

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: P1343507

Luminaire Tested: P3A13R159735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343507
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 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

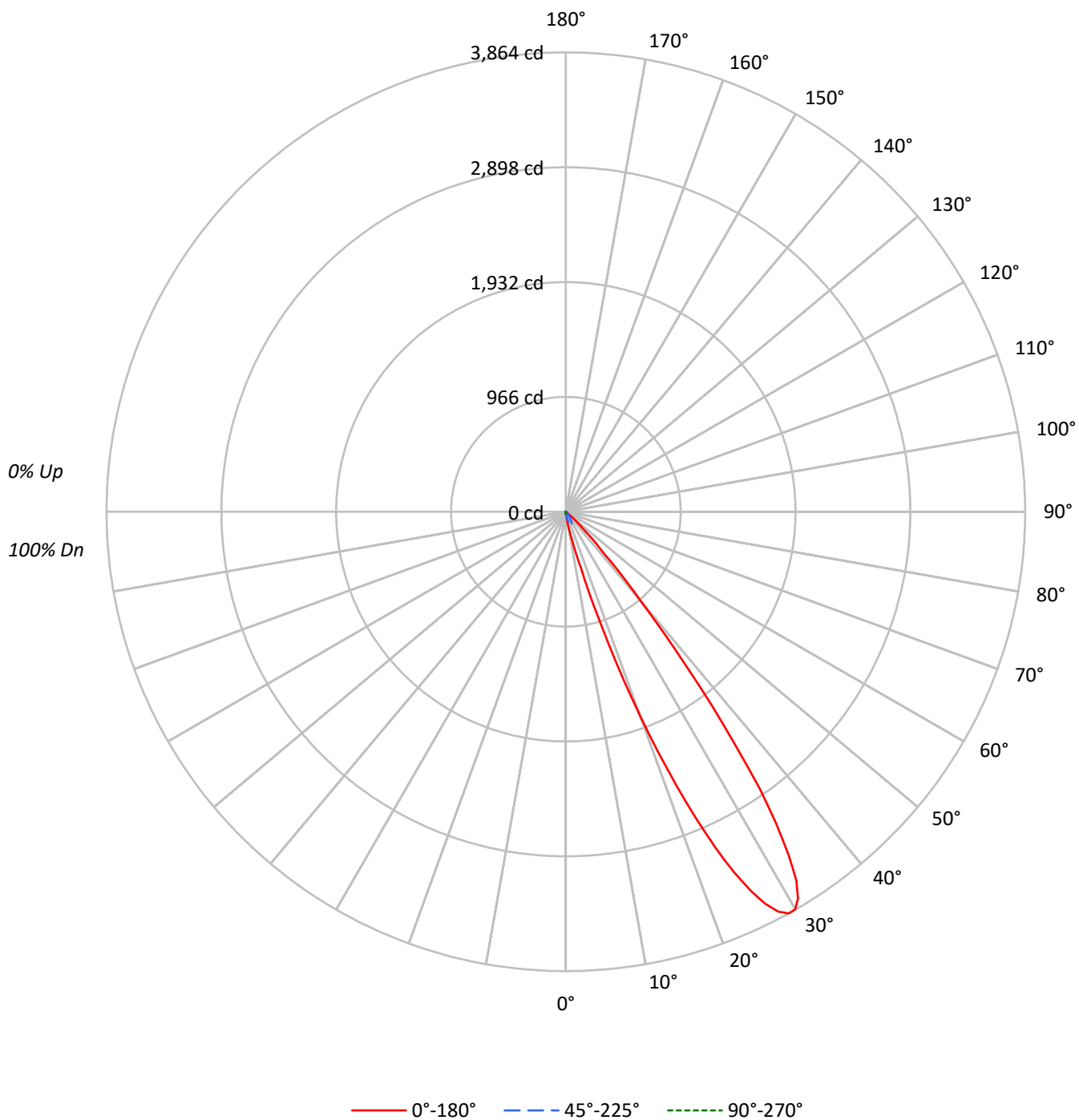
Lumens per Lamp: N/A
Luminaire Lumens: 421.9 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3070	3070	3070	3070	3070
5°	6604	4887	2884	1541	1255
10°	29258	9241	2293	646	468
15°	110625	21340	1589	272	182
20°	425404	30079	957	93	93
25°	808958	28211	508	0	0
30°	977239	22763	203	0	0
35°	762173	15499	107	0	0
40°	278150	7643	115	0	115
45°	71418	2295	124	0	248
50°	12042	273	136	136	409
55°	1567	0	306	459	803
60°	175	175	526	702	1096
65°	208	208	830	1090	1297
70°	256	256	1026	1026	1346
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: 71418 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	32.3	7.7
20°-30°	179.4	42.5
30°-40°	173.3	41.1
40°-50°	30.1	7.1
50°-60°	2.2	0.5
60°-70°	1.3	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°	213.6	50.6
0°-40°	386.9	91.7
0°-60°	419.2	99.3
0°-90°	421.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	30	22	13	7	6	6
15°	487	94	7	1	1	217
25°	3344	117	2	0	0	1495
35°	2847	58	0	0	0	1637
45°	230	7	0	0	1	247
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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	20.5	19.7	20.1	20.1	20.1	20.1	20.1	19.3	19.3	19.7	17.7
5°	30.0	30.0	29.6	30.0	30.0	29.6	28.7	28.3	28.3	27.5	22.2
7.5°	59.9	59.1	59.1	58.3	54.2	53.0	52.1	50.1	46.4	45.6	28.7
10°	131.4	131.8	128.9	125.2	124.8	118.6	116.6	112.9	105.9	98.9	41.5
