

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: P1343437

Luminaire Tested: P3A13R159035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343437
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: P3A13R159035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

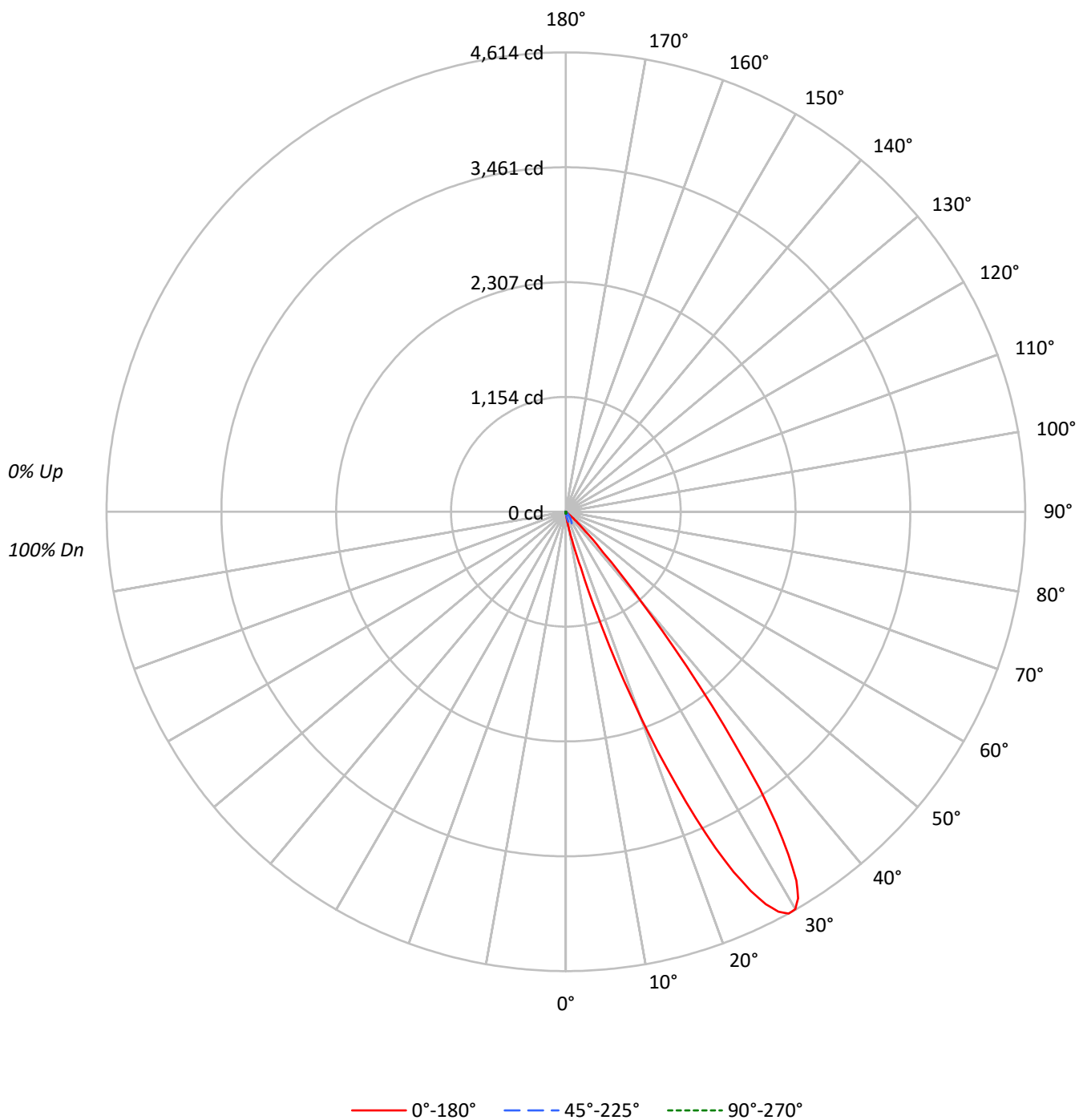
Lumens per Lamp: N/A
Luminaire Lumens: 504.1 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	98	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	47	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°	3662	3662	3662	3662	3662
5°	7880	5833	3456	1827	1519
10°	34936	11022	2739	757	557
15°	132101	25494	1884	341	227
20°	508081	35913	1143	117	117
25°	966153	33679	605	0	0
30°	1167142	27194	253	0	0
35°	910288	18498	134	0	0
40°	332194	9131	143	0	143
45°	85280	2729	155	0	310
50°	14396	341	171	171	512
55°	1873	0	382	573	956
60°	219	219	658	877	1272
65°	259	259	1038	1297	1505
70°	321	321	1282	1282	1603
75°	424	424	1694	1271	1694
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 85280 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	38.6	7.7
20°-30°	214.2	42.5
30°-40°	206.9	41.1
40°-50°	36.0	7.1
50°-60°	2.6	0.5
60°-70°	1.5	0.3
70°-80°	1.3	0.3
80°-90°	0.6	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°	255.1	50.6
0°-40°	462.1	91.7
0°-60°	500.6	99.3
0°-90°	504.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	26	16	8	7	7
15°	582	112	8	2	1	259
25°	3993	139	2	0	0	1785
35°	3400	69	0	0	0	1956
45°	275	9	0	0	1	295
55°	5	0	1	2	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	24.5	23.5	24.0	24.0	24.0	24.0	24.0	23.0	23.0	23.5	21.1
5°	35.8	35.8	35.3	35.8	35.8	35.3	34.3	33.8	33.8	32.8	26.5
7.5°	71.6	70.6	70.6	69.6	64.7	63.2	62.3	59.8	55.4	54.4	34.3
