

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: P1343491

Luminaire Tested: P3A13R159730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343491
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: P3A13R159730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

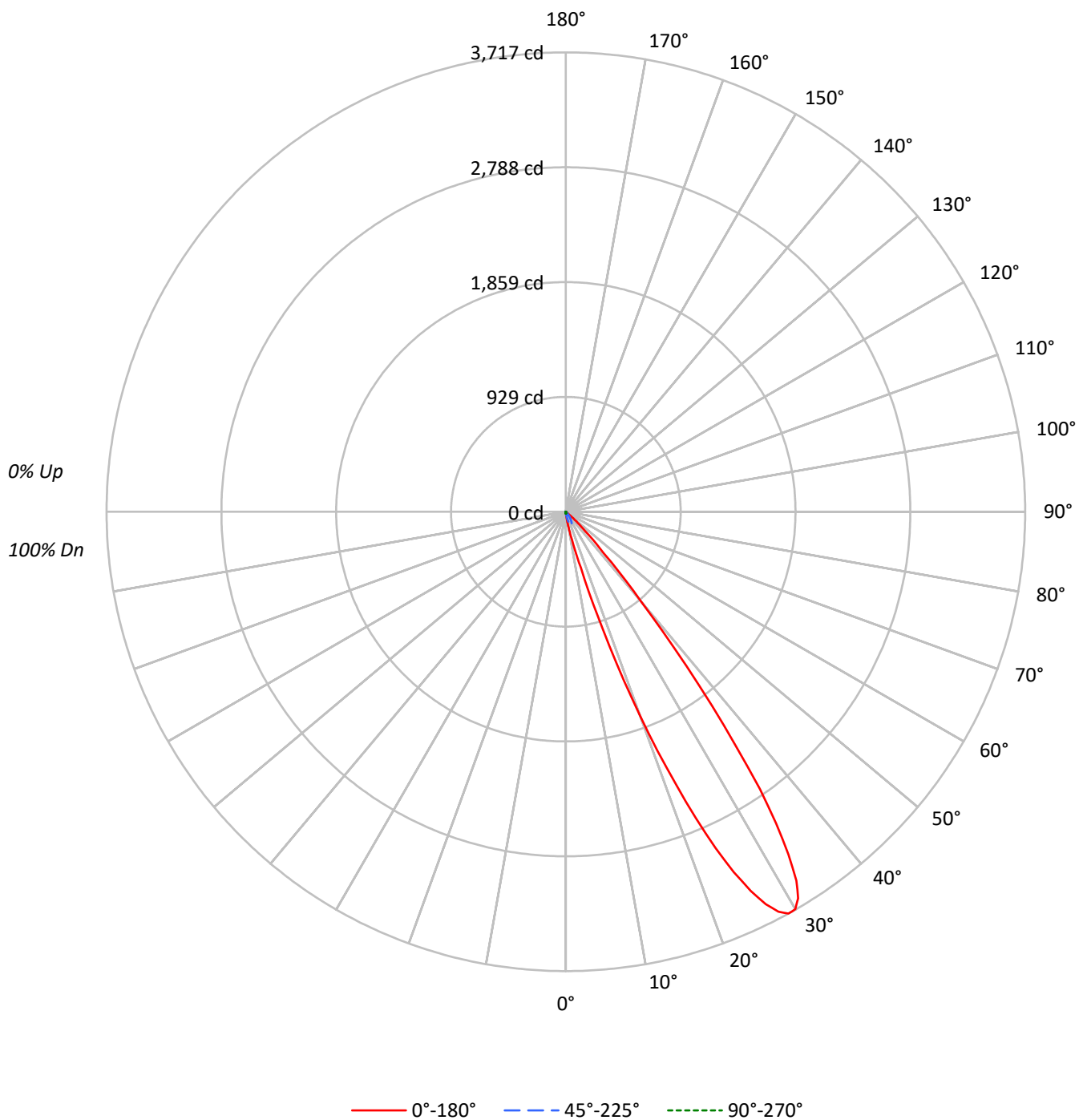
Lumens per Lamp: N/A
Luminaire Lumens: 406.1 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	47	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°	2938	2938	2938	2938	2938
5°	6339	4689	2773	1475	1211
10°	28145	8884	2204	623	445
15°	106425	20522	1521	272	182
20°	409279	28936	910	93	93
25°	778303	27147	484	0	0
30°	940195	21902	203	0	0
35°	733289	14910	107	0	0
40°	267587	7357	115	0	115
45°	68720	2202	124	0	248
50°	11599	273	136	136	409
55°	1491	0	306	459	765
60°	175	175	526	702	1053
65°	208	208	830	1038	1245
70°	256	256	1026	1026	1282
75°	339	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68720 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	31.1	7.7
20°-30°	172.6	42.5
30°-40°	166.7	41.1
40°-50°	29.0	7.1
50°-60°	2.1	0.5
60°-70°	1.2	0.3
70°-80°	1.0	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°	205.5	50.6
0°-40°	372.2	91.7
0°-60°	403.3	99.3
0°-90°	406.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	406.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	29	21	13	7	6	6
15°	469	90	7	1	1	209
25°	3217	112	2	0	0	1438
35°	2739	56	0	0	0	1575
45°	222	7	0	0	1	238
55°	4	0	1	1	2	8
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°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
2.5°	19.7	19.0	19.4	19.4	19.4	19.4	19.4	18.6	18.6	19.0	17.0
5°	28.8	28.8	28.4	28.8	28.8	28.4	27.6	27.3	27.3	26.5	21.3
7.5°	57.7	56.9	56.9	56.1	52.1	50.9	50.2	48.2	44.6	43.8	27.6
10°	126.4	126.8	124.0	120.5	120.1	114.1	112.2	108.6	101.9	95.2	39.9
