

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: P1342034

Luminaire Tested: P3A09R359830DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342034
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: P3A09R359830DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

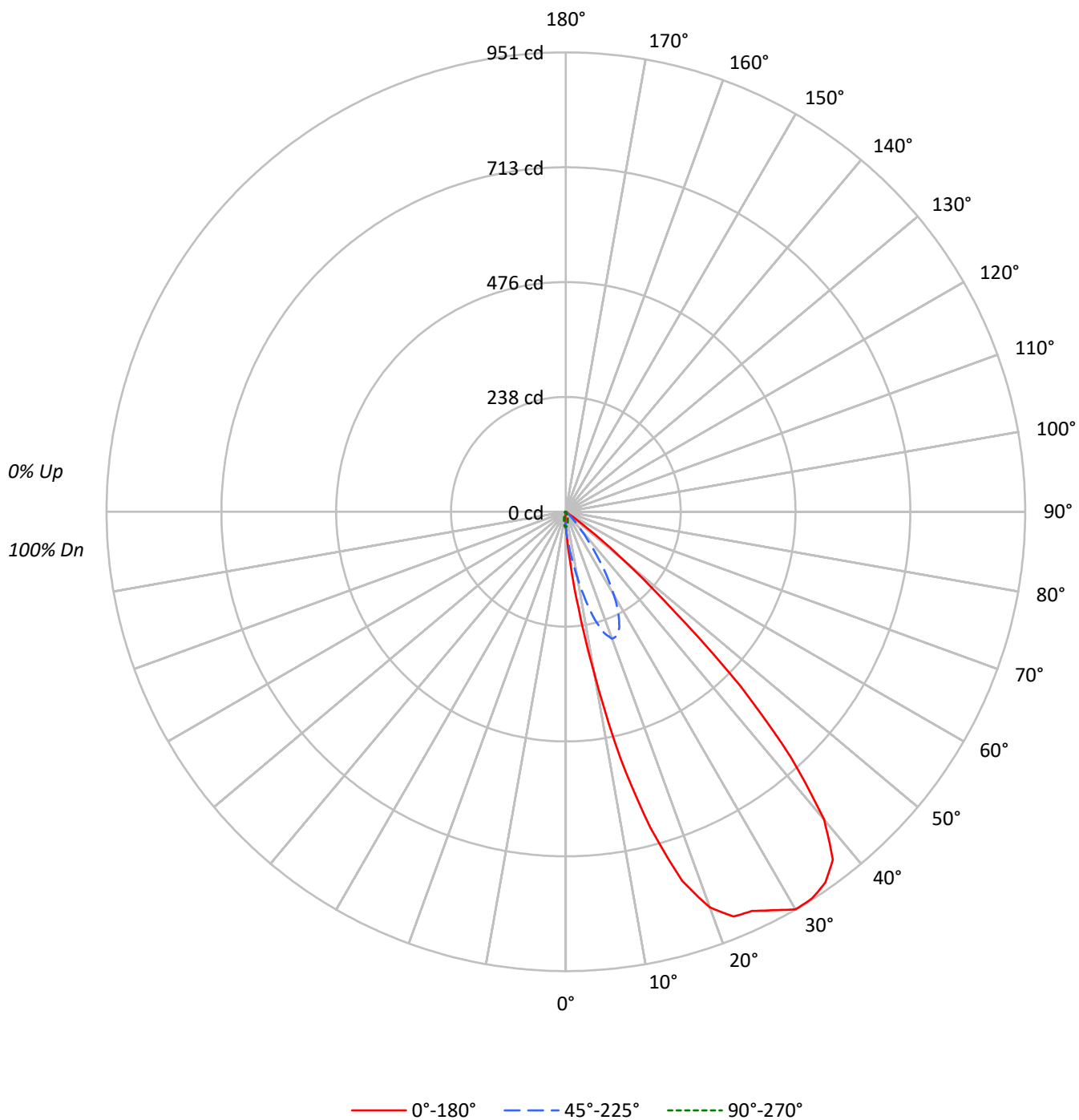
Lumens per Lamp: N/A
Luminaire Lumens: 299.0 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1342034

CATALOG NUMBER: P3A09R359830DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1342034

CATALOG NUMBER: P3A09R359830DE010 E3A301WMH

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	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	83	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	61
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°	6885	6885	6885	6885	6885
5°	23465	15232	6449	2707	2003
10°	75483	30906	5077	1024	668
15°	153781	52395	3587	363	250
20°	203368	65269	2310	117	117
25°	220658	63439	1307	73	121
30°	240721	50565	532	76	127
35°	250828	31481	134	80	134
40°	238017	13740	86	143	229
45°	158900	5489	93	248	403
50°	53286	921	171	375	546
55°	2982	115	191	497	726
60°	219	132	351	570	833
65°	259	156	415	675	986
70°	192	192	513	833	1026
75°	254	254	678	932	1101
80°	0	379	1010	1010	1010
85°	0	755	2013	755	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 158900 cd/sqm

