

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: P1342066

Luminaire Tested: P3A09R359840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R359840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

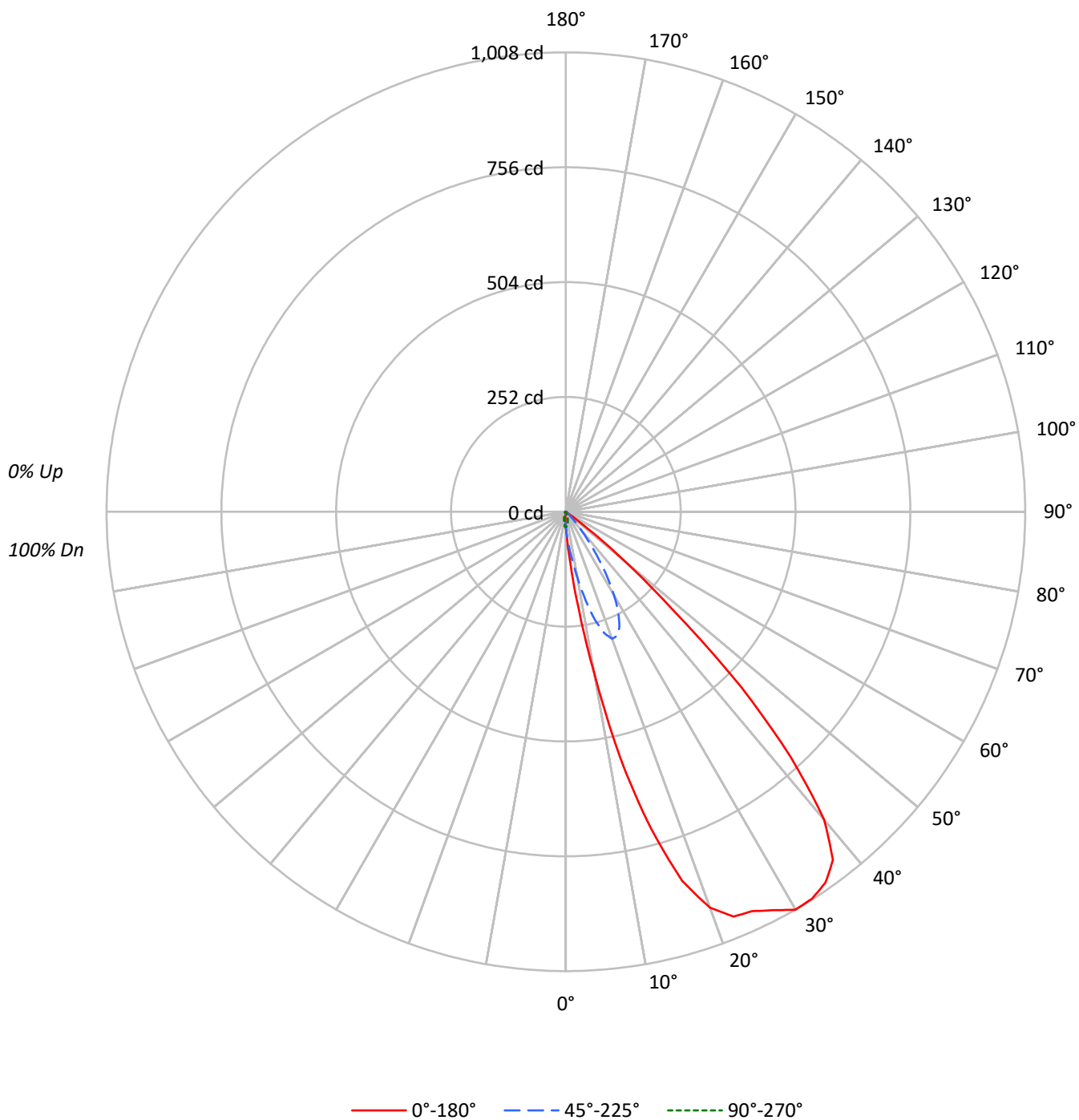
Lumens per Lamp: N/A
Luminaire Lumens: 317.1 lumens
Efficiency: N/A
Efficacy: 28.8 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74		
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	60		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	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°	7302	7302	7302	7302	7302
5°	24873	16157	6824	2884	2135
10°	80025	32754	5388	1069	690
15°	163043	55551	3814	386	250
20°	215619	69189	2450	140	140
25°	233941	67262	1379	73	145
30°	255204	53603	582	76	152
35°	265926	33354	161	80	161
40°	252359	14570	86	172	258
45°	168452	5830	93	279	434
50°	56493	955	205	375	580
55°	3173	115	229	535	765
60°	263	132	395	614	877
65°	311	156	467	726	1038
70°	192	192	577	898	1090
75°	254	254	763	932	1186
80°	0	379	1137	1137	1137
85°	0	755	2264	755	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 168452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	1.8
10°-20°	45.5	14.4
20°-30°	96.1	30.3
30°-40°	109.0	34.4
40°-50°	53.7	16.9
50°-60°	4.7	1.5
60°-70°	1.0	0.3
70°-80°	0.9	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°	147.4	46.5
0°-40°	256.4	80.9
0°-60°	314.8	99.3
0°-90°	317.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	317.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	113	73	31	13	10	19
15°	718	245	17	2	1	204
25°	967	278	6	0	1	450
35°	993	125	1	0	1	612
45°	543	19	0	1	1	401
55°	8	0	1	1	2	32
65°	1	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	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°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
2.5°	57.8	59.2	58.6	58.3	58.1	56.9	54.4	54.1	51.5	49.8	41.3
5°	113.0	110.7	111.3	108.1	104.1	98.5	94.8	86.8	80.2	73.4	48.1
7.5°	212.9	209.7	203.7	194.6	185.2	173.0	154.5	139.7	122.6	106.4	53.5
10°	359.4	357.7	350.0	326.7	306.2	273.5	242.7	210.3	178.4	147.1	57.2
12.5°	555.2	543.5	529.6	498.5	458.1	417.2	356.6	300.5	249.6	197.2	57.5
15°	718.2	710.8	691.2	650.8	602.1	542.9	470.9	395.5	318.7	244.7	54.6
17.5°	849.4	838.0	812.7	773.1	717.1	640.3	556.0	464.1	370.5	278.6	49.8
20°	924.0	918.0	898.6	859.1	797.9	714.0	618.1	511.1	402.9	296.5	43.5
