

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: P1343373

Luminaire Tested: P3A13R159024DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343373
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: P3A13R159024DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

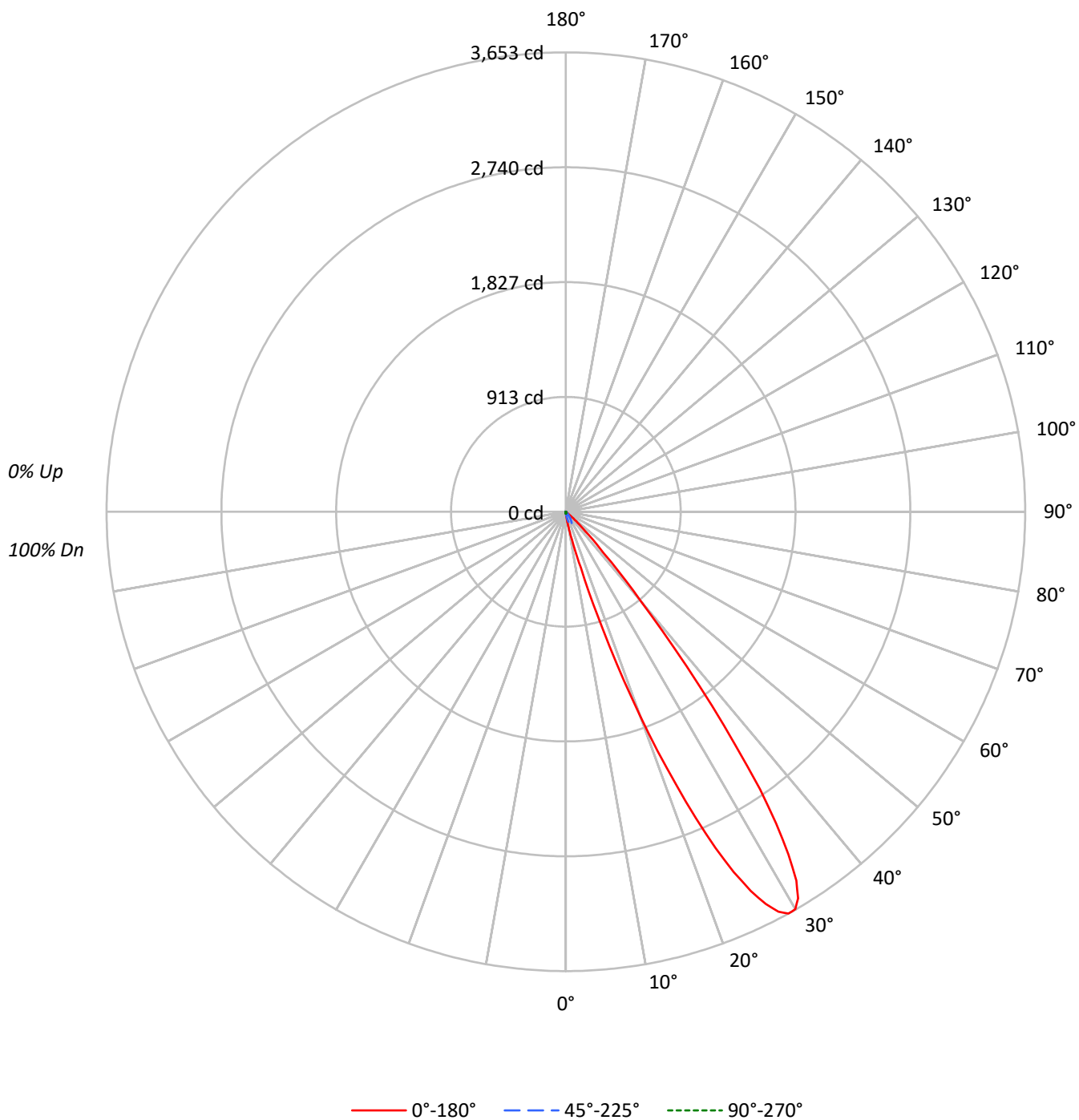
Lumens per Lamp: N/A
Luminaire Lumens: 399.1 lumens
Efficiency: N/A
Efficacy: 27.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	98	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	52	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°	2895	2895	2895	2895	2895
5°	6229	4622	2729	1453	1189
10°	27655	8728	2160	601	423
15°	104586	20182	1498	272	182
20°	402232	28446	910	93	93
25°	764875	26663	460	0	0
30°	923990	21522	203	0	0
35°	720628	14643	107	0	0
40°	262978	7214	115	0	115
45°	67511	2171	124	0	248
50°	11394	273	136	136	409
55°	1491	0	306	459	726
60°	175	175	526	702	1009
65°	208	208	830	986	1193
70°	256	256	1026	1026	1218
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: 67511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	30.6	7.7
20°-30°	169.6	42.5
30°-40°	163.8	41.1
40°-50°	28.5	7.1
50°-60°	2.1	0.5
60°-70°	1.2	0.3
70°-80°	1.0	0.3
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°	202.0	50.6
0°-40°	365.8	91.7
0°-60°	396.3	99.3
0°-90°	399.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	399.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	21	12	7	5	6
15°	461	89	7	1	1	205
25°	3161	110	2	0	0	1413
35°	2692	55	0	0	0	1548
45°	218	7	0	0	1	234
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°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	19.4	18.6	19.0	19.0	19.0	19.0	19.0	18.2	18.2	18.6	16.7
5°	28.3	28.3	27.9	28.3	28.3	27.9	27.2	26.8	26.8	26.0	21.0
