

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: P1340021

Luminaire Tested: P3A09R159830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340021
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: P3A09R159830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

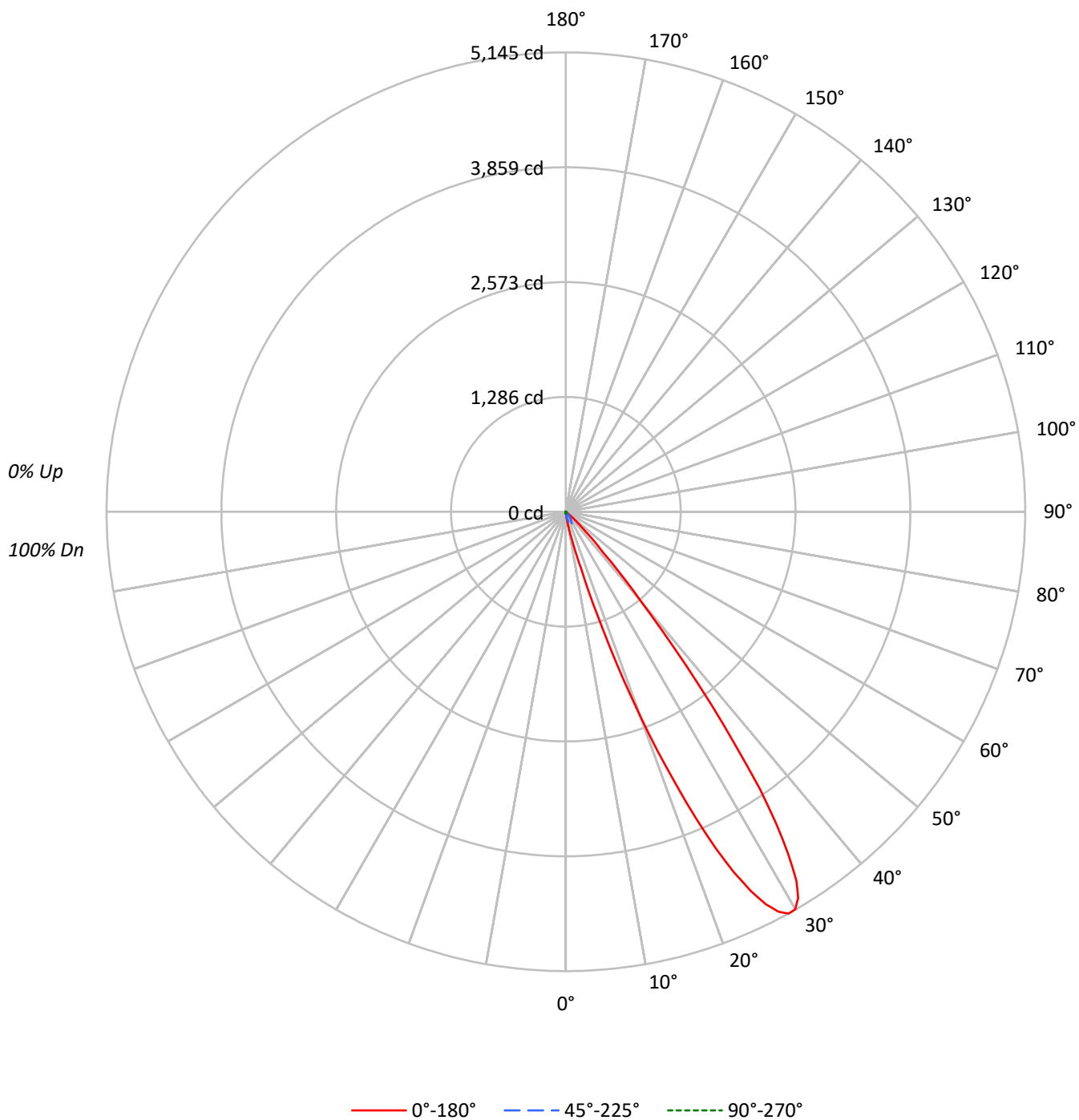
Lumens per Lamp: N/A
Luminaire Lumens: 561.9 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	4079	4079	4079	4079	4079
5°	8783	6493	3852	2047	1695
10°	38944	12291	3050	846	601
15°	147311	28422	2111	363	250
20°	566536	40067	1283	117	117
25°	1077328	37575	653	0	0
30°	1301441	30308	279	0	0
35°	1015036	20639	134	0	0
40°	370408	10162	143	0	143
45°	95111	3039	155	0	341
50°	16034	375	171	171	546
55°	2103	0	421	612	1032
60°	219	219	702	965	1447
65°	259	259	1141	1401	1712
70°	321	321	1410	1410	1731
75°	424	424	1864	1356	1864
80°	0	631	2020	1389	2020
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 95111 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	43.1	7.7
20°-30°	238.9	42.5
30°-40°	230.7	41.1
40°-50°	40.1	7.1
50°-60°	2.9	0.5
60°-70°	1.7	0.3
70°-80°	1.4	0.2
80°-90°	0.7	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°	284.5	50.6
0°-40°	515.2	91.7
0°-60°	558.2	99.3
0°-90°	561.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	40	30	18	9	8	8
15°	649	125	9	2	1	289
25°	4453	155	3	0	0	1991
35°	3792	77	0	0	0	2181
45°	307	10	0	0	1	329
55°	6	0	1	2	3	11
65°	0	0	2	3	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	27.3	26.2	26.8	26.8	26.8	26.8	26.8	25.7	25.7	26.2	23.5
5°	39.9	39.9	39.4	39.9	39.9	39.4	38.3	37.7	37.7	36.6	29.5
7.5°	79.8	78.7	78.7	77.6	72.2	70.5	69.4	66.7	61.8	60.7	38.3
10°	174.9	175.5	171.7	166.7	166.2	158.0	155.3	150.3	141.0	131.8	55.2
12.5°	317.6	310.5	301.2	301.8	285.9	280.4	267.9	254.2	240.0	225.2	90.7
