

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: P1336851

Luminaire Tested: P3A05R209035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336851
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: P3A05R209035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

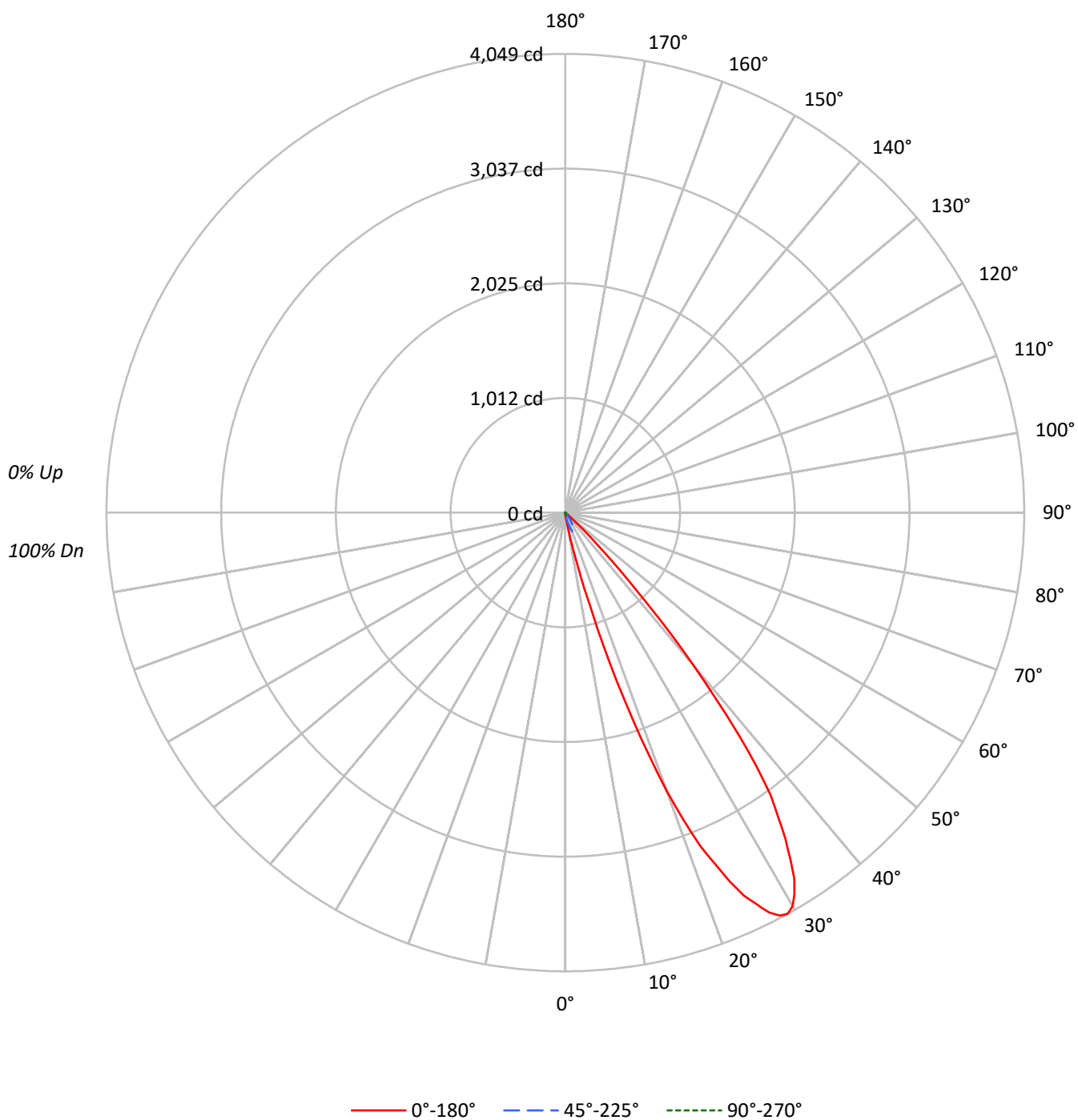
Lumens per Lamp: N/A
Luminaire Lumens: 568.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4298	4298	4298	4298	4298
5°	9861	7374	4094	2487	2157
10°	31084	12848	3318	1381	1024
15°	201454	23746	2452	477	114
20°	607980	40650	1680	0	0
25°	902931	41010	992	0	0
30°	1015371	31195	380	0	0
35°	876077	18631	268	0	0
40°	504488	6355	0	0	0
45°	123052	2543	155	0	155
50°	14771	716	171	171	512
55°	1988	0	382	382	803
60°	219	0	658	658	1140
65°	259	259	1090	1090	1608
70°	321	321	1346	1346	1667
75°	0	424	1779	1271	1779
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 123858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	52.6	9.3
20°-30°	229.4	40.4
30°-40°	231.1	40.7
40°-50°	46.3	8.2
50°-60°	2.3	0.4
60°-70°	1.5	0.3
70°-80°	1.3	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°	284.7	50.1
0°-40°	515.8	90.8
0°-60°	564.4	99.4
0°-90°	568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	568.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	45	34	19	11	10	7
15°	887	105	11	2	0	348
25°	3732	170	4	0	0	1683
35°	3273	70	1	0	0	1947
45°	397	8	0	0	0	432
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°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
2.5°	29.4	29.4	28.9	28.9	28.3	28.9	27.8	28.3	28.3	27.8	25.3
5°	44.8	45.9	45.3	45.3	44.8	45.3	44.3	43.3	42.3	42.3	33.5
7.5°	73.7	73.2	72.1	72.7	71.1	70.1	69.1	68.5	65.4	63.9	43.8
10°	139.6	142.7	140.2	139.6	130.4	129.9	123.7	114.9	107.2	103.1	57.7
12.5°	384.4	400.9	375.1	362.8	355.6	327.7	315.9	285.5	256.1	234.0	73.2
