

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: P1339827

Luminaire Tested: P3A09R159024DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339827
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: P3A09R159024DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

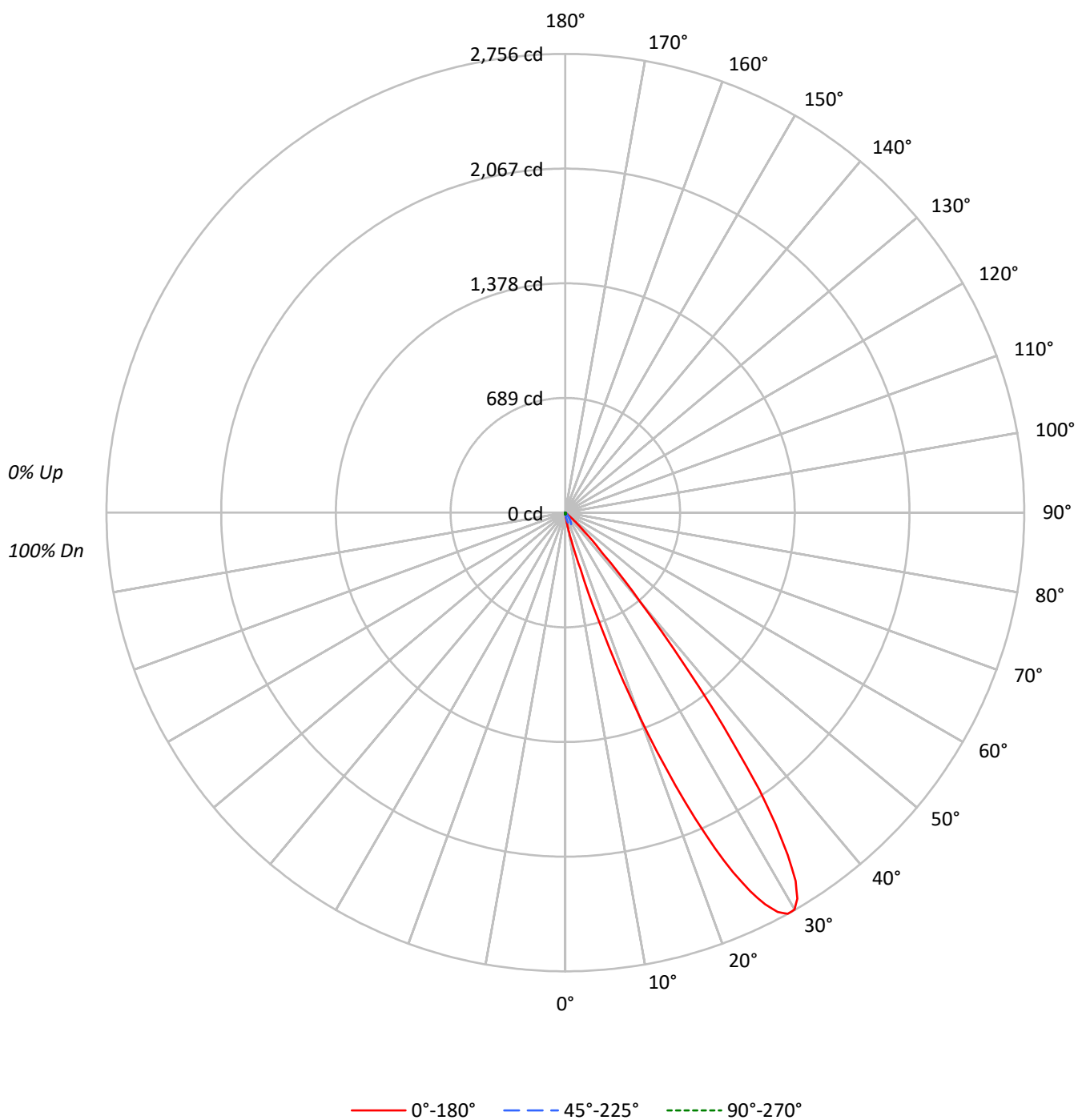
Lumens per Lamp: N/A
Luminaire Lumens: 301.1 lumens
Efficiency: N/A
Efficacy: 27.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2193	2193	2193	2193	2193
5°	4711	3478	2069	1101	902
10°	20864	6591	1625	445	334
15°	78911	15233	1135	204	136
20°	303430	21445	677	70	70
25°	577001	20130	363	0	0
30°	697044	16230	152	0	0
35°	543629	11056	80	0	0
40°	198400	5439	86	0	86
45°	50951	1644	93	0	186
50°	8597	205	102	102	307
55°	1109	0	229	344	573
60°	132	132	395	526	789
65°	156	156	623	778	934
70°	192	192	769	769	962
75°	254	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	23.1	7.7
20°-30°	127.9	42.5
30°-40°	123.6	41.1
40°-50°	21.5	7.1
50°-60°	1.6	0.5
60°-70°	0.9	0.3
70°-80°	0.8	0.3
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°	152.4	50.6
0°-40°	276.0	91.7
0°-60°	299.0	99.3
0°-90°	301.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	301.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	21	16	9	5	4	4
15°	348	67	5	1	1	155
25°	2385	83	2	0	0	1066
35°	2031	41	0	0	0	1168
45°	164	5	0	0	1	176
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°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	14.6	14.1	14.3	14.3	14.3	14.3	14.3	13.8	13.8	14.1	12.6
5°	21.4	21.4	21.1	21.4	21.4	21.1	20.5	20.2	20.2	19.6	15.8
7.5°	42.7	42.2	42.2	41.6	38.6	37.8	37.2	35.7	33.1	32.5	20.5
10°	93.7	94.0	91.9	89.3	89.0	84.6	83.2	80.5	75.5	70.6	29.6
12.5°	170.1	166.3	161.3	161.6	153.1	150.2	143.5	136.2	128.5	120.6	48.6
