

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: P1336865

Luminaire Tested: P3A05R209040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336865
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: P3A05R209040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

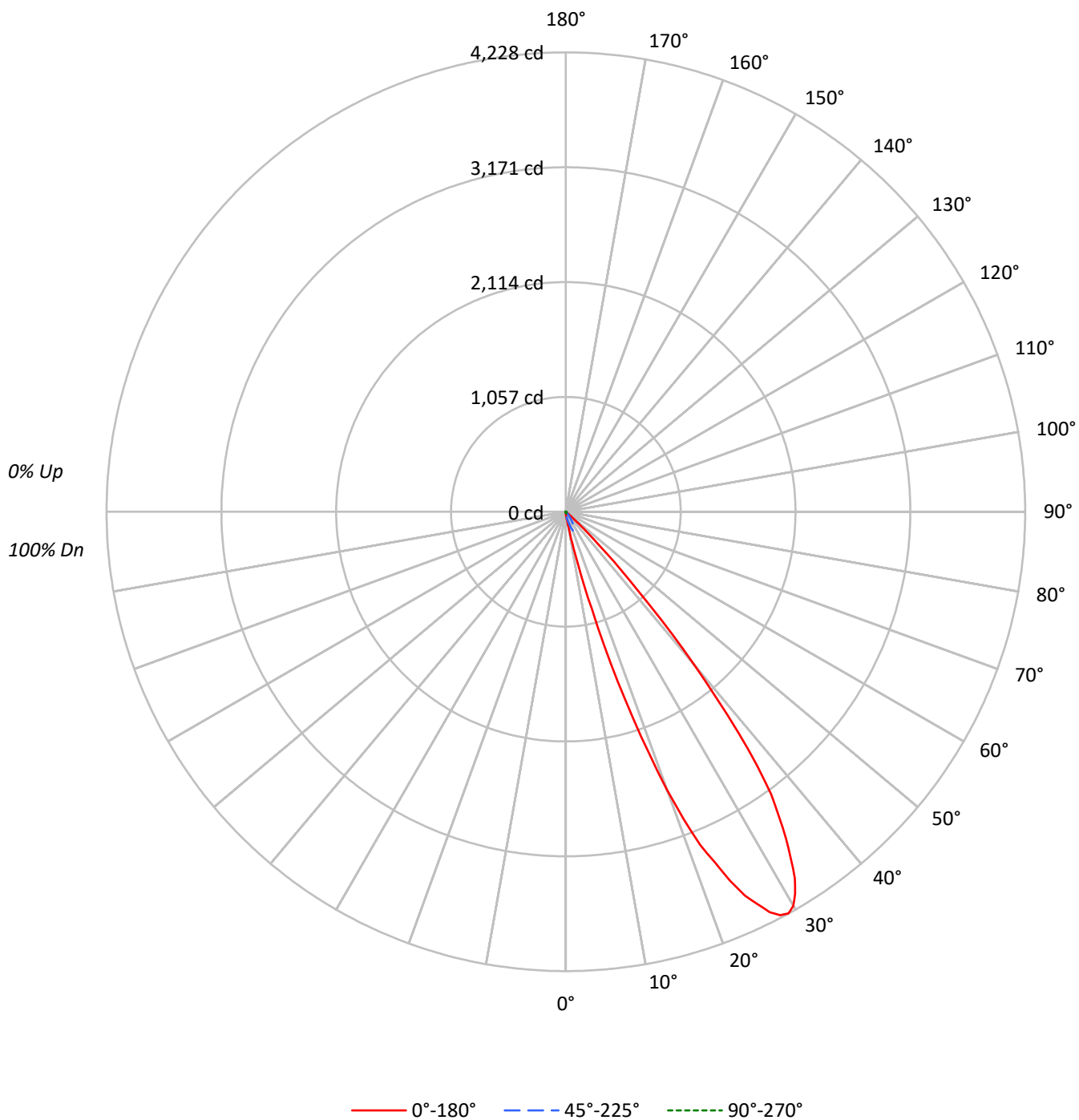
Lumens per Lamp: N/A
Luminaire Lumens: 593.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	4473	4473	4473	4473	4473
5°	10302	7704	4270	2597	2245
10°	32464	13427	3474	1447	1069
15°	210308	24790	2565	499	114
20°	634745	42424	1750	0	0
25°	942659	42825	1040	0	0
30°	1060087	32562	405	0	0
35°	914651	19434	294	0	0
40°	526672	6612	0	0	0
45°	128478	2667	155	0	155
50°	15420	751	171	171	546
55°	2064	0	421	421	841
60°	219	0	702	702	1184
65°	259	259	1141	1141	1660
70°	321	321	1410	1410	1731
75°	0	424	1864	1356	1864
80°	0	631	2020	1389	2020
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 129285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	55.0	9.3
20°-30°	239.5	40.4
30°-40°	241.2	40.7
40°-50°	48.4	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°	297.2	50.1
0°-40°	538.5	90.8
0°-60°	589.3	99.4
0°-90°	593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	593.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	47	35	19	12	10	7
15°	926	109	11	2	0	363
25°	3896	177	4	0	0	1757
35°	3417	73	1	0	0	2033
45°	414	9	0	0	0	451
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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	30.7	30.7	30.1	30.1	29.6	30.1	29.1	29.6	29.6	29.1	26.4
5°	46.8	47.9	47.3	47.3	46.8	47.3	46.3	45.2	44.1	44.1	35.0
7.5°	76.9	76.4	75.3	75.9	74.2	73.2	72.1	71.6	68.3	66.7	45.7
10°	145.8	149.0	146.3	145.8	136.1	135.6	129.1	120.0	111.9	107.6	60.3
