

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: P1344099

Luminaire Tested: P3A13R209840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344099
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: P3A13R209840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

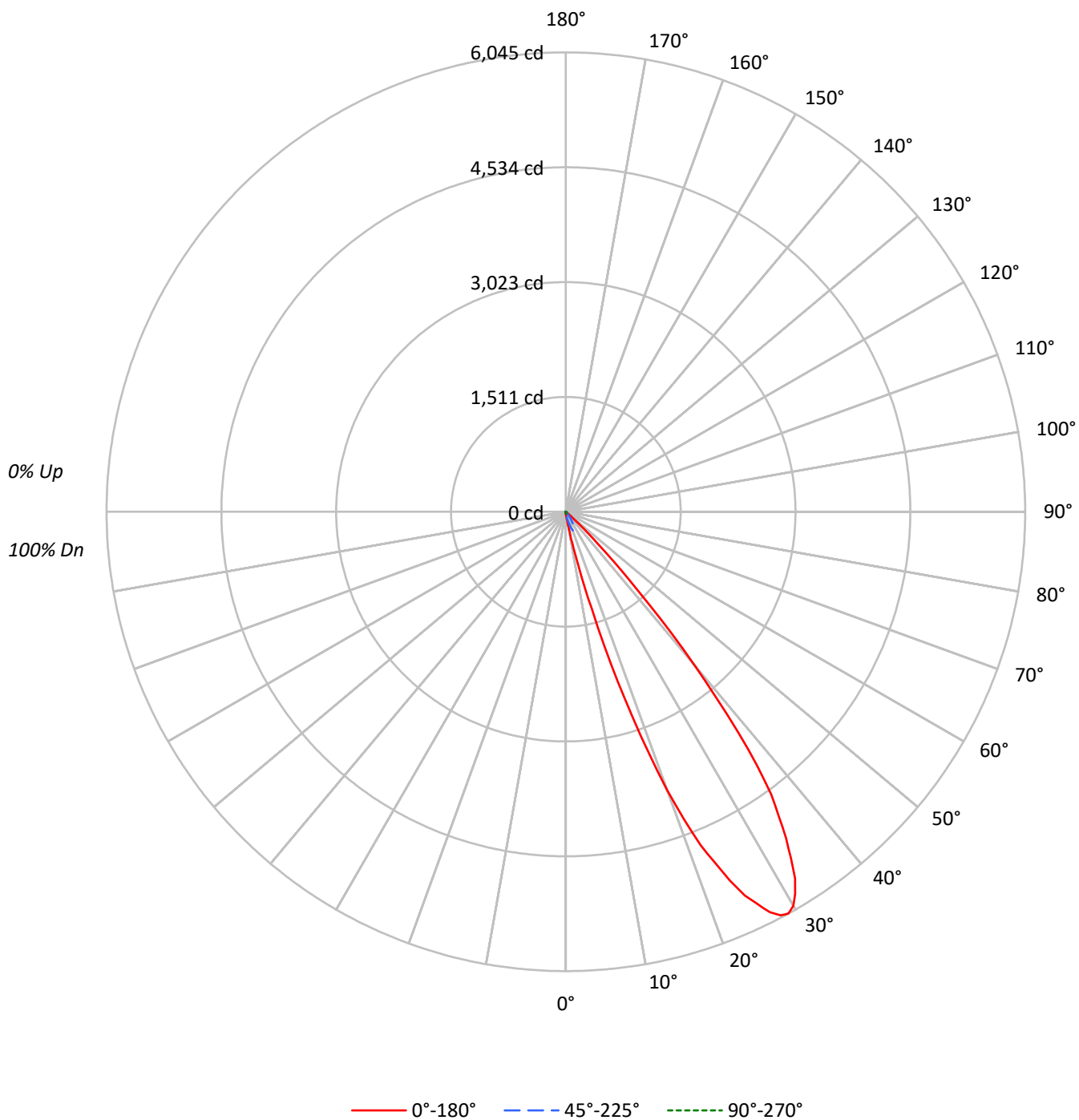
Lumens per Lamp: N/A
Luminaire Lumens: 848.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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°	6403	6403	6403	6403	6403
5°	14726	11006	6097	3720	3214
10°	46425	19194	4965	2049	1536
15°	300751	35460	3678	704	182
20°	907699	60672	2520	0	0
25°	1348021	61237	1500	0	0
30°	1515929	46564	582	0	0
35°	1307971	27813	402	0	0
40°	753154	9475	0	0	0
45°	183709	3814	248	0	248
50°	22038	1058	273	273	785
55°	2944	0	573	573	1185
60°	351	0	1009	1009	1667
65°	415	415	1608	1608	2387
70°	513	513	1988	1988	2436
75°	0	678	2626	1949	2626
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 184887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	78.6	9.3
20°-30°	342.5	40.4
30°-40°	345.0	40.7
40°-50°	69.2	8.2
50°-60°	3.5	0.4
60°-70°	2.3	0.3
70°-80°	2.0	0.2
80°-90°	1.0	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°	425.0	50.1
0°-40°	770.0	90.8
0°-60°	842.7	99.4
0°-90°	848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	67	50	28	17	15	10
15°	1325	156	16	3	1	519
25°	5572	253	6	0	0	2512
35°	4886	104	2	0	0	2907
45°	592	12	1	0	1	645
55°	8	0	2	2	3	14
65°	1	1	3	3	5	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	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°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	43.9	43.9	43.1	43.1	42.3	43.1	41.5	42.3	42.3	41.5	37.7
5°	66.9	68.5	67.7	67.7	66.9	67.7	66.2	64.6	63.1	63.1	50.0
7.5°	110.0	109.2	107.7	108.5	106.2	104.6	103.1	102.3	97.7	95.4	65.4