TEST NUMBER: P1342034

CATALOG NUMBER: P3A09R359830DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	1.8
10°-20°	42.9	14.4
20°-30°	90.6	30.3
30°-40°	102.8	34.4
40°-50°	50.6	16.9
50°-60°	4.4	1.5
60°-70°	0.9	0.3
70°-80°	0.8	0.3
80°-90°	0.4	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°	139.0	46.5
0°-40°	241.9	80.9
0°-60°	296.9	99.3
0°-90°	299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	299.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	107	69	29	12	9	18
15°	677	231	16	2	1	193
25°	912	262	5	0	0	424
35°	937	118	0	0	0	577
45°	512	18	0	1	1	379
55°	8	0	0	1	2	31
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1342034

CATALOG NUMBER: P3A09R359830DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
2.5°	54.5	55.8	55.3	55.0	54.8	53.7	51.3	51.0	48.6	47.0	38.9
5°	106.6	104.4	104.9	102.0	98.2	92.9	89.4	81.9	75.7	69.2	45.4
7.5°	200.8	197.8	192.2	183.6	174.7	163.2	145.7	131.8	115.7	100.4	50.5
10°	339.0	337.4	330.1	308.1	288.8	257.9	228.9	198.3	168.3	138.8	53.9
12.5°	523.7	512.6	499.5	470.2	432.1	393.5	336.3	283.4	235.4	186.0	54.2
15°	677.4	670.5	651.9	613.8	567.9	512.1	444.2	373.1	300.6	230.8	51.5
17.5°	801.2	790.4	766.6	729.2	676.4	603.9	524.5	437.8	349.5	262.8	47.0
20°	871.5	865.9	847.6	810.3	752.6	673.4	583.0	482.0	380.1	279.7	41.1
22.5°	906.9	902.9	889.5	859.7	805.7	726.0	622.4	505.1	388.9	277.8	34.9
25°	912.0	911.0	899.4	876.9	831.8	752.9	639.6	509.4	381.7	262.2	29.0
27.5°	929.7	926.0	912.3	889.7	844.4	757.4	633.7	494.7	358.3	234.9	24.2
30°	950.7	948.0	934.3	911.0	857.3	753.1	612.8	461.9	321.0	199.7	18.0
32.5°	949.1	948.0	936.5	911.8	848.1	727.9	575.5	412.8	270.3	157.6	11.3
35°	937.0	933.2	918.7	880.6	796.1	663.0	504.6	346.2	213.9	117.6	7.2
37.5°	908.0	899.9	875.5	810.8	702.9	562.8	410.9	267.3	151.4	78.6	4.6
40°	831.5	821.3	772.2	694.1	581.1	443.4	305.7	183.9	99.8	48.0	1.9
42.5°	689.8	669.1	620.0	539.8	433.7	313.5	200.8	119.2	58.8	29.0	0.5
45°	512.4	496.5	445.0	372.3	284.2	201.0	121.6	64.4	32.5	17.7	0.3
47.5°	298.5	288.8	262.2	214.5	157.0	105.5	62.3	34.6	19.1	8.6	0.3
50°	156.2	144.1	124.0	93.9	69.2	48.6	30.3	18.5	9.4	2.7	0.3
52.5°	54.8	53.9	49.1	37.0	30.1	21.7	14.8	8.1	2.7	0.5	0.3
55°	7.8	7.8	7.2	8.1	8.6	7.8	5.1	2.1	0.5	0.3	0.3
57.5°	0.5	0.5	0.5	0.8	1.1	1.1	0.8	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
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	0.3	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°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1342034

CATALOG NUMBER: P3A09R359830DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	31.4	31.4	31.4	31.4	31.4
2.5°	31.1	25.0	19.9	17.4	16.6
5°	29.3	18.8	12.3	9.7	9.1
7.5°	26.0	13.4	7.5	5.4	5.1
10°	22.8	9.7	4.6	3.2	3.0
12.5°	19.1	6.7	3.0	1.9	1.6
15°	15.8	4.6	1.6	1.3	1.1
17.5°	12.6	3.0	1.1	0.8	1.1
20°	9.9	1.9	0.5	0.5	0.5
22.5°	7.5	1.1	0.5	0.5	0.5
25°	5.4	0.5	0.3	0.3	0.5
27.5°	3.8	0.3	0.3	0.3	0.5
30°	2.1	0.3	0.3	0.3	0.5
32.5°	1.1	0.3	0.3	0.5	0.5
35°	0.5	0.3	0.3	0.5	0.5
37.5°	0.3	0.3	0.3	0.5	0.8
40°	0.3	0.3	0.5	0.8	0.8
42.5°	0.3	0.3	0.5	0.8	1.1
45°	0.3	0.5	0.8	1.1	1.3
47.5°	0.5	0.5	1.1	1.3	1.6
50°	0.5	0.8	1.1	1.6	1.6
52.5°	0.5	0.8	1.3	1.6	1.9
55°	0.5	1.1	1.3	1.9	1.9
57.5°	0.8	1.1	1.3	1.9	1.9
60°	0.8	1.1	1.3	1.9	1.9
62.5°	0.8	1.1	1.3	1.9	1.9
65°	0.8	1.1	1.3	1.9	1.9
67.5°	0.8	1.1	1.3	1.6	1.9
70°	0.8	1.1	1.3	1.6	1.6
72.5°	1.1	1.1	1.3	1.6	1.6
75°	0.8	1.1	1.1	1.3	1.3
77.5°	0.8	0.8	0.8	1.1	1.1
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.5	0.5	0.8	0.8
85°	0.8	0.5	0.3	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)