

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: P1334059

Luminaire Tested: P3A02R159050DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334059
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: P3A02R159050DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

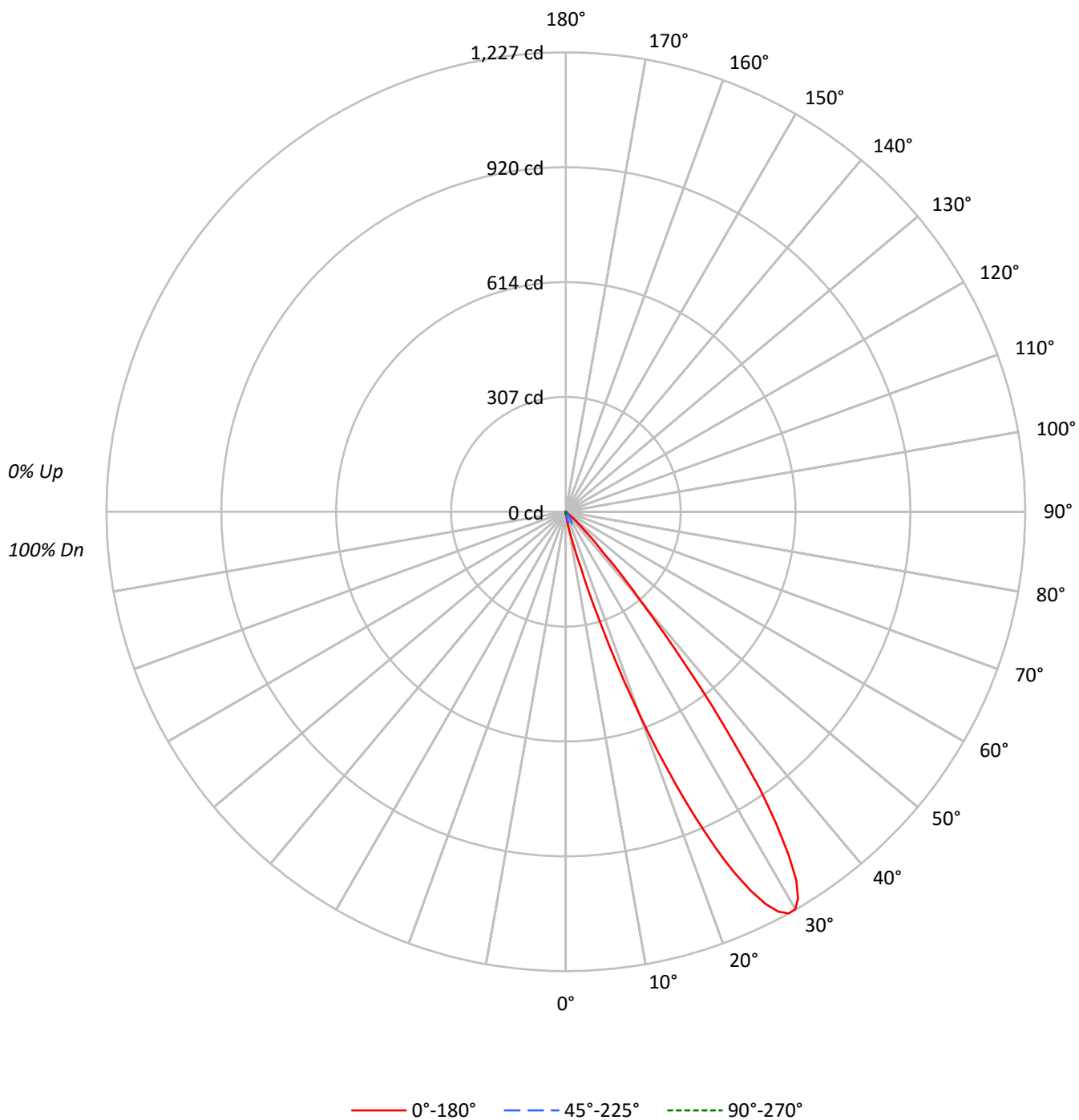
Lumens per Lamp: N/A
Luminaire Lumens: 134.0 lumens
Efficiency: N/A
Efficacy: 37.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334059

