

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: P1343457

Luminaire Tested: P3A13R159040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343457
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: P3A13R159040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

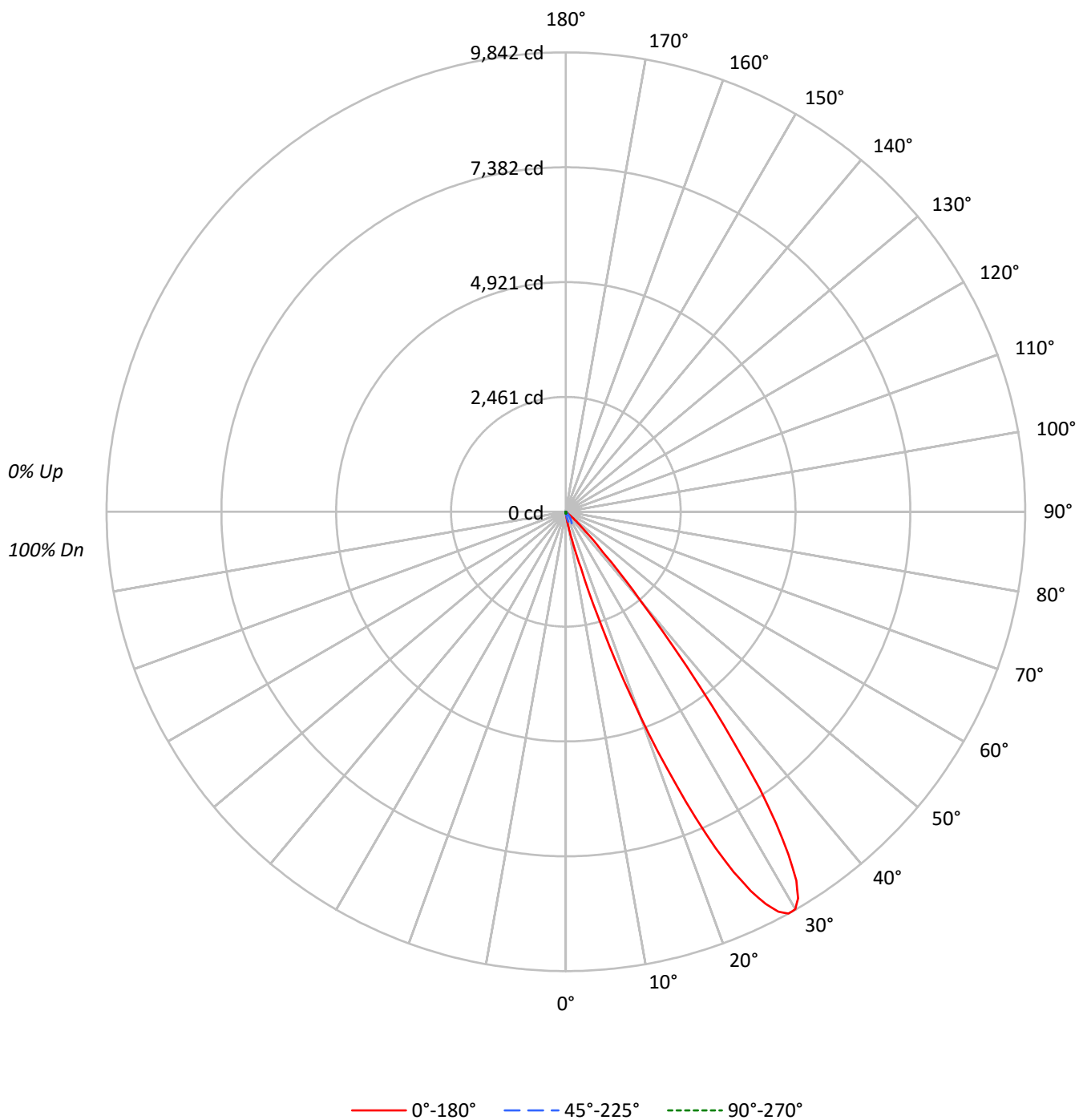
Lumens per Lamp: N/A
Luminaire Lumens: 1074.9 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	7806	7806	7806	7806	7806
5°	16795	12437	7374	3918	3214
10°	74503	23513	5812	1625	1158
15°	281795	54370	4041	704	477
20°	1083694	76633	2450	233	233
25°	2060756	71859	1258	0	0
30°	2489421	57984	532	0	0
35°	1941572	39458	268	0	0
40°	708527	19465	286	0	286
45°	181910	5830	310	0	651
50°	30669	716	341	341	1058
55°	4014	0	803	1185	1988
60°	439	439	1360	1842	2763
65°	519	519	2179	2698	3269
70°	641	641	2693	2693	3334
75°	847	847	3558	2626	3558
80°	0	1263	3915	2652	3915
85°	0	2516	7799	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 181910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.5
10°-20°	82.4	7.7
20°-30°	456.9	42.5
30°-40°	441.4	41.1
40°-50°	76.8	7.1
50°-60°	5.5	0.5
60°-70°	3.2	0.3
70°-80°	2.6	0.2
80°-90°	1.3	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°	544.1	50.6
0°-40°	985.5	91.7
0°-60°	1067.8	99.3
0°-90°	1074.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	76	56	34	18	15	15
15°	1241	240	18	3	2	553
25°	8517	297	5	0	0	3808
35°	7253	147	1	0	0	4171
45°	587	19	1	0	2	630
55°	10	0	2	3	5	20
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°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
2.5°	52.3	50.2	51.2	51.2	51.2	51.2	51.2	49.1	49.1	50.2	45.0
5°	76.3	76.3	75.3	76.3	76.3	75.3	73.2	72.2	72.2	70.1	56.5
7.5°	152.7	150.6	150.6	148.5	138.0	134.9	132.8	127.6	118.2	116.1	73.2
10°	334.6	335.7	328.4	318.9	317.9	302.2	297.0	287.6	269.8	252.0	105.6
12.5°	607.6	594.0	576.2	577.2	546.9	536.4	512.4	486.3	459.1	430.8	173.6
15°	1241.3	1202.6	1225.6	1169.1	1105.3	1033.2	960.0	867.9	789.5	705.9	239.5