15°	648.9	628.7	640.7	611.2	577.8	540.1	501.9	453.7	412.7	369.0	125.2
17.5°	1366.7	1386.4	1353.0	1226.8	1149.1	1057.8	929.4	805.3	699.2	613.9	153.1
20°	2427.8	2456.8	2343.6	2233.8	2045.1	1839.6	1625.3	1382.6	1150.2	949.0	171.7
21°	2871.2	2853.7	2807.2	2631.2	2413.6	2175.3	1912.8	1645.0	1363.4	1102.1	173.3
22°	3299.8	3308.0	3199.7	3015.5	2789.2	2525.1	2204.8	1874.0	1570.6	1226.8	170.6
23°	3726.7	3753.0	3609.8	3437.0	3152.2	2854.2	2483.6	2126.6	1751.6	1369.4	165.1
24°	4122.0	4104.0	4007.2	3789.6	3485.1	3136.3	2751.5	2318.5	1900.3	1491.4	160.7
25°	4452.7	4450.6	4298.6	4087.0	3738.8	3352.3	2928.0	2475.4	2027.7	1573.9	155.3
26°	4723.4	4679.1	4559.4	4301.3	3957.5	3549.6	3072.9	2589.6	2099.3	1615.5	149.8
27°	4932.2	4900.5	4739.8	4471.3	4112.2	3661.1	3165.9	2646.5	2132.1	1629.1	142.7
28°	5072.7	5038.2	4867.1	4590.5	4197.4	3731.1	3215.1	2670.6	2132.1	1616.0	136.1
29°	5145.4	5098.4	4927.8	4631.5	4217.1	3739.3	3203.0	2647.0	2098.7	1575.5	128.5
30°	5139.9	5081.4	4902.7	4594.3	4158.6	3672.1	3135.8	2562.3	2023.3	1515.4	119.7
31°	5051.4	4985.8	4786.2	4468.6	4037.8	3545.3	3009.0	2448.6	1920.0	1437.2	111.0
32°	4871.5	4788.4	4593.8	4277.3	3851.9	3355.6	2824.7	2273.1	1765.2	1323.0	101.7
33°	4578.5	4494.8	4286.0	3989.2	3600.5	3115.0	2580.4	2084.5	1589.2	1186.9	94.0
34°	4211.7	4135.1	3955.3	3656.2	3283.4	2810.5	2299.4	1823.7	1406.6	1051.8	85.8
35°	3791.8	3669.9	3507.0	3270.3	2906.7	2431.1	1995.9	1581.0	1218.6	910.2	77.1
36°	3223.8	3245.7	3072.9	2783.2	2481.9	2109.1	1691.4	1318.1	1019.0	775.7	69.4
37°	2720.3	2685.9	2576.0	2351.8	2089.4	1719.3	1417.6	1117.4	857.2	656.0	61.2
38°	2194.4	2202.0	2094.3	1922.1	1661.9	1413.7	1140.9	917.9	717.3	558.2	53.6
39°	1717.7	1711.7	1682.7	1523.1	1287.4	1124.5	924.4	761.0	597.5	470.7	45.4