10°	208.5	213.1	209.3	208.5	194.6	193.9	184.6	171.6	160.0	153.9	86.2
12.5°	573.9	598.5	560.1	541.6	530.8	489.3	471.6	426.2	382.4	349.3	109.2
15°	1324.8	1385.6	1307.9	1313.3	1248.6	1130.2	1026.3	937.1	831.7	725.5	156.2
17.5°	2595.7	2546.5	2504.2	2432.6	2301.1	2127.2	1903.3	1676.4	1480.2	1274.8	217.7
20°	3889.8	3845.9	3749.7	3593.6	3425.9	3168.1	2901.9	2561.1	2231.1	1921.8	260.0
21°	4335.2	4320.6	4162.9	4066.7	3808.2	3562.0	3255.1	2890.4	2518.8	2152.6	267.0
22°	4733.0	4645.3	4560.6	4418.3	4161.3	3893.6	3552.0	3168.1	2765.0	2358.0	267.7
23°	5008.4	4968.4	4888.4	4727.6	4472.2	4157.5	3797.4	3395.9	2971.2	2503.4	265.4
24°	5313.0	5262.3	5145.3	4957.6	4699.9	4389.1	3978.2	3579.7	3118.1	2625.7	259.3
25°	5571.5	5492.3	5353.8	5151.5	4869.9	4549.1	4136.0	3698.2	3220.4	2708.1	253.1
26°	5739.3	5696.2	5518.5	5298.4	4996.8	4666.0	4244.4	3789.0	3286.6	2745.8	243.1
27°	5913.9	5834.7	5660.0	5406.9	5079.9	4742.2	4306.0	3832.8	3309.7	2747.3	230.8
28°	6013.9	5927.7	5730.0	5463.8	5133.8	4784.5	4341.4	3846.7	3305.1	2723.5	216.2
29°	6045.4	5937.0	5743.9	5473.1	5146.9	4787.6	4336.0	3826.7	3264.3	2665.0	199.3
30°	5987.0	5876.2	5693.1	5429.2	5105.3	4749.1	4286.0	3760.5	3192.0	2581.1	183.9
31°	5859.3	5765.4	5588.5	5323.8	5013.0	4659.1	4172.9	3652.0	3068.9	2468.8	166.2
32°	5690.8	5598.5	5424.6	5185.3	4869.1	4512.2	4018.2	3482.8	2924.2	2301.1	148.5
33°	5437.7	5384.6	5228.4	4999.9	4683.7	4302.1	3810.5	3280.5	2718.1	2114.9	133.1
34°	5181.5	5114.6	5005.3	4755.3	4415.2	4034.4	3539.7	3001.2	2466.5	1906.4	118.5
35°	4886.1	4846.1	4674.5	4474.5	4132.9	3743.6	3252.0	2729.6	2173.4	1674.1	103.9
36°	4599.9	4538.3	4342.9	4131.3	3799.8	3378.9	2893.5	2402.6	1920.3	1456.4	88.5
37°	4184.4	4090.6	3951.3	3728.2	3340.5	2982.0	2538.8	2083.4	1608.7	1220.9	71.5
38°	3695.9	3652.0	3458.9	3234.3	2913.5	2573.4	2134.9	1748.7	1327.1	1019.4	54.6
