

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: P1343576

Luminaire Tested: P3A13R159835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343576
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: P3A13R159835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

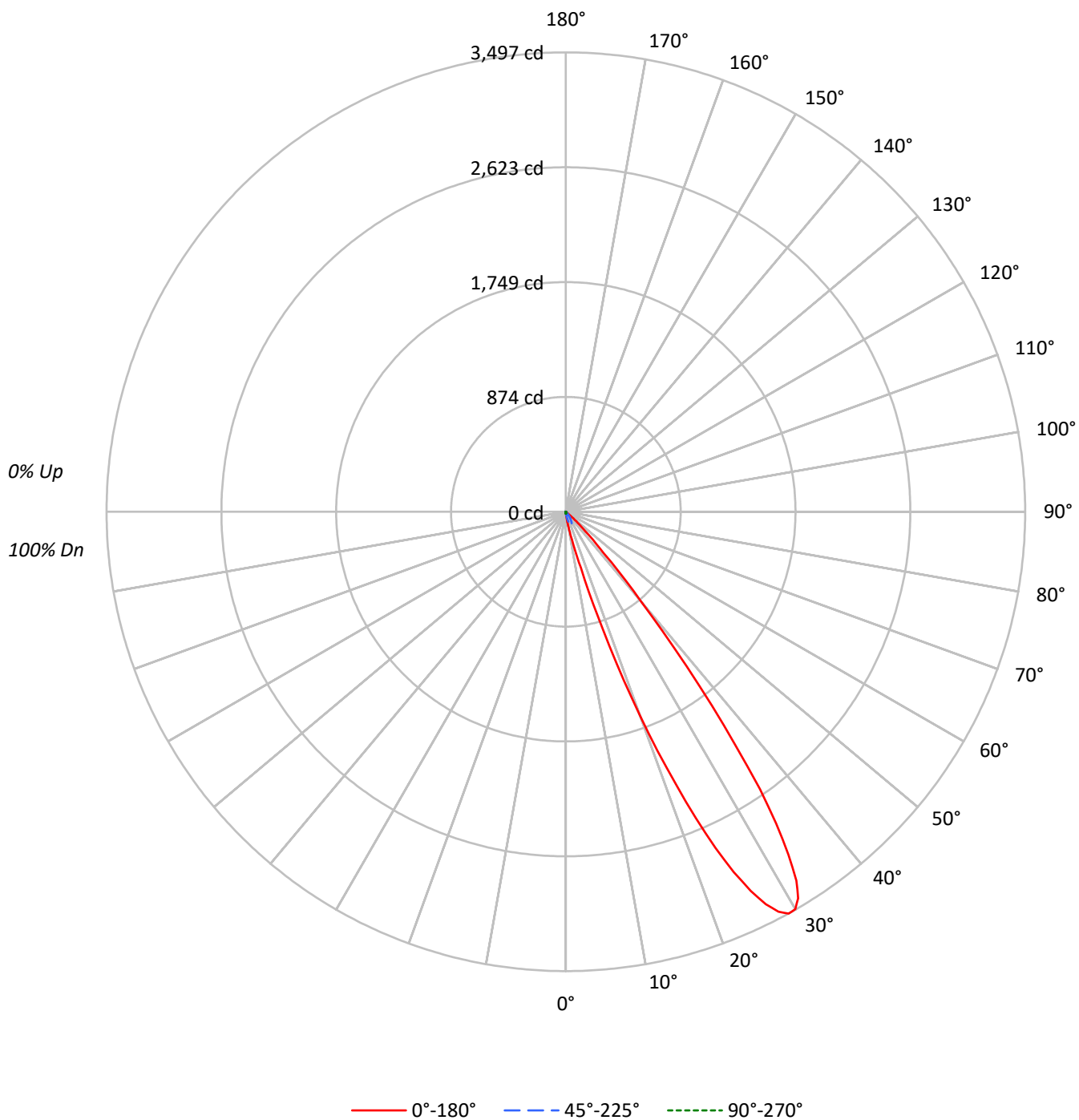
Lumens per Lamp: N/A
Luminaire Lumens: 382.0 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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°	2763	2763	2763	2763	2763
5°	5965	4424	2619	1387	1145
10°	26475	8350	2071	579	423
15°	100137	19319	1430	250	159
20°	385080	27232	863	93	93
25°	732284	25526	460	0	0
30°	884617	20611	177	0	0
35°	689923	14027	107	0	0
40°	251786	6927	115	0	115
45°	64658	2078	124	0	217
50°	10916	239	136	136	375
55°	1415	0	268	421	726
60°	175	175	482	658	965
65°	208	208	778	986	1141
70°	256	256	962	962	1218
75°	339	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	29.3	7.7
20°-30°	162.4	42.5
30°-40°	156.8	41.1
40°-50°	27.3	7.1
50°-60°	2.0	0.5
60°-70°	1.2	0.3
70°-80°	0.9	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°	193.4	50.6
0°-40°	350.2	91.7
0°-60°	379.4	99.3
0°-90°	382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	382.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	27	20	12	6	5	5
15°	441	85	6	1	1	197
25°	3027	106	2	0	0	1353
35°	2577	52	0	0	0	1482
45°	208	7	0	0	1	224
55°	4	0	1	1	2	7
65°	0	0	2	2	2	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°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	18.6	17.8	18.2	18.2	18.2	18.2	18.2	17.5	17.5	17.8	16.0
5°	27.1	27.1	26.8	27.1	27.1	26.8	26.0	25.6	25.6	24.9	20.1
7.5°	54.3	53.5	53.5	52.8	49.0	47.9	47.2	45.3	42.0	41.2	26.0
10°	118.9	119.3	116.7	113.3	113.0	107.4	105.5	102.2	95.9	89.6	37.5
12.5°	215.9	211.1	204.7	205.1	194.3	190.6	182.1	172.8	163.1	153.1	61.7
