

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: P1336927

Luminaire Tested: P3A05R209735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336927
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: P3A05R209735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

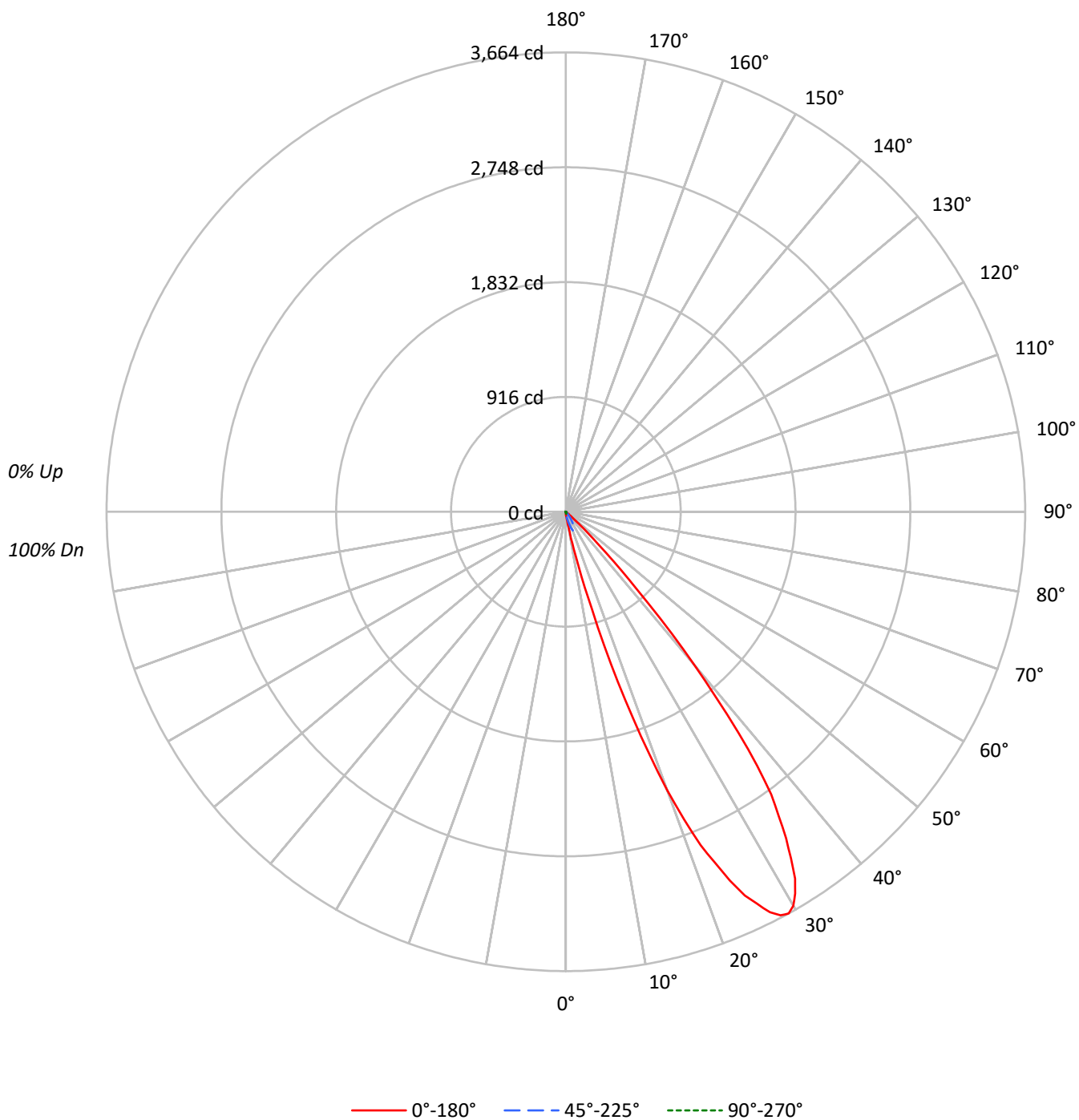
Lumens per Lamp: N/A
Luminaire Lumens: 514.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3881	3881	3881	3881	3881
5°	8937	6670	3698	2267	1959
10°	28145	11623	3006	1247	935
15°	182294	21498	2225	431	114
20°	550178	36777	1517	0	0
25°	817088	37115	895	0	0
30°	918850	28232	354	0	0
35°	792797	16865	241	0	0
40°	456512	5754	0	0	0
45°	111360	2326	155	0	155
50°	13373	648	171	171	478
55°	1797	0	344	344	726
60°	219	0	614	614	1009
65°	259	259	986	986	1453
70°	321	321	1218	1218	1475
75°	0	424	1610	1186	1610
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 112074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	47.6	9.3
20°-30°	207.6	40.4
30°-40°	209.1	40.7
40°-50°	41.9	8.2
50°-60°	2.1	0.4
60°-70°	1.4	0.3
70°-80°	1.2	0.2
80°-90°	0.6	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°	257.6	50.1
0°-40°	466.7	90.8
0°-60°	510.8	99.4
0°-90°	514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	41	30	17	10	9	6
15°	803	95	10	2	0	315
25°	3377	153	4	0	0	1523
35°	2962	63	1	0	0	1762
45°	359	8	0	0	0	391
55°	5	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	1	2	0
85°	0	0	1	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°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	26.6	26.6	26.1	26.1	25.6	26.1	25.2	25.6	25.6	25.2	22.8
5°	40.6	41.5	41.0	41.0	40.6	41.0	40.1	39.2	38.2	38.2	30.3
7.5°	66.7	66.2	65.3	65.8	64.4	63.4	62.5	62.0	59.2	57.8	39.6
10°	126.4	129.2	126.8	126.4	118.0	117.5	111.9	104.0	97.0	93.3	52.2
12.5°	347.9	362.8	339.5	328.3	321.8	296.6	285.9	258.3	231.8	211.7	66.2