CATALOG NUMBER: P3A02R159050DE010 E3A301WMH

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	965	965	965	965	965
5°	2091	1541	924	484	396
10°	9285	2939	735	200	156
15°	35119	6765	499	91	68
20°	135088	9544	303	23	23
25°	256878	8952	169	0	0
30°	310301	7216	76	0	0
35°	242021	4926	27	0	0
40°	88308	2433	29	0	29
45°	22669	713	31	0	93
50°	3821	102	34	34	136
55°	497	0	115	153	268
60°	44	44	175	219	351
65°	52	52	259	363	415
70°	64	64	321	321	449
75°	85	85	424	339	424
80°	0	126	505	379	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22669 cd/sqm

TEST NUMBER: P1334059

CATALOG NUMBER: P3A02R159050DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	10.3	7.7
20°-30°	57.0	42.5
30°-40°	55.0	41.1
40°-50°	9.6	7.1
50°-60°	0.7	0.5
60°-70°	0.4	0.3
70°-80°	0.3	0.2
80°-90°	0.2	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°	67.8	50.6
0°-40°	122.8	91.7
0°-60°	133.1	99.3
0°-90°	134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	134.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	10	7	4	2	2	2
15°	155	30	2	0	0	69
25°	1062	37	1	0	0	475
35°	904	18	0	0	0	520
45°	73	2	0	0	0	79
55°	1	0	0	0	1	3
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: P1334059

