

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: P1344260

Luminaire Tested: P3A13R20W2N902750DE010 E3CA301MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344260
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: P3A13R20W2N902750DE010 E3CA301MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

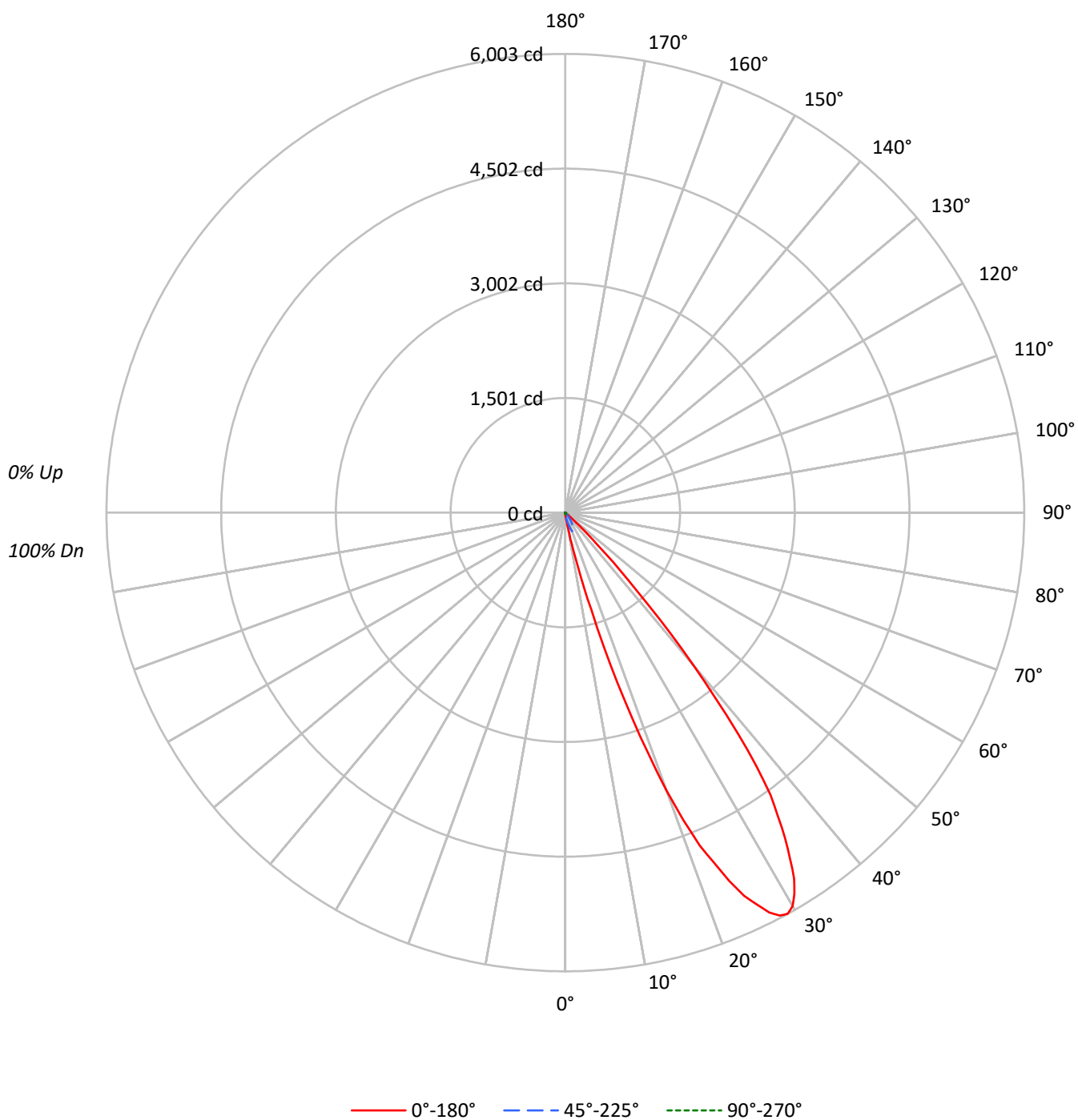
Lumens per Lamp: N/A
Luminaire Lumens: 842.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6359	6359	6359	6359	6359
5°	14638	10940	6053	3698	3192
10°	46091	19060	4943	2049	1536
15°	298617	35210	3632	704	182
20°	901258	60252	2497	0	0
25°	1338489	60802	1476	0	0
30°	1505194	46235	582	0	0
35°	1298709	27599	402	0	0
40°	747830	9389	0	0	0
45°	182407	3783	248	0	248
50°	21901	1058	273	273	785
55°	2906	0	573	573	1185
60°	351	0	1009	1009	1667
65°	415	415	1608	1608	2387
70°	513	513	1988	1988	2436
75°	0	678	2626	1949	2626
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 183585 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	78.0	9.3
20°-30°	340.1	40.4
30°-40°	342.5	40.7
40°-50°	68.7	8.2
50°-60°	3.5	0.4
60°-70°	2.3	0.3
70°-80°	2.0	0.2
80°-90°	1.0	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°	422.0	50.1
0°-40°	764.5	90.8
0°-60°	836.7	99.4
0°-90°	842.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	66	50	28	17	14	10
15°	1315	155	16	3	1	515
25°	5532	251	6	0	0	2494
35°	4852	103	2	0	0	2887
45°	588	12	1	0	1	640
55°	8	0	2	2	3	14
65°	1	1	3	3	5	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°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
2.5°	43.5	43.5	42.8	42.8	42.0	42.8	41.3	42.0	42.0	41.3	37.4
5°	66.5	68.0	67.2	67.2	66.5	67.2	65.7	64.2	62.6	62.6	49.7
7.5°	109.2	108.5	106.9	107.7	105.4	103.9	102.4	101.6	97.0	94.7	64.9
10°	207.0	211.6	207.8	207.0	193.3	192.5	183.3	170.3	158.9	152.8	85.6
