

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: P1336807

Luminaire Tested: P3A05R209027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336807
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: P3A05R209027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

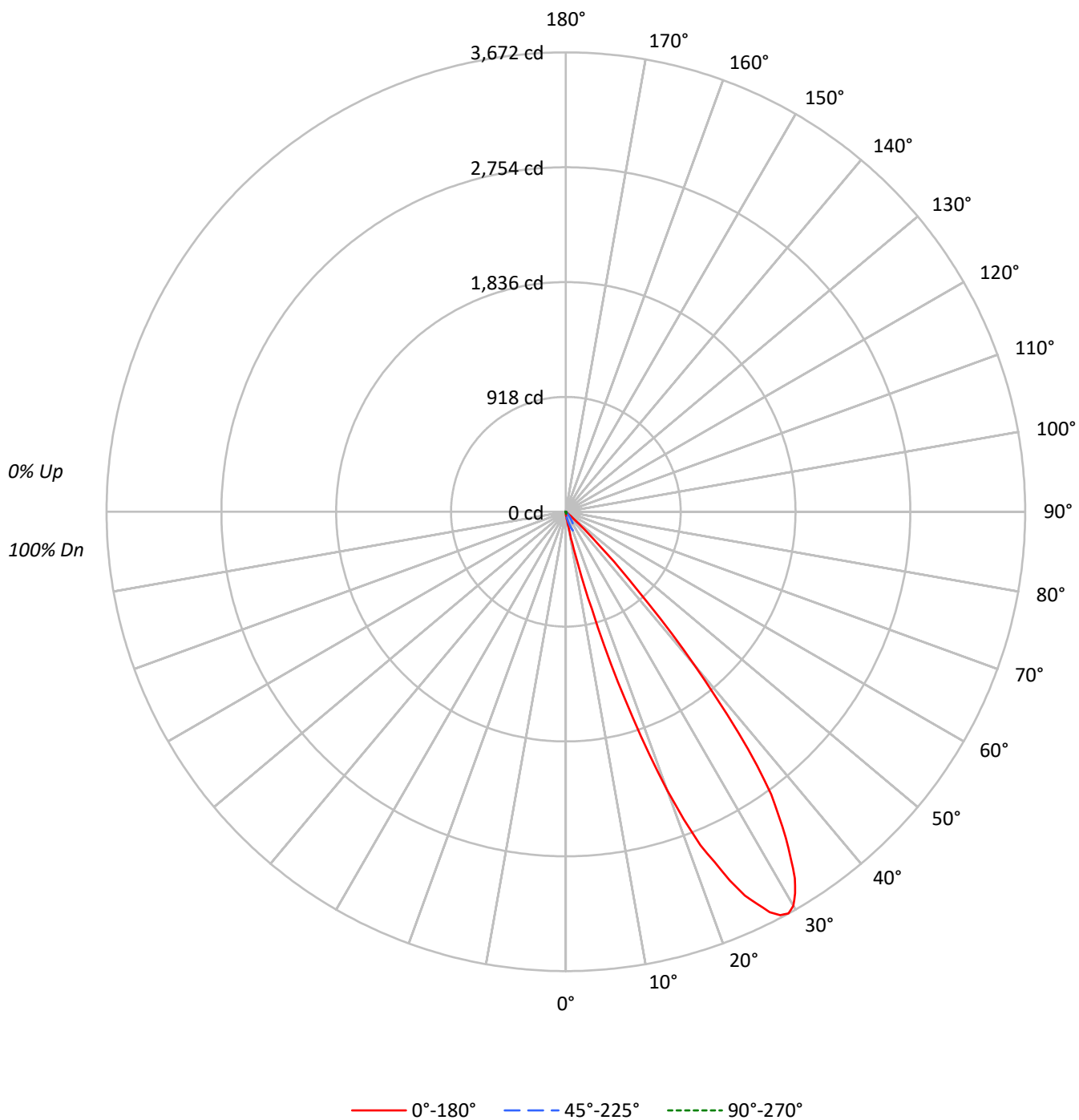
Lumens per Lamp: N/A
Luminaire Lumens: 515.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3903	3903	3903	3903	3903
5°	8937	6692	3698	2267	1959
10°	28189	11645	3006	1247	935
15°	182657	21521	2225	431	114
20°	551251	36847	1517	0	0
25°	818684	37188	895	0	0
30°	920648	28283	354	0	0
35°	794350	16891	241	0	0
40°	457400	5754	0	0	0
45°	111577	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: 112291 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	47.7	9.3
20°-30°	208.0	40.4
30°-40°	209.5	40.7
40°-50°	42.0	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°	258.1	50.1
0°-40°	467.6	90.8
0°-60°	511.8	99.4
0°-90°	515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	515.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	41	30	17	10	9	6
15°	805	95	10	2	0	315
25°	3384	154	4	0	0	1526
35°	2967	63	1	0	0	1766
45°	360	8	0	0	0	392
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°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
2.5°	26.6	26.6	26.2	26.2	25.7	26.2	25.2	25.7	25.7	25.2	22.9
5°	40.6	41.6	41.1	41.1	40.6	41.1	40.2	39.2	38.3	38.3	30.4
7.5°	66.8	66.3	65.4	65.9	64.5	63.5	62.6	62.1	59.3	57.9	39.7
10°	126.6	129.4	127.1	126.6	118.2	117.7	112.1	104.2	97.2	93.4	52.3
12.5°	348.6	363.5	340.1	328.9	322.4	297.2	286.4	258.8	232.2	212.1	66.3
15°	804.6	841.5	794.3	797.6	758.3	686.4	623.3	569.1	505.1	440.6	94.8
17.5°	1576.4	1546.5	1520.8	1477.4	1397.5	1291.9	1155.9	1018.1	898.9	774.2	132.2
20°	2362.3	2335.7	2277.3	2182.4	2080.6	1924.0	1762.4	1555.4	1355.0	1167.1	157.9
21°	2632.8	2623.9	2528.2	2469.8	2312.8	2163.3	1976.8	1755.4	1529.7	1307.3	162.1
22°	2874.4	2821.1	2769.7	2683.3	2527.2	2364.6	2157.2	1924.0	1679.2	1432.1	162.6
23°	3041.6	3017.4	2968.8	2871.1	2716.0	2524.9	2306.2	2062.3	1804.4	1520.4	161.2
