

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: P1344035

Luminaire Tested: P3A13R209740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

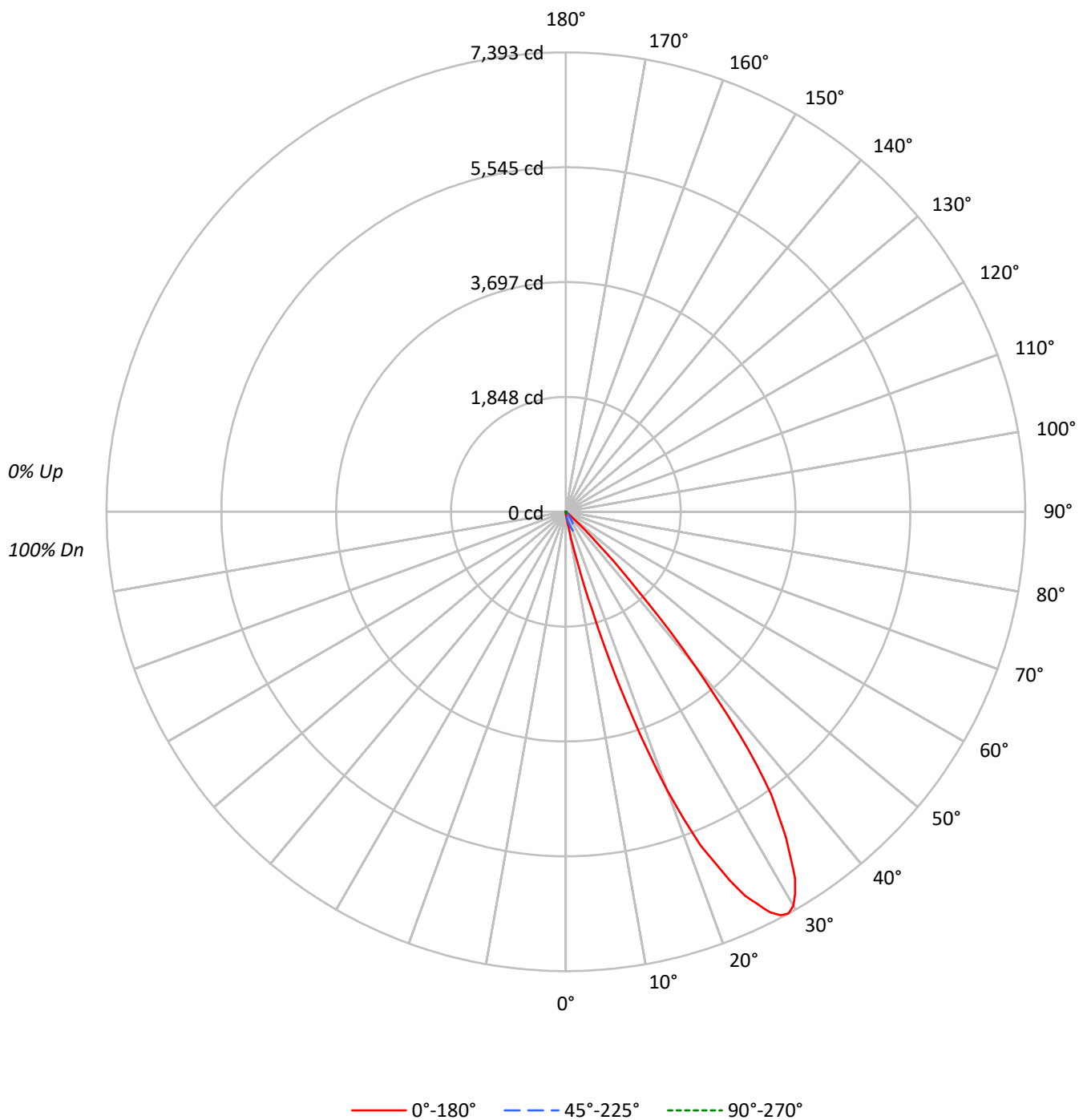
Lumens per Lamp: N/A
Luminaire Lumens: 1037.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7850	7850	7850	7850	7850
5°	18028	13471	7462	4556	3940
10°	56779	23469	6079	2516	1893
15°	367789	43360	4495	863	204
20°	1109993	74206	3080	0	0
25°	1648474	74883	1815	0	0
30°	1853779	56945	709	0	0
35°	1599488	33997	509	0	0
40°	921040	11593	0	0	0
45°	224643	4683	279	0	279
50°	26950	1296	307	307	955
55°	3594	0	726	726	1453
60°	395	0	1228	1228	2061
65°	467	467	1972	1972	2906
70°	577	577	2436	2436	3013
75°	0	763	3219	2372	3219
80°	0	1137	3536	2399	3536
85°	0	2264	7045	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 226101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.5
10°-20°	96.1	9.3
20°-30°	418.9	40.4
30°-40°	421.8	40.7
40°-50°	84.6	8.2
50°-60°	4.2	0.4
60°-70°	2.8	0.3
70°-80°	2.5	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°	519.8	50.1
0°-40°	941.6	90.8
0°-60°	1030.5	99.4
0°-90°	1037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	82	61	34	21	18	13
15°	1620	191	20	4	1	635
25°	6813	310	8	0	0	3072
35°	5975	127	2	0	0	3555
45°	724	15	1	0	1	789
55°	9	0	2	2	4	17
65°	1	1	4	4	6	1
75°	0	1	4	3	4	0
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°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
2.5°	53.6	53.6	52.7	52.7	51.7	52.7	50.8	51.7	51.7	50.8	46.1
5°	81.9	83.7	82.8	82.8	81.9	82.8	80.9	79.0	77.1	77.1	61.2
7.5°	134.5	133.6	131.7	132.7	129.8	127.9	126.1	125.1	119.5	116.7	80.0
10°	255.0	260.6	255.9	255.0	238.0	237.1	225.8	209.8	195.7	188.2	105.4
12.5°	701.8	731.9	684.9	662.3	649.2	598.4	576.7	521.2	467.6	427.1	133.6
15°	1620.1	1694.4	1599.4	1606.0	1526.9	1382.0	1255.0	1145.9	1017.0	887.2	191.0
17.5°	3174.3	3114.1	3062.3	2974.8	2813.9	2601.3	2327.6	2050.0	1810.1	1558.9	266.2
