

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: P1339961

Luminaire Tested: P3A09R159735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339961
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: P3A09R159735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

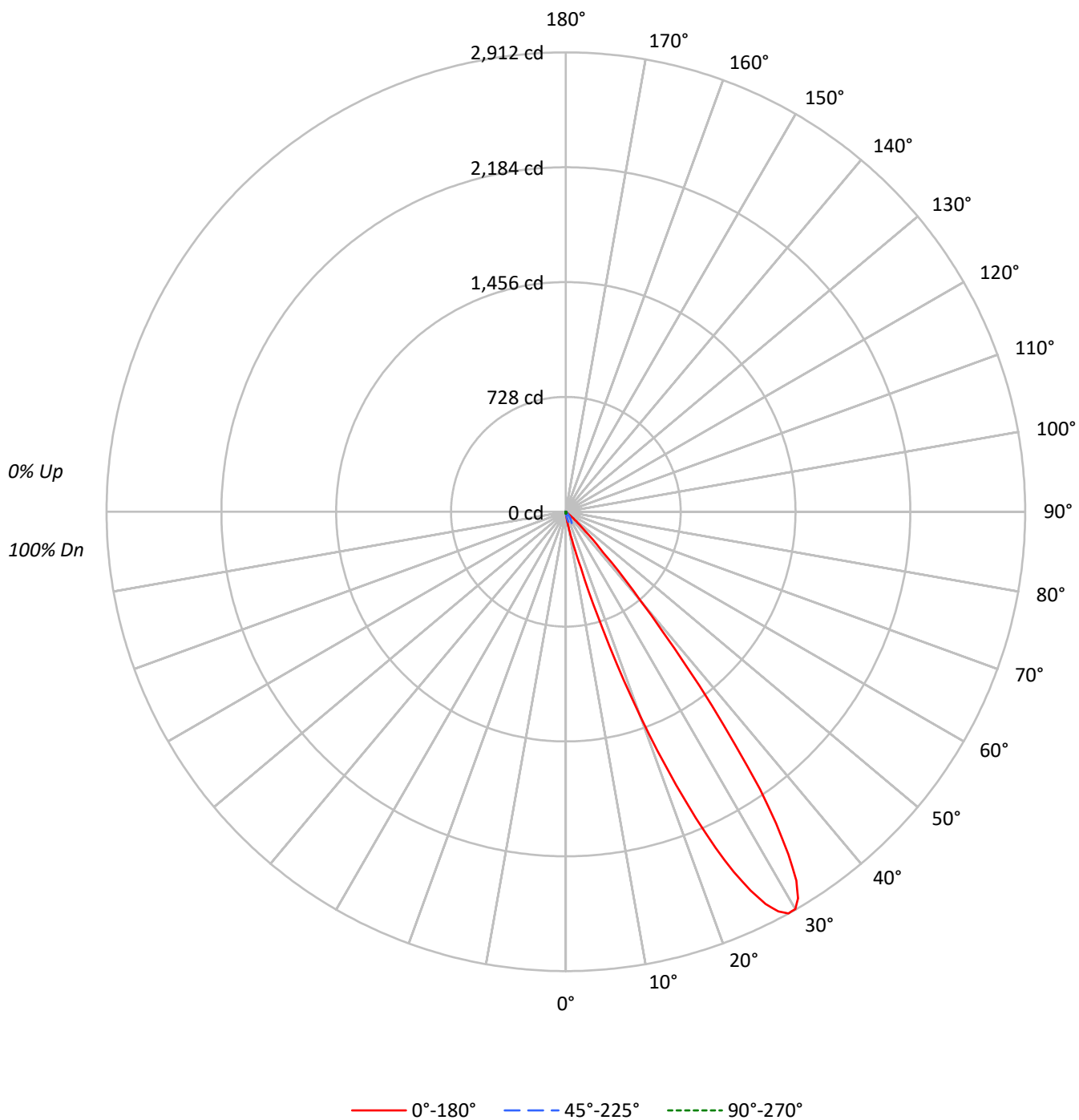
Lumens per Lamp: N/A
Luminaire Lumens: 317.9 lumens
Efficiency: N/A
Efficacy: 28.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	99	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	53	48	70	59	52	48	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°	2302	2302	2302	2302	2302
5°	4975	3676	2179	1167	947
10°	22044	6947	1715	490	334
15°	83360	16073	1203	204	136
20°	320581	22659	723	70	70
25°	609592	21267	363	0	0
30°	736417	17142	152	0	0
35°	574334	11671	80	0	0
40°	209593	5754	86	0	86
45°	53804	1737	93	0	186
50°	9074	205	102	102	307
55°	1185	0	229	344	573
60°	132	132	395	526	833
65°	156	156	623	778	986
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: 53804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	24.4	7.7
20°-30°	135.2	42.5
30°-40°	130.6	41.1
40°-50°	22.7	7.1
50°-60°	1.6	0.5
60°-70°	0.9	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°	161.0	50.6
0°-40°	291.5	91.7
0°-60°	315.8	99.3
0°-90°	317.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	317.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	23	17	10	5	4	4
15°	367	71	5	1	1	164
25°	2520	88	2	0	0	1127
35°	2146	44	0	0	0	1234
45°	174	6	0	0	1	186
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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	15.5	14.8	15.2	15.2	15.2	15.2	15.2	14.5	14.5	14.8	13.3
5°	22.6	22.6	22.3	22.6	22.6	22.3	21.7	21.3	21.3	20.7	16.7
7.5°	45.2	44.5	44.5	43.9	40.8	39.9	39.3	37.7	35.0	34.3	21.7
10°	99.0	99.3	97.1	94.3	94.0	89.4	87.9	85.1	79.8	74.5	31.2
12.5°	179.7	175.7	170.4	170.8	161.8	158.7	151.6	143.8	135.8	127.4	51.3
15°	367.2	355.7	362.5	345.8	327.0	305.6	284.0	256.7	233.5	208.8	70.8
17.5°	773.3	784.5	765.6	694.1	650.2	598.6	525.9	455.6	395.6	347.4	86.6
20°	1373.8	1390.1	1326.1	1263.9	1157.2	1040.9	919.7	782.3	650.8	537.0	97.1
21°	1624.6	1614.7	1588.4	1488.8	1365.7	1230.8	1082.4	930.8	771.5	623.6	98.1
22°	1867.1	1871.8	1810.5	1706.3	1578.2	1428.8	1247.5	1060.4	888.7	694.1	96.5
23°	2108.7	2123.6	2042.5	1944.8	1783.6	1615.0	1405.3	1203.3	991.1	774.9	93.4
24°	2332.4	2322.2	2267.4	2144.3	1972.0	1774.6	1556.9	1311.9	1075.2	843.9	90.9
25°	2519.5	2518.3	2432.3	2312.6	2115.5	1896.8	1656.8	1400.7	1147.3	890.6	87.9