15°	347.6	336.7	343.2	327.3	309.5	289.3	268.8	243.0	221.1	197.6	67.1
17.5°	732.0	742.5	724.7	657.0	615.5	566.6	497.8	431.3	374.5	328.8	82.0
20°	1300.3	1315.8	1255.2	1196.4	1095.4	985.3	870.5	740.5	616.0	508.3	91.9
21°	1537.8	1528.4	1503.5	1409.2	1292.7	1165.0	1024.5	881.0	730.2	590.3	92.8
22°	1767.3	1771.7	1713.7	1615.1	1493.9	1352.4	1180.9	1003.7	841.2	657.0	91.4
23°	1996.0	2010.1	1933.3	1840.8	1688.3	1528.7	1330.2	1139.0	938.1	733.5	88.4
24°	2207.7	2198.0	2146.2	2029.7	1866.6	1679.8	1473.6	1241.8	1017.8	798.8	86.1
25°	2384.8	2383.7	2302.3	2189.0	2002.4	1795.4	1568.2	1325.8	1086.0	843.0	83.2
26°	2529.8	2506.1	2441.9	2303.7	2119.6	1901.1	1645.8	1387.0	1124.3	865.2	80.2
27°	2641.6	2624.6	2538.6	2394.8	2202.4	1960.9	1695.6	1417.4	1141.9	872.5	76.4
28°	2716.9	2698.4	2606.8	2458.6	2248.1	1998.3	1721.9	1430.3	1141.9	865.5	72.9
29°	2755.8	2730.6	2639.3	2480.6	2258.6	2002.7	1715.5	1417.7	1124.0	843.8	68.8
30°	2752.9	2721.6	2625.8	2460.7	2227.3	1966.7	1679.5	1372.3	1083.6	811.6	64.1
31°	2705.4	2670.3	2563.4	2393.3	2162.6	1898.8	1611.6	1311.4	1028.3	769.8	59.4
32°	2609.1	2564.6	2460.4	2290.8	2063.0	1797.2	1512.9	1217.5	945.4	708.6	54.5
33°	2452.2	2407.4	2295.5	2136.5	1928.4	1668.4	1382.0	1116.4	851.2	635.7	50.4
34°	2255.7	2214.7	2118.4	1958.2	1758.5	1505.3	1231.5	976.8	753.4	563.3	46.0
35°	2030.8	1965.5	1878.3	1751.5	1556.8	1302.1	1069.0	846.8	652.6	487.5	41.3
36°	1726.6	1738.3	1645.8	1490.6	1329.3	1129.6	905.9	705.9	545.8	415.5	37.2
37°	1457.0	1438.5	1379.7	1259.6	1119.1	920.8	759.2	598.5	459.1	351.4	32.8
38°	1175.3	1179.4	1121.7	1029.5	890.1	757.2	611.1	491.6	384.2	298.9	28.7
39°	920.0	916.7	901.2	815.7	689.5	602.3	495.1	407.6	320.0	252.1	24.3