12.5°	229.5	224.3	217.6	218.0	206.6	202.6	193.5	183.6	173.4	162.7	65.6
15°	468.8	454.2	462.9	441.5	417.4	390.2	362.6	327.8	298.2	266.6	90.4
17.5°	987.3	1001.6	977.5	886.2	830.2	764.2	671.4	581.7	505.1	443.5	110.6
20°	1753.9	1774.8	1693.1	1613.7	1477.5	1329.0	1174.1	998.8	830.9	685.6	124.0
21°	2074.2	2061.6	2028.0	1900.8	1743.6	1571.5	1381.9	1188.4	985.0	796.2	125.2
22°	2383.8	2389.8	2311.6	2178.5	2015.0	1824.2	1592.8	1353.8	1134.7	886.2	123.2
23°	2692.3	2711.2	2607.8	2483.0	2277.2	2062.0	1794.2	1536.3	1265.4	989.3	119.3
24°	2977.8	2964.8	2894.9	2737.7	2517.7	2265.7	1987.7	1674.9	1372.8	1077.4	116.1
25°	3216.8	3215.2	3105.4	2952.5	2701.0	2421.7	2115.3	1788.3	1464.8	1137.0	112.2
26°	3412.2	3380.3	3293.8	3107.4	2858.9	2564.3	2219.9	1870.8	1516.6	1167.0	108.2
27°	3563.1	3540.2	3424.1	3230.2	2970.7	2644.9	2287.1	1911.9	1540.3	1176.9	103.1
28°	3664.6	3639.7	3516.1	3316.3	3032.3	2695.4	2322.6	1929.3	1540.3	1167.4	98.3
29°	3717.1	3683.2	3560.0	3345.9	3046.5	2701.4	2313.9	1912.3	1516.2	1138.2	92.8
30°	3713.2	3670.9	3541.8	3319.0	3004.3	2652.8	2265.4	1851.1	1461.7	1094.8	86.5
31°	3649.2	3601.8	3457.7	3228.2	2917.0	2561.2	2173.7	1768.9	1387.0	1038.3	80.2
32°	3519.3	3459.2	3318.6	3090.0	2782.7	2424.1	2040.6	1642.1	1275.2	955.7	73.5
33°	3307.6	3247.2	3096.3	2881.8	2601.0	2250.3	1864.1	1505.9	1148.1	857.4	67.9
34°	3042.6	2987.3	2857.4	2641.3	2372.0	2030.4	1661.1	1317.5	1016.2	759.9	62.0
35°	2739.3	2651.2	2533.5	2362.5	2099.9	1756.3	1441.9	1142.2	880.3	657.6	55.7
36°	2328.9	2344.7	2219.9	2010.6	1793.0	1523.7	1221.9	952.2	736.2	560.4	50.2
37°	1965.2	1940.3	1860.9	1699.0	1509.4	1242.1	1024.1	807.2	619.3	473.9	44.2
38°	1585.3	1590.8	1513.0	1388.6	1200.6	1021.3	824.2	663.1	518.2	403.2	38.7
39°	1240.9	1236.5	1215.6	1100.3	930.1	812.4	667.8	549.8	431.7	340.0	32.8
