

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: P1343535

Luminaire Tested: P3A13R159740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343535
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: P3A13R159740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

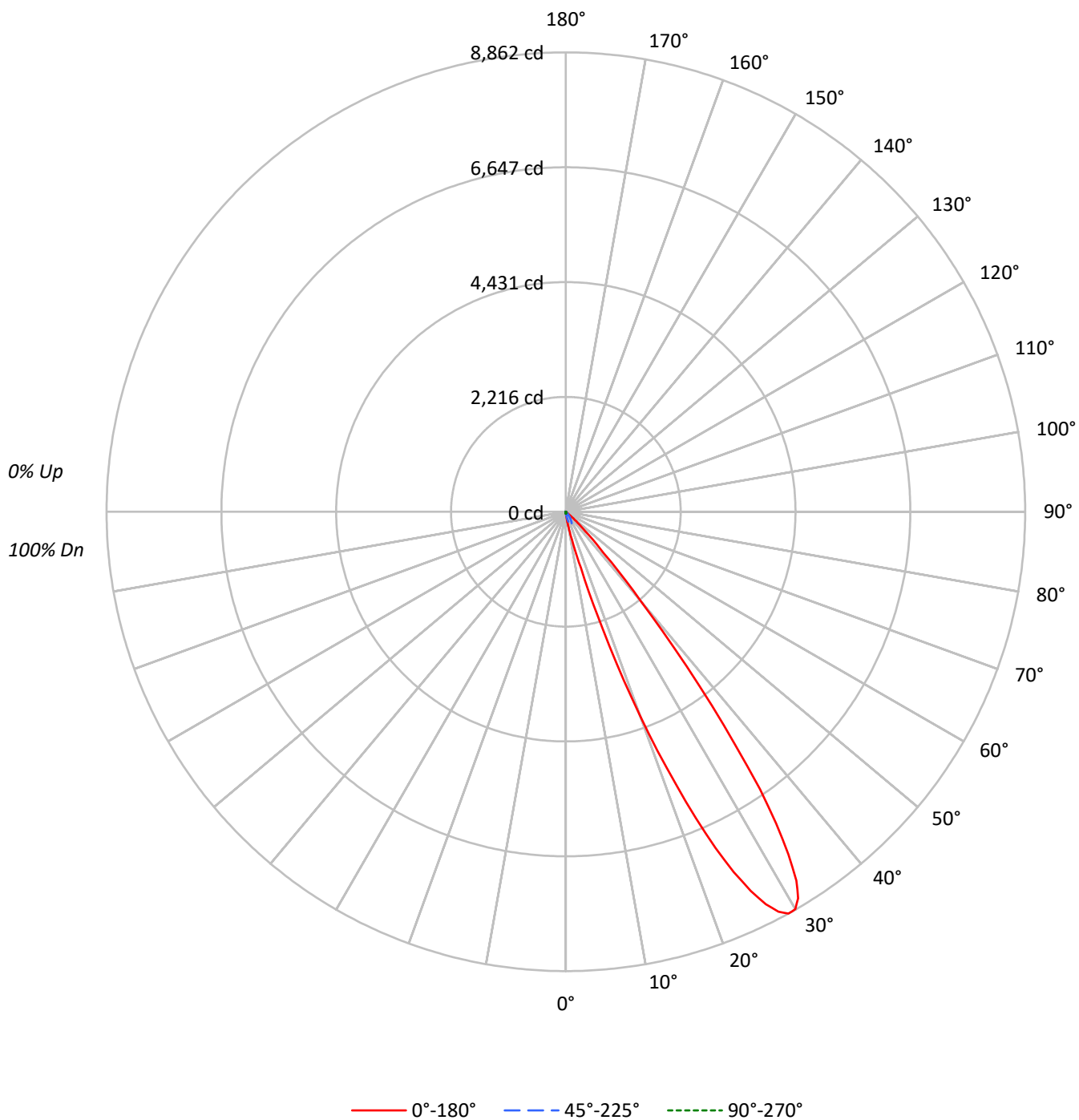
Lumens per Lamp: N/A
Luminaire Lumens: 968.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	7017	7017	7017	7017	7017
5°	15122	11182	6626	3522	2906
10°	67088	21175	5233	1470	1047
15°	253736	48945	3632	636	431
20°	975815	69003	2194	210	210
25°	1855631	64697	1137	0	0
30°	2241636	52211	481	0	0
35°	1748325	35550	241	0	0
40°	637995	17519	258	0	258
45°	163800	5241	279	0	589
50°	27632	648	307	307	955
55°	3594	0	726	1070	1797
60°	395	395	1228	1667	2456
65°	467	467	1972	2439	2906
70°	577	577	2436	2436	3013
75°	763	763	3219	2372	3219
80°	0	1137	3536	2399	3536
85°	0	2264	7045	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 163800 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.5
10°-20°	74.2	7.7
20°-30°	411.4	42.5
30°-40°	397.5	41.1
40°-50°	69.1	7.1
50°-60°	5.0	0.5
60°-70°	2.9	0.3
70°-80°	2.4	0.2
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°	490.0	50.6
0°-40°	887.4	91.7
0°-60°	961.5	99.3
0°-90°	968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	968.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	69	51	30	16	13	14
15°	1118	216	16	3	2	498
25°	7670	267	5	0	0	3429
35°	6531	133	1	0	0	3756
45°	528	17	1	0	2	567
55°	9	0	2	3	5	18
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°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
2.5°	47.1	45.2	46.1	46.1	46.1	46.1	46.1	44.3	44.3	45.2	40.5
5°	68.7	68.7	67.8	68.7	68.7	67.8	65.9	65.0	65.0	63.1	50.8
7.5°	137.5	135.6	135.6	133.7	124.3	121.5	119.6	114.9	106.4	104.5	65.9
10°	301.3	302.3	295.7	287.2	286.3	272.1	267.4	258.9	242.9	226.9	95.1
12.5°	547.1	534.8	518.8	519.8	492.5	483.1	461.4	437.9	413.4	387.9	156.3
