

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: P1343393

Luminaire Tested: P3A13R159027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343393
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: P3A13R159027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

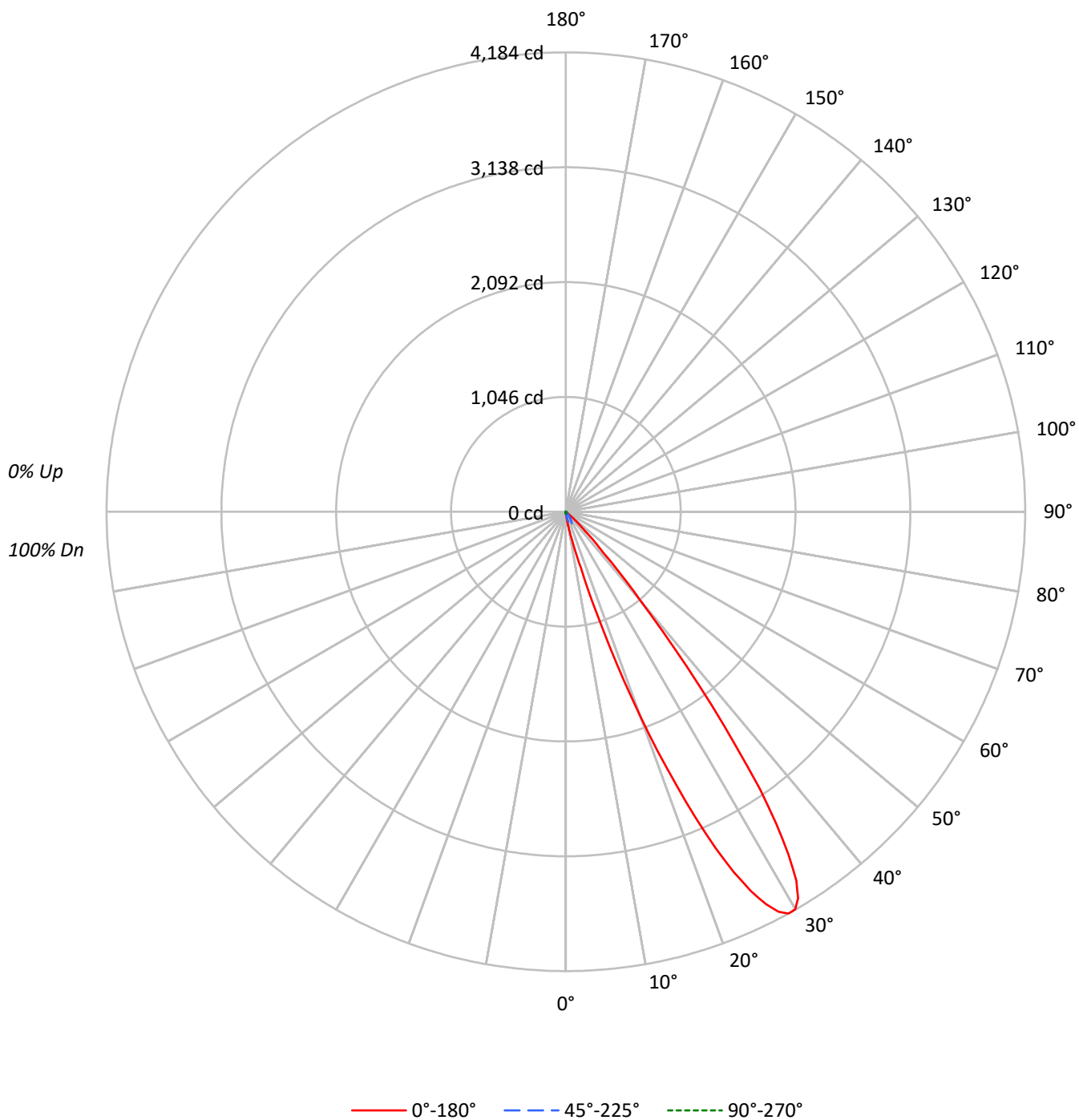
Lumens per Lamp: N/A
Luminaire Lumens: 456.9 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3311	3311	3311	3311	3311
5°	7154	5283	3126	1673	1365
10°	31685	9998	2472	690	490
15°	119796	23110	1725	295	204
20°	460687	32576	1027	93	93
25°	876051	30558	532	0	0
30°	1058289	24662	228	0	0
35°	825402	16784	107	0	0
40°	301193	8273	115	0	115
45°	77341	2481	124	0	279
50°	13032	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: 77341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	35.0	7.7
20°-30°	194.2	42.5
30°-40°	187.6	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°	231.3	50.6
0°-40°	419.0	91.7
0°-60°	453.9	99.3
0°-90°	456.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	456.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	32	24	14	8	6	6
15°	528	102	8	1	1	235
25°	3621	126	2	0	0	1619
35°	3083	63	0	0	0	1773
45°	249	8	0	0	1	268
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	21.8	21.8	21.8	21.8	21.8	20.9	20.9	21.3	19.1
5°	32.5	32.5	32.0	32.5	32.5	32.0	31.1	30.7	30.7	29.8	24.0
7.5°	64.9	64.0	64.0	63.1	58.7	57.3	56.5	54.2	50.2	49.3	31.1
10°	142.3	142.7	139.6	135.6	135.1	128.5	126.3	122.3	114.7	107.1	44.9
12.5°	258.3	252.5	244.9	245.4	232.5	228.1	217.8	206.7	195.2	183.2	73.8
15°	527.7	511.2	521.0	497.0	469.9	439.2	408.1	369.0	335.6	300.1	101.8
17.5°	1111.4	1127.4	1100.3	997.6	934.4	860.2	755.7	654.8	568.6	499.2	124.5
20°	1974.2	1997.8	1905.8	1816.4	1663.0	1495.9	1321.6	1124.3	935.3	771.7	139.6
21°	2334.8	2320.5	2282.7	2139.6	1962.7	1768.8	1555.5	1337.6	1108.7	896.2	140.9
22°	2683.3	2689.9	2601.9	2452.1	2268.1	2053.4	1792.9	1523.9	1277.2	997.6	138.7
23°	3030.5	3051.8	2935.3	2794.9	2563.3	2321.0	2019.6	1729.3	1424.3	1113.6	134.3
24°	3351.9	3337.2	3258.5	3081.6	2834.0	2550.4	2237.4	1885.3	1545.2	1212.7	130.7