20°	4756.7	4703.1	4585.5	4394.5	4189.4	3874.2	3548.7	3131.9	2728.3	2350.1	318.0
21°	5301.4	5283.6	5090.7	4973.1	4657.0	4355.9	3980.5	3534.6	3080.2	2632.4	326.5
22°	5787.8	5680.6	5577.1	5403.0	5088.8	4761.4	4343.7	3874.2	3381.3	2883.6	327.4
23°	6124.6	6075.7	5977.9	5781.2	5468.9	5084.1	4643.8	4152.7	3633.4	3061.4	324.6
24°	6497.2	6435.1	6292.1	6062.5	5747.4	5367.3	4864.9	4377.6	3813.1	3211.0	317.1
25°	6813.3	6716.4	6547.1	6299.6	5955.3	5563.0	5057.8	4522.4	3938.2	3311.6	309.5
26°	7018.4	6965.7	6748.4	6479.3	6110.5	5706.0	5190.4	4633.5	4019.1	3357.7	297.3
27°	7232.0	7135.1	6921.5	6612.0	6212.1	5799.1	5265.7	4687.1	4047.3	3359.6	282.2
28°	7354.3	7248.9	7007.1	6681.6	6278.0	5850.9	5309.0	4704.0	4041.7	3330.4	264.4
29°	7392.8	7260.2	7024.0	6692.9	6294.0	5854.6	5302.4	4679.6	3991.8	3258.9	243.7
30°	7321.3	7185.9	6962.0	6639.3	6243.2	5807.6	5241.2	4598.7	3903.4	3156.4	224.9
31°	7165.2	7050.4	6834.0	6510.4	6130.3	5697.5	5102.9	4466.0	3752.9	3019.0	203.2
32°	6959.1	6846.2	6633.6	6341.0	5954.4	5517.8	4913.8	4259.0	3576.0	2813.9	181.6
33°	6649.6	6584.7	6393.7	6114.3	5727.6	5261.0	4659.8	4011.6	3323.9	2586.3	162.8
34°	6336.3	6254.5	6120.9	5815.1	5399.3	4933.6	4328.6	3670.1	3016.2	2331.3	144.9
35°	5975.1	5926.1	5716.3	5471.7	5054.0	4578.0	3976.8	3338.0	2657.8	2047.2	127.0
36°	5625.1	5549.8	5310.8	5052.1	4646.6	4132.0	3538.4	2938.1	2348.2	1780.9	108.2
37°	5117.0	5002.3	4832.0	4559.1	4085.0	3646.6	3104.7	2547.7	1967.2	1493.1	87.5
38°	4519.6	4466.0	4229.9	3955.1	3562.8	3147.0	2610.7	2138.4	1622.9	1246.6	66.8
39°	3815.0	3814.0	3588.2	3389.7	3005.9	2631.4	2147.9	1735.8	1339.7	1003.8	51.7
40°	3217.6	3106.5	2967.3	2718.0	2423.5	2105.5	1682.2	1358.5	1039.6	809.1	40.5
42.5°	1686.9	1677.5	1595.6	1408.4	1243.7	1056.5	840.1	700.0	547.5	445.9	25.4
45°	724.4	729.1	672.7	644.5	580.5	502.4	424.3	353.7	302.9	245.6	15.1
47.5°	183.5	175.9	174.0	180.6	180.6	175.0	157.1	147.7	136.4	125.1	8.5
