

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: P1334031

Luminaire Tested: P3A02R159035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334031
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: P3A02R159035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

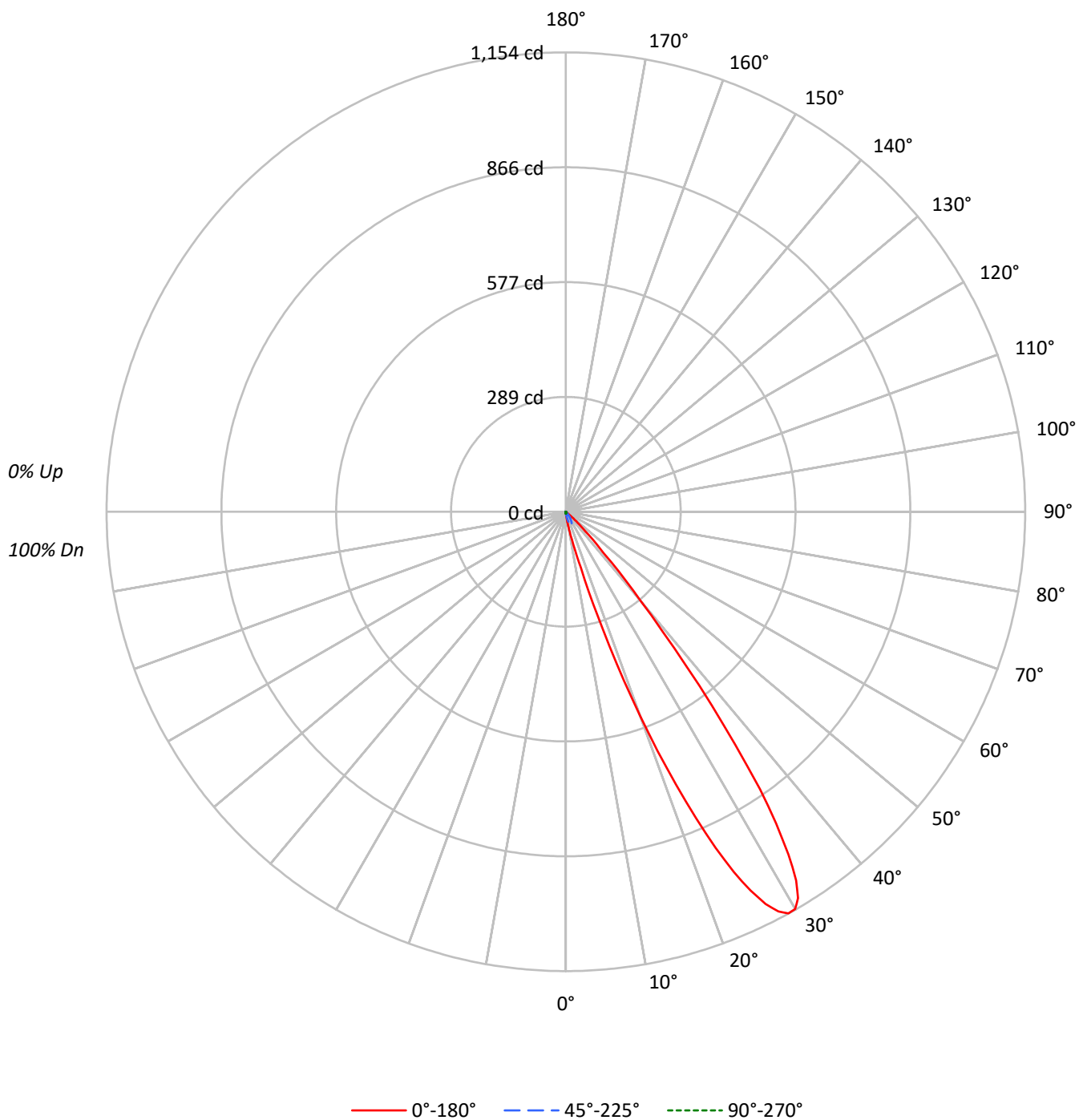
Lumens per Lamp: N/A
Luminaire Lumens: 125.9 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334031