17.5°	2614.3	2651.9	2588.1	2346.6	2198.1	2023.4	1777.7	1540.3	1337.5	1174.3	292.8
20°	4644.0	4699.4	4482.9	4272.7	3912.0	3518.8	3108.9	2644.6	2200.2	1815.3	328.4
21°	5492.0	5458.6	5369.7	5033.0	4616.8	4160.9	3658.9	3146.5	2608.0	2108.1	331.5
22°	6311.9	6327.6	6120.5	5768.1	5335.2	4830.1	4217.3	3584.7	3004.3	2346.6	326.3
23°	7128.6	7178.8	6904.8	6574.3	6029.5	5459.6	4750.6	4067.8	3350.4	2619.5	315.8
24°	7884.6	7850.1	7665.0	7248.8	6666.4	5999.2	5263.0	4434.8	3634.9	2852.7	307.4
25°	8517.3	8513.1	8222.4	7817.7	7151.6	6412.3	5600.8	4735.0	3878.5	3010.6	297.0
26°	9034.9	8950.2	8721.2	8227.6	7569.9	6789.8	5877.9	4953.5	4015.5	3090.1	286.5
27°	9434.3	9373.7	9066.3	8552.8	7865.8	7003.1	6055.7	5062.3	4078.2	3116.2	272.9
28°	9703.1	9637.2	9309.9	8780.8	8028.9	7136.9	6149.8	5108.3	4078.2	3091.1	260.4
29°	9842.2	9752.2	9426.0	8859.2	8066.6	7152.6	6126.8	5063.3	4014.5	3013.7	245.7
30°	9831.7	9719.8	9377.9	8788.1	7954.7	7024.0	5998.2	4901.2	3870.2	2898.7	229.0
31°	9662.3	9536.8	9155.1	8547.6	7723.6	6781.4	5755.6	4683.7	3672.5	2749.2	212.3
32°	9318.3	9159.3	8787.1	8181.6	7368.0	6418.5	5403.2	4348.0	3376.6	2530.6	194.5
33°	8757.8	8597.8	8198.3	7630.5	6887.0	5958.4	4935.7	3987.3	3039.9	2270.2	179.9
34°	8056.1	7909.7	7565.7	6993.7	6280.5	5376.0	4398.2	3488.5	2690.6	2011.9	164.2
35°	7253.0	7019.8	6708.2	6255.4	5560.0	4650.2	3817.9	3024.2	2330.9	1741.1	147.4
36°	6166.5	6208.3	5877.9	5323.7	4747.5	4034.3	3235.4	2521.2	1949.2	1483.9	132.8
37°	5203.4	5137.5	4927.4	4498.6	3996.7	3288.7	2711.5	2137.4	1639.7	1254.8	117.1
38°	4197.5	4212.1	4006.1	3676.7	3178.9	2704.2	2182.4	1755.7	1372.0	1067.7	102.5
39°	3285.6	3274.1	3218.7	2913.3	2462.6	2151.0	1768.3	1455.6	1143.0	900.4	86.8
40°	2475.2	2494.0	2364.3	2180.3	1917.8	1661.6	1408.6	1160.7	945.3	759.2	68.0
42.5°	1203.6	1232.9	1147.1	1100.1	984.0	883.6	745.6	608.6	517.6	447.6	30.3
45°	586.6	569.9	562.6	539.6	512.4	458.0	405.7	348.2	304.3	262.5	18.8
