

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: P1334045

Luminaire Tested: P3A02R159040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334045
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: P3A02R159040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

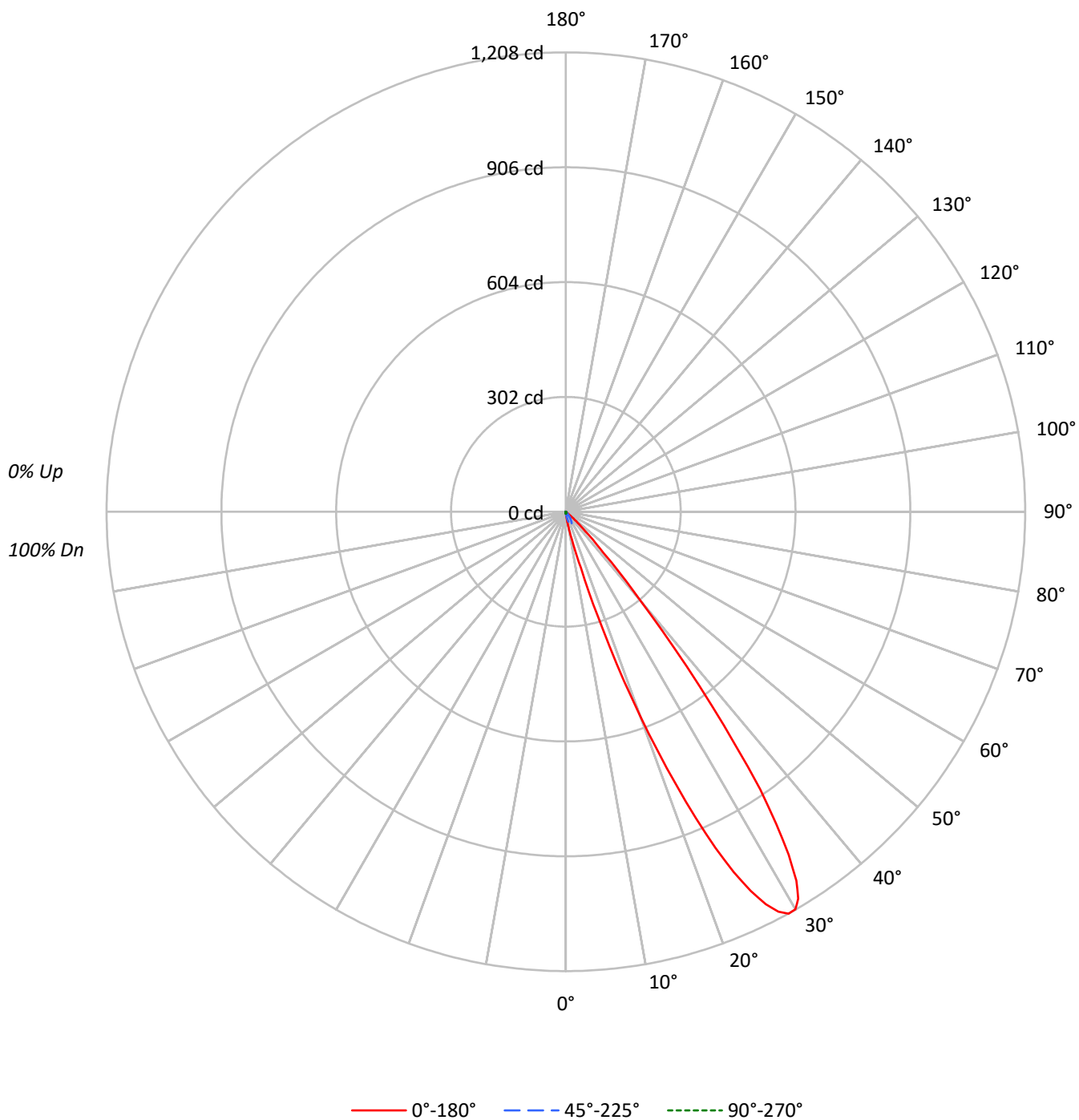
Lumens per Lamp: N/A
Luminaire Lumens: 132.0 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	965	965	965	965	965
5°	2069	1519	902	484	396
10°	9151	2895	713	200	134
15°	34597	6674	499	91	68
20°	133058	9404	303	23	23
25°	253031	8831	145	0	0
30°	305667	7115	76	0	0
35°	238407	4845	27	0	0
40°	86992	2376	29	0	29
45°	22328	713	31	0	93
50°	3753	102	34	34	136
55°	497	0	115	153	229
60°	44	44	175	219	351
65°	52	52	259	311	415
70°	64	64	321	321	385
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: 22328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.5
10°-20°	10.1	7.7
20°-30°	56.1	42.5
30°-40°	54.2	41.1
40°-50°	9.4	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°	66.8	50.6
0°-40°	121.0	91.7
0°-60°	131.1	99.3
0°-90°	132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	132.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	7	4	2	2	2
15°	152	29	2	0	0	68
25°	1046	36	1	0	0	468
35°	891	18	0	0	0	512
45°	72	2	0	0	0	77
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	

