

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: P1336793

Luminaire Tested: P3A05R209024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336793
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: P3A05R209024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

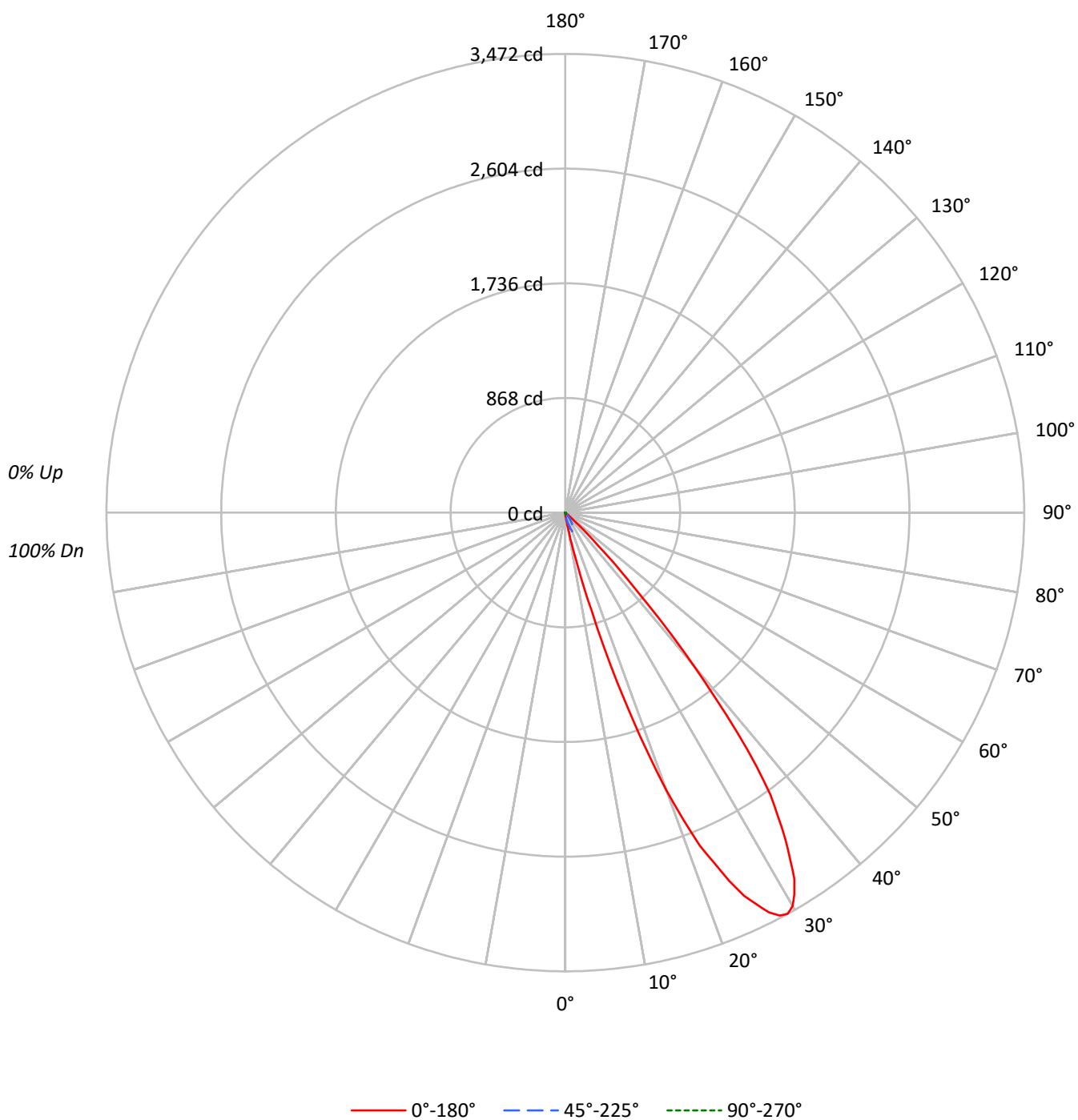
Lumens per Lamp: N/A
Luminaire Lumens: 487.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3684	3684	3684	3684	3684
5°	8453	6317	3500	2135	1849
10°	26653	11022	2850	1180	891
15°	172714	20363	2111	409	91
20°	521289	34840	1447	0	0
25°	774166	35179	847	0	0
30°	870590	26738	329	0	0
35°	751145	15954	241	0	0
40°	432525	5439	0	0	0
45°	105499	2202	124	0	124
50°	12656	614	136	136	443
55°	1682	0	344	344	688
60°	175	0	570	570	965
65°	208	208	934	934	1401
70°	256	256	1154	1154	1410
75°	0	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 106182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	45.1	9.3
20°-30°	196.7	40.4
30°-40°	198.1	40.7
40°-50°	39.7	8.2
50°-60°	2.0	0.4
60°-70°	1.3	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°	244.1	50.1
0°-40°	442.2	90.8
0°-60°	483.9	99.4
0°-90°	487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	487.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	38	29	16	10	8	6
15°	761	90	9	2	0	298
25°	3200	145	4	0	0	1443
35°	2806	60	1	0	0	1670
45°	340	7	0	0	0	370
55°	4	0	1	1	2	8
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°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	25.2	25.2	24.7	24.7	24.3	24.7	23.9	24.3	24.3	23.9	21.6
5°	38.4	39.3	38.9	38.9	38.4	38.9	38.0	37.1	36.2	36.2	28.7
7.5°	63.2	62.7	61.9	62.3	61.0	60.1	59.2	58.8	56.1	54.8	37.6
10°	119.7	122.4	120.2	119.7	111.8	111.3	106.0	98.5	91.9	88.4	49.5