CATALOG NUMBER: P3A02R159035DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334031

CATALOG NUMBER: P3A02R159035DE010 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°	921	921	921	921	921
5°	1959	1453	858	462	374
10°	8728	2761	690	200	134
15°	33031	6379	477	91	45
20°	127014	8984	280	23	23
25°	241538	8420	145	0	0
30°	291792	6786	51	0	0
35°	227565	4631	27	0	0
40°	83041	2290	29	0	29
45°	21336	682	31	0	62
50°	3582	68	34	34	136
55°	459	0	76	153	229
60°	44	44	175	219	307
65°	52	52	259	311	363
70°	64	64	321	321	385
75°	85	85	424	339	424
80°	0	126	505	253	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21336 cd/sqm

TEST NUMBER: P1334031

CATALOG NUMBER: P3A02R159035DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	9.7	7.7
20°-30°	53.5	42.5
30°-40°	51.7	41.1
40°-50°	9.0	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°	63.8	50.6
0°-40°	115.5	91.7
0°-60°	125.1	99.4
0°-90°	125.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	125.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	7	4	2	2	2
15°	146	28	2	0	0	65
25°	998	35	1	0	0	446
35°	850	17	0	0	0	489
45°	69	2	0	0	0	74
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: P1334031

CATALOG NUMBER: P3A02R159035DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	6.1	5.9	6.0	6.0	6.0	6.0	6.0	5.8	5.8	5.9	5.3
5°	8.9	8.9	8.8	8.9	8.9	8.8	8.6	8.5	8.5	8.2	6.6
7.5°	17.9	17.6	17.6	17.4	16.2	15.8	15.6	15.0	13.8	13.6	8.6
10°	39.2	39.3	38.5	37.4	37.3	35.4	34.8	33.7	31.6	29.5	12.4
12.5°	71.2	69.6	67.5	67.7	64.1	62.9	60.1	57.0	53.8	50.5	20.3
15°	145.5	141.0	143.6	137.0	129.6	121.1	112.5	101.7	92.5	82.7	28.1
17.5°	306.4	310.8	303.4	275.0	257.6	237.2	208.4	180.5	156.8	137.6	34.3
20°	544.3	550.8	525.4	500.8	458.5	412.4	364.4	310.0	257.9	212.8	38.5
21°	643.7	639.8	629.4	589.9	541.1	487.7	428.9	368.8	305.7	247.1	38.9
22°	739.8	741.6	717.4	676.1	625.3	566.1	494.3	420.2	352.1	275.0	38.2
23°	835.5	841.4	809.3	770.6	706.7	639.9	556.8	476.8	392.7	307.0	37.0
24°	924.2	920.1	898.4	849.6	781.4	703.2	616.9	519.8	426.0	334.4	36.0
25°	998.3	997.8	963.7	916.3	838.2	751.6	656.5	555.0	454.6	352.9	34.8
26°	1059.0	1049.0	1022.2	964.4	887.3	795.8	688.9	580.6	470.7	362.2	33.6
27°	1105.8	1098.7	1062.7	1002.5	921.9	820.8	709.8	593.3	478.0	365.2	32.0
28°	1137.3	1129.6	1091.2	1029.2	941.1	836.5	720.8	598.7	478.0	362.3	30.5
29°	1153.6	1143.1	1104.8	1038.4	945.5	838.4	718.1	593.5	470.5	353.2	28.8
30°	1152.4	1139.3	1099.2	1030.0	932.4	823.3	703.0	574.5	453.6	339.8	26.8
31°	1132.5	1117.8	1073.1	1001.9	905.3	794.8	674.6	549.0	430.5	322.2	24.9
32°	1092.2	1073.6	1029.9	959.0	863.6	752.3	633.3	509.6	395.8	296.6	22.8
33°	1026.5	1007.7	960.9	894.4	807.2	698.4	578.5	467.3	356.3	266.1	21.1
34°	944.3	927.1	886.8	819.7	736.1	630.1	515.5	408.9	315.4	235.8	19.2
35°	850.1	822.8	786.3	733.2	651.7	545.1	447.5	354.5	273.2	204.1	17.3
36°	722.8	727.7	688.9	624.0	556.5	472.9	379.2	295.5	228.5	173.9	15.6
37°	609.9	602.2	577.5	527.3	468.4	385.5	317.8	250.5	192.2	147.1	13.7
38°	492.0	493.7	469.6	430.9	372.6	317.0	255.8	205.8	160.8	125.1	12.0
39°	385.1	383.8	377.3	341.5	288.6	252.1	207.3	170.6	134.0	105.5	10.2
40°	290.1	292.3	277.1	255.6	224.8	194.8	165.1	136.0	110.8	89.0	8.0
42.5°	141.1	144.5	134.5	128.9	115.3	103.6	87.4	71.3	60.7	52.5	3.6
45°	68.8	66.8	65.9	63.2	60.1	53.7	47.6	40.8	35.7	30.8	2.2
47.5°	35.2	34.2	34.2	33.1	32.0	29.9	26.8	24.6	22.2	19.1	0.9
50°	10.5	10.4	10.3	10.4	10.1	10.4	10.7	10.8	9.8	9.7	0.2
52.5°	4.2	4.3	4.2	4.5	4.5	4.4	4.5	4.4	4.3	3.8	0.0
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.5	1.3	1.5	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