15°	803.0	839.8	792.7	796.0	756.8	685.0	622.1	568.0	504.1	439.7	94.7
17.5°	1573.4	1543.5	1517.9	1474.5	1394.8	1289.4	1153.7	1016.1	897.2	772.7	132.0
20°	2357.7	2331.1	2272.8	2178.2	2076.5	1920.3	1759.0	1552.4	1352.3	1164.9	157.6
21°	2627.7	2618.9	2523.3	2465.0	2308.3	2159.1	1973.0	1752.0	1526.7	1304.8	161.8
22°	2868.8	2815.6	2764.3	2678.1	2522.3	2360.0	2153.0	1920.3	1676.0	1429.3	162.3
23°	3035.7	3011.5	2963.0	2865.5	2710.7	2520.0	2301.8	2058.3	1800.9	1517.4	160.9
24°	3220.4	3189.6	3118.7	3005.0	2848.7	2660.4	2411.3	2169.8	1890.0	1591.5	157.1
25°	3377.1	3329.1	3245.1	3122.5	2951.8	2757.3	2506.9	2241.6	1952.0	1641.4	153.4
26°	3478.7	3452.6	3344.9	3211.5	3028.7	2828.2	2572.7	2296.6	1992.1	1664.3	147.4
27°	3584.6	3536.6	3430.7	3277.3	3079.1	2874.4	2610.0	2323.2	2006.1	1665.2	139.9
28°	3645.2	3593.0	3473.2	3311.8	3111.8	2900.0	2631.4	2331.6	2003.3	1650.8	131.0
29°	3664.3	3598.6	3481.5	3317.4	3119.7	2901.9	2628.2	2319.5	1978.6	1615.3	120.8
30°	3628.9	3561.8	3450.8	3290.8	3094.5	2878.6	2597.9	2279.4	1934.8	1564.5	111.5
31°	3551.5	3494.6	3387.3	3226.9	3038.5	2824.0	2529.3	2213.6	1860.1	1496.4	100.7
32°	3449.4	3393.4	3288.0	3143.0	2951.3	2735.0	2435.6	2111.0	1772.5	1394.8	90.0
33°	3295.9	3263.8	3169.1	3030.6	2839.0	2607.7	2309.7	1988.4	1647.5	1281.9	80.7
34°	3140.7	3100.1	3033.9	2882.3	2676.2	2445.4	2145.5	1819.1	1495.0	1155.5	71.8
35°	2961.6	2937.3	2833.4	2712.1	2505.1	2269.1	1971.1	1654.5	1317.4	1014.7	63.0
36°	2788.1	2750.8	2632.4	2504.1	2303.2	2048.1	1753.8	1456.3	1163.9	882.7	53.6
37°	2536.3	2479.4	2395.0	2259.8	2024.8	1807.5	1538.9	1262.8	975.1	740.0	43.4
38°	2240.2	2213.6	2096.6	1960.4	1766.0	1559.8	1294.0	1059.9	804.4	617.9	33.1
39°	1890.9	1890.5	1778.5	1680.2	1489.9	1304.3	1064.6	860.4	664.0	497.6	25.6
40°	1594.8	1539.8	1470.8	1347.2	1201.2	1043.6	833.8	673.4	515.3	401.0	20.1
42.5°	836.1	831.4	790.9	698.1	616.5	523.7	416.4	346.9	271.4	221.0	12.6