15°	441.1	427.3	435.5	415.4	392.8	367.1	341.1	308.4	280.6	250.8	85.1
17.5°	929.0	942.4	919.7	833.8	781.1	719.0	631.7	547.4	475.3	417.3	104.0
20°	1650.2	1669.9	1593.0	1518.3	1390.1	1250.4	1104.7	939.8	781.8	645.1	116.7
21°	1951.6	1939.7	1908.1	1788.5	1640.6	1478.6	1300.2	1118.1	926.7	749.1	117.8
22°	2242.9	2248.5	2174.9	2049.7	1895.9	1716.4	1498.6	1273.8	1067.6	833.8	115.9
23°	2533.1	2551.0	2453.6	2336.2	2142.6	1940.1	1688.1	1445.5	1190.6	930.8	112.2
24°	2801.8	2789.5	2723.8	2575.9	2368.9	2131.8	1870.2	1575.9	1291.6	1013.7	109.2
25°	3026.6	3025.1	2921.8	2778.0	2541.3	2278.6	1990.2	1682.6	1378.2	1069.8	105.5
26°	3210.5	3180.4	3099.1	2923.7	2689.9	2412.7	2088.7	1760.2	1426.9	1098.0	101.8
27°	3352.5	3330.9	3221.7	3039.2	2795.1	2488.5	2151.9	1798.9	1449.2	1107.3	97.0
28°	3448.0	3424.6	3308.3	3120.2	2853.1	2536.1	2185.3	1815.2	1449.2	1098.4	92.5
29°	3497.4	3465.4	3349.5	3148.1	2866.4	2541.7	2177.1	1799.2	1426.5	1070.9	87.3
30°	3493.7	3453.9	3332.4	3122.8	2826.7	2496.0	2131.4	1741.6	1375.3	1030.0	81.4
31°	3433.5	3388.9	3253.3	3037.4	2744.6	2409.8	2045.2	1664.4	1305.0	976.9	75.4
32°	3311.2	3254.8	3122.5	2907.3	2618.2	2280.8	1920.0	1545.1	1199.9	899.2	69.1
33°	3112.1	3055.2	2913.3	2711.5	2447.3	2117.3	1753.9	1416.9	1080.2	806.7	63.9
34°	2862.7	2810.7	2688.5	2485.2	2231.8	1910.3	1562.9	1239.6	956.1	714.9	58.3
35°	2577.3	2494.5	2383.7	2222.9	1975.7	1652.5	1356.7	1074.6	828.3	618.7	52.4
36°	2191.3	2206.1	2088.7	1891.8	1687.0	1433.6	1149.7	895.9	692.6	527.3	47.2
37°	1849.0	1825.6	1750.9	1598.6	1420.2	1168.7	963.5	759.5	582.7	445.9	41.6
38°	1491.6	1496.8	1423.6	1306.5	1129.6	960.9	775.5	623.9	487.5	379.4	36.4
39°	1167.5	1163.4	1143.8	1035.2	875.1	764.4	628.4	517.3	406.1	319.9	30.8
40°	879.6	886.2	840.2	774.8	681.5	590.5	500.5	412.5	335.9	269.8	24.2