22.5°	961.5	957.3	943.0	911.4	854.2	769.7	659.9	535.5	412.3	294.5	37.0
25°	966.9	965.8	953.6	929.7	881.8	798.2	678.1	540.1	404.6	278.0	30.7
27.5°	985.7	981.7	967.2	943.3	895.2	803.0	671.8	524.4	379.9	249.0	25.6
30°	1007.9	1005.1	990.6	965.8	908.9	798.5	649.6	489.7	340.3	211.7	19.1
32.5°	1006.2	1005.1	992.8	966.6	899.2	771.7	610.1	437.7	286.6	167.0	12.0
35°	993.4	989.4	974.0	933.6	844.0	702.9	535.0	367.1	226.8	124.6	7.7
37.5°	962.7	954.1	928.2	859.7	745.3	596.7	435.7	283.4	160.5	83.4	4.8
40°	881.6	870.8	818.7	735.9	616.1	470.1	324.1	194.9	105.9	50.9	2.0
42.5°	731.3	709.4	657.3	572.2	459.8	332.4	212.9	126.3	62.3	30.7	0.6
45°	543.2	526.4	471.8	394.7	301.3	213.1	128.9	68.3	34.4	18.8	0.3
47.5°	316.4	306.2	278.0	227.4	166.5	111.8	66.0	36.7	20.2	9.1	0.3
50°	165.6	152.8	131.5	99.6	73.4	51.5	32.2	19.6	10.0	2.8	0.3
52.5°	58.1	57.2	52.1	39.3	31.9	23.0	15.7	8.5	2.8	0.6	0.3
55°	8.3	8.3	7.7	8.5	9.1	8.3	5.4	2.3	0.6	0.3	0.3
57.5°	0.6	0.6	0.6	0.9	1.1	1.1	0.9	0.3	0.3	0.3	0.6
60°	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
62.5°	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
65°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
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	0.3	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°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.6
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°	33.3	33.3	33.3	33.3	33.3
2.5°	33.0	26.5	21.1	18.5	17.6
5°	31.0	19.9	13.1	10.2	9.7
7.5°	27.6	14.2	8.0	5.7	5.4
10°	24.2	10.2	4.8	3.4	3.1
12.5°	20.2	7.1	3.1	2.0	1.7
15°	16.8	4.8	1.7	1.4	1.1
17.5°	13.4	3.1	1.1	0.9	1.1
20°	10.5	2.0	0.6	0.6	0.6
22.5°	8.0	1.1	0.6	0.6	0.6
25°	5.7	0.6	0.3	0.3	0.6
27.5°	4.0	0.3	0.3	0.3	0.6
30°	2.3	0.3	0.3	0.3	0.6
32.5°	1.1	0.3	0.3	0.6	0.6
35°	0.6	0.3	0.3	0.6	0.6
37.5°	0.3	0.3	0.3	0.6	0.9
40°	0.3	0.3	0.6	0.9	0.9
42.5°	0.3	0.3	0.6	0.9	1.1
45°	0.3	0.6	0.9	1.1	1.4
47.5°	0.6	0.6	1.1	1.4	1.7
50°	0.6	0.9	1.1	1.7	1.7
52.5°	0.6	0.9	1.4	1.7	2.0
55°	0.6	1.1	1.4	2.0	2.0
57.5°	0.9	1.1	1.4	2.0	2.0
60°	0.9	1.1	1.4	2.0	2.0
62.5°	0.9	1.1	1.4	2.0	2.0
65°	0.9	1.1	1.4	2.0	2.0
67.5°	0.9	1.1	1.4	1.7	2.0
70°	0.9	1.1	1.4	1.7	1.7
72.5°	1.1	1.1	1.4	1.7	1.7
75°	0.9	1.1	1.1	1.4	1.4
77.5°	0.9	0.9	0.9	1.1	1.1
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.6	0.6	0.9	0.9
85°	0.9	0.6	0.3	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)