

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: P1343555

Luminaire Tested: P3A13R159830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343555
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: P3A13R159830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

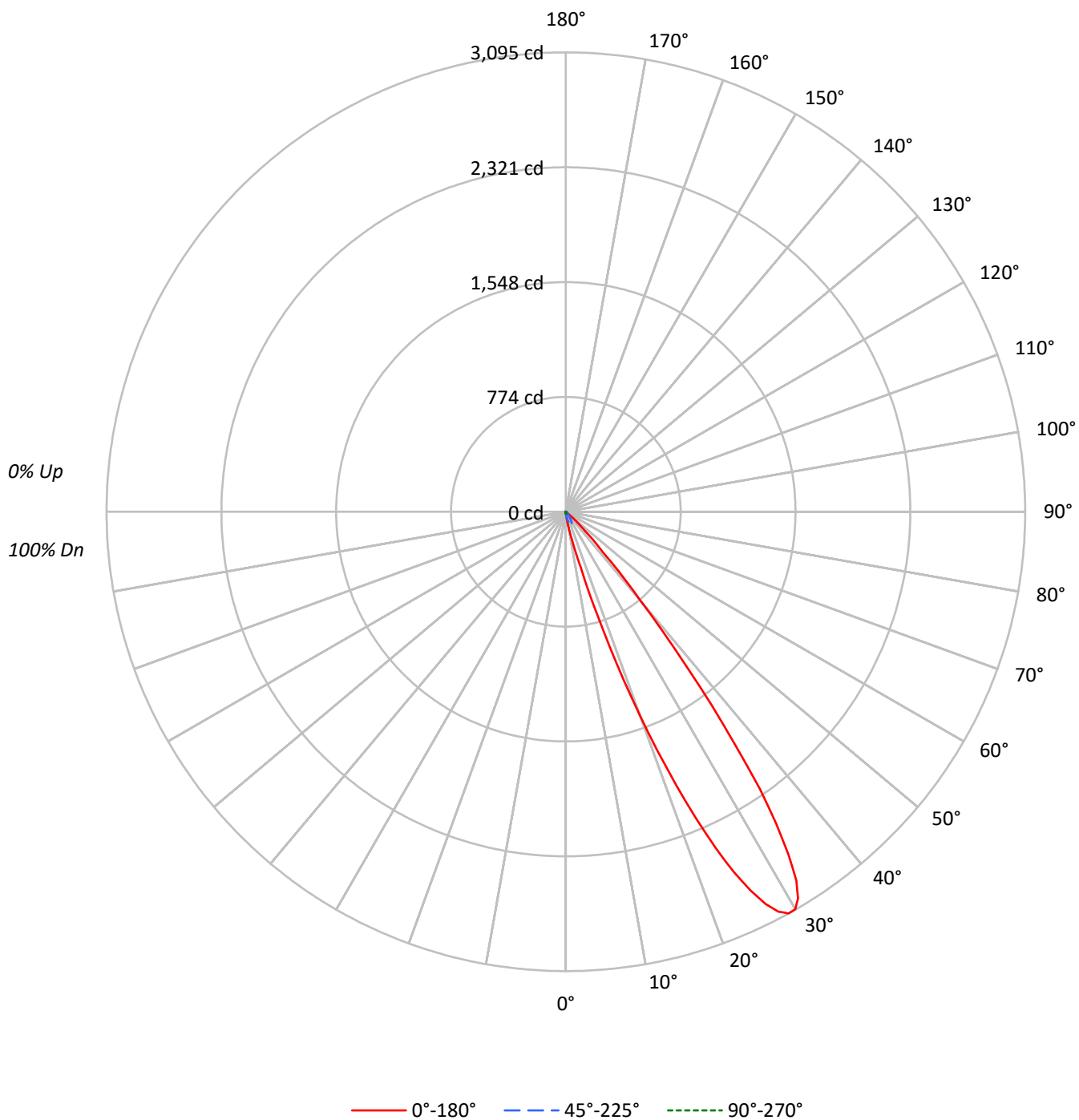
Lumens per Lamp: N/A
Luminaire Lumens: 338.0 lumens
Efficiency: N/A
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	2456	2456	2456	2456	2456
5°	5283	3918	2311	1233	1013
10°	23424	7392	1826	512	356
15°	88604	17094	1271	227	159
20°	340743	24082	770	70	70
25°	647941	22598	387	0	0
30°	782728	18231	177	0	0
35°	610472	12421	80	0	0
40°	222760	6126	86	0	86
45°	57215	1830	93	0	217
50°	9654	239	102	102	341
55°	1262	0	268	382	612
60°	132	132	439	570	877
65°	156	156	675	830	1038
70°	192	192	833	833	1026
75°	254	254	1101	847	1101
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	25.9	7.7
20°-30°	143.7	42.5
30°-40°	138.8	41.1
40°-50°	24.1	7.1
50°-60°	1.7	0.5
60°-70°	1.0	0.3
70°-80°	0.8	0.2
80°-90°	0.4	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°	171.1	50.6
0°-40°	309.9	91.7
0°-60°	335.7	99.3
0°-90°	338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	338.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	24	18	10	6	5	5
15°	390	75	6	1	1	174
25°	2678	93	2	0	0	1197
35°	2280	46	0	0	0	1312
45°	184	6	0	0	1	198
55°	3	0	1	1	2	6
65°	0	0	1	2	2	0
75°	0	0	1	1	1	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	16.4	15.8	16.1	16.1	16.1	16.1	16.1	15.5	15.5	15.8	14.1
5°	24.0	24.0	23.7	24.0	24.0	23.7	23.0	22.7	22.7	22.0	17.8
7.5°	48.0	47.3	47.3	46.7	43.4	42.4	41.8	40.1	37.2	36.5	23.0
10°	105.2	105.5	103.2	100.3	100.0	95.0	93.4	90.4	84.8	79.2	33.2
12.5°	191.0	186.8	181.2	181.5	172.0	168.7	161.1	152.9	144.3	135.5	54.6