25°	3620.8	3619.0	3495.5	3323.4	3040.3	2726.0	2381.0	2012.9	1648.8	1279.8	126.3
26°	3840.9	3804.9	3707.5	3497.7	3218.1	2886.4	2498.8	2105.8	1707.1	1313.6	121.8
27°	4010.7	3984.9	3854.2	3635.9	3343.9	2977.1	2574.4	2152.0	1733.7	1324.7	116.0
28°	4124.9	4096.9	3957.8	3732.9	3413.2	3034.0	2614.4	2171.6	1733.7	1314.1	110.7
29°	4184.1	4145.8	4007.1	3766.2	3429.2	3040.7	2604.6	2152.5	1706.6	1281.2	104.5
30°	4179.6	4132.1	3986.7	3736.0	3381.7	2986.0	2549.9	2083.6	1645.3	1232.3	97.4
31°	4107.6	4054.3	3892.0	3633.7	3283.4	2882.9	2446.8	1991.1	1561.2	1168.7	90.2
32°	3961.4	3893.8	3735.5	3478.1	3132.3	2728.6	2297.0	1848.4	1435.4	1075.8	82.7
33°	3723.1	3655.1	3485.2	3243.9	2927.8	2533.0	2098.3	1695.1	1292.3	965.1	76.5
34°	3424.8	3362.5	3216.3	2973.1	2669.9	2285.4	1869.8	1483.0	1143.8	855.3	69.8
35°	3083.4	2984.2	2851.8	2659.3	2363.7	1976.9	1623.0	1285.6	990.9	740.2	62.7
36°	2621.5	2639.3	2498.8	2263.2	2018.2	1715.1	1375.4	1071.8	828.6	630.8	56.5
37°	2212.1	2184.1	2094.7	1912.4	1699.1	1398.1	1152.7	908.7	697.0	533.5	49.8
38°	1784.4	1790.6	1703.1	1563.0	1351.4	1149.6	927.8	746.4	583.2	453.9	43.6
39°	1396.8	1391.9	1368.3	1238.5	1046.9	914.4	751.7	618.8	485.9	382.8	36.9
40°	1052.2	1060.2	1005.1	926.9	815.3	706.4	598.8	493.4	401.9	322.7	28.9
42.5°	511.7	524.1	487.7	467.7	418.3	375.6	317.0	258.7	220.1	190.3	12.9
45°	249.4	242.3	239.2	229.4	217.8	194.7	172.5	148.0	129.4	111.6	8.0
47.5°	127.6	124.0	124.0	120.0	116.0	108.5	97.4	89.4	80.5	69.3	3.1
50°	38.2	37.8	37.3	37.8	36.5	37.8	38.7	39.1	35.6	35.1	0.9
52.5°	15.1	15.6	15.1	16.4	16.4	16.0	16.4	16.0	15.6	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°	17.8	15.6	12.9	10.7	9.8	9.3
5°	19.1	14.2	9.8	7.6	6.7	6.2
7.5°	20.4	12.9	7.6	5.3	4.0	3.6
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°	20.9	7.6	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°	18.7	4.0	0.9	0.4	0.4	0.4
22°	17.8	3.6	0.4	0.0	0.4	0.4
23°	16.9	2.7	0.4	0.0	0.0	0.0
24°	15.6	2.2	0.4	0.0	0.0	0.0
25°	14.7	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°	11.6	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)