

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: P1343523

Luminaire Tested: P3A13R159740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343523
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: P3A13R159740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

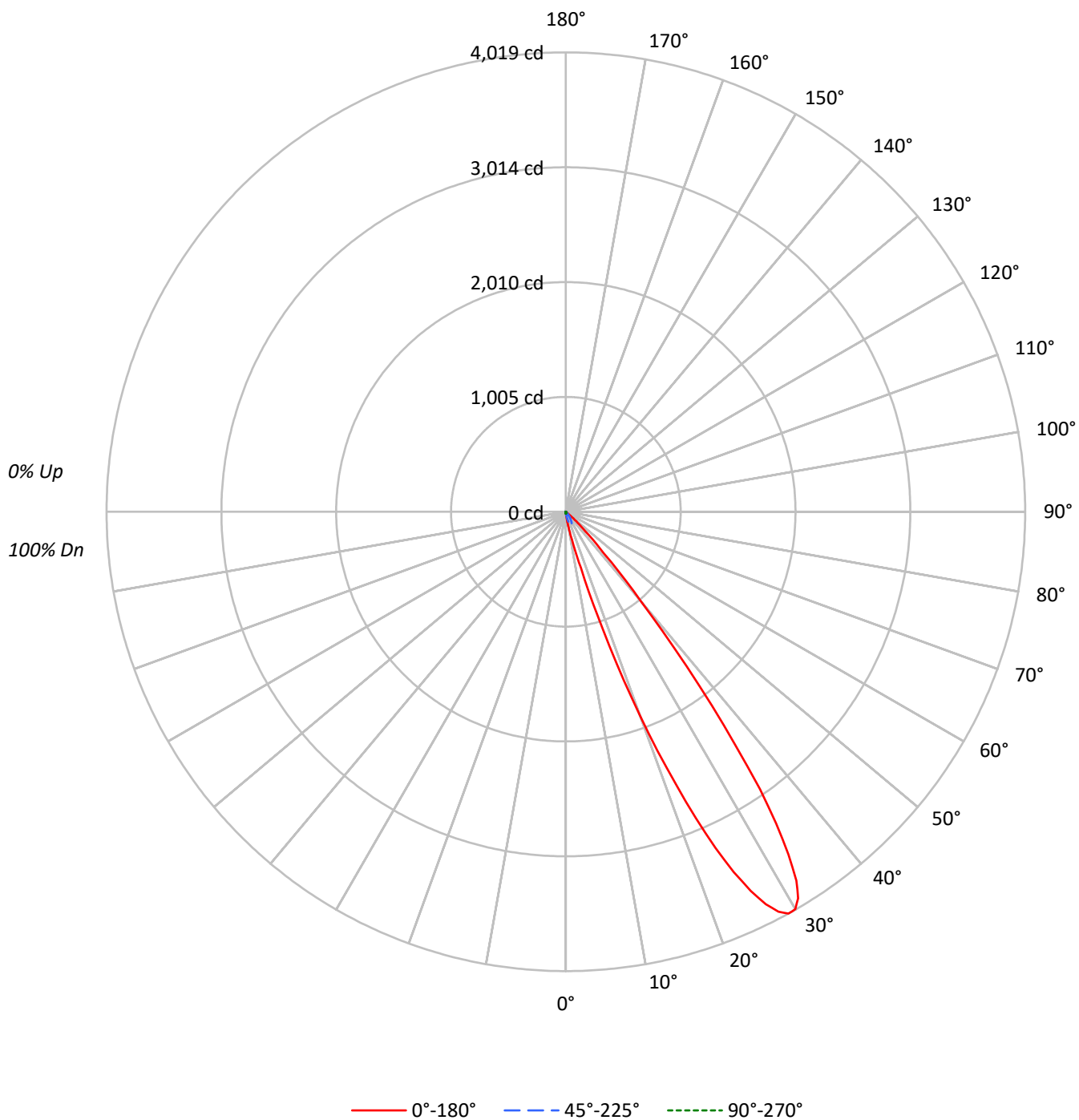
Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3180	3180	3180	3180	3180
5°	6868	5085	3016	1607	1321
10°	30438	9597	2382	668	468
15°	115074	22202	1657	295	204
20°	442555	31293	1003	93	93
25°	841549	29348	508	0	0
30°	1016612	23675	228	0	0
35°	792878	16115	107	0	0
40°	289342	7958	115	0	115
45°	74302	2388	124	0	279
50°	12520	307	136	136	443
55°	1644	0	344	497	803
60°	175	175	570	746	1140
65°	208	208	882	1090	1349
70°	256	256	1090	1090	1346
75°	339	339	1440	1101	1440
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74302 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	33.6	7.7
20°-30°	186.6	42.5
30°-40°	180.2	41.1
40°-50°	31.4	7.1
50°-60°	2.3	0.5
60°-70°	1.3	0.3
70°-80°	1.1	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°	222.2	50.6
0°-40°	402.5	91.7
0°-60°	436.1	99.3
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	23	14	7	6	6
15°	507	98	7	1	1	226
25°	3478	121	2	0	0	1555
35°	2962	60	0	0	0	1703
45°	240	8	0	0	1	257
55°	4	0	1	1	2	8
65°	0	0	2	2	3	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°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	21.4	20.5	20.9	20.9	20.9	20.9	20.9	20.1	20.1	20.5	18.4
5°	31.2	31.2	30.7	31.2	31.2	30.7	29.9	29.5	29.5	28.6	23.1
7.5°	62.3	61.5	61.5	60.6	56.4	55.1	54.2	52.1	48.3	47.4	29.9
10°	136.7	137.1	134.1	130.2	129.8	123.4	121.3	117.4	110.2	102.9	43.1
12.5°	248.1	242.6	235.3	235.7	223.3	219.1	209.2	198.6	187.5	175.9	70.9