15°	390.3	378.1	385.3	367.6	347.5	324.8	301.8	272.9	248.2	221.9	75.3
17.5°	822.0	833.8	813.8	737.8	691.1	636.2	558.9	484.3	420.5	369.2	92.1
20°	1460.2	1477.6	1409.5	1343.4	1230.0	1106.4	977.5	831.5	691.8	570.8	103.2
21°	1726.8	1716.3	1688.3	1582.5	1451.6	1308.3	1150.4	989.3	820.0	662.8	104.2
22°	1984.6	1989.5	1924.4	1813.6	1677.5	1518.7	1326.0	1127.1	944.6	737.8	102.6
23°	2241.4	2257.1	2171.0	2067.1	1895.8	1716.6	1493.7	1279.0	1053.4	823.6	99.3
24°	2479.1	2468.2	2410.0	2279.2	2096.0	1886.3	1654.8	1394.4	1142.9	896.9	96.7
25°	2678.0	2676.7	2585.3	2458.0	2248.6	2016.1	1761.0	1488.8	1219.5	946.6	93.4
26°	2840.7	2814.1	2742.1	2586.9	2380.1	2134.8	1848.1	1557.5	1262.5	971.6	90.1
27°	2966.3	2947.3	2850.6	2689.2	2473.2	2201.9	1904.0	1591.7	1282.3	979.8	85.8
28°	3050.8	3030.1	2927.2	2760.8	2524.4	2244.0	1933.6	1606.1	1282.3	971.9	81.9
29°	3094.6	3066.3	2963.7	2785.5	2536.3	2248.9	1926.4	1592.0	1262.2	947.6	77.3
30°	3091.3	3056.1	2948.6	2763.1	2501.1	2208.5	1885.9	1541.0	1216.8	911.4	72.0
31°	3038.0	2998.6	2878.5	2687.5	2428.4	2132.2	1809.7	1472.6	1154.7	864.4	66.7
32°	2929.8	2879.9	2762.8	2572.4	2316.6	2018.1	1698.9	1367.1	1061.7	795.7	61.2
33°	2753.6	2703.3	2577.7	2399.2	2165.4	1873.4	1551.9	1253.7	955.8	713.8	56.6
34°	2533.0	2487.0	2378.8	2198.9	1974.7	1690.3	1382.9	1096.8	846.0	632.6	51.6
35°	2280.5	2207.2	2109.2	1966.8	1748.2	1462.1	1200.4	950.9	732.9	547.4	46.4
36°	1938.9	1952.0	1848.1	1673.9	1492.7	1268.5	1017.3	792.7	612.9	466.6	41.8
37°	1636.1	1615.3	1549.3	1414.5	1256.6	1034.0	852.5	672.0	515.5	394.5	36.8
38°	1319.8	1324.4	1259.6	1156.0	999.5	850.2	686.2	552.0	431.4	335.7	32.2
39°	1033.1	1029.4	1012.0	916.0	774.3	676.3	556.0	457.7	359.4	283.1	27.3
40°	778.2	784.2	743.4	685.5	603.0	522.4	442.9	365.0	297.2	238.7	21.4
