2	899.1	880.6	841.2	776.7	652.0	460.6	284.3	155.3	6.8
37.5°	894.5	888.0	878.1	844.8	792.3	704.3	528.8	339.1	193.4	100.5	4.0
40°	848.5	839.7	824.1	783.5	714.5	580.5	391.0	229.2	126.9	57.9	1.1
42.5°	729.5	718.2	706.8	661.4	582.4	432.8	257.3	141.7	72.4	31.8	0.3
45°	500.1	485.9	470.3	437.3	374.0	262.1	153.1	79.8	37.5	17.9	0.3
47.5°	347.3	340.8	313.5	271.5	208.2	138.9	79.2	39.2	19.9	8.2	0.3
50°	236.0	228.6	196.8	156.2	110.8	66.5	36.3	19.6	8.8	2.0	0.3
52.5°	123.8	114.7	94.6	72.1	44.9	27.8	15.9	8.5	2.6	0.3	0.3
55°	18.2	16.8	13.6	11.1	9.9	7.7	4.5	2.0	0.3	0.3	0.6
57.5°	0.6	0.6	0.6	0.6	0.9	0.9	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	0.9
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.9
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.9
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	0.9
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°	39.8	39.8	39.8	39.8	39.8
2.5°	39.2	29.0	22.4	19.3	19.0
5°	35.5	20.7	13.6	10.5	9.9
7.5°	30.1	14.5	8.0	5.7	5.4
10°	24.7	9.9	4.8	4.0	3.7
12.5°	19.6	6.5	3.4	3.1	2.8
15°	15.1	4.3	2.6	2.3	2.3
17.5°	11.4	2.8	2.0	2.0	2.0
20°	8.5	2.0	1.4	1.7	1.7
22.5°	6.0	1.4	1.1	1.4	1.4
25°	4.3	1.1	1.1	1.4	1.4
27.5°	2.8	0.9	0.9	1.1	1.4
30°	1.7	0.6	0.9	1.1	1.4
32.5°	0.9	0.6	0.9	1.4	1.4
35°	0.6	0.9	1.1	1.4	1.7
37.5°	0.3	0.9	1.1	1.7	1.7
40°	0.3	0.9	1.1	1.7	2.0
42.5°	0.6	1.1	1.4	2.0	2.3
45°	0.6	1.1	1.7	2.3	2.6
47.5°	0.6	1.1	2.0	2.6	2.6
50°	0.9	1.4	2.0	2.6	2.8
52.5°	0.9	1.4	2.0	2.8	3.1
55°	0.9	1.4	2.3	2.8	3.1
57.5°	0.9	1.7	2.3	2.8	3.1
60°	0.9	1.4	2.3	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	2.6	2.6
70°	1.1	1.4	1.7	2.3	2.3
72.5°	1.1	1.4	1.7	2.0	2.3
75°	0.9	1.1	1.4	1.7	2.0
77.5°	0.9	1.1	1.1	1.7	1.7
80°	0.9	0.9	0.9	1.1	1.1
82.5°	0.9	0.9	0.6	0.9	0.9
85°	0.9	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)