

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: P1345619

Luminaire Tested: P3A13R359840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

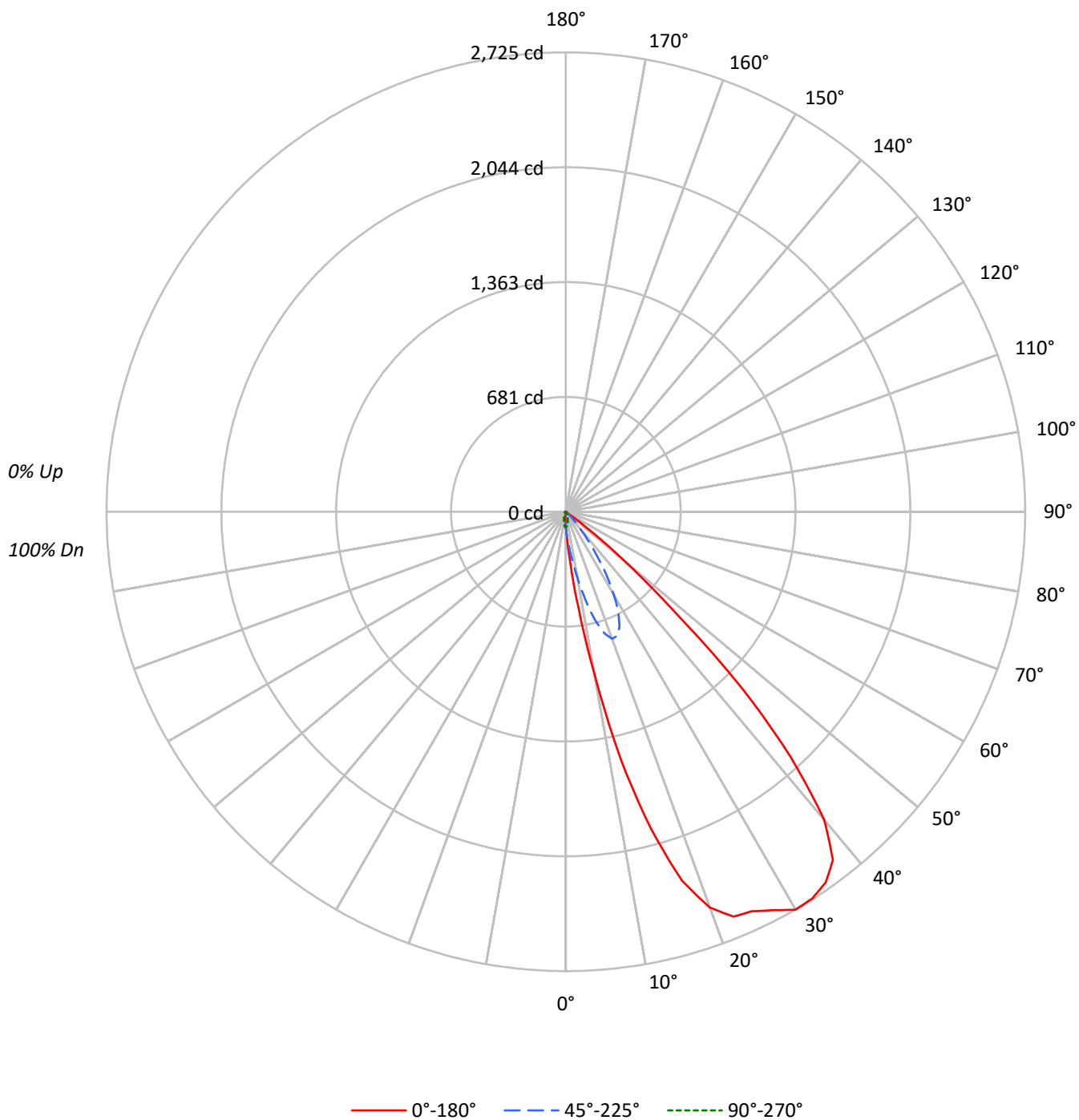
Lumens per Lamp: N/A
Luminaire Lumens: 857.0 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	112	109	106	104	110	107	104	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79		85	81	77		82	79	76	74
4	92	83	77	72	91	82	76	71	80	75	71		78	73	70		76	72	69	67
5	86	76	69	64	85	75	69	64	74	68	63		72	67	63		70	66	62	61
6	81	70	63	58	79	69	62	58	68	62	57		66	61	57		65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51	46	42	41
10	62	50	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°	19735	19735	19735	19735	19735
5°	67224	43693	18468	7792	5767
10°	216340	88553	14562	2917	1893
15°	440797	150194	10307	1044	704
20°	582894	187056	6651	350	350
25°	632480	181849	3726	194	363
30°	689954	144934	1570	203	380
35°	718914	90212	402	214	402
40°	682221	39417	229	429	658
45°	455427	15754	248	713	1178
50°	152728	2627	512	1058	1569
55°	8525	306	573	1453	2064
60°	658	351	1009	1667	2368
65°	778	415	1193	1972	2802
70°	513	513	1475	2436	2949
75°	678	678	1949	2626	3219
80°	0	1010	2904	2904	2904
85°	0	2013	5787	2013	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 455427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	1.8
10°-20°	123.1	14.4
20°-30°	259.8	30.3
30°-40°	294.8	34.4
40°-50°	145.1	16.9
50°-60°	12.6	1.5
60°-70°	2.6	0.3
70°-80°	2.4	0.3
80°-90°	1.2	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°	398.5	46.5
0°-40°	693.3	80.9
0°-60°	850.9	99.3
0°-90°	857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	857.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	90	90	90	90	90	
5°	305	198	84	35	26	50
15°	1942	662	45	5	3	552
25°	2614	752	15	1	2	1216
35°	2686	337	2	1	2	1655
45°	1469	51	1	2	4	1085
55°	22	1	2	4	5	88
65°	2	1	2	4	5	1
75°	1	1	2	3	4	1
85°	0	1	2	1	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°	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
2.5°	156.2	160.0	158.5	157.7	156.9	153.9	146.9	146.2	139.2	134.6	111.5
5°	305.4	299.3	300.8	292.3	281.6	266.2	256.2	234.6	216.9	198.5	130.0
7.5°	575.4	567.0	550.8	526.2	500.8	467.7	417.7	377.7	331.6	287.7	144.6
10°	971.6	967.0	946.2	883.2	827.8	739.3	656.2	568.5	482.3	397.7	154.6
12.5°	1500.9	1469.4	1431.7	1347.8	1238.6	1127.8	963.9	812.4	674.7	533.1	155.4
15°	1941.7	1921.7	1868.6	1759.4	1627.8	1467.8	1273.2	1069.3	861.6	661.6	147.7
17.5°	2296.4	2265.6	2197.1	2090.2	1938.6	1730.9	1503.2	1254.7	1001.6	753.1	134.6
20°	2497.9	2481.8	2429.4	2322.5	2157.1	1930.2	1670.9	1381.7	1089.3	801.6	117.7
22.5°	2599.5	2587.9	2549.5	2464.1	2309.4	2080.9	1784.0	1447.8	1114.7	796.2	100.0
25°	2614.1	2611.0	2577.9	2513.3	2384.1	2157.9	1833.2	1460.1	1093.9	751.6	83.1
27.5°	2664.8	2654.1	2614.8	2550.2	2420.2	2171.0	1816.3	1417.8	1027.0	673.1	69.2
30°	2724.9	2717.2	2677.9	2611.0	2457.1	2158.6	1756.3	1324.0	920.1	572.4	51.5
32.5°	2720.2	2717.2	2684.1	2613.3	2431.0	2086.3	1649.4	1183.2	774.7	451.6	32.3
35°	2685.6	2674.8	2633.3	2524.1	2281.7	1900.2	1446.3	992.4	613.1	337.0	20.8
37.5°	2602.5	2579.5	2509.4	2324.0	2014.8	1613.2	1177.8	766.2	433.9	225.4	13.1
40°	2383.3	2354.0	2213.3	1989.4	1665.5	1270.9	876.2	527.0	286.2	137.7	5.4
42.5°	1977.1	1917.9	1777.1	1547.1	1243.2	898.5	575.4	341.6	168.5	83.1	1.5
45°	1468.6	1423.2	1275.5	1067.0	814.7	576.2	348.5	184.6	93.1	50.8	0.8
47.5°	855.5	827.8	751.6	614.7	450.0	302.3	178.5	99.2	54.6	24.6	0.8
50°	447.7	413.1	355.4	269.3	198.5	139.2	86.9	53.1	26.9	7.7	0.8
52.5°	156.9	154.6	140.8	106.2	86.2	62.3	42.3	23.1	7.7	1.5	0.8
55°	22.3	22.3	20.8	23.1	24.6	22.3	14.6	6.2	1.5	0.8	0.8
57.5°	1.5	1.5	1.5	2.3	3.1	3.1	2.3	0.8	0.8	0.8	1.5
60°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
62.5°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
65°	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
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):