40°	1294.0	1303.8	1236.1	1139.8	1002.6	868.7	736.4	606.8	494.2	396.9	35.5
42.5°	629.2	644.5	599.7	575.1	514.4	461.9	389.8	318.2	270.6	234.0	15.9
45°	306.7	297.9	294.1	282.1	267.9	239.4	212.1	182.0	159.1	137.2	9.8
47.5°	156.9	152.5	152.5	147.6	142.7	133.4	119.7	109.9	98.9	85.3	3.8
50°	47.0	46.5	45.9	46.5	44.8	46.5	47.6	48.1	43.7	43.2	1.1
52.5°	18.6	19.1	18.6	20.2	20.2	19.7	20.2	19.7	19.1	16.9	0.0
55°	5.5	5.5	5.5	5.5	5.5	5.5	6.0	6.6	6.0	6.6	0.0
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	21.9	19.1	15.9	13.1	12.0	11.5
5°	23.5	17.5	12.0	9.3	8.2	7.7
7.5°	25.1	15.9	9.3	6.6	4.9	4.4
10°	26.2	13.7	7.1	3.8	2.7	2.7
12.5°	26.2	10.9	4.9	2.2	1.6	1.6
15°	25.7	9.3	3.3	1.6	1.1	1.1
17.5°	25.1	7.1	2.2	1.1	0.5	1.1
20°	23.5	5.5	1.1	0.5	0.5	0.5
21°	23.0	4.9	1.1	0.5	0.5	0.5
22°	21.9	4.4	0.5	0.0	0.5	0.5
23°	20.8	3.3	0.5	0.0	0.0	0.0
24°	19.1	2.7	0.5	0.0	0.0	0.0
25°	18.0	2.7	0.5	0.0	0.0	0.0
26°	16.9	1.6	0.0	0.0	0.0	0.0
27°	15.3	1.1	0.0	0.0	0.0	0.0
28°	14.2	1.1	0.0	0.0	0.0	0.0
29°	12.6	1.1	0.0	0.0	0.0	0.0
30°	10.9	1.1	0.0	0.0	0.0	0.0
31°	8.7	0.5	0.0	0.0	0.0	0.0
32°	7.1	0.5	0.0	0.0	0.0	0.0
33°	4.9	0.5	0.0	0.0	0.0	0.0
34°	3.3	0.5	0.0	0.0	0.0	0.0
35°	2.7	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.5	0.0	0.0	0.0	0.5
37°	1.6	0.5	0.0	0.0	0.0	0.5
38°	1.1	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.1
45°	0.0	0.5	0.0	0.0	0.5	1.1
47.5°	0.0	0.5	0.0	0.0	1.1	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	1.1	1.6	2.2
55°	0.5	1.1	1.1	1.6	2.2	2.7
57.5°	0.5	1.6	1.6	2.2	2.7	2.7
60°	1.1	1.6	2.2	2.2	3.3	3.3
62.5°	1.1	2.2	2.2	2.2	3.3	3.3
65°	1.1	2.2	2.2	2.7	3.3	3.3
67.5°	1.1	2.2	2.2	2.2	2.7	3.3
70°	1.1	2.2	1.6	2.2	2.7	2.7
72.5°	1.1	2.2	1.6	1.6	2.2	2.7
75°	1.1	2.2	1.6	1.6	2.2	2.2
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)