

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: P1344003

Luminaire Tested: P3A13R209730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344003
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: P3A13R209730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

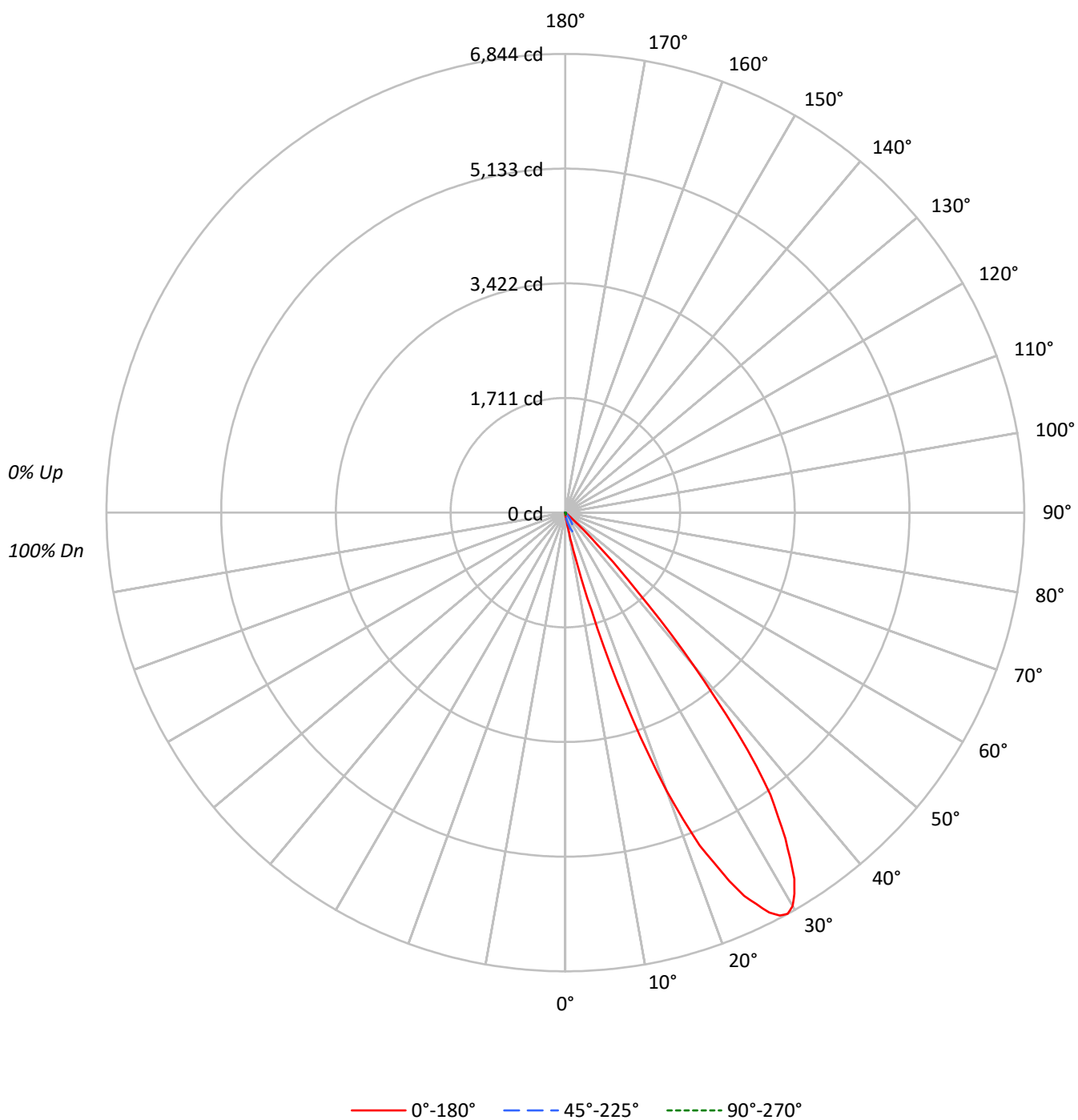
Lumens per Lamp: N/A
Luminaire Lumens: 960.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7258	7258	7258	7258	7258
5°	16685	12459	6912	4226	3632
10°	52549	21710	5633	2338	1737
15°	340479	40136	4154	795	204
20°	1027573	68699	2847	0	0
25°	1526072	69319	1694	0	0
30°	1716137	52717	658	0	0
35°	1480713	31481	455	0	0
40°	852626	10734	0	0	0
45°	207960	4311	279	0	279
50°	24971	1194	307	307	887
55°	3326	0	650	650	1338
60°	395	0	1140	1140	1930
65°	467	467	1816	1816	2698
70°	577	577	2244	2244	2821
75°	0	763	2965	2203	2965
80°	0	1137	3283	2147	3283
85°	0	2264	6542	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 209324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.5
10°-20°	89.0	9.3
20°-30°	387.8	40.4
30°-40°	390.5	40.7
40°-50°	78.3	8.2
50°-60°	3.9	0.4
60°-70°	2.6	0.3
70°-80°	2.3	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°	481.2	50.1
0°-40°	871.7	90.8
0°-60°	954.0	99.4
0°-90°	960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	76	57	31	19	16	12
15°	1500	177	18	4	1	587
25°	6307	286	7	0	0	2844
35°	5531	118	2	0	0	3291
45°	671	14	1	0	1	730
55°	9	0	2	2	4	16
65°	1	1	4	4	5	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°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
2.5°	49.6	49.6	48.8	48.8	47.9	48.8	47.0	47.9	47.9	47.0	42.7
5°	75.8	77.5	76.6	76.6	75.8	76.6	74.9	73.2	71.4	71.4	56.6
7.5°	124.5	123.7	121.9	122.8	120.2	118.4	116.7	115.8	110.6	108.0	74.0
10°	236.0	241.3	236.9	236.0	220.3	219.5	209.0	194.2	181.2	174.2	97.5
12.5°	649.7	677.6	634.0	613.1	601.0	553.9	533.9	482.5	432.9	395.4	123.7
