

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: P1343503

Luminaire Tested: P3A13R159730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343503
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: P3A13R159730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

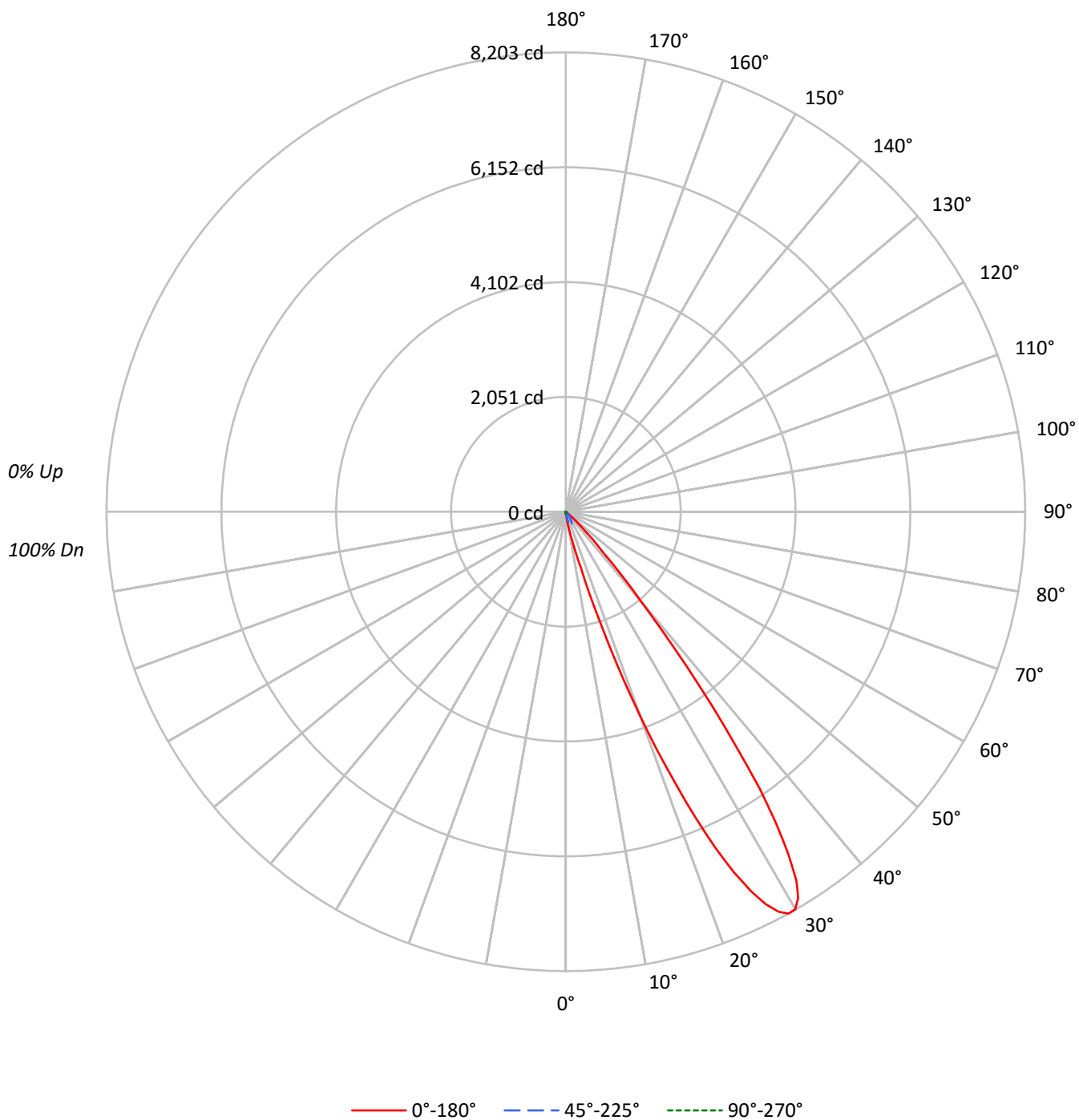
Lumens per Lamp: N/A
Luminaire Lumens: 896.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	10
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°	6491	6491	6491	6491	6491
5°	14000	10368	6141	3258	2685
10°	62101	19594	4854	1358	980
15°	234871	45312	3360	590	386
20°	903242	63869	2030	210	210
25°	1717599	59882	1065	0	0
30°	2074902	48337	430	0	0
35°	1618280	32899	241	0	0
40°	590535	16230	258	0	258
45°	151644	4869	279	0	527
50°	25586	580	307	307	887
55°	3326	0	650	994	1682
60°	395	395	1140	1535	2281
65°	467	467	1816	2283	2698
70°	577	577	2244	2244	2821
75°	763	763	2965	2203	2965
80°	0	1137	3283	2147	3283
85°	0	2264	6542	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 151644 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.5
10°-20°	68.6	7.7
20°-30°	380.8	42.5
30°-40°	367.9	41.1
40°-50°	64.0	7.1
50°-60°	4.6	0.5
60°-70°	2.7	0.3
70°-80°	2.2	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°	453.5	50.6
0°-40°	821.4	91.7
0°-60°	890.0	99.3
0°-90°	896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	64	47	28	15	12	12
15°	1035	200	15	3	2	461
25°	7099	248	4	0	0	3174
35°	6045	123	1	0	0	3477
45°	489	16	1	0	2	525
55°	9	0	2	3	4	17
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°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	43.6	41.8	42.7	42.7	42.7	42.7	42.7	41.0	41.0	41.8	37.5
5°	63.6	63.6	62.8	63.6	63.6	62.8	61.0	60.1	60.1	58.4	47.1
7.5°	127.3	125.5	125.5	123.8	115.0	112.4	110.7	106.3	98.5	96.7	61.0
10°	278.9	279.8	273.7	265.8	265.0	251.9	247.5	239.7	224.9	210.1	88.0
12.5°	506.4	495.1	480.2	481.1	455.8	447.1	427.1	405.3	382.6	359.1	144.7