12.5°	238.5	233.2	226.2	226.6	214.7	210.6	201.1	190.9	180.2	169.1	68.1
15°	487.3	472.1	481.1	458.9	433.9	405.6	376.8	340.7	309.9	277.1	94.0
17.5°	1026.2	1041.0	1016.0	921.2	862.9	794.3	697.8	604.7	525.0	461.0	114.9
20°	1823.0	1844.8	1759.8	1677.3	1535.7	1381.3	1220.4	1038.2	863.7	712.6	128.9
21°	2155.9	2142.8	2107.9	1975.7	1812.4	1633.4	1436.3	1235.2	1023.8	827.6	130.1
22°	2477.8	2483.9	2402.7	2264.3	2094.4	1896.1	1655.5	1407.2	1179.4	921.2	128.1
23°	2798.4	2818.1	2710.5	2580.8	2366.9	2143.2	1864.9	1596.8	1315.2	1028.3	124.0
24°	3095.2	3081.6	3009.0	2845.6	2616.9	2355.0	2066.0	1740.9	1426.9	1119.8	120.7
25°	3343.5	3341.9	3227.8	3068.9	2807.4	2517.2	2198.6	1858.7	1522.5	1181.8	116.6
26°	3546.7	3513.5	3423.6	3229.8	2971.6	2665.4	2307.4	1944.5	1576.3	1213.0	112.5
27°	3703.5	3679.7	3559.0	3357.5	3087.8	2749.1	2377.2	1987.2	1600.9	1223.3	107.1
28°	3809.0	3783.2	3654.7	3447.0	3151.8	2801.7	2414.1	2005.3	1600.9	1213.4	102.2
29°	3863.6	3828.3	3700.2	3477.8	3166.6	2807.8	2405.1	1987.6	1575.9	1183.1	96.5
30°	3859.5	3815.6	3681.4	3449.8	3122.7	2757.3	2354.6	1924.0	1519.3	1137.9	89.9
31°	3793.0	3743.8	3593.9	3355.4	3032.0	2662.1	2259.4	1838.6	1441.7	1079.2	83.3
32°	3658.0	3595.6	3449.4	3211.8	2892.4	2519.6	2121.1	1706.9	1325.5	993.4	76.4
33°	3437.9	3375.1	3218.3	2995.4	2703.6	2339.0	1937.6	1565.2	1193.3	891.2	70.6
34°	3162.5	3105.0	2970.0	2745.4	2465.5	2110.4	1726.6	1369.4	1056.2	789.8	64.4
35°	2847.2	2755.7	2633.4	2455.6	2182.6	1825.5	1498.7	1187.2	915.0	683.5	57.9
36°	2420.7	2437.1	2307.4	2089.9	1863.7	1583.7	1270.1	989.7	765.2	582.5	52.1
37°	2042.6	2016.8	1934.3	1766.0	1568.9	1291.0	1064.4	839.1	643.7	492.6	46.0
