

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: P1343415

Luminaire Tested: P3A13R159030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343415
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: P3A13R159030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

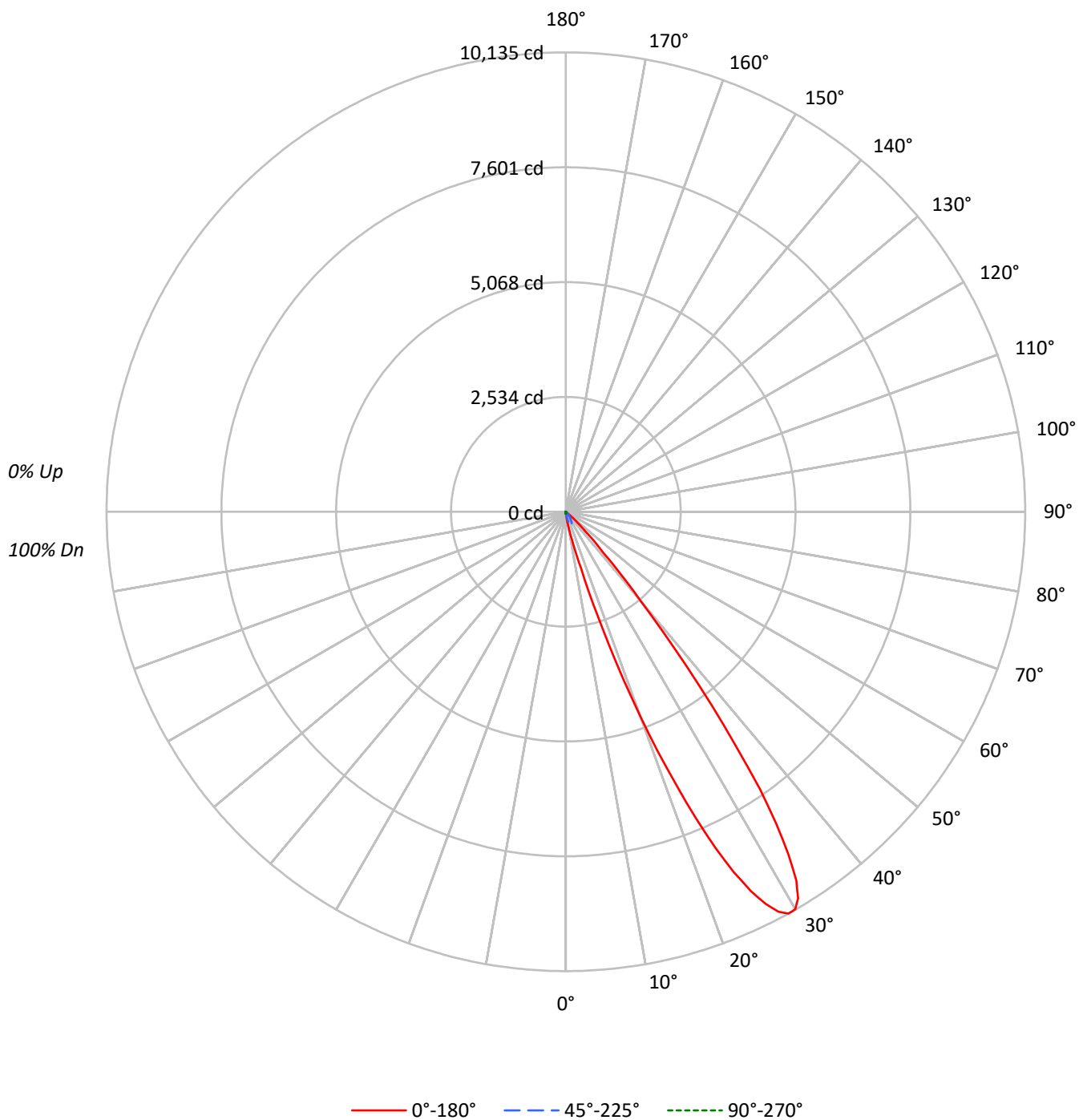
Lumens per Lamp: N/A
Luminaire Lumens: 1107.1 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	47	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°	8026	8026	8026	8026	8026
5°	17301	12789	7594	4028	3324
10°	76730	24226	5990	1670	1202
15°	290172	55982	4154	726	499
20°	1115944	78897	2520	257	257
25°	2122090	73988	1307	0	0
30°	2563534	59705	557	0	0
35°	1999367	40636	294	0	0
40°	729624	20038	315	0	315
45°	187337	6016	341	0	682
50°	31590	751	375	375	1092
55°	4129	0	841	1223	2064
60°	482	482	1403	1886	2851
65°	571	571	2231	2802	3373
70°	705	705	2757	2757	3462
75°	932	932	3643	2711	3643
80°	0	1389	4041	2778	4041
85°	0	2768	8051	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 187337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.5
10°-20°	84.8	7.7
20°-30°	470.5	42.5
30°-40°	454.5	41.1
40°-50°	79.1	7.1
50°-60°	5.7	0.5
60°-70°	3.4	0.3
70°-80°	2.7	0.2
80°-90°	1.4	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°	560.3	50.6
0°-40°	1014.9	91.7
0°-60°	1099.6	99.3
0°-90°	1107.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1107.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	79	58	34	18	15	15
15°	1278	247	18	3	2	570
25°	8771	306	5	0	0	3922
35°	7469	152	1	0	0	4295
45°	604	19	1	0	2	649
55°	11	0	2	3	5	21
65°	1	1	4	5	6	1
75°	1	1	4	3	4	1
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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	53.8	51.7	52.8	52.8	52.8	52.8	52.8	50.6	50.6	51.7	46.3
5°	78.6	78.6	77.5	78.6	78.6	77.5	75.4	74.3	74.3	72.1	58.1
7.5°	157.2	155.1	155.1	152.9	142.1	138.9	136.8	131.4	121.7	119.5	75.4
10°	344.6	345.7	338.1	328.4	327.4	311.2	305.8	296.1	277.8	259.5	108.8
