

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: P1344067

Luminaire Tested: P3A13R209830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

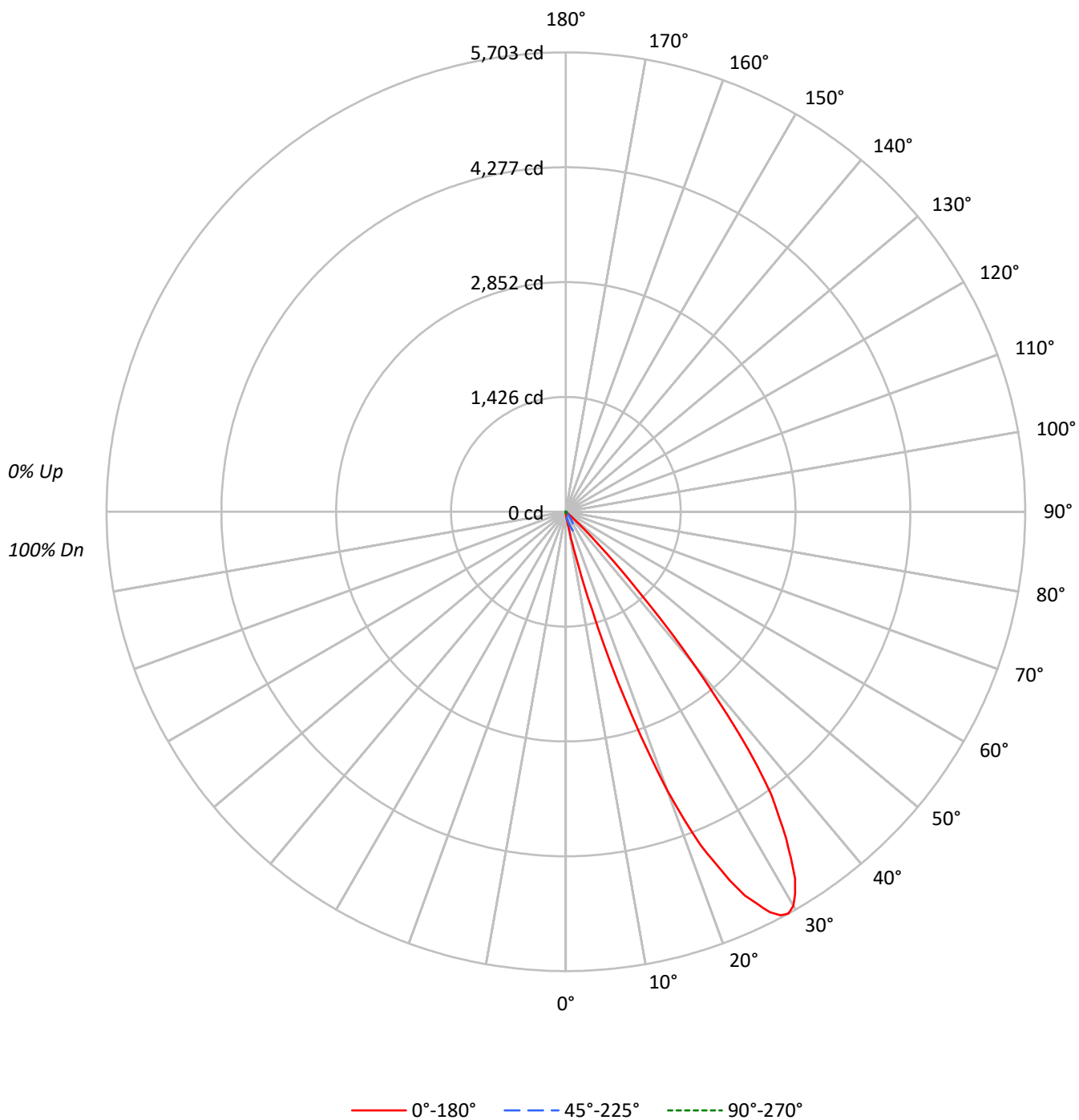
Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	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	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6052	6052	6052	6052	6052
5°	13889	10390	5745	3522	3038
10°	43798	18103	4676	1937	1447
15°	283725	33439	3451	658	159
20°	856314	57242	2380	0	0
25°	1271735	57778	1403	0	0
30°	1430119	43931	557	0	0
35°	1233928	26234	402	0	0
40°	710531	8931	0	0	0
45°	173320	3597	217	0	217
50°	20810	989	239	239	751
55°	2791	0	573	573	1109
60°	307	0	965	965	1579
65°	363	363	1505	1505	2283
70°	449	449	1859	1859	2308
75°	0	593	2457	1864	2457
80°	0	884	2778	1894	2778
85°	0	1761	5535	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 174437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.5
10°-20°	74.1	9.3
20°-30°	323.2	40.4
30°-40°	325.4	40.7
40°-50°	65.3	8.2
50°-60°	3.3	0.4
60°-70°	2.2	0.3
70°-80°	1.9	0.2
80°-90°	1.0	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°	401.0	50.1
0°-40°	726.4	90.8
0°-60°	795.0	99.4
0°-90°	800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	63	47	26	16	14	10
15°	1250	147	15	3	1	490
25°	5256	239	6	0	0	2370
35°	4610	98	2	0	0	2743
45°	559	12	1	0	1	608
55°	7	0	2	2	3	13
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	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°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
2.5°	41.4	41.4	40.6	40.6	39.9	40.6	39.2	39.9	39.9	39.2	35.6
5°	63.1	64.6	63.9	63.9	63.1	63.9	62.4	61.0	59.5	59.5	47.2
7.5°	103.8	103.1	101.6	102.3	100.2	98.7	97.3	96.5	92.2	90.0	61.7
10°	196.7	201.0	197.4	196.7	183.6	182.9	174.2	161.9	151.0	145.2	81.3
12.5°	541.4	564.7	528.4	511.0	500.8	461.6	444.9	402.1	360.7	329.5	103.1