15°	1034.6	1002.3	1021.5	974.4	921.3	861.1	800.1	723.4	658.0	588.3	199.6
17.5°	2179.0	2210.3	2157.2	1955.8	1832.1	1686.5	1481.7	1283.8	1114.8	978.8	244.0
20°	3870.7	3916.9	3736.5	3561.3	3260.6	2932.9	2591.2	2204.2	1833.8	1513.1	273.7
21°	4577.6	4549.7	4475.6	4194.9	3848.0	3468.0	3049.7	2622.6	2173.7	1757.1	276.3
22°	5260.9	5273.9	5101.4	4807.7	4446.8	4025.8	3515.1	2987.8	2504.1	1955.8	271.9
23°	5941.6	5983.4	5755.1	5479.6	5025.5	4550.5	3959.6	3390.5	2792.6	2183.3	263.2
24°	6571.7	6543.0	6388.7	6041.8	5556.3	5000.3	4386.7	3696.4	3029.6	2377.7	256.2
25°	7099.0	7095.6	6853.3	6516.0	5960.8	5344.5	4668.2	3946.5	3232.7	2509.3	247.5
26°	7530.5	7459.9	7269.0	6857.6	6309.4	5659.2	4899.2	4128.7	3346.9	2575.5	238.8
27°	7863.4	7812.9	7556.6	7128.7	6556.0	5837.0	5047.3	4219.3	3399.2	2597.3	227.5
28°	8087.4	8032.5	7759.7	7318.7	6692.0	5948.6	5125.8	4257.7	3399.2	2576.4	217.0
29°	8203.3	8128.4	7856.4	7384.0	6723.4	5961.6	5106.6	4220.2	3346.0	2511.9	204.8
30°	8194.6	8101.4	7816.4	7324.8	6630.1	5854.4	4999.4	4085.1	3225.7	2416.0	190.9
31°	8053.4	7948.8	7630.7	7124.3	6437.5	5652.2	4797.2	3903.8	3061.0	2291.4	176.9
32°	7766.7	7634.2	7323.9	6819.3	6141.2	5349.8	4503.5	3624.0	2814.3	2109.2	162.1
33°	7299.5	7166.2	6833.2	6359.9	5740.2	4966.3	4113.9	3323.3	2533.7	1892.2	149.9
34°	6714.7	6592.7	6305.9	5829.1	5234.7	4480.8	3665.9	2907.6	2242.6	1676.9	136.8
35°	6045.3	5850.9	5591.2	5213.8	4634.2	3875.9	3182.1	2520.6	1942.8	1451.2	122.9
36°	5139.7	5174.6	4899.2	4437.2	3957.0	3362.6	2696.7	2101.4	1624.6	1236.8	110.7
37°	4337.0	4282.1	4106.9	3749.5	3331.2	2741.1	2260.0	1781.5	1366.6	1045.9	97.6
38°	3498.5	3510.7	3339.0	3064.5	2649.6	2253.9	1819.0	1463.4	1143.5	889.9	85.4
39°	2738.5	2728.9	2682.7	2428.2	2052.6	1792.8	1473.8	1213.2	952.6	750.4	72.3
40°	2063.0	2078.7	1970.6	1817.3	1598.5	1384.9	1174.0	967.5	787.9	632.8	56.7
42.5°	1003.2	1027.6	956.1	916.9	820.2	736.5	621.4	507.3	431.4	373.0	25.3