45°	359.1	361.4	333.4	319.4	287.7	249.0	210.3	175.3	150.2	121.7	7.5
47.5°	90.9	87.2	86.3	89.5	89.5	86.7	77.9	73.2	67.6	62.0	4.2
50°	39.2	38.2	37.3	37.3	35.0	33.6	31.2	28.4	26.1	23.3	1.9
52.5°	14.5	14.9	15.4	14.9	14.9	14.5	14.5	14.0	12.6	11.2	0.9
55°	4.7	4.7	4.7	5.1	5.1	5.6	5.6	5.6	5.6	5.1	0.0
57.5°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	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°	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	20.5	18.2	15.4	13.1	12.6	12.1
5°	22.8	16.8	12.6	10.3	9.3	8.9
7.5°	24.7	15.4	10.3	7.5	6.5	6.1
10°	25.6	13.5	8.4	5.6	4.2	4.2
12.5°	26.1	11.7	6.1	3.7	2.3	2.3
15°	25.6	9.8	4.7	1.9	0.5	0.5
17.5°	23.3	7.9	2.8	0.5	0.0	0.0
20°	20.1	6.5	1.9	0.0	0.0	0.0
21°	19.1	5.6	1.4	0.0	0.0	0.0
22°	17.7	5.1	0.9	0.0	0.0	0.0
23°	16.3	4.7	0.9	0.0	0.0	0.0
24°	14.9	4.2	0.5	0.0	0.0	0.0
25°	14.0	3.7	0.5	0.0	0.0	0.0
26°	13.1	3.3	0.5	0.0	0.0	0.0
27°	11.7	2.8	0.0	0.0	0.0	0.0
28°	10.7	2.3	0.0	0.0	0.0	0.0
29°	9.3	1.9	0.0	0.0	0.0	0.0
30°	7.9	1.4	0.0	0.0	0.0	0.0
31°	6.5	1.4	0.0	0.0	0.0	0.0
32°	5.6	0.9	0.0	0.0	0.0	0.0
33°	4.7	0.9	0.0	0.0	0.0	0.0
34°	4.2	0.9	0.0	0.0	0.0	0.0
35°	3.7	0.9	0.0	0.0	0.0	0.0
36°	2.8	0.5	0.0	0.0	0.0	0.0
37°	2.3	0.5	0.0	0.0	0.0	0.0
38°	1.9	0.5	0.0	0.0	0.0	0.0
39°	1.4	0.0	0.0	0.0	0.0	0.0
40°	1.4	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	0.9
50°	0.0	0.5	0.5	0.5	0.9	1.4
52.5°	0.0	0.9	0.5	0.5	1.4	1.4
55°	0.5	0.9	0.5	0.9	1.9	1.9
57.5°	0.5	0.9	0.9	1.4	1.9	2.3
60°	0.9	1.4	1.4	1.4	2.3	2.3
62.5°	0.9	1.4	1.9	1.9	2.3	2.8
65°	0.9	1.9	1.9	1.9	2.3	2.8
67.5°	1.4	1.9	1.9	1.9	2.3	2.8
70°	1.4	1.9	1.9	1.9	2.3	2.3
72.5°	1.4	1.9	1.4	1.9	1.9	2.3
75°	1.4	1.9	1.4	1.4	1.9	1.9
77.5°	0.9	1.4	1.4	0.9	1.4	1.4
80°	0.9	1.4	0.9	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.4	0.9	0.5	0.9	0.9
85°	0.9	1.4	0.9	0.5	0.5	0.5
87.5°	0.9	1.4	0.9	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)