

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: P1343915

Luminaire Tested: P3A13R209030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343915
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: P3A13R209030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

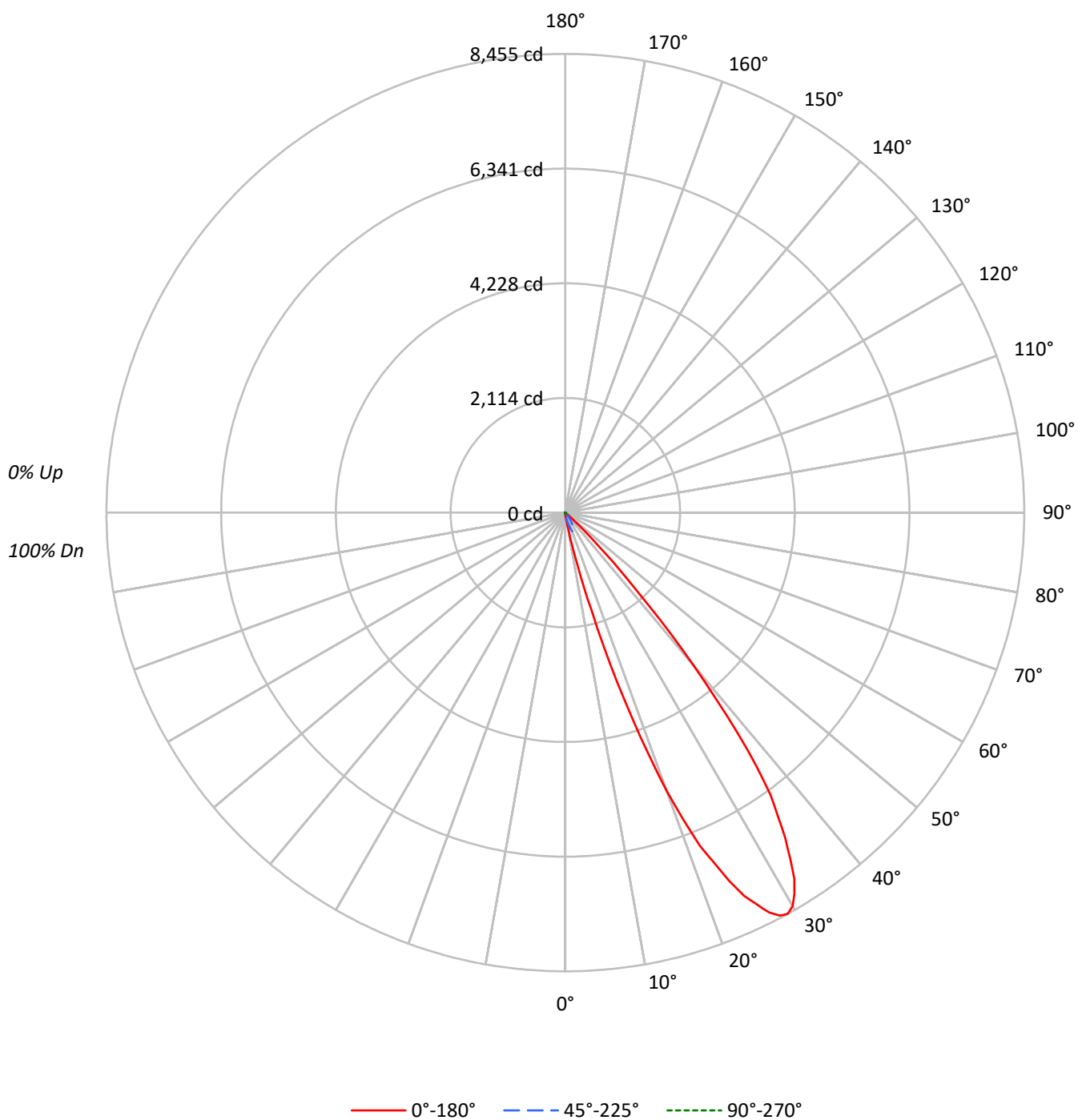
Lumens per Lamp: N/A
Luminaire Lumens: 1186.1 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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°	8969	8969	8969	8969	8969
5°	20603	15386	8519	5217	4490
10°	64929	26831	6947	2872	2160
15°	420615	49580	5131	976	250
20°	1269490	84871	3524	0	0
25°	1885343	85650	2081	0	0
30°	2120149	65124	810	0	0
35°	1829302	38896	589	0	0
40°	1053374	13253	0	0	0
45°	256926	5334	341	0	341
50°	30839	1467	375	375	1092
55°	4129	0	841	841	1644
60°	482	0	1403	1403	2368
65°	571	571	2231	2231	3373
70°	705	705	2757	2757	3462
75°	0	932	3643	2711	3643
80°	0	1389	4041	2778	4041
85°	0	2768	8051	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 258600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.5
10°-20°	109.9	9.3
20°-30°	479.1	40.4
30°-40°	482.5	40.7
40°-50°	96.8	8.2
50°-60°	4.9	0.4
60°-70°	3.2	0.3
70°-80°	2.8	0.2
80°-90°	1.5	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°	594.5	50.1
0°-40°	1076.9	90.8
0°-60°	1178.6	99.4
0°-90°	1186.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	94	70	39	24	20	15
15°	1853	218	23	4	1	726
25°	7792	354	9	0	0	3513
35°	6834	145	2	0	0	4066
45°	828	17	1	0	1	902
55°	11	0	2	2	4	20
65°	1	1	4	4	6	1
75°	0	1	4	3	4	0
85°	0	1	3	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°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	61.3	61.3	60.3	60.3	59.2	60.3	58.1	59.2	59.2	58.1	52.7
5°	93.6	95.8	94.7	94.7	93.6	94.7	92.5	90.4	88.2	88.2	69.9
7.5°	153.9	152.8	150.6	151.7	148.5	146.3	144.2	143.1	136.6	133.4	91.5
10°	291.6	298.0	292.7	291.6	272.2	271.1	258.2	239.9	223.8	215.2	120.5
12.5°	802.7	837.1	783.3	757.5	742.4	684.3	659.6	596.1	534.8	488.5	152.8