	90°	112.5°	135°	157.5°	180°
0°	90.0	90.0	90.0	90.0	90.0
2.5°	89.2	71.5	56.9	50.0	47.7
5°	83.9	53.9	35.4	27.7	26.2
7.5°	74.6	38.5	21.5	15.4	14.6
10°	65.4	27.7	13.1	9.2	8.5
12.5°	54.6	19.2	8.5	5.4	4.6
15°	45.4	13.1	4.6	3.8	3.1
17.5°	36.2	8.5	3.1	2.3	3.1
20°	28.5	5.4	1.5	1.5	1.5
22.5°	21.5	3.1	1.5	1.5	1.5
25°	15.4	1.5	0.8	0.8	1.5
27.5°	10.8	0.8	0.8	0.8	1.5
30°	6.2	0.8	0.8	0.8	1.5
32.5°	3.1	0.8	0.8	1.5	1.5
35°	1.5	0.8	0.8	1.5	1.5
37.5°	0.8	0.8	0.8	1.5	2.3
40°	0.8	0.8	1.5	2.3	2.3
42.5°	0.8	0.8	1.5	2.3	3.1
45°	0.8	1.5	2.3	3.1	3.8
47.5°	1.5	1.5	3.1	3.8	4.6
50°	1.5	2.3	3.1	4.6	4.6
52.5°	1.5	2.3	3.8	4.6	5.4
55°	1.5	3.1	3.8	5.4	5.4
57.5°	2.3	3.1	3.8	5.4	5.4
60°	2.3	3.1	3.8	5.4	5.4
62.5°	2.3	3.1	3.8	5.4	5.4
65°	2.3	3.1	3.8	5.4	5.4
67.5°	2.3	3.1	3.8	4.6	5.4
70°	2.3	3.1	3.8	4.6	4.6
72.5°	3.1	3.1	3.8	4.6	4.6
75°	2.3	3.1	3.1	3.8	3.8
77.5°	2.3	2.3	2.3	3.1	3.1
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	1.5	1.5	2.3	2.3
85°	2.3	1.5	0.8	1.5	1.5
87.5°	1.5	1.5	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)