15°	506.9	491.1	500.5	477.4	451.4	421.9	392.0	354.4	322.4	288.2	97.8
17.5°	1067.6	1083.0	1056.9	958.3	897.6	826.3	726.0	629.0	546.2	479.6	119.6
20°	1896.5	1919.1	1830.7	1744.9	1597.5	1437.0	1269.6	1080.0	898.5	741.3	134.1
21°	2242.8	2229.1	2192.8	2055.3	1885.4	1699.2	1494.2	1285.0	1065.0	860.9	135.4
22°	2577.6	2584.0	2499.4	2355.5	2178.7	1972.5	1722.2	1463.9	1226.9	958.3	133.2
23°	2911.1	2931.6	2819.7	2684.8	2462.3	2229.6	1940.0	1661.2	1368.2	1069.7	129.0
24°	3219.9	3205.8	3130.2	2960.2	2722.4	2449.9	2149.3	1811.1	1484.4	1165.0	125.5
25°	3478.2	3476.5	3357.8	3192.5	2920.5	2618.6	2287.2	1933.6	1583.9	1229.4	121.3
26°	3689.6	3655.0	3561.5	3359.9	3091.3	2772.7	2400.4	2022.9	1639.8	1261.9	117.0
27°	3852.7	3828.0	3702.4	3492.7	3212.2	2859.9	2473.0	2067.3	1665.4	1272.6	111.5
28°	3962.5	3935.6	3801.9	3585.8	3278.8	2914.5	2511.4	2086.1	1665.4	1262.3	106.3
29°	4019.3	3982.5	3849.3	3617.9	3294.2	2920.9	2502.0	2067.7	1639.4	1230.7	100.4
30°	4015.0	3969.3	3829.7	3588.8	3248.5	2868.4	2449.5	2001.5	1580.5	1183.7	93.5
31°	3945.8	3894.6	3738.7	3490.6	3154.1	2769.3	2350.4	1912.7	1499.8	1122.7	86.7
32°	3805.3	3740.4	3588.4	3341.1	3008.9	2621.2	2206.5	1775.6	1378.9	1033.4	79.4
33°	3576.4	3511.1	3348.0	3116.1	2812.5	2433.3	2015.6	1628.3	1241.4	927.1	73.5
34°	3289.9	3230.1	3089.6	2856.0	2564.8	2195.4	1796.1	1424.6	1098.8	821.6	67.0
35°	2961.9	2866.7	2739.4	2554.5	2270.6	1899.0	1559.1	1235.0	951.9	711.0	60.2
36°	2518.2	2535.3	2400.4	2174.0	1938.7	1647.5	1321.3	1029.6	796.0	606.0	54.2
37°	2124.9	2098.0	2012.2	1837.1	1632.1	1343.0	1107.3	872.9	669.6	512.4	47.8
38°	1714.1	1720.1	1636.0	1501.5	1298.2	1104.3	891.2	717.0	560.3	436.0	41.8
39°	1341.7	1337.1	1314.4	1189.7	1005.7	878.4	722.1	594.4	466.8	367.7	35.4