38°	1647.7	1653.5	1572.6	1443.3	1247.9	1061.6	856.7	689.2	538.6	419.1	40.2
39°	1289.8	1285.3	1263.5	1143.7	966.7	844.4	694.2	571.4	448.7	353.4	34.1
40°	971.7	979.0	928.1	855.9	752.9	652.3	552.9	455.7	371.1	298.0	26.7
42.5°	472.5	484.0	450.3	431.8	386.3	346.9	292.7	238.9	203.2	175.7	11.9
45°	230.3	223.7	220.8	211.8	201.1	179.8	159.3	136.7	119.5	103.0	7.4
47.5°	117.8	114.5	114.5	110.8	107.1	100.2	89.9	82.5	74.3	64.0	2.9
50°	35.3	34.9	34.5	34.9	33.7	34.9	35.7	36.1	32.8	32.4	0.8
52.5°	14.0	14.4	14.0	15.2	15.2	14.8	15.2	14.8	14.4	12.7	0.0
55°	4.1	4.1	4.1	4.1	4.1	4.1	4.5	4.9	4.5	4.9	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°	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	16.4	14.4	11.9	9.9	9.0	8.6
5°	17.7	13.1	9.0	7.0	6.2	5.7
7.5°	18.9	11.9	7.0	4.9	3.7	3.3
10°	19.7	10.3	5.3	2.9	2.1	2.1
12.5°	19.7	8.2	3.7	1.6	1.2	1.2
15°	19.3	7.0	2.5	1.2	0.8	0.8
17.5°	18.9	5.3	1.6	0.8	0.4	0.8
20°	17.7	4.1	0.8	0.4	0.4	0.4
21°	17.2	3.7	0.8	0.4	0.4	0.4
22°	16.4	3.3	0.4	0.0	0.4	0.4
23°	15.6	2.5	0.4	0.0	0.0	0.0
24°	14.4	2.1	0.4	0.0	0.0	0.0
25°	13.5	2.1	0.4	0.0	0.0	0.0
26°	12.7	1.2	0.0	0.0	0.0	0.0
27°	11.5	0.8	0.0	0.0	0.0	0.0
28°	10.7	0.8	0.0	0.0	0.0	0.0
29°	9.4	0.8	0.0	0.0	0.0	0.0
30°	8.2	0.8	0.0	0.0	0.0	0.0
31°	6.6	0.4	0.0	0.0	0.0	0.0
32°	5.3	0.4	0.0	0.0	0.0	0.0
33°	3.7	0.4	0.0	0.0	0.0	0.0
34°	2.5	0.4	0.0	0.0	0.0	0.0
35°	2.1	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	2.1
57.5°	0.4	1.2	1.2	1.6	2.1	2.1
60°	0.8	1.2	1.6	1.6	2.5	2.5
62.5°	0.8	1.6	1.6	1.6	2.5	2.5
65°	0.8	1.6	1.6	2.1	2.5	2.5
67.5°	0.8	1.6	1.6	1.6	2.1	2.5
70°	0.8	1.6	1.2	1.6	2.1	2.1
72.5°	0.8	1.6	1.2	1.2	1.6	2.1
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)