15°	1117.7	1082.9	1103.6	1052.7	995.3	930.3	864.4	781.5	710.9	635.6	215.6
17.5°	2354.1	2387.9	2330.5	2113.0	1979.3	1822.0	1600.8	1387.0	1204.3	1057.4	263.7
20°	4181.7	4231.6	4036.7	3847.5	3522.6	3168.6	2799.4	2381.4	1981.2	1634.7	295.7
21°	4945.4	4915.3	4835.2	4532.0	4157.3	3746.7	3294.7	2833.3	2348.4	1898.3	298.5
22°	5683.6	5697.7	5511.3	5194.0	4804.1	4349.3	3797.6	3227.9	2705.3	2113.0	293.8
23°	6419.0	6464.2	6217.5	5920.0	5429.4	4916.2	4277.8	3662.9	3017.0	2358.8	284.4
24°	7099.8	7068.7	6902.1	6527.3	6002.8	5402.1	4739.2	3993.4	3273.1	2568.7	276.8
25°	7669.5	7665.7	7404.0	7039.6	6439.7	5774.0	5043.3	4263.7	3492.5	2710.9	267.4
26°	8135.6	8059.3	7853.1	7408.7	6816.4	6113.9	5292.8	4460.5	3615.8	2782.5	258.0
27°	8495.3	8440.7	8163.9	7701.5	7082.9	6306.0	5452.9	4558.4	3672.3	2806.0	245.8
28°	8737.3	8678.0	8383.2	7906.8	7229.8	6426.6	5537.7	4599.8	3672.3	2783.4	234.5
29°	8862.5	8781.6	8487.8	7977.4	7263.7	6440.7	5517.0	4559.3	3614.9	2713.8	221.3
30°	8853.1	8752.4	8444.5	7913.4	7162.9	6324.9	5401.1	4413.4	3484.9	2610.2	206.2
31°	8700.6	8587.6	8243.9	7696.8	6954.8	6106.4	5182.7	4217.5	3307.0	2475.5	191.1
32°	8390.8	8247.7	7912.4	7367.2	6634.7	5779.7	4865.4	3915.3	3040.5	2278.7	175.1
33°	7886.1	7742.0	7382.3	6871.0	6201.5	5365.4	4444.4	3590.4	2737.3	2044.3	162.0
34°	7254.2	7122.4	6812.6	6297.6	5655.4	4840.9	3960.5	3141.2	2422.8	1811.7	147.8
35°	6531.1	6321.1	6040.5	5632.8	5006.6	4187.4	3437.9	2723.2	2098.9	1567.8	132.8
36°	5552.7	5590.4	5292.8	4793.8	4275.0	3632.8	2913.4	2270.2	1755.2	1336.2	119.6
37°	4685.5	4626.2	4436.9	4050.9	3598.9	2961.4	2441.6	1924.7	1476.5	1129.9	105.5
38°	3779.7	3792.8	3607.3	3310.7	2862.5	2435.0	1965.2	1581.0	1235.4	961.4	92.3
39°	2958.6	2948.2	2898.3	2623.4	2217.5	1936.9	1592.3	1310.7	1029.2	810.7	78.2
40°	2228.8	2245.8	2129.0	1963.3	1726.9	1496.2	1268.4	1045.2	851.2	683.6	61.2
42.5°	1083.8	1110.2	1033.0	990.6	886.1	795.7	671.4	548.0	466.1	403.0	27.3