50°	79.0	77.1	75.3	75.3	70.6	67.7	63.0	57.4	52.7	47.0	3.8
52.5°	29.2	30.1	31.0	30.1	30.1	29.2	29.2	28.2	25.4	22.6	1.9
55°	9.4	9.4	9.4	10.3	10.3	11.3	11.3	11.3	11.3	10.3	0.0
57.5°	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	0.0
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
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	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.0	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	35.8	35.8	35.8	35.8	35.8	35.8
2.5°	41.4	36.7	31.0	26.3	25.4	24.5
5°	46.1	33.9	25.4	20.7	18.8	17.9
7.5°	49.9	31.0	20.7	15.1	13.2	12.2
10°	51.7	27.3	16.9	11.3	8.5	8.5
12.5°	52.7	23.5	12.2	7.5	4.7	4.7
15°	51.7	19.8	9.4	3.8	0.9	0.9
17.5°	47.0	16.0	5.6	0.9	0.0	0.0
20°	40.5	13.2	3.8	0.0	0.0	0.0
21°	38.6	11.3	2.8	0.0	0.0	0.0
22°	35.8	10.3	1.9	0.0	0.0	0.0
23°	32.9	9.4	1.9	0.0	0.0	0.0
24°	30.1	8.5	0.9	0.0	0.0	0.0
25°	28.2	7.5	0.9	0.0	0.0	0.0
26°	26.3	6.6	0.9	0.0	0.0	0.0
27°	23.5	5.6	0.0	0.0	0.0	0.0
28°	21.6	4.7	0.0	0.0	0.0	0.0
29°	18.8	3.8	0.0	0.0	0.0	0.0
30°	16.0	2.8	0.0	0.0	0.0	0.0
31°	13.2	2.8	0.0	0.0	0.0	0.0
32°	11.3	1.9	0.0	0.0	0.0	0.0
33°	9.4	1.9	0.0	0.0	0.0	0.0
34°	8.5	1.9	0.0	0.0	0.0	0.0
35°	7.5	1.9	0.0	0.0	0.0	0.0
36°	5.6	0.9	0.0	0.0	0.0	0.0
37°	4.7	0.9	0.0	0.0	0.0	0.0
38°	3.8	0.9	0.0	0.0	0.0	0.0
39°	2.8	0.0	0.0	0.0	0.0	0.0
40°	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.9	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.9	0.0	0.0	0.9	0.9
47.5°	0.0	0.9	0.0	0.0	0.9	1.9
50°	0.0	0.9	0.9	0.9	1.9	2.8
52.5°	0.0	1.9	0.9	0.9	2.8	2.8
55°	0.9	1.9	0.9	1.9	3.8	3.8
57.5°	0.9	1.9	1.9	2.8	3.8	4.7
60°	1.9	2.8	2.8	2.8	4.7	4.7
62.5°	1.9	2.8	3.8	3.8	4.7	5.6
65°	1.9	3.8	3.8	3.8	4.7	5.6
67.5°	2.8	3.8	3.8	3.8	4.7	5.6
70°	2.8	3.8	3.8	3.8	4.7	4.7
72.5°	2.8	3.8	2.8	3.8	3.8	4.7
75°	2.8	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	1.9	0.9	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)