24°	3226.7	3195.8	3124.8	3010.8	2854.3	2665.5	2416.0	2174.0	1893.7	1594.6	157.5
25°	3383.7	3335.5	3251.4	3128.6	2957.5	2762.7	2511.8	2246.0	1955.8	1644.6	153.7
26°	3485.5	3459.3	3351.4	3217.8	3034.6	2833.7	2577.7	2301.1	1996.0	1667.5	147.6
27°	3591.6	3543.4	3437.4	3283.7	3085.1	2880.0	2615.1	2327.7	2010.0	1668.5	140.2
28°	3652.3	3600.0	3479.9	3318.2	3117.8	2905.7	2636.6	2336.1	2007.2	1654.0	131.3
29°	3671.5	3605.6	3488.3	3323.9	3125.7	2907.6	2633.3	2324.0	1982.4	1618.5	121.0
30°	3636.0	3568.7	3457.5	3297.2	3100.5	2884.2	2602.9	2283.8	1938.5	1567.5	111.7
31°	3558.4	3501.4	3393.9	3233.2	3044.5	2829.5	2534.2	2217.9	1863.8	1499.3	100.9
32°	3456.1	3400.0	3294.4	3149.1	2957.1	2740.3	2440.3	2115.1	1775.9	1397.5	90.2
33°	3302.4	3270.1	3175.3	3036.5	2844.5	2612.7	2314.2	1992.3	1650.7	1284.4	80.8
34°	3146.8	3106.1	3039.8	2887.9	2681.4	2450.1	2149.7	1822.7	1497.9	1157.8	72.0
35°	2967.4	2943.1	2838.9	2717.4	2509.9	2273.5	1975.0	1657.7	1319.9	1016.7	63.1
36°	2793.6	2756.2	2637.5	2509.0	2307.6	2052.1	1757.2	1459.2	1166.2	884.5	53.7
37°	2541.2	2484.2	2399.7	2264.2	2028.7	1811.0	1541.8	1265.3	977.0	741.5	43.5
38°	2244.6	2217.9	2100.7	1964.2	1769.4	1562.9	1296.6	1062.0	806.0	619.1	33.2
39°	1894.6	1894.1	1782.0	1683.4	1492.8	1306.8	1066.7	862.0	665.3	498.5	25.7
40°	1597.9	1542.8	1473.6	1349.8	1203.6	1045.7	835.4	674.7	516.3	401.8	20.1
42.5°	837.7	833.1	792.4	699.4	617.7	524.7	417.2	347.6	271.9	221.5	12.6
45°	359.8	362.1	334.1	320.1	288.3	249.5	210.7	175.7	150.4	121.9	7.5
47.5°	91.1	87.4	86.4	89.7	89.7	86.9	78.0	73.4	67.7	62.1	4.2
50°	39.2	38.3	37.4	37.4	35.0	33.6	31.3	28.5	26.2	23.4	1.9
52.5°	14.5	15.0	15.4	15.0	15.0	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°	17.8	17.8	17.8	17.8	17.8	17.8
2.5°	20.6	18.2	15.4	13.1	12.6	12.1
5°	22.9	16.8	12.6	10.3	9.3	8.9
7.5°	24.8	15.4	10.3	7.5	6.5	6.1
10°	25.7	13.5	8.4	5.6	4.2	4.2
12.5°	26.2	11.7	6.1	3.7	2.3	2.3
15°	25.7	9.8	4.7	1.9	0.5	0.5
17.5°	23.4	7.9	2.8	0.5	0.0	0.0
20°	20.1	6.5	1.9	0.0	0.0	0.0
21°	19.2	5.6	1.4	0.0	0.0	0.0
22°	17.8	5.1	0.9	0.0	0.0	0.0
23°	16.4	4.7	0.9	0.0	0.0	0.0
24°	15.0	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)