

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: P1343519

Luminaire Tested: P3A13R159735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343519
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: P3A13R159735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

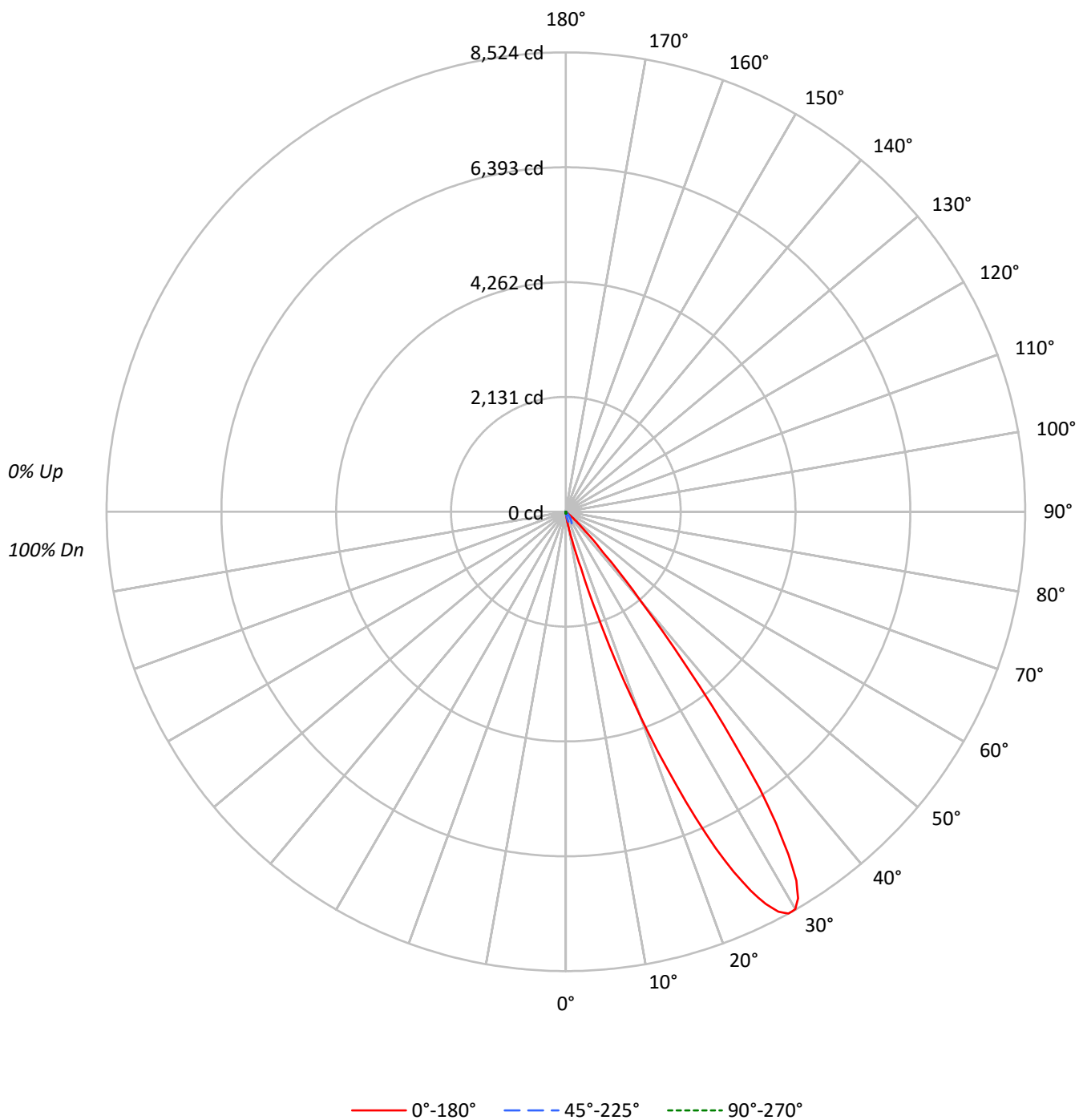
Lumens per Lamp: N/A
Luminaire Lumens: 930.9 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	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	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°	6754	6754	6754	6754	6754
5°	14550	10764	6383	3390	2796
10°	64528	20374	5032	1403	1002
15°	244042	47083	3496	613	409
20°	938525	66366	2124	210	210
25°	1784692	62229	1089	0	0
30°	2155952	50210	456	0	0
35°	1681482	34184	241	0	0
40°	613607	16860	258	0	258
45°	157567	5055	279	0	558
50°	26575	614	307	307	921
55°	3479	0	688	1032	1720
60°	395	395	1184	1579	2368
65°	467	467	1868	2335	2802
70°	577	577	2308	2308	2885
75°	763	763	3050	2288	3050
80°	0	1137	3410	2273	3410
85°	0	2264	6793	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 157567 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.5
10°-20°	71.3	7.7
20°-30°	395.7	42.5
30°-40°	382.3	41.1
40°-50°	66.5	7.1
50°-60°	4.8	0.5
60°-70°	2.8	0.3
70°-80°	2.3	0.2
80°-90°	1.1	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°	471.2	50.6
0°-40°	853.5	91.7
0°-60°	924.7	99.3
0°-90°	930.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	66	49	29	15	13	13
15°	1075	207	15	3	2	479
25°	7376	257	4	0	0	3298
35°	6281	128	1	0	0	3613
45°	508	16	1	0	2	546
55°	9	0	2	3	4	18
65°	1	1	4	4	5	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°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
2.5°	45.3	43.5	44.4	44.4	44.4	44.4	44.4	42.6	42.6	43.5	38.9
5°	66.1	66.1	65.2	66.1	66.1	65.2	63.4	62.5	62.5	60.7	48.9
7.5°	132.2	130.4	130.4	128.6	119.5	116.8	115.0	110.5	102.3	100.5	63.4
10°	289.8	290.7	284.4	276.2	275.3	261.7	257.2	249.0	233.7	218.3	91.5
12.5°	526.2	514.4	499.0	499.9	473.6	464.6	443.8	421.1	397.6	373.1	150.3
