

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: P1343975

Luminaire Tested: P3A13R209727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

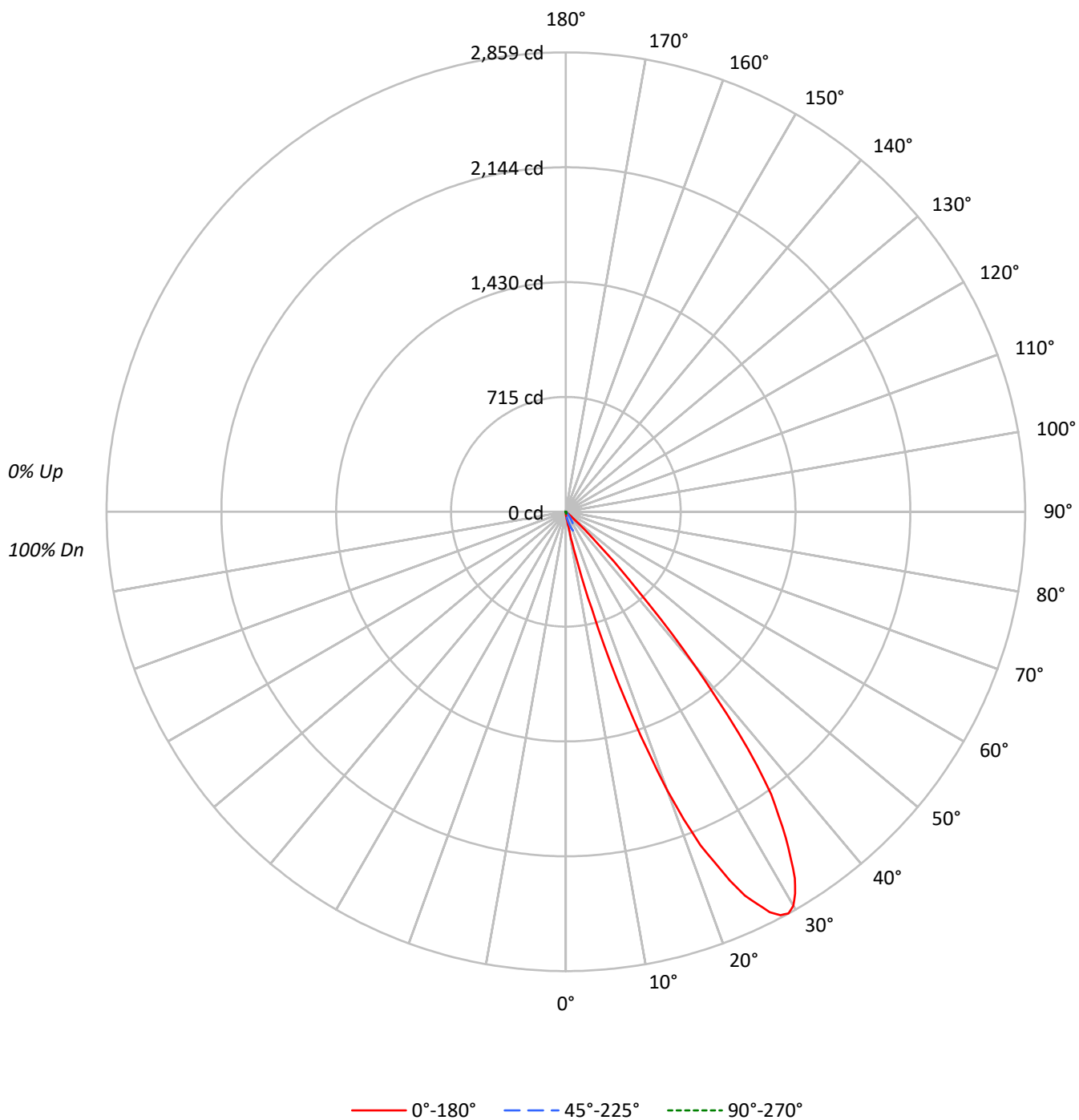
Lumens per Lamp: N/A
Luminaire Lumens: 401.1 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3026	3026	3026	3026	3026
5°	6978	5195	2884	1761	1519
10°	21955	9062	2360	980	735
15°	142226	16776	1725	341	91
20°	429231	28702	1190	0	0
25°	637464	28961	702	0	0
30°	716844	22003	279	0	0
35°	618503	13144	187	0	0
40°	356153	4466	0	0	0
45°	86862	1799	124	0	124
50°	10439	512	136	136	375
55°	1376	0	268	268	573
60°	175	0	482	482	789
65°	208	208	778	778	1141
70°	256	256	962	962	1154
75°	0	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 87420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	37.2	9.3
20°-30°	162.0	40.4
30°-40°	163.1	40.7
40°-50°	32.7	8.2
50°-60°	1.6	0.4
60°-70°	1.1	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°	201.0	50.1
0°-40°	364.1	90.8
0°-60°	398.5	99.4
0°-90°	401.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	32	24	13	8	7	5
15°	626	74	8	2	0	245
25°	2635	120	3	0	0	1188
35°	2310	49	1	0	0	1375
45°	280	6	0	0	0	305
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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	20.7	20.7	20.4	20.4	20.0	20.4	19.6	20.0	20.0	19.6	17.8
5°	31.7	32.4	32.0	32.0	31.7	32.0	31.3	30.6	29.8	29.8	23.6
7.5°	52.0	51.7	50.9	51.3	50.2	49.5	48.7	48.4	46.2	45.1	30.9
10°	98.6	100.8	99.0	98.6	92.0	91.7	87.3	81.1	75.7	72.8	40.7
12.5°	271.4	283.0	264.8	256.1	251.0	231.4	223.0	201.5	180.8	165.2	51.7
15°	626.5	655.2	618.5	621.0	590.5	534.4	485.3	443.1	393.3	343.1	73.9
17.5°	1227.5	1204.2	1184.2	1150.3	1088.1	1005.9	900.0	792.7	700.0	602.8	103.0