7.5°	56.7	55.9	55.9	55.1	51.2	50.1	49.3	47.4	43.9	43.1	27.2
10°	124.2	124.6	121.9	118.4	118.0	112.2	110.2	106.7	100.1	93.5	39.2
12.5°	225.5	220.5	213.9	214.2	203.0	199.1	190.2	180.5	170.4	159.9	64.4
15°	460.7	446.3	454.9	433.9	410.2	383.5	356.3	322.1	293.0	262.0	88.9
17.5°	970.3	984.3	960.6	871.0	815.8	751.0	659.8	571.7	496.4	435.9	108.7
20°	1723.7	1744.2	1663.9	1585.9	1452.0	1306.0	1153.9	981.6	816.6	673.8	121.9
21°	2038.4	2026.0	1993.0	1868.1	1713.6	1544.4	1358.1	1167.9	968.0	782.5	123.0
22°	2342.7	2348.6	2271.7	2140.9	1980.2	1792.8	1565.3	1330.5	1115.1	871.0	121.1
23°	2645.9	2664.5	2562.8	2440.2	2237.9	2026.4	1763.3	1509.8	1243.6	972.3	117.2
24°	2926.5	2913.7	2845.0	2690.5	2474.3	2226.7	1953.4	1646.0	1349.1	1058.8	114.1
25°	3161.3	3159.7	3051.8	2901.6	2654.4	2380.0	2078.8	1757.4	1439.6	1117.4	110.2
26°	3353.4	3322.0	3237.0	3053.8	2809.6	2520.1	2181.7	1838.6	1490.4	1146.9	106.3
27°	3501.7	3479.2	3365.1	3174.5	2919.5	2599.3	2247.6	1878.9	1513.7	1156.6	101.3
28°	3601.4	3577.0	3455.5	3259.1	2980.0	2649.0	2282.6	1896.0	1513.7	1147.3	96.6
29°	3653.0	3619.7	3498.6	3288.2	2994.0	2654.8	2274.0	1879.3	1490.0	1118.6	91.2
30°	3649.2	3607.6	3480.7	3261.8	2952.5	2607.0	2226.3	1819.1	1436.5	1075.9	85.0
31°	3586.3	3539.7	3398.0	3172.5	2866.7	2517.0	2136.2	1738.4	1363.1	1020.4	78.8
32°	3458.6	3399.6	3261.4	3036.7	2734.7	2382.3	2005.5	1613.8	1253.3	939.3	72.2
33°	3250.6	3191.2	3042.9	2832.2	2556.2	2211.5	1832.0	1479.9	1128.3	842.6	66.8
34°	2990.1	2935.8	2808.1	2595.8	2331.1	1995.4	1632.5	1294.8	998.6	746.8	60.9
35°	2692.0	2605.5	2489.8	2321.8	2063.7	1726.0	1417.1	1122.5	865.1	646.2	54.7
36°	2288.8	2304.3	2181.7	1976.0	1762.1	1497.4	1200.9	935.8	723.5	550.8	49.3
