

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: P1344995

Luminaire Tested: P3A13R309727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

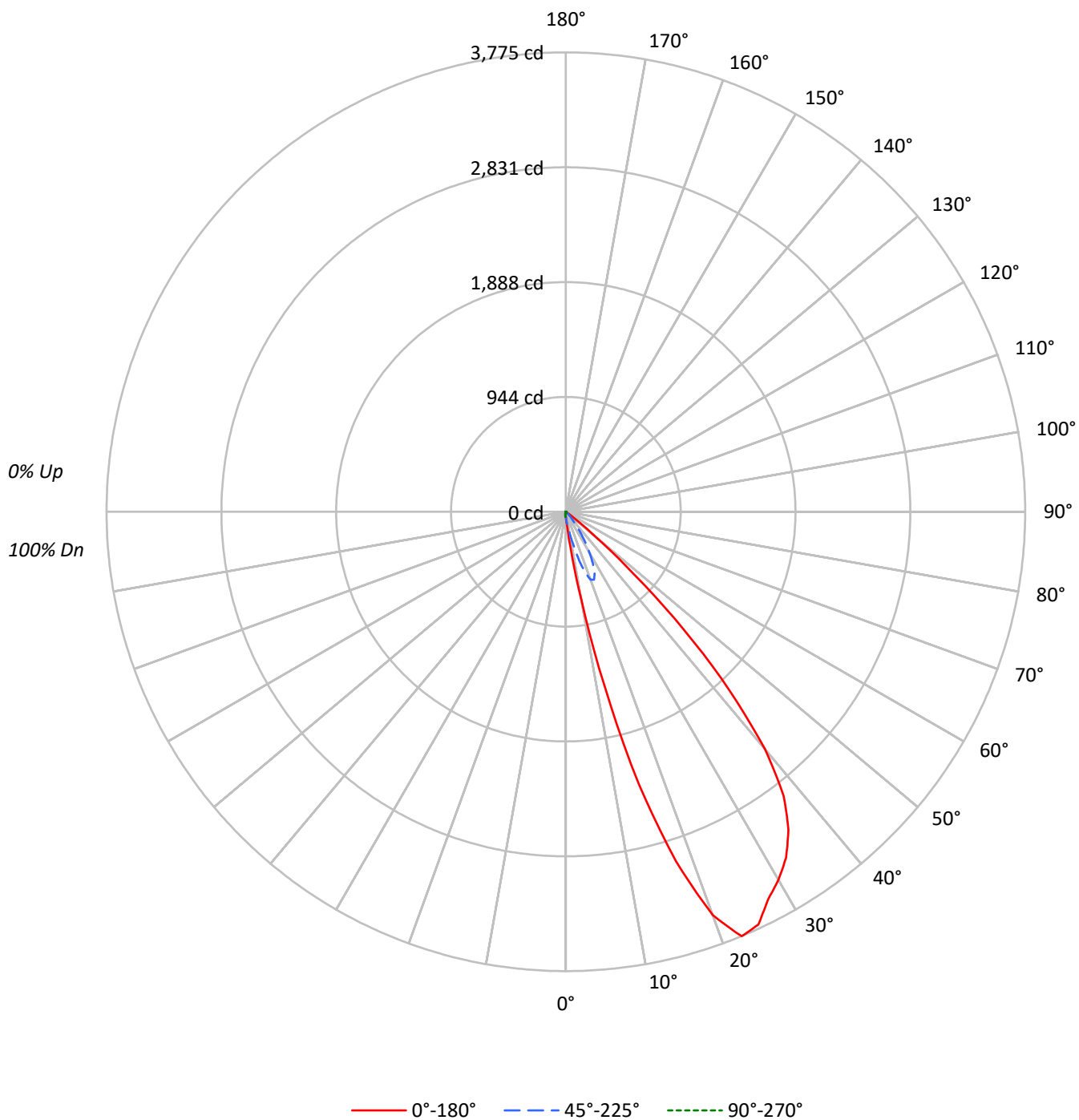
Lumens per Lamp: N/A
Luminaire Lumens: 889.9 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	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	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9276	9276	9276	9276	9276
5°	27933	18622	8761	3940	3214
10°	161698	39478	6880	1804	1269
15°	525996	89535	4790	363	182
20°	823062	138542	3034	0	0
25°	905520	135371	1573	0	0
30°	884415	97610	608	0	0
35°	853617	55519	214	0	0
40°	727964	23501	0	0	0
45°	427238	8838	248	0	248
50°	103775	1672	273	273	819
55°	9022	0	612	918	1262
60°	351	0	702	1053	1798
65°	415	415	1245	1245	2127
70°	513	513	1539	1539	2116
75°	0	678	2033	2033	2033
80°	0	1010	3031	2020	2020
85°	0	2013	6038	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 427238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.9
10°-20°	122.3	13.7
20°-30°	310.8	34.9
30°-40°	309.8	34.8
40°-50°	125.5	14.1
50°-60°	8.7	1.0
60°-70°	1.9	0.2
70°-80°	1.9	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°	440.9	49.5
0°-40°	750.8	84.4
0°-60°	884.9	99.4
0°-90°	889.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	889.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	127	85	40	18	15	29
15°	2317	394	21	2	1	674
25°	3743	560	6	0	0	1690
35°	3189	207	1	0	0	1955
45°	1378	28	1	0	1	1051
55°	24	0	2	2	3	62
65°	1	1	2	2	4	1
75°	0	1	2	2	2	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
2.5°	69.9	70.8	70.8	69.1	68.3	68.3	65.9	65.1	62.6	60.2	52.0
5°	126.9	124.4	121.2	121.2	113.9	109.8	104.1	97.6	92.7	84.6	60.2
7.5°	287.9	268.4	262.7	255.4	227.7	205.8	180.5	158.6	138.3	121.2	66.7
10°	726.2	688.0	656.3	592.1	511.5	434.3	362.7	279.8	222.8	177.3	71.6
12.5°	1463.0	1411.8	1350.8	1233.7	1083.3	890.5	719.7	537.6	377.4	261.1	73.2
15°	2317.0	2229.9	2134.8	1986.0	1739.6	1463.0	1154.8	864.5	605.9	394.4	71.6
17.5°	3013.1	2979.0	2838.3	2635.0	2333.2	1977.0	1597.2	1200.4	817.3	516.4	66.7
20°	3527.1	3503.5	3333.5	3117.2	2777.3	2369.0	1886.8	1410.2	964.5	593.7	59.4
22.5°	3775.1	3771.1	3648.3	3427.1	3066.8	2604.0	2073.0	1531.4	1010.1	604.2	49.6
25°	3742.6	3757.2	3687.3	3523.0	3177.4	2700.8	2128.3	1531.4	976.7	559.5	41.5
27.5°	3594.6	3604.4	3560.4	3434.4	3112.3	2630.9	2051.0	1433.0	879.9	480.6	34.2
30°	3492.9	3497.0	3442.5	3307.5	2965.9	2471.5	1868.9	1250.8	733.6	385.5	25.2
32.5°	3369.3	3368.5	3305.1	3150.6	2774.0	2247.8	1637.9	1033.6	563.6	292.8	14.6
35°	3188.8	3168.4	3082.2	2904.1	2487.8	1946.9	1342.7	787.2	405.8	207.4	8.9
37.5°	2940.7	2887.9	2765.9	2527.6	2086.0	1526.5	995.4	553.0	277.3	137.4	5.7
40°	2543.1	2486.9	2321.0	2031.5	1577.7	1098.7	670.9	360.3	174.9	82.1	3.3
42.5°	1994.1	1955.9	1732.2	1443.5	1041.8	701.0	403.4	213.1	98.4	47.2	0.8
45°	1377.7	1328.0	1152.4	907.6	625.4	388.7	226.1	111.4	56.1	28.5	0.0
47.5°	760.4	699.4	597.7	470.1	314.7	204.1	113.9	60.2	31.7	13.8	0.0
50°	304.2	301.7	239.9	170.8	120.4	92.7	56.9	32.5	16.3	4.9	0.8
52.5°	106.5	106.5	91.9	74.8	58.6	42.3	28.5	15.5	5.7	1.6	0.8
55°	23.6	26.0	24.4	22.8	22.0	18.7	12.2	5.7	1.6	0.0	0.8
57.5°	2.4	2.4	2.4	3.3	4.1	4.1	3.3	1.6	0.0	0.0	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	1.6
62.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4
75°	0.0	0.0	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	2.4
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6
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):