15°	887.4	928.1	876.0	879.6	836.3	757.0	687.4	627.6	557.1	485.9	104.6
17.5°	1738.7	1705.7	1677.3	1629.4	1541.3	1424.8	1274.9	1122.9	991.5	853.9	145.8
20°	2605.4	2576.0	2511.6	2407.0	2294.7	2122.0	1943.8	1715.5	1494.4	1287.2	174.2
21°	2903.8	2894.0	2788.3	2723.9	2550.8	2385.9	2180.3	1936.0	1687.1	1441.8	178.8
22°	3170.2	3111.4	3054.8	2959.4	2787.3	2608.0	2379.2	2122.0	1852.0	1579.4	179.3
23°	3354.7	3327.9	3274.3	3166.6	2995.5	2784.7	2543.6	2274.6	1990.1	1676.8	177.8
24°	3558.7	3524.7	3446.4	3320.7	3148.0	2939.8	2664.7	2397.7	2088.6	1758.8	173.7
25°	3731.9	3678.8	3586.0	3450.5	3261.9	3047.0	2770.3	2477.1	2157.1	1813.9	169.5
26°	3844.2	3815.4	3696.3	3548.9	3346.9	3125.4	2843.0	2537.9	2201.4	1839.1	162.8
27°	3961.2	3908.1	3791.1	3621.6	3402.6	3176.4	2884.2	2567.3	2216.9	1840.2	154.6
28°	4028.2	3970.5	3838.0	3659.7	3438.7	3204.7	2907.9	2576.6	2213.8	1824.2	144.8
29°	4049.3	3976.7	3847.3	3665.9	3447.4	3206.8	2904.3	2563.2	2186.5	1785.0	133.5
30°	4010.1	3935.9	3813.3	3636.5	3419.6	3181.0	2870.8	2518.8	2138.0	1728.9	123.2
31°	3924.6	3861.7	3743.2	3565.9	3357.8	3120.7	2795.0	2446.2	2055.6	1653.6	111.3
32°	3811.8	3749.9	3633.5	3473.2	3261.4	3022.3	2691.5	2332.8	1958.7	1541.3	99.5
33°	3642.2	3606.7	3502.1	3349.0	3137.2	2881.6	2552.3	2197.3	1820.6	1416.6	89.1
34°	3470.6	3425.8	3352.6	3185.1	2957.4	2702.3	2370.9	2010.2	1652.1	1276.9	79.4
35°	3272.7	3245.9	3131.0	2997.0	2768.2	2507.5	2178.2	1828.3	1455.8	1121.3	69.6
36°	3081.0	3039.8	2908.9	2767.2	2545.1	2263.2	1938.1	1609.3	1286.2	975.5	59.3
37°	2802.8	2739.9	2646.6	2497.2	2237.5	1997.3	1700.5	1395.5	1077.5	817.8	47.9
38°	2475.6	2446.2	2316.8	2166.4	1951.5	1723.7	1430.0	1171.3	888.9	682.8	36.6
39°	2089.6	2089.1	1965.4	1856.7	1646.4	1441.3	1176.5	950.7	733.8	549.8	28.3