15°	1499.8	1568.6	1480.6	1486.7	1413.5	1279.4	1161.8	1060.8	941.5	821.3	176.8
17.5°	2938.6	2882.8	2834.9	2753.9	2605.0	2408.2	2154.7	1897.8	1675.7	1443.2	246.5
20°	4403.5	4353.9	4245.0	4068.2	3878.3	3586.6	3285.2	2899.4	2525.7	2175.6	294.4
21°	4907.8	4891.2	4712.7	4603.8	4311.2	4032.5	3685.0	3272.1	2851.5	2436.9	302.2
22°	5358.1	5258.8	5163.0	5001.9	4711.0	4407.9	4021.2	3586.6	3130.2	2669.5	303.1
23°	5669.9	5624.6	5534.0	5352.0	5062.8	4706.6	4299.0	3844.4	3363.6	2834.1	300.5
24°	6014.8	5957.3	5824.9	5612.4	5320.6	4968.8	4503.7	4052.5	3530.0	2972.5	293.5
25°	6307.4	6217.7	6060.9	5831.9	5513.1	5149.9	4682.2	4186.6	3645.8	3065.7	286.5
26°	6497.3	6448.5	6247.3	5998.2	5656.8	5282.3	4805.0	4289.4	3720.7	3108.4	275.2
27°	6695.0	6605.3	6407.6	6121.0	5750.9	5368.5	4874.7	4339.1	3746.8	3110.2	261.3
28°	6808.2	6710.7	6486.8	6185.5	5811.8	5416.4	4914.8	4354.7	3741.6	3083.2	244.7
29°	6843.9	6721.1	6502.5	6195.9	5826.6	5419.9	4908.7	4332.1	3695.4	3017.0	225.6
30°	6777.7	6652.3	6445.0	6146.3	5779.6	5376.4	4852.0	4257.2	3613.6	2922.0	208.2
31°	6633.1	6526.9	6326.6	6027.0	5675.1	5274.5	4724.0	4134.4	3474.2	2794.9	188.1
32°	6442.4	6337.9	6141.1	5870.2	5512.2	5108.1	4549.0	3942.8	3310.5	2605.0	168.1
33°	6155.9	6095.8	5919.0	5660.3	5302.3	4870.3	4313.8	3713.7	3077.1	2394.2	150.7
34°	5865.8	5790.1	5666.4	5383.3	4998.4	4567.2	4007.2	3397.6	2792.3	2158.2	134.1
35°	5531.4	5486.1	5291.9	5065.4	4678.7	4238.0	3681.5	3090.1	2460.4	1895.2	117.6
36°	5207.4	5137.7	4916.5	4677.0	4301.6	3825.2	3275.6	2720.0	2173.9	1648.7	100.2
37°	4737.1	4630.8	4473.2	4220.6	3781.7	3375.8	2874.1	2358.5	1821.2	1382.2	81.0
38°	4184.0	4134.4	3915.8	3661.5	3298.3	2913.3	2416.9	1979.7	1502.4	1154.0	61.8
39°	3531.7	3530.8	3321.8	3138.0	2782.7	2436.0	1988.4	1606.9	1240.2	929.3	47.9
40°	2978.6	2875.9	2747.0	2516.2	2243.6	1949.2	1557.3	1257.6	962.4	749.0	37.5