12.5°	625.6	611.6	593.3	594.4	563.2	552.4	527.6	500.7	472.7	443.7	178.8
15°	1278.2	1238.4	1262.0	1203.9	1138.2	1063.9	988.5	893.8	813.0	726.9	246.6
17.5°	2692.1	2730.8	2665.2	2416.4	2263.5	2083.7	1830.6	1586.2	1377.3	1209.3	301.5
20°	4782.2	4839.3	4616.4	4399.9	4028.4	3623.5	3201.4	2723.3	2265.7	1869.4	338.1
21°	5655.5	5621.1	5529.5	5182.8	4754.2	4284.7	3767.8	3240.2	2685.6	2170.9	341.4
22°	6499.8	6515.9	6302.7	5939.8	5494.0	4973.9	4342.9	3691.4	3093.7	2416.4	336.0
23°	7340.8	7392.5	7110.3	6770.0	6209.0	5622.1	4892.1	4188.9	3450.2	2697.5	325.2
24°	8119.3	8083.8	7893.2	7464.6	6864.8	6177.8	5419.7	4566.8	3743.1	2937.6	316.6
25°	8770.8	8766.5	8467.1	8050.4	7364.5	6603.1	5767.5	4875.9	3994.0	3100.2	305.8
26°	9303.8	9216.6	8980.8	8472.5	7795.2	6991.9	6052.9	5101.0	4135.0	3182.0	295.1
27°	9715.2	9652.7	9336.1	8807.4	8099.9	7211.5	6235.9	5212.9	4199.6	3209.0	281.1
28°	9991.9	9924.1	9587.0	9042.2	8267.9	7349.4	6332.9	5260.3	4199.6	3183.1	268.1
29°	10135.1	10042.5	9706.6	9122.9	8306.7	7365.5	6309.2	5214.0	4134.0	3103.4	253.1
30°	10124.4	10009.2	9657.0	9049.7	8191.5	7233.1	6176.7	5047.1	3985.4	2985.0	235.8
31°	9949.9	9820.7	9427.7	8802.0	7953.5	6983.3	5926.9	4823.1	3781.8	2831.0	218.6
32°	9595.7	9432.0	9048.6	8425.1	7587.4	6609.6	5564.0	4477.5	3477.1	2605.9	200.3
33°	9018.5	8853.7	8442.4	7857.6	7092.0	6135.8	5082.7	4106.0	3130.4	2337.8	185.2
34°	8295.9	8145.2	7790.9	7201.9	6467.5	5536.0	4529.2	3592.3	2770.7	2071.8	169.1
35°	7468.9	7228.8	6907.9	6441.6	5725.5	4788.7	3931.5	3114.2	2400.3	1792.9	151.8
36°	6350.1	6393.2	6052.9	5482.2	4888.8	4154.4	3331.7	2596.2	2007.2	1528.0	136.8
37°	5358.3	5290.5	5074.0	4632.5	4115.7	3386.6	2792.2	2201.0	1688.5	1292.2	120.6
38°	4322.4	4337.5	4125.3	3786.1	3273.6	2784.7	2247.3	1808.0	1412.8	1099.4	105.5
39°	3383.4	3371.6	3314.5	3000.1	2535.9	2215.0	1820.9	1499.0	1177.0	927.2	89.4
40°	2548.9	2568.2	2434.7	2245.2	1974.9	1711.1	1450.5	1195.3	973.5	781.8	70.0