15°	1852.8	1937.8	1829.2	1836.7	1746.3	1580.6	1435.4	1310.5	1163.1	1014.7	218.4
17.5°	3630.4	3561.5	3502.3	3402.3	3218.3	2975.1	2662.0	2344.6	2070.2	1782.9	304.5
20°	5440.2	5378.8	5244.3	5025.9	4791.4	4430.9	4058.6	3581.9	3120.4	2687.8	363.7
21°	6063.2	6042.7	5822.1	5687.6	5326.1	4981.8	4552.5	4042.5	3522.8	3010.6	373.4
22°	6619.4	6496.8	6378.4	6179.4	5820.0	5445.6	4967.8	4430.9	3867.1	3297.9	374.4
23°	7004.6	6948.7	6836.8	6611.9	6254.7	5814.6	5311.1	4749.4	4155.4	3501.2	371.2
24°	7430.7	7359.7	7196.2	6933.6	6573.2	6138.5	5563.9	5006.5	4361.0	3672.3	362.6
25°	7792.3	7681.4	7487.8	7204.8	6811.0	6362.3	5784.5	5172.3	4504.1	3787.5	354.0
26°	8026.8	7966.6	7718.0	7410.3	6988.5	6525.8	5936.2	5299.2	4596.6	3840.2	340.0
27°	8271.1	8160.3	7916.0	7562.0	7104.7	6632.4	6022.3	5360.5	4628.9	3842.3	322.8
28°	8411.0	8290.4	8013.9	7641.6	7180.0	6691.5	6071.8	5379.9	4622.4	3809.0	302.4
29°	8455.1	8303.4	8033.3	7654.5	7198.3	6695.8	6064.2	5351.9	4565.4	3727.2	278.7
30°	8373.3	8218.4	7962.3	7593.2	7140.2	6642.0	5994.3	5259.4	4464.3	3609.9	257.2
31°	8194.7	8063.4	7815.9	7445.8	7011.1	6516.2	5836.1	5107.7	4292.1	3452.8	232.4
32°	7959.0	7829.9	7586.8	7252.1	6809.9	6310.6	5619.9	4871.0	4089.8	3218.3	207.7
33°	7605.0	7530.8	7312.4	6992.8	6550.6	6016.9	5329.3	4588.0	3801.4	2957.9	186.1
34°	7246.7	7153.1	7000.3	6650.7	6175.1	5642.5	4950.6	4197.4	3449.6	2666.3	165.7
35°	6833.6	6777.6	6537.7	6257.9	5780.2	5235.7	4548.2	3817.6	3039.7	2341.3	145.3
36°	6433.3	6347.2	6073.9	5778.0	5314.3	4725.7	4046.8	3360.3	2685.7	2036.8	123.7
37°	5852.3	5721.0	5526.2	5214.2	4671.9	4170.5	3550.7	2913.8	2249.9	1707.6	100.1
38°	5169.0	5107.7	4837.6	4523.4	4074.7	3599.2	2985.9	2445.7	1856.1	1425.7	76.4
39°	4363.1	4362.0	4103.8	3876.8	3437.8	3009.5	2456.5	1985.2	1532.2	1148.1	59.2
40°	3679.9	3552.9	3393.7	3108.5	2771.7	2408.1	1923.9	1553.7	1189.0	925.3	46.3
42.5°	1929.2	1918.5	1824.9	1610.7	1422.4	1208.3	960.9	800.5	626.2	510.0	29.1
45°	828.5	833.9	769.3	737.0	663.9	574.6	485.3	404.6	346.5	280.8	17.2