45°	528.2	513.2	506.6	485.9	461.4	412.4	365.3	313.6	274.0	236.3	16.9
47.5°	270.2	262.7	262.7	254.2	245.8	229.8	206.2	189.3	170.4	146.9	6.6
50°	81.0	80.0	79.1	80.0	77.2	80.0	81.9	82.9	75.3	74.4	1.9
52.5°	32.0	33.0	32.0	34.8	34.8	33.9	34.8	33.9	33.0	29.2	0.0
55°	9.4	9.4	9.4	9.4	9.4	9.4	10.4	11.3	10.4	11.3	0.0
57.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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°	32.0	32.0	32.0	32.0	32.0	32.0
2.5°	37.7	33.0	27.3	22.6	20.7	19.8
5°	40.5	30.1	20.7	16.0	14.1	13.2
7.5°	43.3	27.3	16.0	11.3	8.5	7.5
10°	45.2	23.5	12.2	6.6	4.7	4.7
12.5°	45.2	18.8	8.5	3.8	2.8	2.8
15°	44.3	16.0	5.6	2.8	1.9	1.9
17.5°	43.3	12.2	3.8	1.9	0.9	1.9
20°	40.5	9.4	1.9	0.9	0.9	0.9
21°	39.5	8.5	1.9	0.9	0.9	0.9
22°	37.7	7.5	0.9	0.0	0.9	0.9
23°	35.8	5.6	0.9	0.0	0.0	0.0
24°	33.0	4.7	0.9	0.0	0.0	0.0
25°	31.1	4.7	0.9	0.0	0.0	0.0
26°	29.2	2.8	0.0	0.0	0.0	0.0
27°	26.4	1.9	0.0	0.0	0.0	0.0
28°	24.5	1.9	0.0	0.0	0.0	0.0
29°	21.7	1.9	0.0	0.0	0.0	0.0
30°	18.8	1.9	0.0	0.0	0.0	0.0
31°	15.1	0.9	0.0	0.0	0.0	0.0
32°	12.2	0.9	0.0	0.0	0.0	0.0
33°	8.5	0.9	0.0	0.0	0.0	0.0
34°	5.6	0.9	0.0	0.0	0.0	0.0
35°	4.7	0.9	0.0	0.0	0.0	0.0
36°	2.8	0.9	0.0	0.0	0.0	0.9
37°	2.8	0.9	0.0	0.0	0.0	0.9
38°	1.9	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	1.9
45°	0.0	0.9	0.0	0.0	0.9	1.9
47.5°	0.0	0.9	0.0	0.0	1.9	1.9
50°	0.0	0.9	0.9	0.9	1.9	2.8
52.5°	0.0	1.9	0.9	1.9	2.8	3.8
55°	0.9	1.9	1.9	2.8	3.8	4.7
57.5°	0.9	2.8	2.8	3.8	4.7	4.7
60°	1.9	2.8	3.8	3.8	5.6	5.6
62.5°	1.9	3.8	3.8	3.8	5.6	5.6
65°	1.9	3.8	3.8	4.7	5.6	5.6
67.5°	1.9	3.8	3.8	3.8	4.7	5.6
70°	1.9	3.8	2.8	3.8	4.7	4.7
72.5°	1.9	3.8	2.8	2.8	3.8	4.7
75°	1.9	3.8	2.8	2.8	3.8	3.8
77.5°	1.9	2.8	2.8	1.9	2.8	2.8
80°	1.9	2.8	1.9	1.9	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.9	2.8	1.9	0.9	1.9	1.9
85°	1.9	2.8	1.9	0.9	0.9	0.9
87.5°	1.9	2.8	0.9	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)