

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: P1343512

Luminaire Tested: P3A13R159735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343512
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: P3A13R159735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

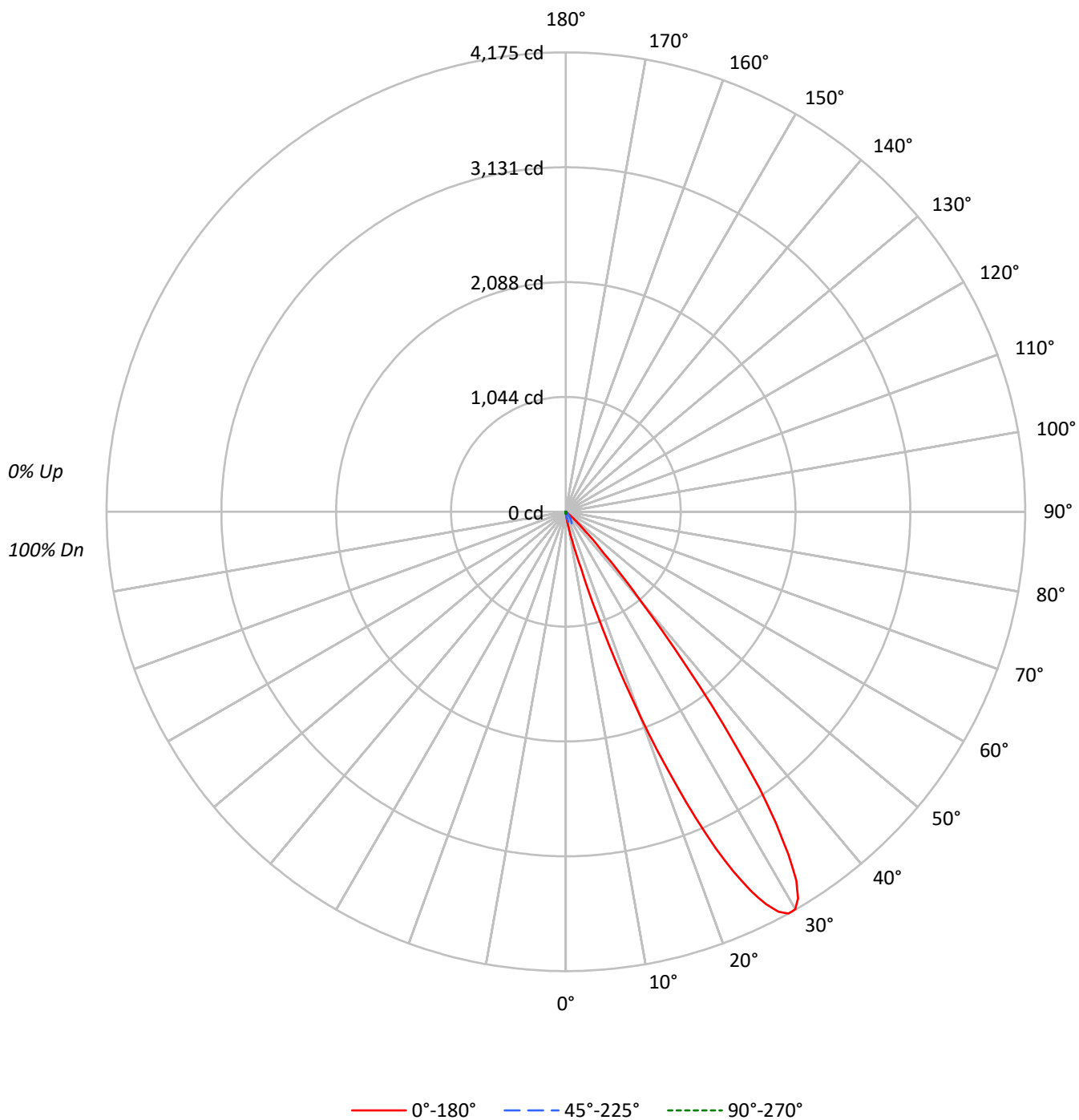
Lumens per Lamp: N/A
Luminaire Lumens: 455.9 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	3311	3311	3311	3311	3311
5°	7132	5283	3126	1651	1365
10°	31596	9975	2472	690	490
15°	119524	23065	1703	295	204
20°	459683	32506	1027	93	93
25°	874139	30486	532	0	0
30°	1055985	24586	228	0	0
35°	823582	16731	107	0	0
40°	300534	8244	115	0	115
45°	77155	2481	124	0	279
50°	12997	307	136	136	443
55°	1682	0	344	497	841
60°	175	175	570	789	1184
65°	208	208	934	1141	1401
70°	256	256	1154	1154	1410
75°	339	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 77155 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	34.9	7.7
20°-30°	193.8	42.5
30°-40°	187.2	41.1
40°-50°	32.6	7.1
50°-60°	2.3	0.5
60°-70°	1.4	0.3
70°-80°	1.1	0.2
80°-90°	0.5	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°	230.8	50.6
0°-40°	418.0	91.7
0°-60°	452.9	99.3
0°-90°	455.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	32	24	14	8	6	6
15°	526	102	8	1	1	235
25°	3613	126	2	0	0	1615
35°	3077	62	0	0	0	1769
45°	249	8	0	0	1	267
55°	4	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	1	2	0
85°	0	0	1	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°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	22.2	21.3	21.7	21.7	21.7	21.7	21.7	20.8	20.8	21.3	19.1
5°	32.4	32.4	31.9	32.4	32.4	31.9	31.1	30.6	30.6	29.7	24.0
7.5°	64.8	63.9	63.9	63.0	58.6	57.2	56.3	54.1	50.1	49.2	31.1
10°	141.9	142.4	139.3	135.3	134.8	128.2	126.0	122.0	114.4	106.9	44.8