37°	1931.3	1906.9	1828.9	1669.7	1483.4	1220.7	1006.4	793.3	608.6	465.8	43.5
38°	1557.9	1563.4	1486.9	1364.7	1179.9	1003.7	810.0	651.7	509.2	396.3	38.0
39°	1219.5	1215.2	1194.7	1081.3	914.0	798.4	656.3	540.3	424.2	334.2	32.2
40°	918.7	925.7	877.6	809.2	711.8	616.7	522.8	430.8	350.9	281.8	25.2
42.5°	446.7	457.6	425.8	408.3	365.2	328.0	276.7	225.9	192.1	166.1	11.3
45°	217.7	211.5	208.8	200.3	190.2	170.0	150.6	129.2	112.9	97.4	7.0
47.5°	111.4	108.3	108.3	104.8	101.3	94.7	85.0	78.0	70.3	60.5	2.7
50°	33.4	33.0	32.6	33.0	31.8	33.0	33.8	34.2	31.1	30.7	0.8
52.5°	13.2	13.6	13.2	14.4	14.4	14.0	14.4	14.0	13.6	12.0	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°	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	15.5	13.6	11.3	9.3	8.5	8.2
5°	16.7	12.4	8.5	6.6	5.8	5.4
7.5°	17.9	11.3	6.6	4.7	3.5	3.1
10°	18.6	9.7	5.0	2.7	1.9	1.9
12.5°	18.6	7.8	3.5	1.6	1.2	1.2
15°	18.2	6.6	2.3	1.2	0.8	0.8
17.5°	17.9	5.0	1.6	0.8	0.4	0.8
20°	16.7	3.9	0.8	0.4	0.4	0.4
21°	16.3	3.5	0.8	0.4	0.4	0.4
22°	15.5	3.1	0.4	0.0	0.4	0.4
23°	14.7	2.3	0.4	0.0	0.0	0.0
24°	13.6	1.9	0.4	0.0	0.0	0.0
25°	12.8	1.9	0.4	0.0	0.0	0.0
26°	12.0	1.2	0.0	0.0	0.0	0.0
27°	10.9	0.8	0.0	0.0	0.0	0.0
28°	10.1	0.8	0.0	0.0	0.0	0.0
29°	8.9	0.8	0.0	0.0	0.0	0.0
30°	7.8	0.8	0.0	0.0	0.0	0.0
31°	6.2	0.4	0.0	0.0	0.0	0.0
32°	5.0	0.4	0.0	0.0	0.0	0.0
33°	3.5	0.4	0.0	0.0	0.0	0.0
34°	2.3	0.4	0.0	0.0	0.0	0.0
35°	1.9	0.4	0.0	0.0	0.0	0.0
36°	1.2	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	1.9
57.5°	0.4	1.2	1.2	1.6	1.9	1.9
60°	0.8	1.2	1.6	1.6	2.3	2.3
62.5°	0.8	1.6	1.6	1.6	2.3	2.3
65°	0.8	1.6	1.6	1.9	2.3	2.3
67.5°	0.8	1.6	1.6	1.6	1.9	2.3
70°	0.8	1.6	1.2	1.6	1.9	1.9
72.5°	0.8	1.6	1.2	1.2	1.6	1.9
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)