40°	1762.4	1701.6	1625.3	1488.7	1327.4	1153.3	921.4	744.1	569.4	443.2	22.2
42.5°	924.0	918.8	874.0	771.4	681.2	578.7	460.2	383.4	299.9	244.3	13.9
45°	396.8	399.4	368.4	353.0	317.9	275.2	232.4	193.8	165.9	134.5	8.2
47.5°	100.5	96.4	95.3	98.9	98.9	95.8	86.1	80.9	74.7	68.5	4.6
50°	43.3	42.3	41.2	41.2	38.6	37.1	34.5	31.4	28.9	25.8	2.1
52.5°	16.0	16.5	17.0	16.5	16.5	16.0	16.0	15.5	13.9	12.4	1.0
55°	5.2	5.2	5.2	5.7	5.7	6.2	6.2	6.2	6.2	5.7	0.0
57.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	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°	19.6	19.6	19.6	19.6	19.6	19.6
2.5°	22.7	20.1	17.0	14.4	13.9	13.4
5°	25.3	18.6	13.9	11.3	10.3	9.8
7.5°	27.3	17.0	11.3	8.2	7.2	6.7
10°	28.3	14.9	9.3	6.2	4.6	4.6
12.5°	28.9	12.9	6.7	4.1	2.6	2.6
15°	28.3	10.8	5.2	2.1	0.5	0.5
17.5°	25.8	8.8	3.1	0.5	0.0	0.0
20°	22.2	7.2	2.1	0.0	0.0	0.0
21°	21.1	6.2	1.5	0.0	0.0	0.0
22°	19.6	5.7	1.0	0.0	0.0	0.0
23°	18.0	5.2	1.0	0.0	0.0	0.0
24°	16.5	4.6	0.5	0.0	0.0	0.0
25°	15.5	4.1	0.5	0.0	0.0	0.0
26°	14.4	3.6	0.5	0.0	0.0	0.0
27°	12.9	3.1	0.0	0.0	0.0	0.0
28°	11.9	2.6	0.0	0.0	0.0	0.0
29°	10.3	2.1	0.0	0.0	0.0	0.0
30°	8.8	1.5	0.0	0.0	0.0	0.0
31°	7.2	1.5	0.0	0.0	0.0	0.0
32°	6.2	1.0	0.0	0.0	0.0	0.0
33°	5.2	1.0	0.0	0.0	0.0	0.0
34°	4.6	1.0	0.0	0.0	0.0	0.0
35°	4.1	1.0	0.0	0.0	0.0	0.0
36°	3.1	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°	1.5	0.0	0.0	0.0	0.0	0.0
40°	1.5	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	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	0.5	1.5	1.5
55°	0.5	1.0	0.5	1.0	2.1	2.1
57.5°	0.5	1.0	1.0	1.5	2.1	2.6
60°	1.0	1.5	1.5	1.5	2.6	2.6
62.5°	1.0	1.5	2.1	2.1	2.6	3.1
65°	1.0	2.1	2.1	2.1	2.6	3.1
67.5°	1.5	2.1	2.1	2.1	2.6	3.1
70°	1.5	2.1	2.1	2.1	2.6	2.6
72.5°	1.5	2.1	1.5	2.1	2.1	2.6
75°	1.5	2.1	1.5	1.5	2.1	2.1
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)