12.5°	257.7	251.9	244.4	244.9	232.0	227.6	217.4	206.3	194.7	182.8	73.6
15°	526.5	510.1	519.9	495.9	468.9	438.3	407.2	368.2	334.9	299.4	101.6
17.5°	1108.9	1124.9	1097.8	995.4	932.4	858.3	754.1	653.4	567.3	498.1	124.2
20°	1969.9	1993.4	1901.6	1812.4	1659.4	1492.6	1318.7	1121.8	933.3	770.0	139.3
21°	2329.6	2315.5	2277.7	2134.9	1958.4	1765.0	1552.1	1334.7	1106.3	894.2	140.6
22°	2677.4	2684.1	2596.2	2446.8	2263.1	2048.9	1788.9	1520.6	1274.4	995.4	138.4
23°	3023.8	3045.1	2928.9	2788.7	2557.6	2315.9	2015.2	1725.5	1421.2	1111.2	134.0
24°	3344.5	3329.9	3251.4	3074.9	2827.8	2544.8	2232.5	1881.2	1541.9	1210.1	130.4
25°	3612.9	3611.1	3487.8	3316.2	3033.6	2720.0	2375.8	2008.5	1645.2	1277.0	126.0
26°	3832.5	3796.5	3699.4	3490.0	3211.0	2880.1	2493.3	2101.2	1703.3	1310.8	121.5
27°	4001.9	3976.2	3845.8	3628.0	3336.6	2970.6	2568.7	2147.3	1729.9	1321.8	115.8
28°	4115.9	4088.0	3949.1	3724.7	3405.8	3027.4	2608.7	2166.9	1729.9	1311.2	110.4
29°	4174.9	4136.8	3998.4	3758.0	3421.7	3034.0	2598.9	2147.8	1702.9	1278.4	104.2
30°	4170.5	4123.0	3978.0	3727.8	3374.3	2979.5	2544.3	2079.0	1641.7	1229.6	97.1
31°	4098.6	4045.4	3883.5	3625.8	3276.2	2876.6	2441.4	1986.8	1557.8	1166.2	90.0
32°	3952.7	3885.3	3727.3	3470.5	3125.4	2722.7	2291.9	1844.4	1432.3	1073.4	82.5
33°	3714.9	3647.1	3477.6	3236.8	2921.4	2527.5	2093.7	1691.3	1289.5	963.0	76.3
34°	3417.3	3355.2	3209.3	2966.6	2664.1	2280.4	1865.7	1479.8	1141.3	853.4	69.6
35°	3076.6	2977.7	2845.5	2653.5	2358.5	1972.6	1619.5	1282.8	988.7	738.5	62.5
36°	2615.8	2633.5	2493.3	2258.2	2013.8	1711.3	1372.4	1069.5	826.8	629.4	56.3
37°	2207.2	2179.3	2090.1	1908.3	1695.3	1395.0	1150.2	906.7	695.5	532.3	49.7
38°	1780.5	1786.7	1699.3	1559.6	1348.5	1147.1	925.7	744.8	582.0	452.9	43.5
39°	1393.7	1388.8	1365.3	1235.8	1044.6	912.4	750.1	617.5	484.8	381.9	36.8
