

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: P1334122

Luminaire Tested: P3A02R159740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334122
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: P3A02R159740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

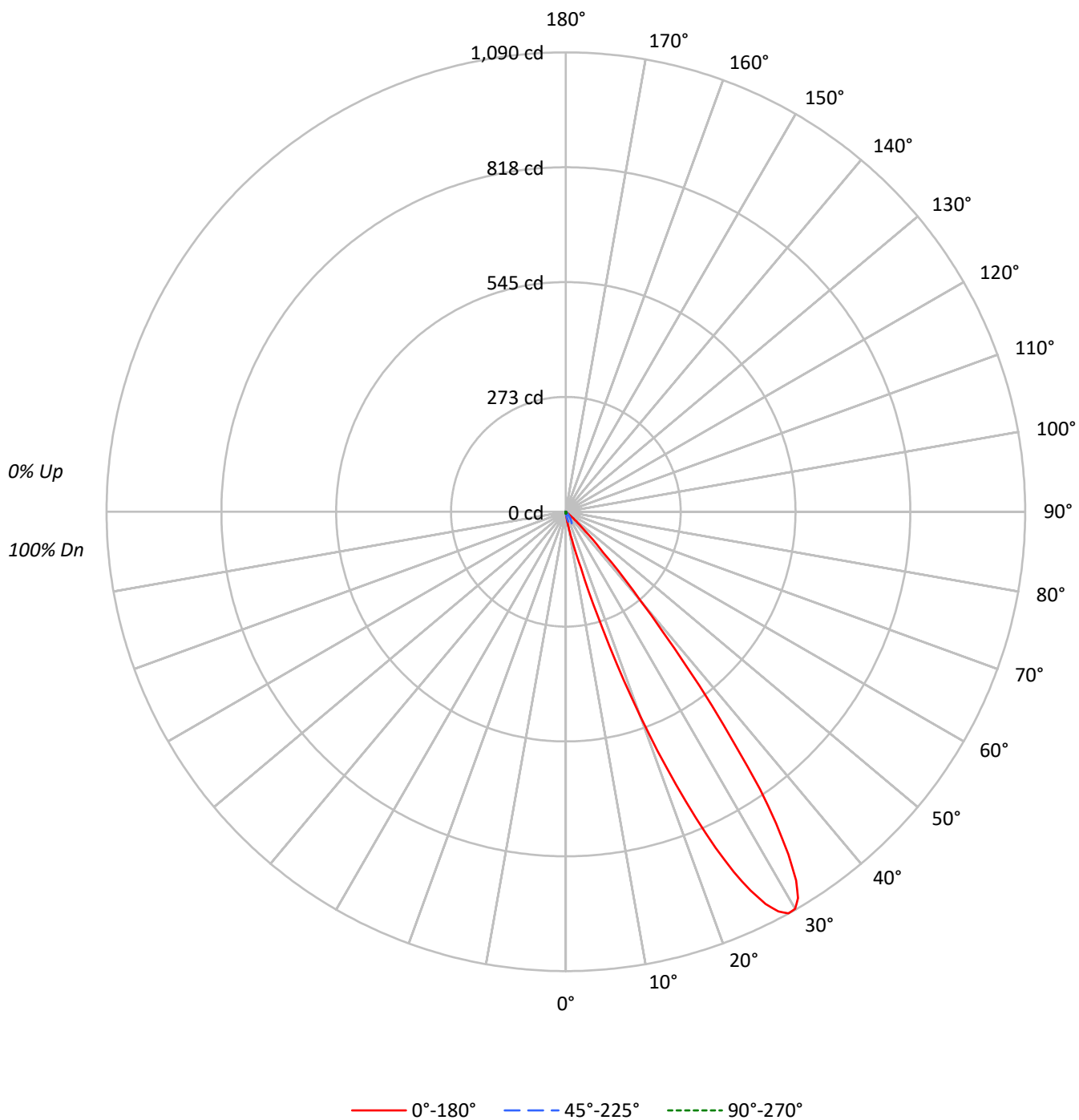
Lumens per Lamp: N/A
Luminaire Lumens: 118.9 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1334122