42.5°	427.7	438.1	407.6	390.9	349.7	314.0	264.9	216.3	183.9	159.0	10.8
45°	208.5	202.5	199.9	191.7	182.1	162.8	144.2	123.7	108.1	93.3	6.7
47.5°	106.6	103.7	103.7	100.3	97.0	90.7	81.4	74.7	67.3	58.0	2.6
50°	32.0	31.6	31.2	31.6	30.5	31.6	32.3	32.7	29.7	29.4	0.7
52.5°	12.6	13.0	12.6	13.7	13.7	13.4	13.7	13.4	13.0	11.5	0.0
55°	3.7	3.7	3.7	3.7	3.7	3.7	4.1	4.5	4.1	4.5	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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°	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	14.9	13.0	10.8	8.9	8.2	7.8
5°	16.0	11.9	8.2	6.3	5.6	5.2
7.5°	17.1	10.8	6.3	4.5	3.3	3.0
10°	17.8	9.3	4.8	2.6	1.9	1.9
12.5°	17.8	7.4	3.3	1.5	1.1	1.1
15°	17.5	6.3	2.2	1.1	0.7	0.7
17.5°	17.1	4.8	1.5	0.7	0.4	0.7
20°	16.0	3.7	0.7	0.4	0.4	0.4
21°	15.6	3.3	0.7	0.4	0.4	0.4
22°	14.9	3.0	0.4	0.0	0.4	0.4
23°	14.1	2.2	0.4	0.0	0.0	0.0
24°	13.0	1.9	0.4	0.0	0.0	0.0
25°	12.3	1.9	0.4	0.0	0.0	0.0
26°	11.5	1.1	0.0	0.0	0.0	0.0
27°	10.4	0.7	0.0	0.0	0.0	0.0
28°	9.7	0.7	0.0	0.0	0.0	0.0
29°	8.5	0.7	0.0	0.0	0.0	0.0
30°	7.4	0.7	0.0	0.0	0.0	0.0
31°	5.9	0.4	0.0	0.0	0.0	0.0
32°	4.8	0.4	0.0	0.0	0.0	0.0
33°	3.3	0.4	0.0	0.0	0.0	0.0
34°	2.2	0.4	0.0	0.0	0.0	0.0
35°	1.9	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.4	0.0	0.0	0.0	0.4
37°	1.1	0.4	0.0	0.0	0.0	0.4
38°	0.7	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	0.7
45°	0.0	0.4	0.0	0.0	0.4	0.7
47.5°	0.0	0.4	0.0	0.0	0.7	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.7	1.1	1.5
55°	0.4	0.7	0.7	1.1	1.5	1.9
57.5°	0.4	1.1	1.1	1.5	1.9	1.9
60°	0.7	1.1	1.5	1.5	2.2	2.2
62.5°	0.7	1.5	1.5	1.5	2.2	2.2
65°	0.7	1.5	1.5	1.9	2.2	2.2
67.5°	0.7	1.5	1.5	1.5	1.9	2.2
70°	0.7	1.5	1.1	1.5	1.9	1.9
72.5°	0.7	1.5	1.1	1.1	1.5	1.9
75°	0.7	1.5	1.1	1.1	1.5	1.5
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)