42.5°	1561.6	1552.9	1477.1	1303.8	1151.4	978.1	777.8	648.0	506.9	412.8	23.5
45°	670.6	675.0	622.7	596.6	537.4	465.1	392.8	327.5	280.4	227.3	13.9
47.5°	169.8	162.9	161.1	167.2	167.2	162.0	145.4	136.7	126.3	115.8	7.8
50°	73.2	71.4	69.7	69.7	65.3	62.7	58.4	53.1	48.8	43.5	3.5
52.5°	27.0	27.9	28.7	27.9	27.9	27.0	27.0	26.1	23.5	20.9	1.7
55°	8.7	8.7	8.7	9.6	9.6	10.5	10.5	10.5	10.5	9.6	0.0
57.5°	1.7	1.7	2.6	2.6	2.6	2.6	2.6	2.6	3.5	3.5	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°	33.1	33.1	33.1	33.1	33.1	33.1
2.5°	38.3	34.0	28.7	24.4	23.5	22.6
5°	42.7	31.4	23.5	19.2	17.4	16.5
7.5°	46.2	28.7	19.2	13.9	12.2	11.3
10°	47.9	25.3	15.7	10.5	7.8	7.8
12.5°	48.8	21.8	11.3	7.0	4.4	4.4
15°	47.9	18.3	8.7	3.5	0.9	0.9
17.5°	43.5	14.8	5.2	0.9	0.0	0.0
20°	37.5	12.2	3.5	0.0	0.0	0.0
21°	35.7	10.5	2.6	0.0	0.0	0.0
22°	33.1	9.6	1.7	0.0	0.0	0.0
23°	30.5	8.7	1.7	0.0	0.0	0.0
24°	27.9	7.8	0.9	0.0	0.0	0.0
25°	26.1	7.0	0.9	0.0	0.0	0.0
26°	24.4	6.1	0.9	0.0	0.0	0.0
27°	21.8	5.2	0.0	0.0	0.0	0.0
28°	20.0	4.4	0.0	0.0	0.0	0.0
29°	17.4	3.5	0.0	0.0	0.0	0.0
30°	14.8	2.6	0.0	0.0	0.0	0.0
31°	12.2	2.6	0.0	0.0	0.0	0.0
32°	10.5	1.7	0.0	0.0	0.0	0.0
33°	8.7	1.7	0.0	0.0	0.0	0.0
34°	7.8	1.7	0.0	0.0	0.0	0.0
35°	7.0	1.7	0.0	0.0	0.0	0.0
36°	5.2	0.9	0.0	0.0	0.0	0.0
37°	4.4	0.9	0.0	0.0	0.0	0.0
38°	3.5	0.9	0.0	0.0	0.0	0.0
39°	2.6	0.0	0.0	0.0	0.0	0.0
40°	2.6	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	1.7
50°	0.0	0.9	0.9	0.9	1.7	2.6
52.5°	0.0	1.7	0.9	0.9	2.6	2.6
55°	0.9	1.7	0.9	1.7	3.5	3.5
57.5°	0.9	1.7	1.7	2.6	3.5	4.4
60°	1.7	2.6	2.6	2.6	4.4	4.4
62.5°	1.7	2.6	3.5	3.5	4.4	5.2
65°	1.7	3.5	3.5	3.5	4.4	5.2
67.5°	2.6	3.5	3.5	3.5	4.4	5.2
70°	2.6	3.5	3.5	3.5	4.4	4.4
72.5°	2.6	3.5	2.6	3.5	3.5	4.4
75°	2.6	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	1.7	0.9	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)