10°	156.9	157.4	153.9	149.5	149.0	141.7	139.2	134.8	126.5	118.2	49.5
12.5°	284.8	278.5	270.1	270.6	256.4	251.5	240.2	228.0	215.2	202.0	81.4
15°	581.9	563.8	574.6	548.1	518.2	484.4	450.1	406.9	370.2	330.9	112.3
17.5°	1225.7	1243.3	1213.4	1100.2	1030.5	948.7	833.5	722.2	627.0	550.6	137.3
20°	2177.3	2203.3	2101.8	2003.2	1834.1	1649.7	1457.6	1239.9	1031.5	851.1	153.9
21°	2574.9	2559.2	2517.5	2359.6	2164.5	1950.8	1715.4	1475.2	1222.7	988.4	155.4
22°	2959.2	2966.6	2869.5	2704.3	2501.3	2264.5	1977.2	1680.6	1408.5	1100.2	153.0
23°	3342.1	3365.7	3237.2	3082.3	2826.9	2559.7	2227.3	1907.1	1570.8	1228.1	148.1
24°	3696.6	3680.4	3593.6	3398.5	3125.4	2812.7	2467.5	2079.2	1704.2	1337.4	144.1
25°	3993.2	3991.2	3855.0	3665.2	3352.9	3006.3	2625.9	2219.9	1818.4	1411.5	139.2
26°	4235.9	4196.2	4088.8	3857.4	3549.0	3183.3	2755.8	2322.4	1882.6	1448.7	134.3
27°	4423.2	4394.7	4250.6	4009.9	3687.8	3283.3	2839.1	2373.4	1912.0	1461.0	128.0
28°	4549.2	4518.3	4364.8	4116.8	3764.3	3346.1	2883.3	2394.9	1912.0	1449.2	122.1
29°	4614.4	4572.2	4419.3	4153.5	3781.9	3353.4	2872.5	2373.9	1882.1	1412.9	115.2
30°	4609.5	4557.0	4396.7	4120.2	3729.4	3293.1	2812.2	2297.9	1814.5	1359.0	107.4
31°	4530.1	4471.2	4292.3	4007.4	3621.1	3179.4	2698.4	2195.9	1721.8	1288.9	99.5
32°	4368.8	4294.2	4119.7	3835.8	3454.4	3009.2	2533.2	2038.5	1583.1	1186.4	91.2
33°	4106.0	4031.0	3843.7	3577.5	3228.9	2793.5	2314.1	1869.4	1425.2	1064.4	84.3
34°	3777.0	3708.4	3547.1	3278.9	2944.5	2520.5	2062.1	1635.5	1261.5	943.3	77.0
35°	3400.5	3291.2	3145.1	2932.8	2606.7	2180.2	1790.0	1417.8	1092.8	816.3	69.1
36°	2891.1	2910.7	2755.8	2495.9	2225.8	1891.4	1516.9	1182.0	913.9	695.7	62.3
37°	2439.6	2408.7	2310.1	2109.1	1873.8	1541.9	1271.3	1002.1	768.7	588.3	54.9