26°	2672.6	2647.6	2579.8	2433.8	2239.3	2008.5	1738.8	1465.3	1187.8	914.1	84.8
27°	2790.8	2772.9	2681.9	2530.0	2326.8	2071.6	1791.4	1497.5	1206.4	921.8	80.7
28°	2870.3	2850.8	2754.0	2597.5	2375.1	2111.2	1819.2	1511.1	1206.4	914.4	77.0
29°	2911.5	2884.8	2788.3	2620.7	2386.2	2115.8	1812.4	1497.8	1187.5	891.5	72.7
30°	2908.4	2875.3	2774.1	2599.6	2353.1	2077.8	1774.3	1449.8	1144.8	857.5	67.7
31°	2858.2	2821.1	2708.2	2528.5	2284.7	2006.0	1702.6	1385.5	1086.4	813.2	62.8
32°	2756.5	2709.5	2599.3	2420.2	2179.6	1898.7	1598.3	1286.2	998.8	748.6	57.5
33°	2590.7	2543.3	2425.2	2257.2	2037.3	1762.6	1460.1	1179.5	899.2	671.6	53.2
34°	2383.1	2339.8	2238.0	2068.8	1857.9	1590.3	1301.1	1031.9	795.9	595.2	48.6
35°	2145.5	2076.6	1984.4	1850.4	1644.7	1375.6	1129.4	894.6	689.5	515.0	43.6
36°	1824.1	1836.5	1738.8	1574.8	1404.4	1193.4	957.1	745.8	576.6	438.9	39.3
37°	1539.2	1519.8	1457.6	1330.8	1182.3	972.9	802.1	632.3	485.0	371.2	34.6
38°	1241.7	1246.0	1185.1	1087.6	940.4	799.9	645.6	519.4	405.8	315.8	30.3
39°	971.9	968.5	952.1	861.8	728.5	636.3	523.1	430.6	338.1	266.3	25.7
40°	732.2	737.8	699.4	645.0	567.3	491.5	416.7	343.4	279.6	224.6	20.1
42.5°	356.0	364.7	339.3	325.4	291.1	261.4	220.6	180.0	153.1	132.4	9.0
45°	173.5	168.6	166.4	159.6	151.6	135.5	120.0	103.0	90.0	77.6	5.6
47.5°	88.8	86.3	86.3	83.5	80.7	75.5	67.7	62.2	56.0	48.3	2.2
50°	26.6	26.3	26.0	26.3	25.4	26.3	26.9	27.2	24.7	24.4	0.6
52.5°	10.5	10.8	10.5	11.4	11.4	11.1	11.4	11.1	10.8	9.6	0.0
55°	3.1	3.1	3.1	3.1	3.1	3.1	3.4	3.7	3.4	3.7	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°	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	12.4	10.8	9.0	7.4	6.8	6.5
5°	13.3	9.9	6.8	5.3	4.6	4.3
7.5°	14.2	9.0	5.3	3.7	2.8	2.5
10°	14.8	7.7	4.0	2.2	1.5	1.5
12.5°	14.8	6.2	2.8	1.2	0.9	0.9
15°	14.5	5.3	1.9	0.9	0.6	0.6
17.5°	14.2	4.0	1.2	0.6	0.3	0.6
20°	13.3	3.1	0.6	0.3	0.3	0.3
21°	13.0	2.8	0.6	0.3	0.3	0.3
22°	12.4	2.5	0.3	0.0	0.3	0.3
23°	11.8	1.9	0.3	0.0	0.0	0.0
24°	10.8	1.5	0.3	0.0	0.0	0.0
25°	10.2	1.5	0.3	0.0	0.0	0.0
26°	9.6	0.9	0.0	0.0	0.0	0.0
27°	8.7	0.6	0.0	0.0	0.0	0.0
28°	8.0	0.6	0.0	0.0	0.0	0.0
29°	7.1	0.6	0.0	0.0	0.0	0.0
30°	6.2	0.6	0.0	0.0	0.0	0.0
31°	4.9	0.3	0.0	0.0	0.0	0.0
32°	4.0	0.3	0.0	0.0	0.0	0.0
33°	2.8	0.3	0.0	0.0	0.0	0.0
34°	1.9	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	1.9	1.9
62.5°	0.6	1.2	1.2	1.2	1.9	1.9
65°	0.6	1.2	1.2	1.5	1.9	1.9
67.5°	0.6	1.2	1.2	1.2	1.5	1.9
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)