

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: P1343906

Luminaire Tested: P3A13R209030D2WDE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343906
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: P3A13R209030D2WDE010 E3A301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

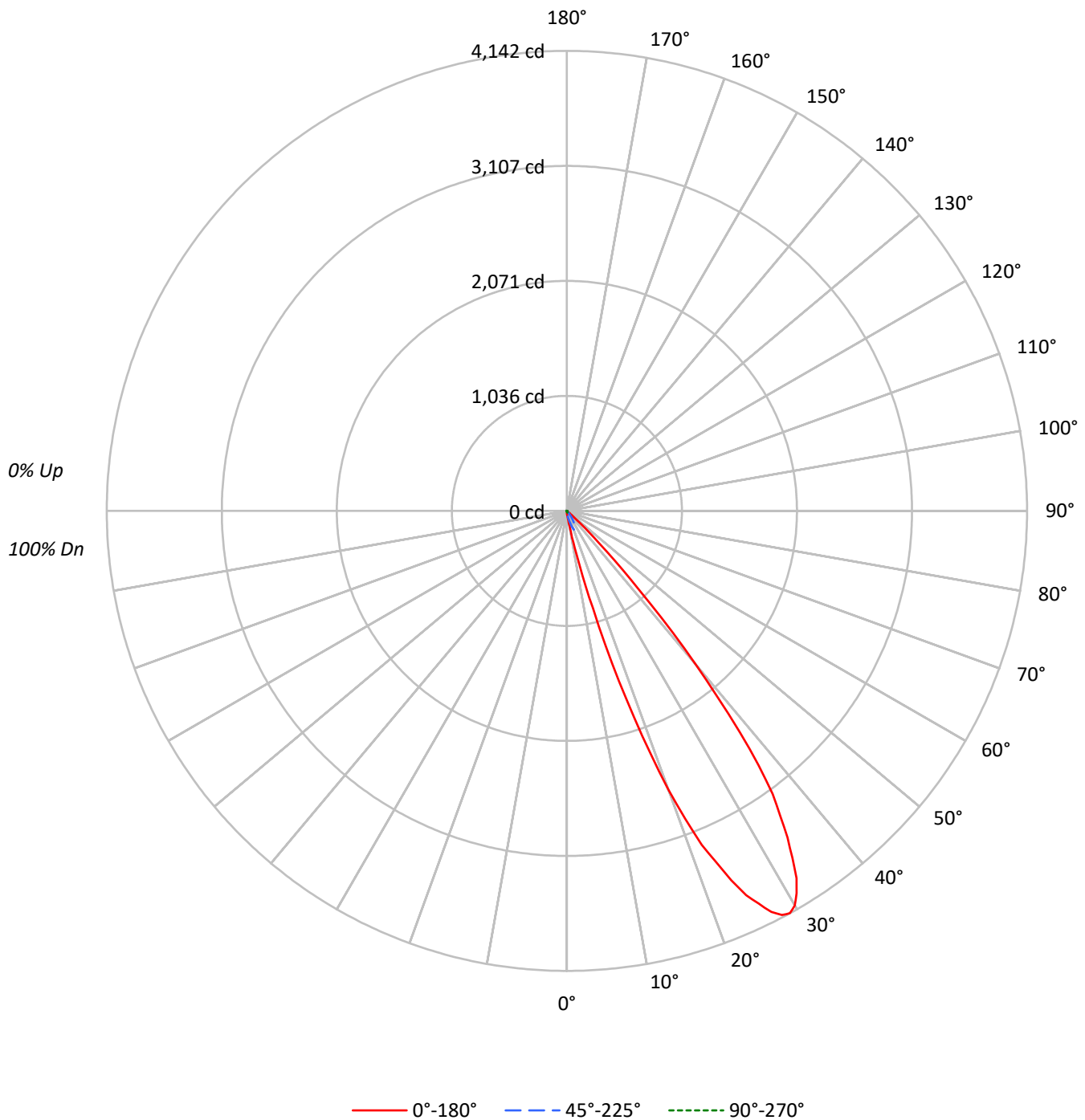
Lumens per Lamp: N/A
Luminaire Lumens: 581.0 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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°	4386	4386	4386	4386	4386
5°	10103	7550	4182	2553	2201
10°	31796	13137	3407	1403	1047
15°	206062	24291	2520	477	114
20°	621887	41584	1727	0	0
25°	923594	41954	1016	0	0
30°	1038616	31904	405	0	0
35°	896127	19060	294	0	0
40°	516024	6498	0	0	0
45°	125874	2605	155	0	155
50°	15113	716	171	171	546
55°	2026	0	421	421	803
60°	219	0	702	702	1140
65°	259	259	1090	1090	1660
70°	321	321	1346	1346	1667
75°	0	424	1779	1356	1779
80°	0	631	2020	1389	2020
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 126680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	53.8	9.3
20°-30°	234.7	40.4
30°-40°	236.3	40.7
40°-50°	47.4	8.2
50°-60°	2.4	0.4
60°-70°	1.6	0.3
70°-80°	1.4	0.2
80°-90°	0.7	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°	291.2	50.1
0°-40°	527.6	90.8
0°-60°	577.3	99.4
0°-90°	581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	46	34	19	12	10	7
15°	908	107	11	2	0	356
25°	3817	173	4	0	0	1721
35°	3348	71	1	0	0	1992
45°	406	8	0	0	0	442
55°	5	0	1	1	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	30.0	30.0	29.5	29.5	29.0	29.5	28.5	29.0	29.0	28.5	25.8
5°	45.9	46.9	46.4	46.4	45.9	46.4	45.3	44.3	43.2	43.2	34.3
7.5°	75.4	74.8	73.8	74.3	72.7	71.7	70.6	70.1	66.9	65.4	44.8
10°	142.8	146.0	143.4	142.8	133.4	132.8	126.5	117.5	109.6	105.4	59.0
