

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: P1346019

Luminaire Tested: P3A13R409727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

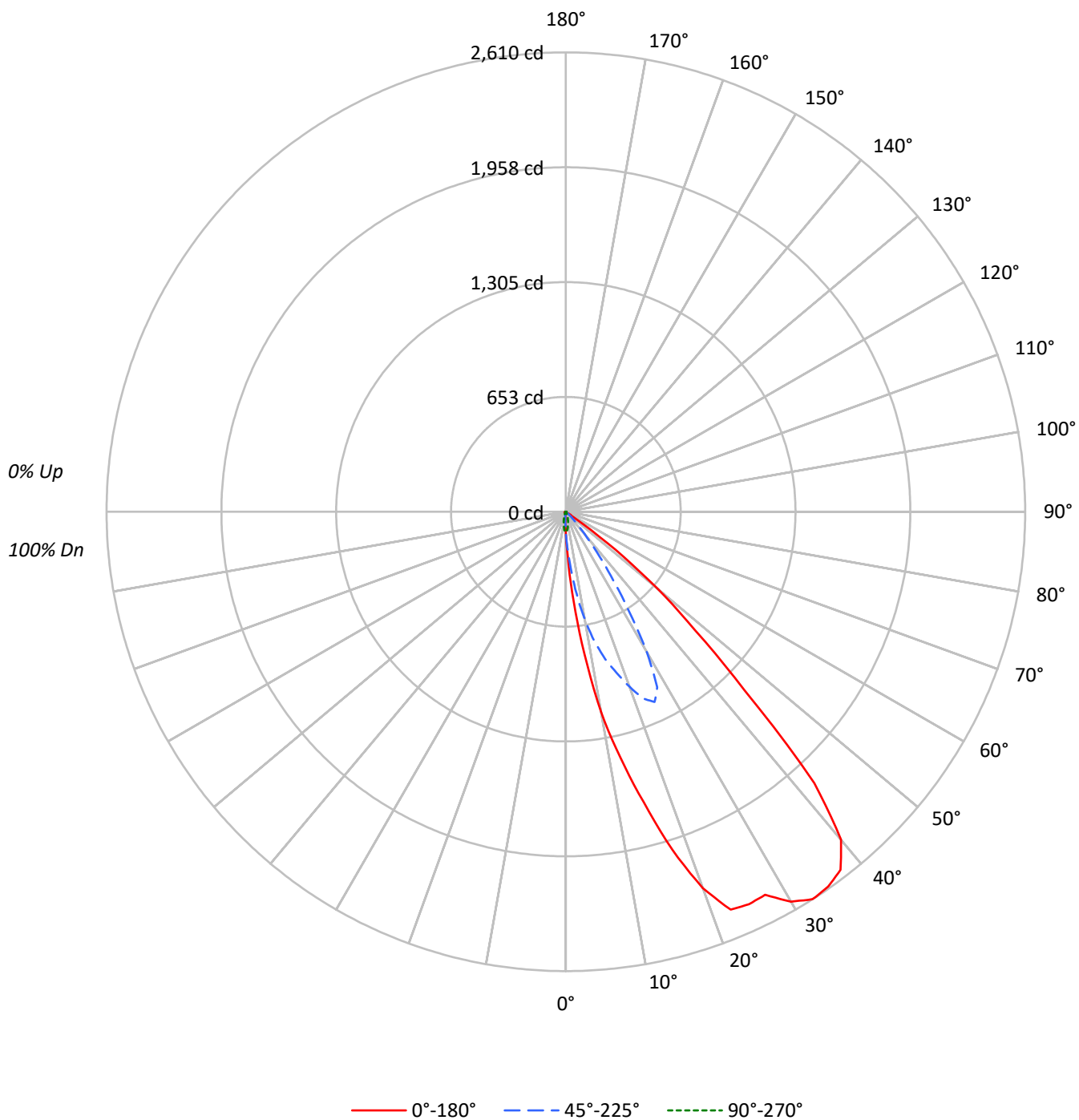
Lumens per Lamp: N/A
Luminaire Lumens: 963.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24976	24976	24976	24976	24976
5°	112679	71847	22386	8607	6273
10°	258423	138831	15765	3073	2360
15°	387834	196959	9784	1657	1476
20°	531043	246911	5694	957	1143
25°	595317	288501	2952	798	992
30°	647517	232871	1241	608	1038
35°	695893	119177	428	883	1312
40°	696161	47518	229	945	1632
45°	444480	15909	496	1520	2264
50°	230747	1944	819	1944	2763
55°	19918	306	918	2485	3441
60°	702	351	1053	2851	3947
65°	830	415	1712	2958	4203
70°	513	513	2116	3142	4167
75°	678	678	2033	3474	4829
80°	1010	1010	3031	3031	4167
85°	0	2013	6038	4026	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 444480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	2.3
10°-20°	130.3	13.5
20°-30°	285.5	29.6
30°-40°	325.2	33.8
40°-50°	171.6	17.8
50°-60°	20.2	2.1
60°-70°	3.6	0.4
70°-80°	3.0	0.3
80°-90°	1.3	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°	438.0	45.5
0°-40°	763.2	79.3
0°-60°	955.0	99.2
0°-90°	963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	114	114	114	114	114	
5°	512	326	102	39	28	69
15°	1708	868	43	7	6	503
25°	2460	1192	12	3	4	1134
35°	2600	445	2	3	5	1611
45°	1433	51	2	5	7	1156
55°	52	1	2	6	9	162
65°	2	1	3	6	8	1
75°	1	1	2	4	6	1
85°	0	1	2	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9
2.5°	253.9	253.9	253.1	245.8	245.0	244.2	231.2	227.9	212.4	201.8	153.8
5°	511.9	500.6	499.7	486.7	464.7	435.4	416.7	386.6	357.3	326.4	189.6
7.5°	815.5	825.3	798.4	784.6	735.8	700.8	647.1	599.9	533.9	472.1	218.9
10°	1160.6	1143.5	1116.7	1089.8	1036.9	974.3	894.5	810.7	715.4	623.5	235.2
12.5°	1430.0	1408.1	1391.8	1355.2	1303.1	1222.5	1127.3	1014.9	888.8	756.1	234.4
15°	1708.4	1686.4	1649.8	1617.2	1539.9	1449.6	1346.2	1198.1	1043.4	867.6	217.3
17.5°	2014.4	1985.9	1945.2	1895.6	1820.7	1720.6	1589.6	1408.9	1189.9	958.8	186.4
20°	2275.7	2258.6	2217.9	2159.3	2086.1	1988.4	1837.0	1636.8	1369.8	1058.1	148.1
22.5°	2446.6	2431.2	2403.5	2352.2	2296.9	2192.7	2054.3	1834.6	1520.4	1148.4	112.3
25°	2460.5	2453.9	2446.6	2429.5	2396.2	2322.1	2187.0	1950.1	1614.0	1192.4	83.0
27.5°	2453.1	2450.7	2449.1	2440.1	2418.1	2344.9	2206.5	1967.2	1601.8	1124.0	61.0
30°	2557.3	2550.0	2545.9	2516.6	2458.8	2345.7	2165.0	1875.2	1423.5	919.7	44.0
32.5°	2610.2	2608.6	2604.5	2576.0	2494.6	2347.3	2095.0	1653.1	1128.9	664.2	30.1
35°	2599.6	2591.5	2576.8	2523.9	2410.8	2226.0	1868.7	1320.2	814.7	445.2	19.5
37.5°	2563.8	2545.1	2516.6	2421.4	2270.8	2018.5	1515.5	971.8	554.3	288.1	11.4
40°	2432.0	2406.7	2362.0	2245.6	2047.8	1663.6	1120.8	656.8	363.8	166.0	3.3
42.5°	2090.9	2058.4	2025.8	1895.6	1669.3	1240.4	737.4	406.1	207.5	91.2	0.8
45°	1433.3	1392.6	1347.8	1253.4	1071.9	751.2	438.7	228.7	107.4	51.3	0.8
47.5°	995.4	976.7	898.6	778.1	596.6	398.0	227.1	112.3	57.0	23.6	0.8
50°	676.4	655.2	564.0	447.7	317.4	190.5	104.2	56.2	25.2	5.7	0.8
52.5°	354.9	328.8	271.0	206.7	128.6	79.8	45.6	24.4	7.3	0.8	0.8
55°	52.1	48.0	39.1	31.7	28.5	22.0	13.0	5.7	0.8	0.8	1.6
57.5°	1.6	1.6	1.6	1.6	2.4	2.4	1.6	0.8	0.8	0.8	1.6
60°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6
65°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6
67.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.4
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6
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):