12.5°	569.9	594.3	556.1	537.8	527.1	485.8	468.3	423.2	379.7	346.8	108.5
15°	1315.4	1375.8	1298.6	1304.0	1239.8	1122.2	1019.0	930.4	825.8	720.4	155.1
17.5°	2577.4	2528.5	2486.5	2415.4	2284.8	2112.2	1889.9	1664.5	1469.7	1265.8	216.2
20°	3862.2	3818.7	3723.2	3568.1	3401.6	3145.7	2881.4	2543.0	2215.3	1908.2	258.2
21°	4304.5	4290.0	4133.4	4037.9	3781.3	3536.8	3232.0	2869.9	2501.0	2137.4	265.1
22°	4699.5	4612.4	4528.4	4387.0	4131.9	3866.1	3526.9	3145.7	2745.4	2341.3	265.8
23°	4972.9	4933.2	4853.8	4694.1	4440.5	4128.1	3770.6	3371.8	2950.2	2485.7	263.5
24°	5275.4	5225.0	5108.9	4922.5	4666.6	4358.0	3950.1	3554.4	3096.1	2607.2	257.4
25°	5532.1	5453.4	5315.9	5115.0	4835.4	4516.9	4106.7	3672.0	3197.7	2688.9	251.3
26°	5698.6	5655.9	5479.4	5260.9	4961.5	4633.0	4214.4	3762.2	3263.4	2726.3	241.4
27°	5872.0	5793.4	5620.0	5368.6	5044.0	4708.6	4275.5	3805.7	3286.3	2727.9	229.2
28°	5971.4	5885.8	5689.5	5425.2	5097.5	4750.7	4310.7	3819.5	3281.7	2704.2	214.7
29°	6002.7	5895.0	5703.2	5434.3	5110.4	4753.7	4305.3	3799.6	3241.2	2646.1	197.8
30°	5944.6	5834.6	5652.8	5390.8	5069.2	4715.5	4255.7	3733.9	3169.4	2562.9	182.6
31°	5817.8	5724.6	5548.9	5286.1	4977.5	4626.1	4143.4	3626.2	3047.2	2451.3	165.0
32°	5650.5	5558.9	5386.2	5148.6	4834.7	4480.2	3989.8	3458.1	2903.6	2284.8	147.4
33°	5399.2	5346.5	5191.4	4964.5	4650.6	4271.7	3783.6	3257.2	2698.8	2099.9	132.2
34°	5144.8	5078.4	4969.9	4721.6	4384.0	4005.9	3514.7	2979.9	2449.0	1892.9	117.6
35°	4851.5	4811.8	4641.4	4442.8	4103.6	3717.1	3229.0	2710.3	2158.0	1662.2	103.1
36°	4567.3	4506.2	4312.2	4102.1	3772.9	3355.0	2873.0	2385.6	1906.7	1446.1	87.8
37°	4154.8	4061.6	3923.4	3701.8	3316.8	2960.9	2520.8	2068.6	1597.3	1212.3	71.0
38°	3669.7	3626.2	3434.5	3211.4	2892.9	2555.2	2119.8	1736.3	1317.7	1012.2	54.2
39°	3097.6	3096.8	2913.5	2752.3	2440.6	2136.6	1744.0	1409.4	1087.8	815.1	42.0