12.5°	393.2	410.1	383.7	371.1	363.7	335.2	323.1	292.0	262.0	239.3	74.8
15°	907.7	949.3	896.1	899.8	855.5	774.3	703.2	642.0	569.8	497.1	107.0
17.5°	1778.5	1744.7	1715.7	1666.7	1576.6	1457.4	1304.1	1148.6	1014.1	873.4	149.2
20°	2665.0	2635.0	2569.1	2462.1	2347.2	2170.6	1988.2	1754.7	1528.6	1316.7	178.2
21°	2970.2	2960.2	2852.2	2786.3	2609.2	2440.5	2230.2	1980.3	1725.7	1474.8	182.9
22°	3242.7	3182.7	3124.7	3027.2	2851.1	2667.7	2433.6	2170.6	1894.4	1615.6	183.4
23°	3431.5	3404.0	3349.2	3239.1	3064.1	2848.5	2601.8	2326.6	2035.7	1715.2	181.9
24°	3640.2	3605.4	3525.3	3396.7	3220.1	3007.1	2725.7	2452.6	2136.4	1799.0	177.6
25°	3817.3	3763.0	3668.1	3529.5	3336.6	3116.8	2833.7	2533.8	2206.5	1855.4	173.4
26°	3932.2	3902.7	3780.9	3630.2	3423.5	3196.9	2908.0	2596.0	2251.8	1881.2	166.6
27°	4051.9	3997.6	3877.9	3704.5	3480.5	3249.1	2950.2	2626.0	2267.6	1882.3	158.1
28°	4120.4	4061.3	3925.9	3743.5	3517.4	3278.1	2974.5	2635.5	2264.4	1866.0	148.1
29°	4142.0	4067.7	3935.4	3749.8	3526.3	3280.2	2970.8	2621.8	2236.5	1825.9	136.5
30°	4101.9	4026.0	3900.6	3719.8	3497.9	3253.8	2936.5	2576.5	2187.0	1768.4	126.0
31°	4014.4	3950.1	3828.9	3647.6	3434.6	3192.1	2859.0	2502.2	2102.6	1691.5	113.9
32°	3899.0	3835.7	3716.6	3552.7	3336.0	3091.5	2753.1	2386.2	2003.5	1576.6	101.7
33°	3725.6	3689.2	3582.2	3425.7	3209.0	2947.6	2610.7	2247.6	1862.3	1449.0	91.2
34°	3550.1	3504.2	3429.3	3258.0	3025.1	2764.1	2425.2	2056.2	1689.9	1306.2	81.2
35°	3347.6	3320.2	3202.7	3065.6	2831.6	2564.9	2228.1	1870.2	1489.1	1147.0	71.2
36°	3151.6	3109.4	2975.5	2830.6	2603.4	2315.0	1982.4	1646.1	1315.7	997.8	60.6
37°	2866.9	2802.6	2707.2	2554.3	2288.7	2043.1	1739.4	1427.4	1102.2	836.5	49.0
38°	2532.2	2502.2	2369.9	2215.9	1996.1	1763.2	1462.7	1198.1	909.3	698.4	37.4
39°	2137.4	2136.9	2010.4	1899.2	1684.1	1474.3	1203.4	972.5	750.6	562.4	29.0
