

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: P1344351

Luminaire Tested: P3A13R20W2N902765DE010 E3CA301MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344351
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: P3A13R20W2N902765DE010 E3CA301MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

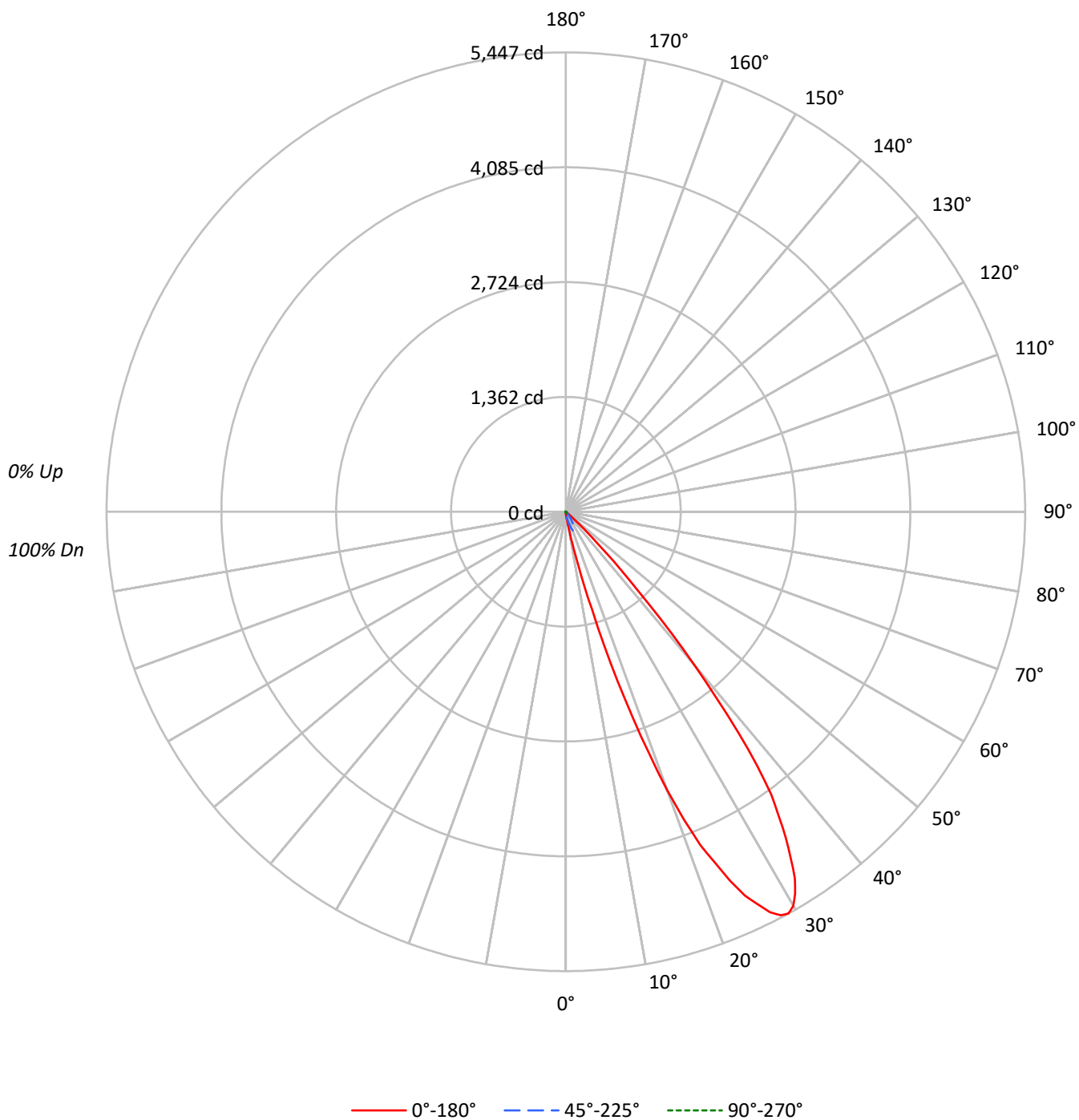
Lumens per Lamp: N/A
Luminaire Lumens: 764.1 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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°	5767	5767	5767	5767	5767
5°	13273	9927	5503	3346	2906
10°	41816	17279	4476	1848	1381
15°	270966	31941	3314	636	159
20°	817788	54675	2264	0	0
25°	1214489	55164	1331	0	0
30°	1365754	41956	532	0	0
35°	1178408	25056	375	0	0
40°	678557	8530	0	0	0
45°	165506	3442	217	0	217
50°	19854	955	239	239	716
55°	2638	0	535	535	1070
60°	307	0	921	921	1535
65°	363	363	1453	1453	2179
70°	449	449	1795	1795	2244
75°	0	593	2372	1779	2372
80°	0	884	2652	1768	2652
85°	0	1761	5284	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 166591 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	70.8	9.3
20°-30°	308.6	40.4
30°-40°	310.8	40.7
40°-50°	62.3	8.2
50°-60°	3.1	0.4
60°-70°	2.1	0.3
70°-80°	1.8	0.2
80°-90°	0.9	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°	382.9	50.1
0°-40°	693.7	90.8
0°-60°	759.2	99.4
0°-90°	764.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	60	45	25	15	13	9
15°	1194	141	15	3	1	468
25°	5020	228	6	0	0	2263
35°	4402	94	1	0	0	2619
45°	534	11	1	0	1	581
55°	7	0	1	1	3	13
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	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°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
2.5°	39.5	39.5	38.8	38.8	38.1	38.8	37.4	38.1	38.1	37.4	34.0
5°	60.3	61.7	61.0	61.0	60.3	61.0	59.6	58.2	56.8	56.8	45.1
7.5°	99.1	98.4	97.0	97.7	95.7	94.3	92.9	92.2	88.0	85.9	58.9
10°	187.8	192.0	188.5	187.8	175.4	174.7	166.4	154.6	144.2	138.6	77.6