	90°	112.5°	135°	157.5°	180°
0°	113.9	113.9	113.9	113.9	113.9
2.5°	112.3	83.0	64.3	55.3	54.5
5°	101.7	59.4	39.1	30.1	28.5
7.5°	86.3	41.5	22.8	16.3	15.5
10°	70.8	28.5	13.8	11.4	10.6
12.5°	56.2	18.7	9.8	9.0	8.1
15°	43.1	12.2	7.3	6.5	6.5
17.5°	32.6	8.1	5.7	5.7	5.7
20°	24.4	5.7	4.1	4.9	4.9
22.5°	17.1	4.1	3.3	4.1	4.1
25°	12.2	3.3	3.3	4.1	4.1
27.5°	8.1	2.4	2.4	3.3	4.1
30°	4.9	1.6	2.4	3.3	4.1
32.5°	2.4	1.6	2.4	4.1	4.1
35°	1.6	2.4	3.3	4.1	4.9
37.5°	0.8	2.4	3.3	4.9	4.9
40°	0.8	2.4	3.3	4.9	5.7
42.5°	1.6	3.3	4.1	5.7	6.5
45°	1.6	3.3	4.9	6.5	7.3
47.5°	1.6	3.3	5.7	7.3	7.3
50°	2.4	4.1	5.7	7.3	8.1
52.5°	2.4	4.1	5.7	8.1	9.0
55°	2.4	4.1	6.5	8.1	9.0
57.5°	2.4	4.9	6.5	8.1	9.0
60°	2.4	4.1	6.5	8.1	9.0
62.5°	3.3	4.1	5.7	8.1	8.1
65°	3.3	4.1	5.7	8.1	8.1
67.5°	3.3	4.1	5.7	7.3	7.3
70°	3.3	4.1	4.9	6.5	6.5
72.5°	3.3	4.1	4.9	5.7	6.5
75°	2.4	3.3	4.1	4.9	5.7
77.5°	2.4	3.3	3.3	4.9	4.9
80°	2.4	2.4	2.4	3.3	3.3
82.5°	2.4	2.4	1.6	2.4	2.4
85°	2.4	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)