15°	1249.8	1307.1	1233.8	1238.9	1178.0	1066.2	968.2	884.0	784.6	684.4	147.3
17.5°	2448.8	2402.4	2362.4	2294.9	2170.8	2006.8	1795.6	1581.5	1396.4	1202.6	205.4
20°	3669.6	3628.2	3537.5	3390.2	3231.9	2988.8	2737.7	2416.2	2104.8	1813.0	245.3
21°	4089.8	4076.0	3927.2	3836.5	3592.7	3360.4	3070.8	2726.8	2376.2	2030.8	251.8
22°	4465.1	4382.3	4302.5	4168.2	3925.8	3673.2	3351.0	2988.8	2608.5	2224.5	252.6
23°	4724.9	4687.1	4611.7	4460.0	4219.0	3922.2	3582.5	3203.6	2803.0	2361.7	250.4
24°	5012.3	4964.4	4854.1	4677.0	4433.8	4140.6	3753.1	3377.1	2941.6	2477.1	244.6
25°	5256.2	5181.4	5050.8	4859.9	4594.2	4291.6	3901.8	3488.9	3038.2	2554.8	238.8
26°	5414.4	5373.7	5206.1	4998.5	4714.0	4401.9	4004.2	3574.5	3100.6	2590.3	229.3
27°	5579.1	5504.4	5339.6	5100.8	4792.4	4473.8	4062.2	3615.9	3122.3	2591.8	217.7
28°	5673.5	5592.2	5405.7	5154.6	4843.2	4513.7	4095.6	3628.9	3118.0	2569.3	203.9
29°	5703.3	5600.9	5418.7	5163.3	4855.5	4516.6	4090.6	3610.1	3079.5	2514.1	188.0
30°	5648.1	5543.6	5370.8	5121.9	4816.3	4480.3	4043.4	3547.7	3011.3	2435.0	173.5
31°	5527.6	5439.1	5272.1	5022.5	4729.2	4395.4	3936.7	3445.3	2895.2	2329.1	156.8
32°	5368.7	5281.6	5117.5	4891.8	4593.5	4256.8	3790.8	3285.6	2758.7	2170.8	140.1
33°	5129.9	5079.8	4932.5	4716.9	4418.6	4058.6	3594.8	3094.8	2564.2	1995.2	125.6
34°	4888.2	4825.0	4722.0	4486.1	4165.3	3806.0	3339.4	2831.3	2326.9	1798.5	111.8
35°	4609.5	4571.7	4409.9	4221.2	3898.9	3531.7	3067.9	2575.1	2050.4	1579.3	98.0
36°	4339.5	4281.4	4097.1	3897.5	3584.7	3187.7	2729.7	2266.6	1811.6	1373.9	83.5
37°	3947.6	3859.0	3727.7	3517.2	3151.4	2813.2	2395.1	1965.4	1517.6	1151.8	67.5
38°	3486.7	3445.3	3263.2	3051.2	2748.6	2427.8	2014.1	1649.7	1252.0	961.7	51.5
39°	2943.1	2942.4	2768.2	2615.0	2318.9	2030.0	1657.0	1339.1	1033.5	774.4	39.9
40°	2482.2	2396.6	2289.1	2096.8	1869.6	1624.3	1297.7	1048.0	802.0	624.2	31.2