12.5°	401.3	418.6	391.7	378.7	371.2	342.2	329.8	298.0	267.4	244.2	76.4
15°	926.4	968.9	914.6	918.4	873.2	790.3	717.7	655.3	581.6	507.3	109.2
17.5°	1815.2	1780.8	1751.2	1701.1	1609.1	1487.5	1331.0	1172.3	1035.1	891.5	152.3
20°	2720.1	2689.4	2622.2	2513.0	2395.7	2215.4	2029.3	1791.0	1560.2	1343.9	181.8
21°	3031.6	3021.4	2911.1	2843.8	2663.1	2490.9	2276.2	2021.2	1761.4	1505.3	186.7
22°	3309.7	3248.4	3189.2	3089.7	2910.0	2722.8	2483.9	2215.4	1933.5	1648.9	187.2
23°	3502.3	3474.3	3418.4	3306.0	3127.3	2907.3	2655.5	2374.7	2077.7	1750.6	185.6
24°	3715.4	3679.9	3598.1	3466.8	3286.6	3069.2	2782.0	2503.3	2180.5	1836.2	181.3
25°	3896.1	3840.7	3743.9	3602.4	3405.5	3181.1	2892.2	2586.1	2252.0	1893.7	177.0
26°	4013.4	3983.3	3859.0	3705.1	3494.3	3262.9	2968.1	2649.6	2298.3	1920.1	170.0
27°	4135.5	4080.1	3958.0	3781.0	3552.4	3316.2	3011.1	2680.3	2314.4	1921.2	161.4
28°	4205.5	4145.2	4007.0	3820.8	3590.0	3345.8	3035.9	2690.0	2311.2	1904.5	151.2
29°	4227.5	4151.7	4016.6	3827.3	3599.2	3347.9	3032.1	2676.0	2282.7	1863.6	139.3
30°	4186.7	4109.2	3981.1	3796.6	3570.1	3321.0	2997.2	2629.7	2232.1	1805.0	128.6
31°	4097.3	4031.7	3908.0	3722.9	3505.6	3258.1	2918.1	2553.8	2146.0	1726.4	116.2
32°	3979.5	3915.0	3793.4	3626.1	3404.9	3155.3	2809.9	2435.5	2044.9	1609.1	103.8
33°	3802.5	3765.4	3656.2	3496.4	3275.3	3008.4	2664.7	2294.0	1900.7	1478.9	93.1
34°	3623.4	3576.6	3500.2	3325.3	3087.5	2821.2	2475.3	2098.7	1724.8	1333.1	82.9
35°	3416.8	3388.8	3268.8	3129.0	2890.1	2617.9	2274.1	1908.8	1519.8	1170.7	72.6
36°	3216.7	3173.6	3037.0	2889.0	2657.1	2362.9	2023.4	1680.1	1342.8	1018.4	61.9
37°	2926.1	2860.5	2763.1	2607.1	2336.0	2085.3	1775.4	1456.9	1124.9	853.8	50.0
38°	2584.5	2553.8	2418.8	2261.7	2037.4	1799.6	1492.9	1222.9	928.0	712.8	38.2