45°	489.0	475.0	468.9	449.7	427.1	381.8	338.2	290.2	253.6	218.8	15.7
47.5°	250.1	243.2	243.2	235.3	227.5	212.7	190.9	175.2	157.8	136.0	6.1
50°	75.0	74.1	73.2	74.1	71.5	74.1	75.8	76.7	69.7	68.9	1.7
52.5°	29.6	30.5	29.6	32.2	32.2	31.4	32.2	31.4	30.5	27.0	0.0
55°	8.7	8.7	8.7	8.7	8.7	8.7	9.6	10.5	9.6	10.5	0.0
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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°	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	34.9	30.5	25.3	20.9	19.2	18.3
5°	37.5	27.9	19.2	14.8	13.1	12.2
7.5°	40.1	25.3	14.8	10.5	7.8	7.0
10°	41.8	21.8	11.3	6.1	4.4	4.4
12.5°	41.8	17.4	7.8	3.5	2.6	2.6
15°	41.0	14.8	5.2	2.6	1.7	1.7
17.5°	40.1	11.3	3.5	1.7	0.9	1.7
20°	37.5	8.7	1.7	0.9	0.9	0.9
21°	36.6	7.8	1.7	0.9	0.9	0.9
22°	34.9	7.0	0.9	0.0	0.9	0.9
23°	33.1	5.2	0.9	0.0	0.0	0.0
24°	30.5	4.4	0.9	0.0	0.0	0.0
25°	28.8	4.4	0.9	0.0	0.0	0.0
26°	27.0	2.6	0.0	0.0	0.0	0.0
27°	24.4	1.7	0.0	0.0	0.0	0.0
28°	22.7	1.7	0.0	0.0	0.0	0.0
29°	20.0	1.7	0.0	0.0	0.0	0.0
30°	17.4	1.7	0.0	0.0	0.0	0.0
31°	13.9	0.9	0.0	0.0	0.0	0.0
32°	11.3	0.9	0.0	0.0	0.0	0.0
33°	7.8	0.9	0.0	0.0	0.0	0.0
34°	5.2	0.9	0.0	0.0	0.0	0.0
35°	4.4	0.9	0.0	0.0	0.0	0.0
36°	2.6	0.9	0.0	0.0	0.0	0.9
37°	2.6	0.9	0.0	0.0	0.0	0.9
38°	1.7	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	1.7
45°	0.0	0.9	0.0	0.0	0.9	1.7
47.5°	0.0	0.9	0.0	0.0	1.7	1.7
50°	0.0	0.9	0.9	0.9	1.7	2.6
52.5°	0.0	1.7	0.9	1.7	2.6	3.5
55°	0.9	1.7	1.7	2.6	3.5	4.4
57.5°	0.9	2.6	2.6	3.5	4.4	4.4
60°	1.7	2.6	3.5	3.5	5.2	5.2
62.5°	1.7	3.5	3.5	3.5	5.2	5.2
65°	1.7	3.5	3.5	4.4	5.2	5.2
67.5°	1.7	3.5	3.5	3.5	4.4	5.2
70°	1.7	3.5	2.6	3.5	4.4	4.4
72.5°	1.7	3.5	2.6	2.6	3.5	4.4
75°	1.7	3.5	2.6	2.6	3.5	3.5
77.5°	1.7	2.6	2.6	1.7	2.6	2.6
80°	1.7	2.6	1.7	1.7	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.7	2.6	1.7	0.9	1.7	1.7
85°	1.7	2.6	1.7	0.9	0.9	0.9
87.5°	1.7	2.6	0.9	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)