47.5°	209.8	201.2	199.1	206.6	206.6	200.1	179.7	168.9	156.0	143.1	9.7
50°	90.4	88.2	86.1	86.1	80.7	77.5	72.1	65.6	60.3	53.8	4.3
52.5°	33.4	34.4	35.5	34.4	34.4	33.4	33.4	32.3	29.1	25.8	2.2
55°	10.8	10.8	10.8	11.8	11.8	12.9	12.9	12.9	12.9	11.8	0.0
57.5°	2.2	2.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	0.0
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	1.1	0.0	1.1	1.1	0.0	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	47.3	42.0	35.5	30.1	29.1	28.0
5°	52.7	38.7	29.1	23.7	21.5	20.4
7.5°	57.0	35.5	23.7	17.2	15.1	14.0
10°	59.2	31.2	19.4	12.9	9.7	9.7
12.5°	60.3	26.9	14.0	8.6	5.4	5.4
15°	59.2	22.6	10.8	4.3	1.1	1.1
17.5°	53.8	18.3	6.5	1.1	0.0	0.0
20°	46.3	15.1	4.3	0.0	0.0	0.0
21°	44.1	12.9	3.2	0.0	0.0	0.0
22°	40.9	11.8	2.2	0.0	0.0	0.0
23°	37.7	10.8	2.2	0.0	0.0	0.0
24°	34.4	9.7	1.1	0.0	0.0	0.0
25°	32.3	8.6	1.1	0.0	0.0	0.0
26°	30.1	7.5	1.1	0.0	0.0	0.0
27°	26.9	6.5	0.0	0.0	0.0	0.0
28°	24.7	5.4	0.0	0.0	0.0	0.0
29°	21.5	4.3	0.0	0.0	0.0	0.0
30°	18.3	3.2	0.0	0.0	0.0	0.0
31°	15.1	3.2	0.0	0.0	0.0	0.0
32°	12.9	2.2	0.0	0.0	0.0	0.0
33°	10.8	2.2	0.0	0.0	0.0	0.0
34°	9.7	2.2	0.0	0.0	0.0	0.0
35°	8.6	2.2	0.0	0.0	0.0	0.0
36°	6.5	1.1	0.0	0.0	0.0	0.0
37°	5.4	1.1	0.0	0.0	0.0	0.0
38°	4.3	1.1	0.0	0.0	0.0	0.0
39°	3.2	0.0	0.0	0.0	0.0	0.0
40°	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	1.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.1	0.0	0.0	1.1	1.1
47.5°	0.0	1.1	0.0	0.0	1.1	2.2
50°	0.0	1.1	1.1	1.1	2.2	3.2
52.5°	0.0	2.2	1.1	1.1	3.2	3.2
55°	1.1	2.2	1.1	2.2	4.3	4.3
57.5°	1.1	2.2	2.2	3.2	4.3	5.4
60°	2.2	3.2	3.2	3.2	5.4	5.4
62.5°	2.2	3.2	4.3	4.3	5.4	6.5
65°	2.2	4.3	4.3	4.3	5.4	6.5
67.5°	3.2	4.3	4.3	4.3	5.4	6.5
70°	3.2	4.3	4.3	4.3	5.4	5.4
72.5°	3.2	4.3	3.2	4.3	4.3	5.4
75°	3.2	4.3	3.2	3.2	4.3	4.3
77.5°	2.2	3.2	3.2	2.2	3.2	3.2
80°	2.2	3.2	2.2	2.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.2	3.2	2.2	1.1	2.2	2.2
85°	2.2	3.2	2.2	1.1	1.1	1.1
87.5°	2.2	3.2	2.2	1.1	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)