47.5°	300.1	291.8	291.8	282.3	272.9	255.2	229.0	210.2	189.3	163.1	7.3
50°	89.9	88.9	87.8	88.9	85.7	88.9	91.0	92.0	83.7	82.6	2.1
52.5°	35.6	36.6	35.6	38.7	38.7	37.6	38.7	37.6	36.6	32.4	0.0
55°	10.5	10.5	10.5	10.5	10.5	10.5	11.5	12.5	11.5	12.5	0.0
57.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0



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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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	35.6	35.6	35.6	35.6	35.6	35.6
2.5°	41.8	36.6	30.3	25.1	23.0	22.0
5°	45.0	33.5	23.0	17.8	15.7	14.6
7.5°	48.1	30.3	17.8	12.5	9.4	8.4
10°	50.2	26.1	13.6	7.3	5.2	5.2
12.5°	50.2	20.9	9.4	4.2	3.1	3.1
15°	49.1	17.8	6.3	3.1	2.1	2.1
17.5°	48.1	13.6	4.2	2.1	1.0	2.1
20°	45.0	10.5	2.1	1.0	1.0	1.0
21°	43.9	9.4	2.1	1.0	1.0	1.0
22°	41.8	8.4	1.0	0.0	1.0	1.0
23°	39.7	6.3	1.0	0.0	0.0	0.0
24°	36.6	5.2	1.0	0.0	0.0	0.0
25°	34.5	5.2	1.0	0.0	0.0	0.0
26°	32.4	3.1	0.0	0.0	0.0	0.0
27°	29.3	2.1	0.0	0.0	0.0	0.0
28°	27.2	2.1	0.0	0.0	0.0	0.0
29°	24.1	2.1	0.0	0.0	0.0	0.0
30°	20.9	2.1	0.0	0.0	0.0	0.0
31°	16.7	1.0	0.0	0.0	0.0	0.0
32°	13.6	1.0	0.0	0.0	0.0	0.0
33°	9.4	1.0	0.0	0.0	0.0	0.0
34°	6.3	1.0	0.0	0.0	0.0	0.0
35°	5.2	1.0	0.0	0.0	0.0	0.0
36°	3.1	1.0	0.0	0.0	0.0	1.0
37°	3.1	1.0	0.0	0.0	0.0	1.0
38°	2.1	1.0	0.0	0.0	0.0	1.0
39°	1.0	1.0	0.0	0.0	0.0	1.0
40°	1.0	1.0	0.0	0.0	0.0	1.0
42.5°	0.0	1.0	0.0	0.0	1.0	2.1
45°	0.0	1.0	0.0	0.0	1.0	2.1
47.5°	0.0	1.0	0.0	0.0	2.1	2.1
50°	0.0	1.0	1.0	1.0	2.1	3.1
52.5°	0.0	2.1	1.0	2.1	3.1	4.2
55°	1.0	2.1	2.1	3.1	4.2	5.2
57.5°	1.0	3.1	3.1	4.2	5.2	5.2
60°	2.1	3.1	4.2	4.2	6.3	6.3
62.5°	2.1	4.2	4.2	4.2	6.3	6.3
65°	2.1	4.2	4.2	5.2	6.3	6.3
67.5°	2.1	4.2	4.2	4.2	5.2	6.3
70°	2.1	4.2	3.1	4.2	5.2	5.2
72.5°	2.1	4.2	3.1	3.1	4.2	5.2
75°	2.1	4.2	3.1	3.1	4.2	4.2
77.5°	2.1	3.1	3.1	2.1	3.1	3.1
80°	2.1	3.1	2.1	2.1	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.1	3.1	2.1	1.0	2.1	2.1
85°	2.1	3.1	2.1	1.0	1.0	1.0
87.5°	2.1	3.1	1.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)