40°	934.8	941.9	893.0	823.4	724.3	627.6	532.0	438.4	357.0	286.7	25.7
42.5°	454.6	465.6	433.2	415.5	371.6	333.7	281.6	229.9	195.5	169.0	11.5
45°	221.6	215.2	212.5	203.8	193.5	173.0	153.2	131.5	114.9	99.1	7.1
47.5°	113.3	110.2	110.2	106.6	103.1	96.4	86.5	79.4	71.5	61.6	2.8
50°	34.0	33.6	33.2	33.6	32.4	33.6	34.4	34.8	31.6	31.2	0.8
52.5°	13.4	13.8	13.4	14.6	14.6	14.2	14.6	14.2	13.8	12.2	0.0
55°	3.9	3.9	3.9	3.9	3.9	3.9	4.3	4.7	4.3	4.7	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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°	13.4	13.4	13.4	13.4	13.4	13.4
2.5°	15.8	13.8	11.5	9.5	8.7	8.3
5°	17.0	12.6	8.7	6.7	5.9	5.5
7.5°	18.2	11.5	6.7	4.7	3.6	3.2
10°	19.0	9.9	5.1	2.8	2.0	2.0
12.5°	19.0	7.9	3.6	1.6	1.2	1.2
15°	18.6	6.7	2.4	1.2	0.8	0.8
17.5°	18.2	5.1	1.6	0.8	0.4	0.8
20°	17.0	3.9	0.8	0.4	0.4	0.4
21°	16.6	3.6	0.8	0.4	0.4	0.4
22°	15.8	3.2	0.4	0.0	0.4	0.4
23°	15.0	2.4	0.4	0.0	0.0	0.0
24°	13.8	2.0	0.4	0.0	0.0	0.0
25°	13.0	2.0	0.4	0.0	0.0	0.0
26°	12.2	1.2	0.0	0.0	0.0	0.0
27°	11.1	0.8	0.0	0.0	0.0	0.0
28°	10.3	0.8	0.0	0.0	0.0	0.0
29°	9.1	0.8	0.0	0.0	0.0	0.0
30°	7.9	0.8	0.0	0.0	0.0	0.0
31°	6.3	0.4	0.0	0.0	0.0	0.0
32°	5.1	0.4	0.0	0.0	0.0	0.0
33°	3.6	0.4	0.0	0.0	0.0	0.0
34°	2.4	0.4	0.0	0.0	0.0	0.0
35°	2.0	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.4	0.0	0.0	0.0	0.4
37°	1.2	0.4	0.0	0.0	0.0	0.4
38°	0.8	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	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.8	1.2	1.6
55°	0.4	0.8	0.8	1.2	1.6	2.0
57.5°	0.4	1.2	1.2	1.6	2.0	2.0
60°	0.8	1.2	1.6	1.6	2.4	2.4
62.5°	0.8	1.6	1.6	1.6	2.4	2.4
65°	0.8	1.6	1.6	2.0	2.4	2.4
67.5°	0.8	1.6	1.6	1.6	2.0	2.4
70°	0.8	1.6	1.2	1.6	2.0	2.0
72.5°	0.8	1.6	1.2	1.2	1.6	2.0
75°	0.8	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)