	90°	112.5°	135°	157.5°	180°
0°	42.3	42.3	42.3	42.3	42.3
2.5°	42.3	33.3	27.7	24.4	23.6
5°	39.8	25.2	17.9	15.5	14.6
7.5°	35.8	18.7	12.2	9.8	8.9
10°	30.9	13.8	8.1	5.7	5.7
12.5°	26.0	10.6	4.9	2.4	1.6
15°	21.1	6.5	1.6	0.8	0.8
17.5°	16.3	4.1	0.0	0.0	0.0
20°	13.0	1.6	0.0	0.0	0.0
22.5°	9.8	0.8	0.0	0.0	0.0
25°	6.5	0.0	0.0	0.0	0.0
27.5°	4.1	0.0	0.0	0.0	0.0
30°	2.4	0.0	0.0	0.0	0.0
32.5°	0.8	0.0	0.0	0.0	0.0
35°	0.8	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.8	0.0	0.0	0.8	0.8
47.5°	0.8	0.8	0.8	1.6	1.6
50°	0.8	0.8	0.8	1.6	2.4
52.5°	1.6	0.8	1.6	2.4	2.4
55°	1.6	1.6	2.4	3.3	3.3
57.5°	1.6	1.6	2.4	3.3	3.3
60°	1.6	1.6	2.4	3.3	4.1
62.5°	2.4	2.4	2.4	3.3	3.3
65°	2.4	2.4	2.4	3.3	4.1
67.5°	2.4	2.4	2.4	3.3	4.1
70°	2.4	2.4	2.4	3.3	3.3
72.5°	3.3	2.4	2.4	3.3	3.3
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	2.4	1.6	2.4	2.4
80°	2.4	1.6	1.6	1.6	1.6
82.5°	2.4	1.6	1.6	1.6	1.6
85°	2.4	1.6	0.8	0.8	0.8
87.5°	2.4	1.6	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)