39°	2181.6	2181.0	2051.9	1938.4	1718.9	1504.8	1228.2	992.6	766.1	574.0	29.6
40°	1839.9	1776.4	1696.8	1554.3	1385.9	1204.0	961.9	776.9	594.5	462.7	23.1
42.5°	964.6	959.2	912.4	805.4	711.2	604.2	480.4	400.3	313.1	255.0	14.5
45°	414.3	416.9	384.7	368.5	331.9	287.3	242.6	202.3	173.2	140.4	8.6
47.5°	104.9	100.6	99.5	103.3	103.3	100.1	89.8	84.5	78.0	71.6	4.8
50°	45.2	44.1	43.0	43.0	40.3	38.7	36.0	32.8	30.1	26.9	2.2
52.5°	16.7	17.2	17.8	17.2	17.2	16.7	16.7	16.1	14.5	12.9	1.1
55°	5.4	5.4	5.4	5.9	5.9	6.5	6.5	6.5	6.5	5.9	0.0
57.5°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	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°	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	23.7	21.0	17.8	15.1	14.5	14.0
5°	26.4	19.4	14.5	11.8	10.8	10.2
7.5°	28.5	17.8	11.8	8.6	7.5	7.0
10°	29.6	15.6	9.7	6.5	4.8	4.8
12.5°	30.1	13.4	7.0	4.3	2.7	2.7
15°	29.6	11.3	5.4	2.2	0.5	0.5
17.5°	26.9	9.1	3.2	0.5	0.0	0.0
20°	23.1	7.5	2.2	0.0	0.0	0.0
21°	22.1	6.5	1.6	0.0	0.0	0.0
22°	20.4	5.9	1.1	0.0	0.0	0.0
23°	18.8	5.4	1.1	0.0	0.0	0.0
24°	17.2	4.8	0.5	0.0	0.0	0.0
25°	16.1	4.3	0.5	0.0	0.0	0.0
26°	15.1	3.8	0.5	0.0	0.0	0.0
27°	13.4	3.2	0.0	0.0	0.0	0.0
28°	12.4	2.7	0.0	0.0	0.0	0.0
29°	10.8	2.2	0.0	0.0	0.0	0.0
30°	9.1	1.6	0.0	0.0	0.0	0.0
31°	7.5	1.6	0.0	0.0	0.0	0.0
32°	6.5	1.1	0.0	0.0	0.0	0.0
33°	5.4	1.1	0.0	0.0	0.0	0.0
34°	4.8	1.1	0.0	0.0	0.0	0.0
35°	4.3	1.1	0.0	0.0	0.0	0.0
36°	3.2	0.5	0.0	0.0	0.0	0.0
37°	2.7	0.5	0.0	0.0	0.0	0.0
38°	2.2	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	2.2	2.2
57.5°	0.5	1.1	1.1	1.6	2.2	2.7
60°	1.1	1.6	1.6	1.6	2.7	2.7
62.5°	1.1	1.6	2.2	2.2	2.7	3.2
65°	1.1	2.2	2.2	2.2	2.7	3.2
67.5°	1.6	2.2	2.2	2.2	2.7	3.2
70°	1.6	2.2	2.2	2.2	2.7	2.7
72.5°	1.6	2.2	1.6	2.2	2.2	2.7
75°	1.6	2.2	1.6	1.6	2.2	2.2
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)