20°	1839.4	1818.6	1773.2	1699.3	1620.0	1498.1	1372.3	1211.1	1055.0	908.8	123.0
21°	2050.0	2043.1	1968.5	1923.1	1800.8	1684.4	1539.2	1366.8	1191.1	1017.9	126.2
22°	2238.1	2196.6	2156.6	2089.3	1967.8	1841.2	1679.7	1498.1	1307.5	1115.1	126.6
23°	2368.4	2349.4	2311.6	2235.6	2114.8	1966.0	1795.7	1605.8	1405.0	1183.8	125.5
24°	2512.4	2488.4	2433.1	2344.3	2222.5	2075.5	1881.2	1692.8	1474.5	1241.7	122.6
25°	2634.7	2597.2	2531.7	2436.0	2302.9	2151.2	1955.8	1748.8	1522.9	1280.6	119.7
26°	2714.0	2693.6	2609.6	2505.5	2362.9	2206.5	2007.1	1791.7	1554.2	1298.4	115.0
27°	2796.5	2759.1	2676.5	2556.8	2402.2	2242.5	2036.2	1812.5	1565.1	1299.1	109.1
28°	2843.8	2803.1	2709.6	2583.7	2427.7	2262.5	2052.9	1819.0	1562.9	1287.9	102.2
29°	2858.8	2807.5	2716.1	2588.1	2433.8	2263.9	2050.4	1809.6	1543.6	1260.2	94.2
30°	2831.1	2778.7	2692.1	2567.4	2414.2	2245.7	2026.7	1778.3	1509.4	1220.6	86.9
31°	2770.7	2726.3	2642.7	2517.5	2370.5	2203.2	1973.3	1727.0	1451.2	1167.4	78.6
32°	2691.0	2647.4	2565.2	2452.0	2302.5	2133.7	1900.1	1646.9	1382.8	1088.1	70.2
33°	2571.4	2546.3	2472.4	2364.3	2214.8	2034.4	1801.9	1551.3	1285.3	1000.1	62.9
34°	2450.2	2418.6	2366.9	2248.7	2087.9	1907.8	1673.9	1419.2	1166.3	901.5	56.0
35°	2310.5	2291.6	2210.5	2115.9	1954.3	1770.3	1537.8	1290.8	1027.7	791.6	49.1
36°	2175.2	2146.1	2053.7	1953.6	1796.8	1597.8	1368.3	1136.2	908.0	688.7	41.8
37°	1978.7	1934.3	1868.5	1763.0	1579.6	1410.1	1200.5	985.2	760.7	577.4	33.8
38°	1747.7	1727.0	1635.7	1529.4	1377.7	1216.9	1009.6	826.9	627.6	482.0	25.8
39°	1475.2	1474.9	1387.5	1310.8	1162.3	1017.6	830.6	671.2	518.1	388.2	20.0
40°	1244.2	1201.3	1147.4	1051.0	937.2	814.2	650.5	525.3	402.0	312.9	15.6