CATALOG NUMBER: P3A02R159740DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334122

CATALOG NUMBER: P3A02R159740DE010 E3A301WMH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	855	855	855	855	855
5°	1871	1387	814	440	352
10°	8239	2605	646	178	134
15°	31192	6016	454	68	45
20°	119967	8471	280	23	23
25°	228110	7960	145	0	0
30°	275561	6431	51	0	0
35°	214930	4363	27	0	0
40°	78433	2147	29	0	29
45°	20126	651	31	0	62
50°	3411	68	34	34	102
55°	459	0	76	115	229
60°	44	44	132	219	307
65°	52	52	259	311	363
70°	64	64	321	321	385
75°	85	85	424	254	424
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20126 cd/sqm

TEST NUMBER: P1334122

CATALOG NUMBER: P3A02R159740DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	9.1	7.7
20°-30°	50.6	42.5
30°-40°	48.9	41.1
40°-50°	8.5	7.1
50°-60°	0.6	0.5
60°-70°	0.4	0.3
70°-80°	0.3	0.2
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°	60.2	50.6
0°-40°	109.1	91.7
0°-60°	118.2	99.4
0°-90°	118.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	118.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	4	2	2	2
15°	137	26	2	0	0	61
25°	943	33	1	0	0	422
35°	803	16	0	0	0	462
45°	65	2	0	0	0	70
55°	1	0	0	0	1	2
65°	0	0	0	1	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1334122