42.5°	1301.3	1294.1	1230.9	1086.5	959.5	815.1	648.1	540.0	422.4	344.0	19.6
45°	558.9	562.5	518.9	497.2	447.8	387.6	327.3	272.9	233.7	189.4	11.6
47.5°	141.5	135.7	134.3	139.4	139.4	135.0	121.2	113.9	105.2	96.5	6.5
50°	61.0	59.5	58.1	58.1	54.4	52.3	48.6	44.3	40.6	36.3	2.9
52.5°	22.5	23.2	24.0	23.2	23.2	22.5	22.5	21.8	19.6	17.4	1.5
55°	7.3	7.3	7.3	8.0	8.0	8.7	8.7	8.7	8.7	8.0	0.0
57.5°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	27.6	27.6	27.6	27.6	27.6	27.6
2.5°	31.9	28.3	24.0	20.3	19.6	18.9
5°	35.6	26.1	19.6	16.0	14.5	13.8
7.5°	38.5	24.0	16.0	11.6	10.2	9.4
10°	39.9	21.0	13.1	8.7	6.5	6.5
12.5°	40.6	18.1	9.4	5.8	3.6	3.6
15°	39.9	15.2	7.3	2.9	0.7	0.7
17.5°	36.3	12.3	4.4	0.7	0.0	0.0
20°	31.2	10.2	2.9	0.0	0.0	0.0
21°	29.8	8.7	2.2	0.0	0.0	0.0
22°	27.6	8.0	1.5	0.0	0.0	0.0
23°	25.4	7.3	1.5	0.0	0.0	0.0
24°	23.2	6.5	0.7	0.0	0.0	0.0
25°	21.8	5.8	0.7	0.0	0.0	0.0
26°	20.3	5.1	0.7	0.0	0.0	0.0
27°	18.1	4.4	0.0	0.0	0.0	0.0
28°	16.7	3.6	0.0	0.0	0.0	0.0
29°	14.5	2.9	0.0	0.0	0.0	0.0
30°	12.3	2.2	0.0	0.0	0.0	0.0
31°	10.2	2.2	0.0	0.0	0.0	0.0
32°	8.7	1.5	0.0	0.0	0.0	0.0
33°	7.3	1.5	0.0	0.0	0.0	0.0
34°	6.5	1.5	0.0	0.0	0.0	0.0
35°	5.8	1.5	0.0	0.0	0.0	0.0
36°	4.4	0.7	0.0	0.0	0.0	0.0
37°	3.6	0.7	0.0	0.0	0.0	0.0
38°	2.9	0.7	0.0	0.0	0.0	0.0
39°	2.2	0.0	0.0	0.0	0.0	0.0
40°	2.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.5
50°	0.0	0.7	0.7	0.7	1.5	2.2
52.5°	0.0	1.5	0.7	0.7	2.2	2.2
55°	0.7	1.5	0.7	1.5	2.9	2.9
57.5°	0.7	1.5	1.5	2.2	2.9	3.6
60°	1.5	2.2	2.2	2.2	3.6	3.6
62.5°	1.5	2.2	2.9	2.9	3.6	4.4
65°	1.5	2.9	2.9	2.9	3.6	4.4
67.5°	2.2	2.9	2.9	2.9	3.6	4.4
70°	2.2	2.9	2.9	2.9	3.6	3.6
72.5°	2.2	2.9	2.2	2.9	2.9	3.6
75°	2.2	2.9	2.2	2.2	2.9	2.9
77.5°	1.5	2.2	2.2	1.5	2.2	2.2
80°	1.5	2.2	1.5	1.5	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.2	1.5	0.7	1.5	1.5
85°	1.5	2.2	1.5	0.7	0.7	0.7
87.5°	1.5	2.2	1.5	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)