40°	2612.5	2522.4	2409.3	2206.9	1967.8	1709.6	1365.8	1103.1	844.1	656.9	32.8
42.5°	1369.7	1362.0	1295.6	1143.5	1009.9	857.9	682.2	568.3	444.6	362.1	20.6
45°	588.2	592.0	546.2	523.3	471.3	407.9	344.5	287.2	246.0	199.4	12.2
47.5°	149.0	142.8	141.3	146.7	146.7	142.1	127.6	119.9	110.8	101.6	6.9
50°	64.2	62.6	61.1	61.1	57.3	55.0	51.2	46.6	42.8	38.2	3.1
52.5°	23.7	24.4	25.2	24.4	24.4	23.7	23.7	22.9	20.6	18.3	1.5
55°	7.6	7.6	7.6	8.4	8.4	9.2	9.2	9.2	9.2	8.4	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1344260

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	29.0	29.0	29.0	29.0	29.0	29.0
2.5°	33.6	29.8	25.2	21.4	20.6	19.9
5°	37.4	27.5	20.6	16.8	15.3	14.5
7.5°	40.5	25.2	16.8	12.2	10.7	9.9
10°	42.0	22.2	13.8	9.2	6.9	6.9
12.5°	42.8	19.1	9.9	6.1	3.8	3.8
15°	42.0	16.0	7.6	3.1	0.8	0.8
17.5°	38.2	13.0	4.6	0.8	0.0	0.0
20°	32.8	10.7	3.1	0.0	0.0	0.0
21°	31.3	9.2	2.3	0.0	0.0	0.0
22°	29.0	8.4	1.5	0.0	0.0	0.0
23°	26.7	7.6	1.5	0.0	0.0	0.0
24°	24.4	6.9	0.8	0.0	0.0	0.0
25°	22.9	6.1	0.8	0.0	0.0	0.0
26°	21.4	5.3	0.8	0.0	0.0	0.0
27°	19.1	4.6	0.0	0.0	0.0	0.0
28°	17.6	3.8	0.0	0.0	0.0	0.0
29°	15.3	3.1	0.0	0.0	0.0	0.0
30°	13.0	2.3	0.0	0.0	0.0	0.0
31°	10.7	2.3	0.0	0.0	0.0	0.0
32°	9.2	1.5	0.0	0.0	0.0	0.0
33°	7.6	1.5	0.0	0.0	0.0	0.0
34°	6.9	1.5	0.0	0.0	0.0	0.0
35°	6.1	1.5	0.0	0.0	0.0	0.0
36°	4.6	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.1	0.8	0.0	0.0	0.0	0.0
39°	2.3	0.0	0.0	0.0	0.0	0.0
40°	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	0.8	2.3	2.3
55°	0.8	1.5	0.8	1.5	3.1	3.1
57.5°	0.8	1.5	1.5	2.3	3.1	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.1	3.1	3.8	4.6
65°	1.5	3.1	3.1	3.1	3.8	4.6
67.5°	2.3	3.1	3.1	3.1	3.8	4.6
70°	2.3	3.1	3.1	3.1	3.8	3.8
72.5°	2.3	3.1	2.3	3.1	3.1	3.8
75°	2.3	3.1	2.3	2.3	3.1	3.1
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	1.5	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)