40°	1049.9	1057.9	1002.9	924.9	813.5	704.8	597.5	492.4	401.0	322.0	28.8
42.5°	510.6	523.0	486.6	466.6	417.4	374.8	316.3	258.2	219.6	189.8	12.9
45°	248.8	241.7	238.6	228.9	217.4	194.3	172.1	147.7	129.1	111.3	8.0
47.5°	127.3	123.8	123.8	119.8	115.8	108.2	97.1	89.2	80.3	69.2	3.1
50°	38.1	37.7	37.3	37.7	36.4	37.7	38.6	39.0	35.5	35.0	0.9
52.5°	15.1	15.5	15.1	16.4	16.4	16.0	16.4	16.0	15.5	13.8	0.0
55°	4.4	4.4	4.4	4.4	4.4	4.4	4.9	5.3	4.9	5.3	0.0
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	17.7	15.5	12.9	10.6	9.8	9.3
5°	19.1	14.2	9.8	7.5	6.7	6.2
7.5°	20.4	12.9	7.5	5.3	4.0	3.5
10°	21.3	11.1	5.8	3.1	2.2	2.2
12.5°	21.3	8.9	4.0	1.8	1.3	1.3
15°	20.8	7.5	2.7	1.3	0.9	0.9
17.5°	20.4	5.8	1.8	0.9	0.4	0.9
20°	19.1	4.4	0.9	0.4	0.4	0.4
21°	18.6	4.0	0.9	0.4	0.4	0.4
22°	17.7	3.5	0.4	0.0	0.4	0.4
23°	16.9	2.7	0.4	0.0	0.0	0.0
24°	15.5	2.2	0.4	0.0	0.0	0.0
25°	14.6	2.2	0.4	0.0	0.0	0.0
26°	13.8	1.3	0.0	0.0	0.0	0.0
27°	12.4	0.9	0.0	0.0	0.0	0.0
28°	11.5	0.9	0.0	0.0	0.0	0.0
29°	10.2	0.9	0.0	0.0	0.0	0.0
30°	8.9	0.9	0.0	0.0	0.0	0.0
31°	7.1	0.4	0.0	0.0	0.0	0.0
32°	5.8	0.4	0.0	0.0	0.0	0.0
33°	4.0	0.4	0.0	0.0	0.0	0.0
34°	2.7	0.4	0.0	0.0	0.0	0.0
35°	2.2	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.4	0.0	0.0	0.0	0.4
37°	1.3	0.4	0.0	0.0	0.0	0.4
38°	0.9	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.9
45°	0.0	0.4	0.0	0.0	0.4	0.9
47.5°	0.0	0.4	0.0	0.0	0.9	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.9	1.3	1.8
55°	0.4	0.9	0.9	1.3	1.8	2.2
57.5°	0.4	1.3	1.3	1.8	2.2	2.2
60°	0.9	1.3	1.8	1.8	2.7	2.7
62.5°	0.9	1.8	1.8	1.8	2.7	2.7
65°	0.9	1.8	1.8	2.2	2.7	2.7
67.5°	0.9	1.8	1.8	1.8	2.2	2.7
70°	0.9	1.8	1.3	1.8	2.2	2.2
72.5°	0.9	1.8	1.3	1.3	1.8	2.2
75°	0.9	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)