42.5°	1239.4	1269.6	1181.3	1132.8	1013.3	909.9	767.8	626.7	533.0	460.9	31.2
45°	604.1	586.9	579.3	555.6	527.6	471.7	417.8	358.6	313.4	270.3	19.4
47.5°	309.1	300.4	300.4	290.7	281.1	262.7	235.8	216.4	194.9	168.0	7.5
50°	92.6	91.5	90.5	91.5	88.3	91.5	93.7	94.8	86.1	85.1	2.2
52.5°	36.6	37.7	36.6	39.8	39.8	38.8	39.8	38.8	37.7	33.4	0.0
55°	10.8	10.8	10.8	10.8	10.8	10.8	11.8	12.9	11.8	12.9	0.0
57.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1
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	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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°	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	43.1	37.7	31.2	25.8	23.7	22.6
5°	46.3	34.5	23.7	18.3	16.2	15.1
7.5°	49.5	31.2	18.3	12.9	9.7	8.6
10°	51.7	26.9	14.0	7.5	5.4	5.4
12.5°	51.7	21.5	9.7	4.3	3.2	3.2
15°	50.6	18.3	6.5	3.2	2.2	2.2
17.5°	49.5	14.0	4.3	2.2	1.1	2.2
20°	46.3	10.8	2.2	1.1	1.1	1.1
21°	45.2	9.7	2.2	1.1	1.1	1.1
22°	43.1	8.6	1.1	0.0	1.1	1.1
23°	40.9	6.5	1.1	0.0	0.0	0.0
24°	37.7	5.4	1.1	0.0	0.0	0.0
25°	35.5	5.4	1.1	0.0	0.0	0.0
26°	33.4	3.2	0.0	0.0	0.0	0.0
27°	30.2	2.2	0.0	0.0	0.0	0.0
28°	28.0	2.2	0.0	0.0	0.0	0.0
29°	24.8	2.2	0.0	0.0	0.0	0.0
30°	21.5	2.2	0.0	0.0	0.0	0.0
31°	17.2	1.1	0.0	0.0	0.0	0.0
32°	14.0	1.1	0.0	0.0	0.0	0.0
33°	9.7	1.1	0.0	0.0	0.0	0.0
34°	6.5	1.1	0.0	0.0	0.0	0.0
35°	5.4	1.1	0.0	0.0	0.0	0.0
36°	3.2	1.1	0.0	0.0	0.0	1.1
37°	3.2	1.1	0.0	0.0	0.0	1.1
38°	2.2	1.1	0.0	0.0	0.0	1.1
39°	1.1	1.1	0.0	0.0	0.0	1.1
40°	1.1	1.1	0.0	0.0	0.0	1.1
42.5°	0.0	1.1	0.0	0.0	1.1	2.2
45°	0.0	1.1	0.0	0.0	1.1	2.2
47.5°	0.0	1.1	0.0	0.0	2.2	2.2
50°	0.0	1.1	1.1	1.1	2.2	3.2
52.5°	0.0	2.2	1.1	2.2	3.2	4.3
55°	1.1	2.2	2.2	3.2	4.3	5.4
57.5°	1.1	3.2	3.2	4.3	5.4	5.4
60°	2.2	3.2	4.3	4.3	6.5	6.5
62.5°	2.2	4.3	4.3	4.3	6.5	6.5
65°	2.2	4.3	4.3	5.4	6.5	6.5
67.5°	2.2	4.3	4.3	4.3	5.4	6.5
70°	2.2	4.3	3.2	4.3	5.4	5.4
72.5°	2.2	4.3	3.2	3.2	4.3	5.4
75°	2.2	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	1.1	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)