12.5°	517.1	539.3	504.6	488.0	478.3	440.8	424.9	384.0	344.5	314.7	98.4
15°	1193.6	1248.3	1178.3	1183.2	1124.9	1018.2	924.6	844.2	749.3	653.6	140.7
17.5°	2338.6	2294.3	2256.1	2191.7	2073.1	1916.5	1714.8	1510.3	1333.6	1148.5	196.2
20°	3504.5	3465.0	3378.3	3237.6	3086.5	2854.3	2614.5	2307.4	2010.1	1731.4	234.3
21°	3905.8	3892.6	3750.5	3663.9	3431.0	3209.2	2932.6	2604.1	2269.3	1939.4	240.5
22°	4264.1	4185.1	4108.9	3980.6	3749.1	3507.9	3200.2	2854.3	2491.1	2124.4	241.2
23°	4512.3	4476.2	4404.1	4259.3	4029.2	3745.7	3421.3	3059.5	2676.9	2255.4	239.1
24°	4786.7	4741.0	4635.6	4466.5	4234.3	3954.3	3584.2	3225.1	2809.3	2365.6	233.6
25°	5019.6	4948.2	4823.5	4641.2	4387.5	4098.5	3726.3	3331.9	2901.4	2439.8	228.0
26°	5170.7	5131.9	4971.8	4773.6	4501.9	4203.8	3824.0	3413.7	2961.0	2473.8	219.0
27°	5328.1	5256.7	5099.4	4871.3	4576.7	4272.4	3879.4	3453.2	2981.8	2475.2	207.9
28°	5418.2	5340.6	5162.4	4922.6	4625.3	4310.6	3911.3	3465.6	2977.7	2453.7	194.8
29°	5446.6	5348.9	5174.9	4930.9	4637.0	4313.3	3906.5	3447.6	2940.9	2401.0	179.5
30°	5393.9	5294.1	5129.2	4891.4	4599.6	4278.7	3861.4	3388.0	2875.8	2325.4	165.7
31°	5278.9	5194.3	5034.9	4796.5	4516.4	4197.6	3759.5	3290.3	2764.9	2224.3	149.7
32°	5127.1	5043.9	4887.3	4671.7	4386.8	4065.2	3620.2	3137.8	2634.6	2073.1	133.8
33°	4899.0	4851.2	4710.5	4504.6	4219.8	3876.0	3433.1	2955.5	2448.8	1905.4	119.9
34°	4668.2	4607.9	4509.5	4284.2	3977.9	3634.8	3189.1	2703.9	2222.2	1717.6	106.7
35°	4402.1	4366.0	4211.5	4031.2	3723.5	3372.8	2929.9	2459.2	1958.1	1508.2	93.6
36°	4144.2	4088.8	3912.7	3722.1	3423.4	3044.2	2606.9	2164.6	1730.1	1312.1	79.7
37°	3769.9	3685.4	3559.9	3358.9	3009.6	2686.6	2287.3	1877.0	1449.3	1100.0	64.5
38°	3329.8	3290.3	3116.3	2913.9	2624.9	2318.5	1923.4	1575.5	1195.6	918.4	49.2
39°	2810.6	2809.9	2643.6	2497.3	2214.5	1938.7	1582.4	1278.8	987.0	739.6	38.1