42.5°	378.4	387.6	360.7	345.9	309.4	277.8	234.4	191.4	162.8	140.7	9.5
45°	184.5	179.2	176.9	169.7	161.1	144.0	127.6	109.5	95.7	82.5	5.9
47.5°	94.4	91.7	91.7	88.8	85.8	80.2	72.0	66.1	59.5	51.3	2.3
50°	28.3	27.9	27.6	27.9	27.0	27.9	28.6	28.9	26.3	26.0	0.7
52.5°	11.2	11.5	11.2	12.2	12.2	11.8	12.2	11.8	11.5	10.2	0.0
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.6	3.9	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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	13.2	11.5	9.5	7.9	7.2	6.9
5°	14.1	10.5	7.2	5.6	4.9	4.6
7.5°	15.1	9.5	5.6	3.9	3.0	2.6
10°	15.8	8.2	4.3	2.3	1.6	1.6
12.5°	15.8	6.6	3.0	1.3	1.0	1.0
15°	15.5	5.6	2.0	1.0	0.7	0.7
17.5°	15.1	4.3	1.3	0.7	0.3	0.7
20°	14.1	3.3	0.7	0.3	0.3	0.3
21°	13.8	3.0	0.7	0.3	0.3	0.3
22°	13.2	2.6	0.3	0.0	0.3	0.3
23°	12.5	2.0	0.3	0.0	0.0	0.0
24°	11.5	1.6	0.3	0.0	0.0	0.0
25°	10.9	1.6	0.3	0.0	0.0	0.0
26°	10.2	1.0	0.0	0.0	0.0	0.0
27°	9.2	0.7	0.0	0.0	0.0	0.0
28°	8.5	0.7	0.0	0.0	0.0	0.0
29°	7.6	0.7	0.0	0.0	0.0	0.0
30°	6.6	0.7	0.0	0.0	0.0	0.0
31°	5.3	0.3	0.0	0.0	0.0	0.0
32°	4.3	0.3	0.0	0.0	0.0	0.0
33°	3.0	0.3	0.0	0.0	0.0	0.0
34°	2.0	0.3	0.0	0.0	0.0	0.0
35°	1.6	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.3	0.0	0.0	0.0	0.3
37°	1.0	0.3	0.0	0.0	0.0	0.3
38°	0.7	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.7
45°	0.0	0.3	0.0	0.0	0.3	0.7
47.5°	0.0	0.3	0.0	0.0	0.7	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.7	1.0	1.3
55°	0.3	0.7	0.7	1.0	1.3	1.6
57.5°	0.3	1.0	1.0	1.3	1.6	1.6
60°	0.7	1.0	1.3	1.3	2.0	2.0
62.5°	0.7	1.3	1.3	1.3	2.0	2.0
65°	0.7	1.3	1.3	1.6	2.0	2.0
67.5°	0.7	1.3	1.3	1.3	1.6	2.0
70°	0.7	1.3	1.0	1.3	1.6	1.6
72.5°	0.7	1.3	1.0	1.0	1.3	1.6
75°	0.7	1.3	1.0	1.0	1.3	1.3
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)