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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°	6.4	6.2	6.3	6.3	6.3	6.3	6.3	6.0	6.0	6.2	5.5
5°	9.4	9.4	9.2	9.4	9.4	9.2	9.0	8.9	8.9	8.6	6.9
7.5°	18.7	18.5	18.5	18.2	16.9	16.6	16.3	15.7	14.5	14.3	9.0
10°	41.1	41.2	40.3	39.2	39.0	37.1	36.5	35.3	33.1	30.9	13.0
12.5°	74.6	72.9	70.7	70.9	67.2	65.9	62.9	59.7	56.4	52.9	21.3
15°	152.4	147.7	150.5	143.6	135.7	126.9	117.9	106.6	96.9	86.7	29.4
17.5°	321.0	325.6	317.8	288.1	269.9	248.5	218.3	189.1	164.2	144.2	36.0
20°	570.2	577.0	550.5	524.7	480.4	432.1	381.7	324.7	270.2	222.9	40.3
21°	674.4	670.3	659.3	618.0	566.9	510.9	449.3	386.4	320.2	258.9	40.7
22°	775.0	777.0	751.5	708.3	655.1	593.1	517.8	440.2	368.9	288.1	40.1
23°	875.3	881.5	847.8	807.3	740.4	670.4	583.3	499.5	411.4	321.6	38.8
24°	968.2	963.9	941.2	890.1	818.6	736.6	646.3	544.6	446.3	350.3	37.8
25°	1045.8	1045.3	1009.6	959.9	878.1	787.4	687.7	581.4	476.2	369.7	36.5
26°	1109.4	1099.0	1070.9	1010.3	929.5	833.7	721.8	608.2	493.1	379.4	35.2
27°	1158.5	1151.0	1113.3	1050.2	965.8	859.9	743.6	621.6	500.8	382.6	33.5
28°	1191.4	1183.4	1143.2	1078.2	985.9	876.3	755.1	627.2	500.8	379.6	32.0
29°	1208.5	1197.5	1157.4	1087.8	990.5	878.3	752.3	621.7	492.9	370.1	30.2
30°	1207.2	1193.5	1151.5	1079.1	976.8	862.5	736.5	601.8	475.2	355.9	28.1
31°	1186.4	1171.0	1124.2	1049.6	948.4	832.7	706.7	575.1	451.0	337.6	26.1
32°	1144.2	1124.7	1079.0	1004.6	904.7	788.1	663.5	533.9	414.6	310.7	23.9
33°	1075.4	1055.7	1006.7	937.0	845.7	731.6	606.1	489.6	373.3	278.8	22.1
34°	989.2	971.2	929.0	858.8	771.2	660.1	540.1	428.4	330.4	247.0	20.2
35°	890.6	862.0	823.7	768.1	682.7	571.0	468.8	371.3	286.2	213.8	18.1
36°	757.2	762.3	721.8	653.7	582.9	495.4	397.3	309.6	239.3	182.2	16.3
37°	638.9	630.8	605.0	552.4	490.8	403.8	332.9	262.5	201.3	154.1	14.4
38°	515.4	517.2	491.9	451.5	390.3	332.0	268.0	215.6	168.5	131.1	12.6
39°	403.4	402.0	395.2	357.7	302.4	264.1	217.1	178.7	140.3	110.6	10.7
40°	303.9	306.2	290.3	267.7	235.5	204.0	173.0	142.5	116.1	93.2	8.3
42.5°	147.8	151.4	140.9	135.1	120.8	108.5	91.6	74.7	63.6	55.0	3.7
45°	72.0	70.0	69.1	66.3	62.9	56.2	49.8	42.8	37.4	32.2	2.3
47.5°	36.9	35.8	35.8	34.7	33.5	31.3	28.1	25.8	23.2	20.0	0.9
50°	11.0	10.9	10.8	10.9	10.5	10.9	11.2	11.3	10.3	10.1	0.3
52.5°	4.4	4.5	4.4	4.8	4.8	4.6	4.8	4.6	4.5	4.0	0.0
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.4	1.5	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

TEST NUMBER: P1334045

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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°	5.1	4.5	3.7	3.1	2.8	2.7
5°	5.5	4.1	2.8	2.2	1.9	1.8
7.5°	5.9	3.7	2.2	1.5	1.2	1.0
10°	6.2	3.2	1.7	0.9	0.6	0.6
12.5°	6.2	2.6	1.2	0.5	0.4	0.4
15°	6.0	2.2	0.8	0.4	0.3	0.3
17.5°	5.9	1.7	0.5	0.3	0.1	0.3
20°	5.5	1.3	0.3	0.1	0.1	0.1
21°	5.4	1.2	0.3	0.1	0.1	0.1
22°	5.1	1.0	0.1	0.0	0.1	0.1
23°	4.9	0.8	0.1	0.0	0.0	0.0
24°	4.5	0.6	0.1	0.0	0.0	0.0
25°	4.2	0.6	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°	3.3	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°	0.6	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°	0.3	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	0.6
57.5°	0.1	0.4	0.4	0.5	0.6	0.6
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	0.6	0.8	0.8
67.5°	0.3	0.5	0.5	0.5	0.6	0.8
70°	0.3	0.5	0.4	0.5	0.6	0.6
72.5°	0.3	0.5	0.4	0.4	0.5	0.6
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)