40°	1802.7	1740.5	1662.5	1522.8	1357.8	1179.7	942.5	761.1	582.5	453.3	22.7
42.5°	945.1	939.8	894.0	789.1	696.8	591.9	470.7	392.2	306.8	249.8	14.2
45°	405.9	408.5	376.9	361.1	325.2	281.5	237.7	198.2	169.7	137.6	8.4
47.5°	102.8	98.6	97.5	101.2	101.2	98.0	88.0	82.8	76.4	70.1	4.7
50°	44.3	43.2	42.2	42.2	39.5	38.0	35.3	32.2	29.5	26.4	2.1
52.5°	16.3	16.9	17.4	16.9	16.9	16.3	16.3	15.8	14.2	12.7	1.1
55°	5.3	5.3	5.3	5.8	5.8	6.3	6.3	6.3	6.3	5.8	0.0
57.5°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	23.2	20.6	17.4	14.8	14.2	13.7
5°	25.8	19.0	14.2	11.6	10.5	10.0
7.5°	27.9	17.4	11.6	8.4	7.4	6.9
10°	29.0	15.3	9.5	6.3	4.7	4.7
12.5°	29.5	13.2	6.9	4.2	2.6	2.6
15°	29.0	11.1	5.3	2.1	0.5	0.5
17.5°	26.4	9.0	3.2	0.5	0.0	0.0
20°	22.7	7.4	2.1	0.0	0.0	0.0
21°	21.6	6.3	1.6	0.0	0.0	0.0
22°	20.0	5.8	1.1	0.0	0.0	0.0
23°	18.4	5.3	1.1	0.0	0.0	0.0
24°	16.9	4.7	0.5	0.0	0.0	0.0
25°	15.8	4.2	0.5	0.0	0.0	0.0
26°	14.8	3.7	0.5	0.0	0.0	0.0
27°	13.2	3.2	0.0	0.0	0.0	0.0
28°	12.1	2.6	0.0	0.0	0.0	0.0
29°	10.5	2.1	0.0	0.0	0.0	0.0
30°	9.0	1.6	0.0	0.0	0.0	0.0
31°	7.4	1.6	0.0	0.0	0.0	0.0
32°	6.3	1.1	0.0	0.0	0.0	0.0
33°	5.3	1.1	0.0	0.0	0.0	0.0
34°	4.7	1.1	0.0	0.0	0.0	0.0
35°	4.2	1.1	0.0	0.0	0.0	0.0
36°	3.2	0.5	0.0	0.0	0.0	0.0
37°	2.6	0.5	0.0	0.0	0.0	0.0
38°	2.1	0.5	0.0	0.0	0.0	0.0
39°	1.6	0.0	0.0	0.0	0.0	0.0
40°	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	0.5	1.6	1.6
55°	0.5	1.1	0.5	1.1	2.1	2.1
57.5°	0.5	1.1	1.1	1.6	2.1	2.6
60°	1.1	1.6	1.6	1.6	2.6	2.6
62.5°	1.1	1.6	2.1	2.1	2.6	3.2
65°	1.1	2.1	2.1	2.1	2.6	3.2
67.5°	1.6	2.1	2.1	2.1	2.6	3.2
70°	1.6	2.1	2.1	2.1	2.6	2.6
72.5°	1.6	2.1	1.6	2.1	2.1	2.6
75°	1.6	2.1	1.6	1.6	2.1	2.1
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	1.1	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)