40°	693.1	698.3	662.0	610.5	537.0	465.3	394.4	325.0	264.7	212.6	19.0
42.5°	337.0	345.2	321.2	308.0	275.5	247.4	208.8	170.4	144.9	125.3	8.5
45°	164.3	159.6	157.5	151.1	143.5	128.2	113.6	97.5	85.2	73.5	5.3
47.5°	84.0	81.7	81.7	79.1	76.4	71.4	64.1	58.9	53.0	45.7	2.0
50°	25.2	24.9	24.6	24.9	24.0	24.9	25.5	25.8	23.4	23.1	0.6
52.5°	10.0	10.2	10.0	10.8	10.8	10.5	10.8	10.5	10.2	9.1	0.0
55°	2.9	2.9	2.9	2.9	2.9	2.9	3.2	3.5	3.2	3.5	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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°	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	11.7	10.2	8.5	7.0	6.4	6.1
5°	12.6	9.4	6.4	5.0	4.4	4.1
7.5°	13.5	8.5	5.0	3.5	2.6	2.3
10°	14.1	7.3	3.8	2.0	1.5	1.5
12.5°	14.1	5.9	2.6	1.2	0.9	0.9
15°	13.8	5.0	1.8	0.9	0.6	0.6
17.5°	13.5	3.8	1.2	0.6	0.3	0.6
20°	12.6	2.9	0.6	0.3	0.3	0.3
21°	12.3	2.6	0.6	0.3	0.3	0.3
22°	11.7	2.3	0.3	0.0	0.3	0.3
23°	11.1	1.8	0.3	0.0	0.0	0.0
24°	10.2	1.5	0.3	0.0	0.0	0.0
25°	9.7	1.5	0.3	0.0	0.0	0.0
26°	9.1	0.9	0.0	0.0	0.0	0.0
27°	8.2	0.6	0.0	0.0	0.0	0.0
28°	7.6	0.6	0.0	0.0	0.0	0.0
29°	6.7	0.6	0.0	0.0	0.0	0.0
30°	5.9	0.6	0.0	0.0	0.0	0.0
31°	4.7	0.3	0.0	0.0	0.0	0.0
32°	3.8	0.3	0.0	0.0	0.0	0.0
33°	2.6	0.3	0.0	0.0	0.0	0.0
34°	1.8	0.3	0.0	0.0	0.0	0.0
35°	1.5	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.3	0.0	0.0	0.0	0.3
37°	0.9	0.3	0.0	0.0	0.0	0.3
38°	0.6	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	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.6	0.9	1.2
55°	0.3	0.6	0.6	0.9	1.2	1.5
57.5°	0.3	0.9	0.9	1.2	1.5	1.5
60°	0.6	0.9	1.2	1.2	1.8	1.8
62.5°	0.6	1.2	1.2	1.2	1.8	1.8
65°	0.6	1.2	1.2	1.5	1.8	1.8
67.5°	0.6	1.2	1.2	1.2	1.5	1.8
70°	0.6	1.2	0.9	1.2	1.5	1.5
72.5°	0.6	1.2	0.9	0.9	1.2	1.5
75°	0.6	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)