CATALOG NUMBER: P3A02R159740DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
2.5°	5.8	5.6	5.7	5.7	5.7	5.7	5.7	5.4	5.4	5.6	5.0
5°	8.5	8.5	8.3	8.5	8.5	8.3	8.1	8.0	8.0	7.8	6.3
7.5°	16.9	16.7	16.7	16.4	15.3	14.9	14.7	14.1	13.1	12.8	8.1
10°	37.0	37.2	36.3	35.3	35.2	33.5	32.9	31.8	29.9	27.9	11.7
12.5°	67.3	65.8	63.8	63.9	60.5	59.4	56.7	53.8	50.8	47.7	19.2
15°	137.4	133.1	135.7	129.4	122.4	114.4	106.3	96.1	87.4	78.1	26.5
17.5°	289.4	293.6	286.5	259.8	243.3	224.0	196.8	170.5	148.1	130.0	32.4
20°	514.1	520.2	496.3	473.0	433.0	389.5	344.1	292.7	243.6	201.0	36.3
21°	608.0	604.3	594.4	557.1	511.1	460.6	405.0	348.3	288.7	233.4	36.7
22°	698.7	700.4	677.5	638.5	590.6	534.7	466.8	396.8	332.6	259.8	36.1
23°	789.1	794.7	764.3	727.8	667.5	604.4	525.9	450.3	370.9	290.0	35.0
24°	872.8	869.0	848.5	802.4	738.0	664.1	582.6	490.9	402.4	315.8	34.0
25°	942.8	942.4	910.2	865.4	791.7	709.8	620.0	524.1	429.3	333.3	32.9
26°	1000.1	990.8	965.4	910.8	838.0	751.6	650.7	548.3	444.5	342.1	31.7
27°	1044.4	1037.6	1003.6	946.8	870.7	775.2	670.3	560.4	451.5	345.0	30.2
28°	1074.1	1066.8	1030.6	972.0	888.8	790.0	680.8	565.5	451.5	342.2	28.8
29°	1089.5	1079.6	1043.4	980.7	893.0	791.8	678.2	560.5	444.4	333.6	27.2
30°	1088.3	1076.0	1038.1	972.8	880.6	777.5	664.0	542.6	428.4	320.9	25.4
31°	1069.6	1055.7	1013.5	946.2	855.0	750.7	637.1	518.5	406.5	304.3	23.5
32°	1031.5	1013.9	972.7	905.7	815.6	710.5	598.1	481.3	373.8	280.1	21.5
33°	969.5	951.8	907.5	844.7	762.4	659.6	546.4	441.4	336.5	251.3	19.9
34°	891.8	875.6	837.5	774.2	695.2	595.1	486.9	386.2	297.8	222.7	18.2
35°	802.9	777.1	742.6	692.5	615.5	514.8	422.6	334.8	258.0	192.7	16.3
36°	682.6	687.2	650.7	589.3	525.5	446.6	358.2	279.1	215.8	164.3	14.7
37°	576.0	568.7	545.4	498.0	442.4	364.1	300.2	236.6	181.5	138.9	13.0
38°	464.6	466.3	443.5	407.0	351.9	299.3	241.6	194.4	151.9	118.2	11.3
39°	363.7	362.4	356.3	322.5	272.6	238.1	195.7	161.1	126.5	99.7	9.6
40°	274.0	276.1	261.7	241.4	212.3	183.9	155.9	128.5	104.6	84.0	7.5
42.5°	133.2	136.5	127.0	121.8	108.9	97.8	82.5	67.4	57.3	49.5	3.4
45°	64.9	63.1	62.3	59.7	56.7	50.7	44.9	38.5	33.7	29.1	2.1
47.5°	33.2	32.3	32.3	31.3	30.2	28.2	25.4	23.3	21.0	18.1	0.8
50°	10.0	9.8	9.7	9.8	9.5	9.8	10.1	10.2	9.3	9.1	0.2
52.5°	3.9	4.1	3.9	4.3	4.3	4.2	4.3	4.2	4.1	3.6	0.0
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.4	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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CATALOG NUMBER: P3A02R159740DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	3.9	3.9	3.9	3.9	3.9	3.9
2.5°	4.6	4.1	3.4	2.8	2.5	2.4
5°	5.0	3.7	2.5	2.0	1.7	1.6
7.5°	5.3	3.4	2.0	1.4	1.0	0.9
10°	5.6	2.9	1.5	0.8	0.6	0.6
12.5°	5.6	2.3	1.0	0.5	0.3	0.3
15°	5.4	2.0	0.7	0.3	0.2	0.2
17.5°	5.3	1.5	0.5	0.2	0.1	0.2
20°	5.0	1.2	0.2	0.1	0.1	0.1
21°	4.9	1.0	0.2	0.1	0.1	0.1
22°	4.6	0.9	0.1	0.0	0.1	0.1
23°	4.4	0.7	0.1	0.0	0.0	0.0
24°	4.1	0.6	0.1	0.0	0.0	0.0
25°	3.8	0.6	0.1	0.0	0.0	0.0
26°	3.6	0.3	0.0	0.0	0.0	0.0
27°	3.2	0.2	0.0	0.0	0.0	0.0
28°	3.0	0.2	0.0	0.0	0.0	0.0
29°	2.7	0.2	0.0	0.0	0.0	0.0
30°	2.3	0.2	0.0	0.0	0.0	0.0
31°	1.9	0.1	0.0	0.0	0.0	0.0
32°	1.5	0.1	0.0	0.0	0.0	0.0
33°	1.0	0.1	0.0	0.0	0.0	0.0
34°	0.7	0.1	0.0	0.0	0.0	0.0
35°	0.6	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	0.5
55°	0.1	0.2	0.2	0.3	0.5	0.6
57.5°	0.1	0.3	0.3	0.5	0.6	0.6
60°	0.2	0.3	0.5	0.5	0.7	0.7
62.5°	0.2	0.5	0.5	0.5	0.7	0.7
65°	0.2	0.5	0.5	0.6	0.7	0.7
67.5°	0.2	0.5	0.5	0.5	0.6	0.7
70°	0.2	0.5	0.3	0.5	0.6	0.6
72.5°	0.2	0.5	0.3	0.3	0.5	0.6
75°	0.2	0.5	0.3	0.3	0.5	0.5
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)