39°	3119.7	3118.9	2934.3	2771.9	2458.0	2151.8	1756.4	1419.4	1095.5	820.9	42.3
40°	2631.1	2540.4	2426.5	2222.6	1981.8	1721.8	1375.6	1110.9	850.1	661.6	33.1
42.5°	1379.4	1371.7	1304.8	1151.7	1017.1	864.0	687.0	572.4	447.8	364.7	20.8
45°	592.4	596.2	550.1	527.0	474.7	410.8	347.0	289.3	247.7	200.8	12.3
47.5°	150.0	143.9	142.3	147.7	147.7	143.1	128.5	120.8	111.6	102.3	6.9
50°	64.6	63.1	61.5	61.5	57.7	55.4	51.5	46.9	43.1	38.5	3.1
52.5°	23.8	24.6	25.4	24.6	24.6	23.8	23.8	23.1	20.8	18.5	1.5
55°	7.7	7.7	7.7	8.5	8.5	9.2	9.2	9.2	9.2	8.5	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	33.9	30.0	25.4	21.5	20.8	20.0
5°	37.7	27.7	20.8	16.9	15.4	14.6
7.5°	40.8	25.4	16.9	12.3	10.8	10.0
10°	42.3	22.3	13.8	9.2	6.9	6.9
12.5°	43.1	19.2	10.0	6.2	3.8	3.8
15°	42.3	16.2	7.7	3.1	0.8	0.8
17.5°	38.5	13.1	4.6	0.8	0.0	0.0
20°	33.1	10.8	3.1	0.0	0.0	0.0
21°	31.5	9.2	2.3	0.0	0.0	0.0
22°	29.2	8.5	1.5	0.0	0.0	0.0
23°	26.9	7.7	1.5	0.0	0.0	0.0
24°	24.6	6.9	0.8	0.0	0.0	0.0
25°	23.1	6.2	0.8	0.0	0.0	0.0
26°	21.5	5.4	0.8	0.0	0.0	0.0
27°	19.2	4.6	0.0	0.0	0.0	0.0
28°	17.7	3.8	0.0	0.0	0.0	0.0
29°	15.4	3.1	0.0	0.0	0.0	0.0
30°	13.1	2.3	0.0	0.0	0.0	0.0
31°	10.8	2.3	0.0	0.0	0.0	0.0
32°	9.2	1.5	0.0	0.0	0.0	0.0
33°	7.7	1.5	0.0	0.0	0.0	0.0
34°	6.9	1.5	0.0	0.0	0.0	0.0
35°	6.2	1.5	0.0	0.0	0.0	0.0
36°	4.6	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.1	0.8	0.0	0.0	0.0	0.0
39°	2.3	0.0	0.0	0.0	0.0	0.0
40°	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	0.8	2.3	2.3
55°	0.8	1.5	0.8	1.5	3.1	3.1
57.5°	0.8	1.5	1.5	2.3	3.1	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.1	3.1	3.8	4.6
65°	1.5	3.1	3.1	3.1	3.8	4.6
67.5°	2.3	3.1	3.1	3.1	3.8	4.6
70°	2.3	3.1	3.1	3.1	3.8	3.8
72.5°	2.3	3.1	2.3	3.1	3.1	3.8
75°	2.3	3.1	2.3	2.3	3.1	3.1
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	1.5	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)