40°	1010.8	1018.5	965.5	890.4	783.2	678.6	575.2	474.0	386.0	310.0	27.8
42.5°	491.5	503.5	468.5	449.2	401.8	360.8	304.5	248.5	211.4	182.8	12.4
45°	239.6	232.7	229.7	220.4	209.2	187.0	165.7	142.2	124.3	107.2	7.7
47.5°	122.6	119.1	119.1	115.3	111.5	104.2	93.5	85.8	77.3	66.6	3.0
50°	36.7	36.3	35.9	36.3	35.0	36.3	37.2	37.6	34.2	33.7	0.9
52.5°	14.5	14.9	14.5	15.8	15.8	15.4	15.8	15.4	14.9	13.2	0.0
55°	4.3	4.3	4.3	4.3	4.3	4.3	4.7	5.1	4.7	5.1	0.0
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	17.1	14.9	12.4	10.2	9.4	9.0
5°	18.4	13.7	9.4	7.3	6.4	6.0
7.5°	19.6	12.4	7.3	5.1	3.8	3.4
10°	20.5	10.7	5.6	3.0	2.1	2.1
12.5°	20.5	8.5	3.8	1.7	1.3	1.3
15°	20.1	7.3	2.6	1.3	0.9	0.9
17.5°	19.6	5.6	1.7	0.9	0.4	0.9
20°	18.4	4.3	0.9	0.4	0.4	0.4
21°	17.9	3.8	0.9	0.4	0.4	0.4
22°	17.1	3.4	0.4	0.0	0.4	0.4
23°	16.2	2.6	0.4	0.0	0.0	0.0
24°	14.9	2.1	0.4	0.0	0.0	0.0
25°	14.1	2.1	0.4	0.0	0.0	0.0
26°	13.2	1.3	0.0	0.0	0.0	0.0
27°	12.0	0.9	0.0	0.0	0.0	0.0
28°	11.1	0.9	0.0	0.0	0.0	0.0
29°	9.8	0.9	0.0	0.0	0.0	0.0
30°	8.5	0.9	0.0	0.0	0.0	0.0
31°	6.8	0.4	0.0	0.0	0.0	0.0
32°	5.6	0.4	0.0	0.0	0.0	0.0
33°	3.8	0.4	0.0	0.0	0.0	0.0
34°	2.6	0.4	0.0	0.0	0.0	0.0
35°	2.1	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.4	0.0	0.0	0.0	0.4
37°	1.3	0.4	0.0	0.0	0.0	0.4
38°	0.9	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	0.9
45°	0.0	0.4	0.0	0.0	0.4	0.9
47.5°	0.0	0.4	0.0	0.0	0.9	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.9	1.3	1.7
55°	0.4	0.9	0.9	1.3	1.7	2.1
57.5°	0.4	1.3	1.3	1.7	2.1	2.1
60°	0.9	1.3	1.7	1.7	2.6	2.6
62.5°	0.9	1.7	1.7	1.7	2.6	2.6
65°	0.9	1.7	1.7	2.1	2.6	2.6
67.5°	0.9	1.7	1.7	1.7	2.1	2.6
70°	0.9	1.7	1.3	1.7	2.1	2.1
72.5°	0.9	1.7	1.3	1.3	1.7	2.1
75°	0.9	1.7	1.3	1.3	1.7	1.7
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)