12.5°	329.6	343.7	321.6	311.0	304.9	281.0	270.8	244.8	219.6	200.6	62.7
15°	760.8	795.7	751.1	754.2	717.1	649.0	589.4	538.1	477.6	416.6	89.7
17.5°	1490.7	1462.4	1438.1	1397.0	1321.5	1221.6	1093.1	962.7	850.1	732.1	125.0
20°	2233.9	2208.7	2153.5	2063.8	1967.4	1819.4	1666.6	1470.8	1281.3	1103.7	149.3
21°	2489.7	2481.3	2390.7	2335.5	2187.0	2045.6	1869.4	1659.9	1446.5	1236.2	153.3
22°	2718.1	2667.7	2619.1	2537.4	2389.8	2236.1	2039.9	1819.4	1587.9	1354.2	153.8
23°	2876.3	2853.3	2807.4	2715.0	2568.3	2387.6	2180.8	1950.2	1706.3	1437.7	152.4
24°	3051.2	3022.1	2954.9	2847.1	2699.1	2520.6	2284.7	2055.8	1790.7	1507.9	148.9
25°	3199.7	3154.2	3074.7	2958.5	2796.7	2612.5	2375.2	2123.8	1849.5	1555.2	145.4
26°	3296.0	3271.3	3169.2	3042.8	2869.6	2679.7	2437.5	2176.0	1887.5	1576.9	139.6
27°	3396.3	3350.8	3250.5	3105.1	2917.4	2723.4	2472.9	2201.2	1900.7	1577.8	132.5
28°	3453.7	3404.3	3290.7	3137.8	2948.3	2747.7	2493.2	2209.1	1898.1	1564.1	124.2
29°	3471.9	3409.6	3298.7	3143.1	2955.8	2749.5	2490.1	2197.6	1874.7	1530.5	114.4
30°	3438.3	3374.7	3269.5	3118.0	2931.9	2727.4	2461.4	2159.6	1833.1	1482.3	105.6
31°	3364.9	3311.0	3209.4	3057.4	2878.9	2675.7	2396.5	2097.3	1762.4	1417.8	95.4
32°	3268.2	3215.2	3115.3	2977.9	2796.3	2591.3	2307.6	2000.1	1679.4	1321.5	85.3
33°	3122.8	3092.3	3002.6	2871.4	2689.8	2470.7	2188.4	1883.9	1561.0	1214.6	76.4
34°	2975.7	2937.2	2874.5	2730.9	2535.6	2316.9	2032.8	1723.6	1416.5	1094.8	68.0
35°	2806.0	2783.1	2684.5	2569.7	2373.5	2149.9	1867.6	1567.6	1248.2	961.4	59.6
36°	2641.7	2606.3	2494.1	2372.6	2182.2	1940.5	1661.7	1379.8	1102.8	836.4	50.8
37°	2403.1	2349.2	2269.2	2141.1	1918.4	1712.5	1458.0	1196.5	923.9	701.2	41.1
38°	2122.5	2097.3	1986.4	1857.4	1673.2	1477.9	1226.1	1004.3	762.1	585.4	31.4
39°	1791.6	1791.2	1685.1	1591.9	1411.6	1235.8	1008.7	815.2	629.2	471.4	24.3