15°	1075.0	1041.5	1061.4	1012.5	957.2	894.8	831.4	751.7	683.7	611.3	207.4
17.5°	2264.1	2296.7	2241.4	2032.2	1903.6	1752.4	1539.6	1334.0	1158.3	1017.0	253.6
20°	4021.9	4069.9	3882.4	3700.4	3388.0	3047.4	2692.4	2290.3	1905.4	1572.2	284.4
21°	4756.4	4727.4	4650.4	4358.8	3998.4	3603.5	3168.8	2725.0	2258.6	1825.7	287.1
22°	5466.4	5480.0	5300.6	4995.4	4620.5	4183.1	3652.4	3104.5	2601.9	2032.2	282.6
23°	6173.7	6217.1	5979.9	5693.7	5221.9	4728.3	4114.3	3522.9	2901.6	2268.6	273.5
24°	6828.4	6798.6	6638.3	6277.8	5773.4	5195.6	4558.0	3840.8	3148.0	2470.6	266.3
25°	7376.3	7372.7	7121.0	6770.5	6193.6	5553.3	4850.5	4100.7	3359.0	2607.3	257.2
26°	7824.6	7751.3	7552.9	7125.5	6555.8	5880.2	5090.5	4290.0	3477.6	2676.1	248.1
27°	8170.6	8118.1	7851.8	7407.1	6812.1	6065.0	5244.5	4384.1	3532.0	2698.8	236.4
28°	8403.3	8346.3	8062.8	7604.6	6953.4	6180.9	5326.0	4424.0	3532.0	2677.0	225.5
29°	8523.8	8445.9	8163.3	7672.5	6986.0	6194.5	5306.1	4385.1	3476.7	2610.0	212.8
30°	8514.7	8417.8	8121.7	7610.9	6889.1	6083.1	5194.7	4244.7	3351.7	2510.4	198.3
31°	8368.0	8259.3	7928.8	7402.6	6689.0	5873.0	4984.6	4056.3	3180.6	2380.9	183.8
32°	8070.1	7932.4	7610.0	7085.6	6381.1	5558.8	4679.4	3765.6	2924.3	2191.6	168.4
33°	7584.6	7446.1	7100.1	6608.4	5964.5	5160.3	4274.6	3453.2	2632.7	1966.1	155.8
34°	6977.0	6850.2	6552.2	6056.8	5439.2	4655.8	3809.1	3021.2	2330.2	1742.4	142.2
35°	6281.4	6079.5	5809.6	5417.5	4815.2	4027.3	3306.5	2619.1	2018.6	1507.9	127.7
36°	5340.5	5376.7	5090.5	4610.6	4111.6	3493.9	2802.0	2183.5	1688.1	1285.1	115.0
37°	4506.4	4449.4	4267.3	3896.0	3461.3	2848.2	2348.3	1851.1	1420.0	1086.8	101.4
38°	3635.2	3647.9	3469.5	3184.2	2753.1	2342.0	1890.0	1520.6	1188.2	924.6	88.8
39°	2845.5	2835.5	2787.5	2523.1	2132.8	1862.9	1531.4	1260.6	989.9	779.7	75.2
40°	2143.6	2159.9	2047.6	1888.2	1660.9	1439.0	1219.9	1005.2	818.7	657.5	58.9
42.5°	1042.4	1067.7	993.5	952.7	852.2	765.3	645.7	527.1	448.3	387.6	26.3
45°	508.1	493.6	487.2	467.3	443.8	396.7	351.4	301.6	263.5	227.3	16.3