TEST NUMBER: P1334031

CATALOG NUMBER: P3A02R159035DE010 E3A301WMH

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

TEST NUMBER: P1334031

CATALOG NUMBER: P3A02R159035DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	4.9	4.3	3.6	2.9	2.7	2.6
5°	5.3	3.9	2.7	2.1	1.8	1.7
7.5°	5.6	3.6	2.1	1.5	1.1	1.0
10°	5.9	3.1	1.6	0.9	0.6	0.6
12.5°	5.9	2.5	1.1	0.5	0.4	0.4
15°	5.8	2.1	0.7	0.4	0.2	0.2
17.5°	5.6	1.6	0.5	0.2	0.1	0.2
20°	5.3	1.2	0.2	0.1	0.1	0.1
21°	5.1	1.1	0.2	0.1	0.1	0.1
22°	4.9	1.0	0.1	0.0	0.1	0.1
23°	4.7	0.7	0.1	0.0	0.0	0.0
24°	4.3	0.6	0.1	0.0	0.0	0.0
25°	4.0	0.6	0.1	0.0	0.0	0.0
26°	3.8	0.4	0.0	0.0	0.0	0.0
27°	3.4	0.2	0.0	0.0	0.0	0.0
28°	3.2	0.2	0.0	0.0	0.0	0.0
29°	2.8	0.2	0.0	0.0	0.0	0.0
30°	2.5	0.2	0.0	0.0	0.0	0.0
31°	2.0	0.1	0.0	0.0	0.0	0.0
32°	1.6	0.1	0.0	0.0	0.0	0.0
33°	1.1	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°	0.4	0.1	0.0	0.0	0.0	0.1
37°	0.4	0.1	0.0	0.0	0.0	0.1
38°	0.2	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	0.4
52.5°	0.0	0.2	0.1	0.2	0.4	0.5
55°	0.1	0.2	0.2	0.4	0.5	0.6
57.5°	0.1	0.4	0.4	0.5	0.6	0.6
60°	0.2	0.4	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	0.4	0.5	0.6	0.6
72.5°	0.2	0.5	0.4	0.4	0.5	0.6
75°	0.2	0.5	0.4	0.4	0.5	0.5
77.5°	0.2	0.4	0.4	0.2	0.4	0.4
80°	0.2	0.4	0.2	0.2	0.4	0.4



TEST NUMBER: P1334031

CATALOG NUMBER: P3A02R159035DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.4	0.2	0.1	0.2	0.2
85°	0.2	0.4	0.2	0.1	0.1	0.1
87.5°	0.2	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)