40°	1511.0	1458.9	1393.5	1276.4	1138.1	988.8	790.0	638.0	488.2	380.0	19.0
42.5°	792.2	787.8	749.3	661.4	584.1	496.2	394.5	328.7	257.1	209.4	11.9
45°	340.2	342.4	315.9	302.6	272.6	235.9	199.3	166.1	142.3	115.3	7.1
47.5°	86.2	82.6	81.7	84.8	84.8	82.2	73.8	69.4	64.1	58.8	4.0
50°	37.1	36.2	35.3	35.3	33.1	31.8	29.6	27.0	24.7	22.1	1.8
52.5°	13.7	14.1	14.6	14.1	14.1	13.7	13.7	13.3	11.9	10.6	0.9
55°	4.4	4.4	4.4	4.9	4.9	5.3	5.3	5.3	5.3	4.9	0.0
57.5°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	19.4	17.2	14.6	12.4	11.9	11.5
5°	21.6	15.9	11.9	9.7	8.8	8.4
7.5°	23.4	14.6	9.7	7.1	6.2	5.7
10°	24.3	12.8	8.0	5.3	4.0	4.0
12.5°	24.7	11.0	5.7	3.5	2.2	2.2
15°	24.3	9.3	4.4	1.8	0.4	0.4
17.5°	22.1	7.5	2.7	0.4	0.0	0.0
20°	19.0	6.2	1.8	0.0	0.0	0.0
21°	18.1	5.3	1.3	0.0	0.0	0.0
22°	16.8	4.9	0.9	0.0	0.0	0.0
23°	15.5	4.4	0.9	0.0	0.0	0.0
24°	14.1	4.0	0.4	0.0	0.0	0.0
25°	13.3	3.5	0.4	0.0	0.0	0.0
26°	12.4	3.1	0.4	0.0	0.0	0.0
27°	11.0	2.7	0.0	0.0	0.0	0.0
28°	10.2	2.2	0.0	0.0	0.0	0.0
29°	8.8	1.8	0.0	0.0	0.0	0.0
30°	7.5	1.3	0.0	0.0	0.0	0.0
31°	6.2	1.3	0.0	0.0	0.0	0.0
32°	5.3	0.9	0.0	0.0	0.0	0.0
33°	4.4	0.9	0.0	0.0	0.0	0.0
34°	4.0	0.9	0.0	0.0	0.0	0.0
35°	3.5	0.9	0.0	0.0	0.0	0.0
36°	2.7	0.4	0.0	0.0	0.0	0.0
37°	2.2	0.4	0.0	0.0	0.0	0.0
38°	1.8	0.4	0.0	0.0	0.0	0.0
39°	1.3	0.0	0.0	0.0	0.0	0.0
40°	1.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.4	1.3	1.3
55°	0.4	0.9	0.4	0.9	1.8	1.8
57.5°	0.4	0.9	0.9	1.3	1.8	2.2
60°	0.9	1.3	1.3	1.3	2.2	2.2
62.5°	0.9	1.3	1.8	1.8	2.2	2.7
65°	0.9	1.8	1.8	1.8	2.2	2.7
67.5°	1.3	1.8	1.8	1.8	2.2	2.7
70°	1.3	1.8	1.8	1.8	2.2	2.2
72.5°	1.3	1.8	1.3	1.8	1.8	2.2
75°	1.3	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.9	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)