47.5°	259.9	252.7	252.7	244.5	236.4	221.0	198.3	182.0	163.9	141.3	6.3
50°	77.9	77.0	76.1	77.0	74.3	77.0	78.8	79.7	72.5	71.5	1.8
52.5°	30.8	31.7	30.8	33.5	33.5	32.6	33.5	32.6	31.7	28.1	0.0
55°	9.1	9.1	9.1	9.1	9.1	9.1	10.0	10.9	10.0	10.9	0.0
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9



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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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	30.8	30.8	30.8	30.8	30.8	30.8
2.5°	36.2	31.7	26.3	21.7	19.9	19.0
5°	38.9	29.0	19.9	15.4	13.6	12.7
7.5°	41.7	26.3	15.4	10.9	8.2	7.2
10°	43.5	22.6	11.8	6.3	4.5	4.5
12.5°	43.5	18.1	8.2	3.6	2.7	2.7
15°	42.6	15.4	5.4	2.7	1.8	1.8
17.5°	41.7	11.8	3.6	1.8	0.9	1.8
20°	38.9	9.1	1.8	0.9	0.9	0.9
21°	38.0	8.2	1.8	0.9	0.9	0.9
22°	36.2	7.2	0.9	0.0	0.9	0.9
23°	34.4	5.4	0.9	0.0	0.0	0.0
24°	31.7	4.5	0.9	0.0	0.0	0.0
25°	29.9	4.5	0.9	0.0	0.0	0.0
26°	28.1	2.7	0.0	0.0	0.0	0.0
27°	25.4	1.8	0.0	0.0	0.0	0.0
28°	23.5	1.8	0.0	0.0	0.0	0.0
29°	20.8	1.8	0.0	0.0	0.0	0.0
30°	18.1	1.8	0.0	0.0	0.0	0.0
31°	14.5	0.9	0.0	0.0	0.0	0.0
32°	11.8	0.9	0.0	0.0	0.0	0.0
33°	8.2	0.9	0.0	0.0	0.0	0.0
34°	5.4	0.9	0.0	0.0	0.0	0.0
35°	4.5	0.9	0.0	0.0	0.0	0.0
36°	2.7	0.9	0.0	0.0	0.0	0.9
37°	2.7	0.9	0.0	0.0	0.0	0.9
38°	1.8	0.9	0.0	0.0	0.0	0.9
39°	0.9	0.9	0.0	0.0	0.0	0.9
40°	0.9	0.9	0.0	0.0	0.0	0.9
42.5°	0.0	0.9	0.0	0.0	0.9	1.8
45°	0.0	0.9	0.0	0.0	0.9	1.8
47.5°	0.0	0.9	0.0	0.0	1.8	1.8
50°	0.0	0.9	0.9	0.9	1.8	2.7
52.5°	0.0	1.8	0.9	1.8	2.7	3.6
55°	0.9	1.8	1.8	2.7	3.6	4.5
57.5°	0.9	2.7	2.7	3.6	4.5	4.5
60°	1.8	2.7	3.6	3.6	5.4	5.4
62.5°	1.8	3.6	3.6	3.6	5.4	5.4
65°	1.8	3.6	3.6	4.5	5.4	5.4
67.5°	1.8	3.6	3.6	3.6	4.5	5.4
70°	1.8	3.6	2.7	3.6	4.5	4.5
72.5°	1.8	3.6	2.7	2.7	3.6	4.5
75°	1.8	3.6	2.7	2.7	3.6	3.6
77.5°	1.8	2.7	2.7	1.8	2.7	2.7
80°	1.8	2.7	1.8	1.8	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.8	2.7	1.8	0.9	1.8	1.8
85°	1.8	2.7	1.8	0.9	0.9	0.9
87.5°	1.8	2.7	0.9	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)