40°	2370.5	2288.7	2186.1	2002.4	1785.5	1551.2	1239.3	1000.9	765.9	596.1	29.8
42.5°	1242.8	1235.8	1175.5	1037.6	916.3	778.4	619.0	515.7	403.4	328.5	18.7
45°	533.7	537.2	495.6	474.8	427.7	370.1	312.6	260.6	223.2	180.9	11.1
47.5°	135.2	129.6	128.2	133.1	133.1	128.9	115.8	108.8	100.5	92.2	6.2
50°	58.2	56.8	55.5	55.5	52.0	49.9	46.4	42.3	38.8	34.7	2.8
52.5°	21.5	22.2	22.9	22.2	22.2	21.5	21.5	20.8	18.7	16.6	1.4
55°	6.9	6.9	6.9	7.6	7.6	8.3	8.3	8.3	8.3	7.6	0.0
57.5°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	26.3	26.3	26.3	26.3	26.3	26.3
2.5°	30.5	27.0	22.9	19.4	18.7	18.0
5°	34.0	25.0	18.7	15.2	13.9	13.2
7.5°	36.7	22.9	15.2	11.1	9.7	9.0
10°	38.1	20.1	12.5	8.3	6.2	6.2
12.5°	38.8	17.3	9.0	5.5	3.5	3.5
15°	38.1	14.6	6.9	2.8	0.7	0.7
17.5°	34.7	11.8	4.2	0.7	0.0	0.0
20°	29.8	9.7	2.8	0.0	0.0	0.0
21°	28.4	8.3	2.1	0.0	0.0	0.0
22°	26.3	7.6	1.4	0.0	0.0	0.0
23°	24.3	6.9	1.4	0.0	0.0	0.0
24°	22.2	6.2	0.7	0.0	0.0	0.0
25°	20.8	5.5	0.7	0.0	0.0	0.0
26°	19.4	4.9	0.7	0.0	0.0	0.0
27°	17.3	4.2	0.0	0.0	0.0	0.0
28°	15.9	3.5	0.0	0.0	0.0	0.0
29°	13.9	2.8	0.0	0.0	0.0	0.0
30°	11.8	2.1	0.0	0.0	0.0	0.0
31°	9.7	2.1	0.0	0.0	0.0	0.0
32°	8.3	1.4	0.0	0.0	0.0	0.0
33°	6.9	1.4	0.0	0.0	0.0	0.0
34°	6.2	1.4	0.0	0.0	0.0	0.0
35°	5.5	1.4	0.0	0.0	0.0	0.0
36°	4.2	0.7	0.0	0.0	0.0	0.0
37°	3.5	0.7	0.0	0.0	0.0	0.0
38°	2.8	0.7	0.0	0.0	0.0	0.0
39°	2.1	0.0	0.0	0.0	0.0	0.0
40°	2.1	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.1
52.5°	0.0	1.4	0.7	0.7	2.1	2.1
55°	0.7	1.4	0.7	1.4	2.8	2.8
57.5°	0.7	1.4	1.4	2.1	2.8	3.5
60°	1.4	2.1	2.1	2.1	3.5	3.5
62.5°	1.4	2.1	2.8	2.8	3.5	4.2
65°	1.4	2.8	2.8	2.8	3.5	4.2
67.5°	2.1	2.8	2.8	2.8	3.5	4.2
70°	2.1	2.8	2.8	2.8	3.5	3.5
72.5°	2.1	2.8	2.1	2.8	2.8	3.5
75°	2.1	2.8	2.1	2.1	2.8	2.8
77.5°	1.4	2.1	2.1	1.4	2.1	2.1
80°	1.4	2.1	1.4	1.4	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.1	1.4	0.7	1.4	1.4
85°	1.4	2.1	1.4	0.7	0.7	0.7
87.5°	1.4	2.1	1.4	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)