CATALOG NUMBER: P3A02R159050DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2.5°	6.5	6.3	6.4	6.4	6.4	6.4	6.4	6.1	6.1	6.3	5.6
5°	9.5	9.5	9.4	9.5	9.5	9.4	9.1	9.0	9.0	8.7	7.0
7.5°	19.0	18.8	18.8	18.5	17.2	16.8	16.6	15.9	14.7	14.5	9.1
10°	41.7	41.8	40.9	39.8	39.6	37.7	37.0	35.8	33.6	31.4	13.2
12.5°	75.7	74.0	71.8	72.0	68.2	66.9	63.9	60.6	57.2	53.7	21.6
15°	154.7	149.9	152.8	145.7	137.8	128.8	119.7	108.2	98.4	88.0	29.8
17.5°	325.9	330.6	322.6	292.5	274.0	252.2	221.6	192.0	166.7	146.4	36.5
20°	578.9	585.8	558.8	532.6	487.6	438.6	387.5	329.7	274.3	226.3	40.9
21°	684.6	680.4	669.3	627.4	575.5	518.7	456.1	392.2	325.1	262.8	41.3
22°	786.8	788.7	762.9	719.0	665.0	602.1	525.7	446.8	374.5	292.5	40.7
23°	888.6	894.8	860.7	819.5	751.6	680.5	592.2	507.1	417.6	326.5	39.4
24°	982.8	978.5	955.5	903.6	831.0	747.8	656.0	552.8	453.1	355.6	38.3
25°	1061.7	1061.2	1024.9	974.5	891.5	799.3	698.1	590.2	483.5	375.3	37.0
26°	1126.2	1115.7	1087.1	1025.6	943.6	846.4	732.7	617.5	500.5	385.2	35.7
27°	1176.0	1168.4	1130.1	1066.1	980.5	872.9	754.8	631.0	508.4	388.4	34.0
28°	1209.5	1201.3	1160.5	1094.5	1000.8	889.6	766.6	636.8	508.4	385.3	32.5
29°	1226.8	1215.6	1175.0	1104.3	1005.5	891.6	763.7	631.1	500.4	375.7	30.6
30°	1225.5	1211.6	1169.0	1095.4	991.6	875.5	747.7	610.9	482.4	361.3	28.5
31°	1204.4	1188.8	1141.2	1065.5	962.8	845.3	717.4	583.8	457.8	342.7	26.5
32°	1161.5	1141.7	1095.3	1019.8	918.4	800.1	673.5	542.0	420.9	315.4	24.2
33°	1091.7	1071.7	1021.9	951.2	858.5	742.7	615.2	497.0	378.9	283.0	22.4
34°	1004.2	986.0	943.1	871.8	782.9	670.1	548.2	434.8	335.4	250.8	20.5
35°	904.1	875.0	836.2	779.7	693.1	579.7	475.9	377.0	290.5	217.0	18.4
36°	768.7	773.9	732.7	663.6	591.8	502.9	403.3	314.3	243.0	185.0	16.6
37°	648.6	640.4	614.2	560.8	498.2	409.9	338.0	266.4	204.4	156.4	14.6
38°	523.2	525.0	499.4	458.3	396.3	337.1	272.0	218.9	171.0	133.1	12.8
39°	409.6	408.1	401.2	363.2	307.0	268.1	220.4	181.4	142.5	112.2	10.8
40°	308.5	310.9	294.7	271.8	239.1	207.1	175.6	144.7	117.8	94.6	8.5
42.5°	150.0	153.7	143.0	137.1	122.7	110.1	92.9	75.9	64.5	55.8	3.8
45°	73.1	71.0	70.1	67.3	63.9	57.1	50.6	43.4	37.9	32.7	2.3
47.5°	37.4	36.4	36.4	35.2	34.0	31.8	28.5	26.2	23.6	20.3	0.9
50°	11.2	11.1	10.9	11.1	10.7	11.1	11.3	11.5	10.4	10.3	0.3
52.5°	4.4	4.6	4.4	4.8	4.8	4.7	4.8	4.7	4.6	4.0	0.0
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.6	1.4	1.6	0.0
57.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	4.4	4.4	4.4	4.4	4.4	4.4
2.5°	5.2	4.6	3.8	3.1	2.9	2.7
5°	5.6	4.2	2.9	2.2	2.0	1.8
7.5°	6.0	3.8	2.2	1.6	1.2	1.0
10°	6.3	3.3	1.7	0.9	0.7	0.7
12.5°	6.3	2.6	1.2	0.5	0.4	0.4
15°	6.1	2.2	0.8	0.4	0.3	0.3
17.5°	6.0	1.7	0.5	0.3	0.1	0.3
20°	5.6	1.3	0.3	0.1	0.1	0.1
21°	5.5	1.2	0.3	0.1	0.1	0.1
22°	5.2	1.0	0.1	0.0	0.1	0.1
23°	5.0	0.8	0.1	0.0	0.0	0.0
24°	4.6	0.7	0.1	0.0	0.0	0.0
25°	4.3	0.7	0.1	0.0	0.0	0.0
26°	4.0	0.4	0.0	0.0	0.0	0.0
27°	3.6	0.3	0.0	0.0	0.0	0.0
28°	3.4	0.3	0.0	0.0	0.0	0.0
29°	3.0	0.3	0.0	0.0	0.0	0.0
30°	2.6	0.3	0.0	0.0	0.0	0.0
31°	2.1	0.1	0.0	0.0	0.0	0.0
32°	1.7	0.1	0.0	0.0	0.0	0.0
33°	1.2	0.1	0.0	0.0	0.0	0.0
34°	0.8	0.1	0.0	0.0	0.0	0.0
35°	0.7	0.1	0.0	0.0	0.0	0.0
36°	0.4	0.1	0.0	0.0	0.0	0.1
37°	0.4	0.1	0.0	0.0	0.0	0.1
38°	0.3	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	0.3
45°	0.0	0.1	0.0	0.0	0.1	0.3
47.5°	0.0	0.1	0.0	0.0	0.3	0.3
50°	0.0	0.1	0.1	0.1	0.3	0.4
52.5°	0.0	0.3	0.1	0.3	0.4	0.5
55°	0.1	0.3	0.3	0.4	0.5	0.7
57.5°	0.1	0.4	0.4	0.5	0.7	0.7
60°	0.3	0.4	0.5	0.5	0.8	0.8
62.5°	0.3	0.5	0.5	0.5	0.8	0.8
65°	0.3	0.5	0.5	0.7	0.8	0.8
67.5°	0.3	0.5	0.5	0.5	0.7	0.8
70°	0.3	0.5	0.4	0.5	0.7	0.7
72.5°	0.3	0.5	0.4	0.4	0.5	0.7
75°	0.3	0.5	0.4	0.4	0.5	0.5
77.5°	0.3	0.4	0.4	0.3	0.4	0.4
80°	0.3	0.4	0.3	0.3	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.4	0.3	0.1	0.3	0.3
85°	0.3	0.4	0.3	0.1	0.1	0.1
87.5°	0.3	0.4	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)