42.5°	652.3	648.7	617.0	544.6	480.9	408.5	324.9	270.7	211.7	172.4	9.8
45°	280.1	281.9	260.1	249.2	224.5	194.3	164.1	136.8	117.1	95.0	5.8
47.5°	70.9	68.0	67.3	69.8	69.8	67.7	60.8	57.1	52.8	48.4	3.3
50°	30.6	29.8	29.1	29.1	27.3	26.2	24.4	22.2	20.4	18.2	1.5
52.5°	11.3	11.6	12.0	11.6	11.6	11.3	11.3	10.9	9.8	8.7	0.7
55°	3.6	3.6	3.6	4.0	4.0	4.4	4.4	4.4	4.4	4.0	0.0
57.5°	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
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	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	16.0	14.2	12.0	10.2	9.8	9.5
5°	17.8	13.1	9.8	8.0	7.3	6.9
7.5°	19.3	12.0	8.0	5.8	5.1	4.7
10°	20.0	10.6	6.5	4.4	3.3	3.3
12.5°	20.4	9.1	4.7	2.9	1.8	1.8
15°	20.0	7.6	3.6	1.5	0.4	0.4
17.5°	18.2	6.2	2.2	0.4	0.0	0.0
20°	15.6	5.1	1.5	0.0	0.0	0.0
21°	14.9	4.4	1.1	0.0	0.0	0.0
22°	13.8	4.0	0.7	0.0	0.0	0.0
23°	12.7	3.6	0.7	0.0	0.0	0.0
24°	11.6	3.3	0.4	0.0	0.0	0.0
25°	10.9	2.9	0.4	0.0	0.0	0.0
26°	10.2	2.5	0.4	0.0	0.0	0.0
27°	9.1	2.2	0.0	0.0	0.0	0.0
28°	8.4	1.8	0.0	0.0	0.0	0.0
29°	7.3	1.5	0.0	0.0	0.0	0.0
30°	6.2	1.1	0.0	0.0	0.0	0.0
31°	5.1	1.1	0.0	0.0	0.0	0.0
32°	4.4	0.7	0.0	0.0	0.0	0.0
33°	3.6	0.7	0.0	0.0	0.0	0.0
34°	3.3	0.7	0.0	0.0	0.0	0.0
35°	2.9	0.7	0.0	0.0	0.0	0.0
36°	2.2	0.4	0.0	0.0	0.0	0.0
37°	1.8	0.4	0.0	0.0	0.0	0.0
38°	1.5	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.4	1.1	1.1
55°	0.4	0.7	0.4	0.7	1.5	1.5
57.5°	0.4	0.7	0.7	1.1	1.5	1.8
60°	0.7	1.1	1.1	1.1	1.8	1.8
62.5°	0.7	1.1	1.5	1.5	1.8	2.2
65°	0.7	1.5	1.5	1.5	1.8	2.2
67.5°	1.1	1.5	1.5	1.5	1.8	2.2
70°	1.1	1.5	1.5	1.5	1.8	1.8
72.5°	1.1	1.5	1.1	1.5	1.5	1.8
75°	1.1	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	0.7	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)