38°	1967.9	1974.8	1878.2	1723.8	1490.4	1267.8	1023.2	823.2	643.2	500.6	48.0
39°	1540.4	1535.0	1509.0	1365.9	1154.6	1008.5	829.0	682.4	535.9	422.1	40.7
40°	1160.5	1169.3	1108.5	1022.2	899.1	779.0	660.4	544.2	443.2	355.9	31.9
42.5°	564.3	578.0	537.8	515.8	461.3	414.3	349.6	285.3	242.7	209.8	14.2
45°	275.0	267.2	263.8	253.0	240.2	214.7	190.2	163.3	142.7	123.1	8.8
47.5°	140.7	136.8	136.8	132.4	128.0	119.6	107.4	98.5	88.7	76.5	3.4
50°	42.2	41.7	41.2	41.7	40.2	41.7	42.7	43.1	39.2	38.7	1.0
52.5°	16.7	17.2	16.7	18.1	18.1	17.6	18.1	17.6	17.2	15.2	0.0
55°	4.9	4.9	4.9	4.9	4.9	4.9	5.4	5.9	5.4	5.9	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	19.6	17.2	14.2	11.8	10.8	10.3
5°	21.1	15.7	10.8	8.3	7.4	6.9
7.5°	22.6	14.2	8.3	5.9	4.4	3.9
10°	23.5	12.3	6.4	3.4	2.5	2.5
12.5°	23.5	9.8	4.4	2.0	1.5	1.5
15°	23.0	8.3	2.9	1.5	1.0	1.0
17.5°	22.6	6.4	2.0	1.0	0.5	1.0
20°	21.1	4.9	1.0	0.5	0.5	0.5
21°	20.6	4.4	1.0	0.5	0.5	0.5
22°	19.6	3.9	0.5	0.0	0.5	0.5
23°	18.6	2.9	0.5	0.0	0.0	0.0
24°	17.2	2.5	0.5	0.0	0.0	0.0
25°	16.2	2.5	0.5	0.0	0.0	0.0
26°	15.2	1.5	0.0	0.0	0.0	0.0
27°	13.7	1.0	0.0	0.0	0.0	0.0
28°	12.7	1.0	0.0	0.0	0.0	0.0
29°	11.3	1.0	0.0	0.0	0.0	0.0
30°	9.8	1.0	0.0	0.0	0.0	0.0
31°	7.8	0.5	0.0	0.0	0.0	0.0
32°	6.4	0.5	0.0	0.0	0.0	0.0
33°	4.4	0.5	0.0	0.0	0.0	0.0
34°	2.9	0.5	0.0	0.0	0.0	0.0
35°	2.5	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.5	0.0	0.0	0.0	0.5
37°	1.5	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	1.0	1.5	2.0
55°	0.5	1.0	1.0	1.5	2.0	2.5
57.5°	0.5	1.5	1.5	2.0	2.5	2.5
60°	1.0	1.5	2.0	2.0	2.9	2.9
62.5°	1.0	2.0	2.0	2.0	2.9	2.9
65°	1.0	2.0	2.0	2.5	2.9	2.9
67.5°	1.0	2.0	2.0	2.0	2.5	2.9
70°	1.0	2.0	1.5	2.0	2.5	2.5
72.5°	1.0	2.0	1.5	1.5	2.0	2.5
75°	1.0	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)