

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: P1343971

Luminaire Tested: P3A13R209050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343971
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: P3A13R209050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

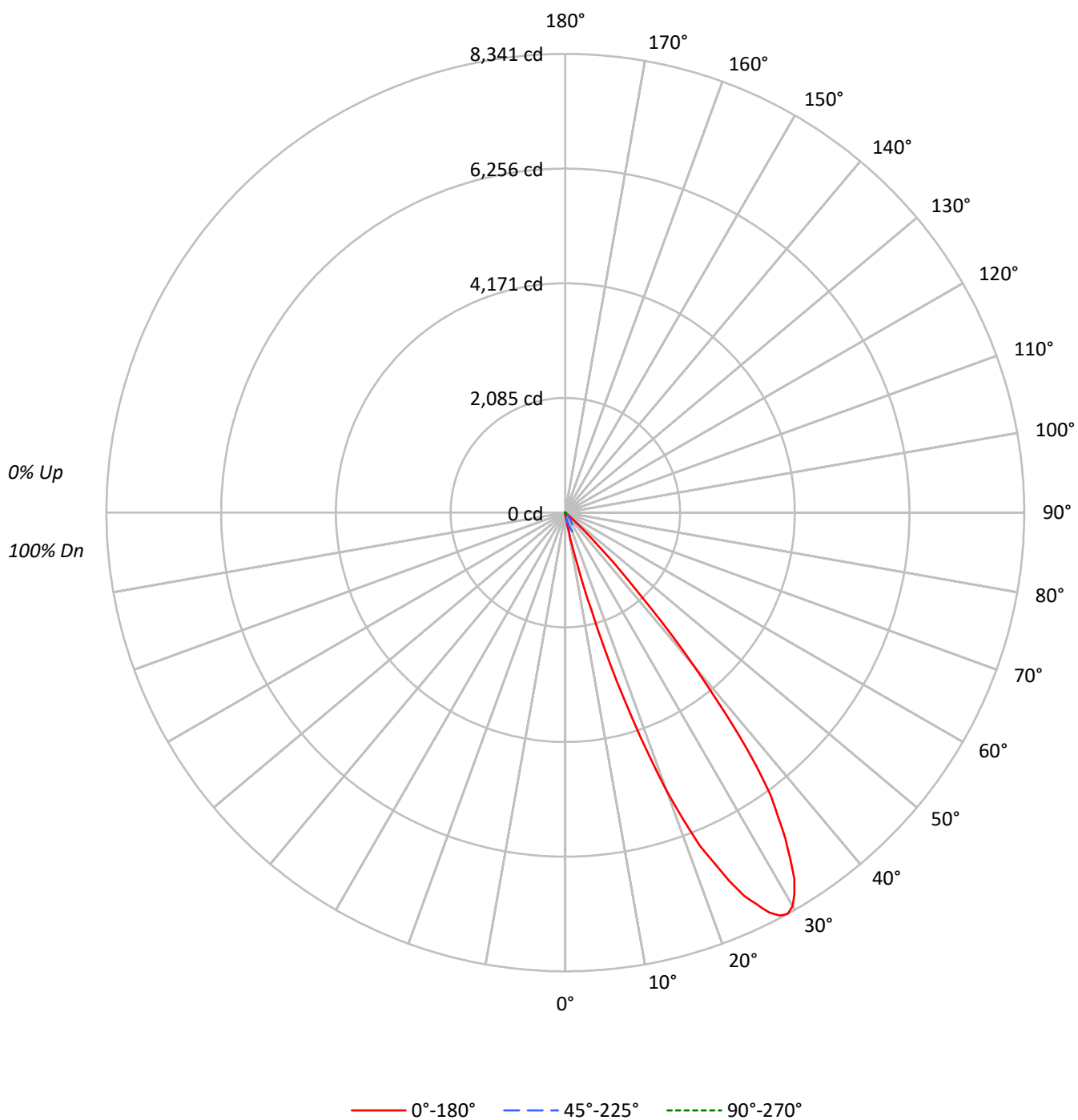
Lumens per Lamp: N/A
Luminaire Lumens: 1170.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	8837	8837	8837	8837	8837
5°	20317	15188	8409	5151	4446
10°	64060	26475	6858	2828	2138
15°	414940	48922	5062	953	250
20°	1252362	83727	3477	0	0
25°	1859890	84489	2057	0	0
30°	2091537	64238	810	0	0
35°	1804621	38360	562	0	0
40°	1039147	13053	0	0	0
45°	253453	5272	341	0	341
50°	30430	1433	375	375	1092
55°	4052	0	803	803	1606
60°	482	0	1403	1403	2324
65°	571	571	2179	2179	3321
70°	705	705	2693	2693	3398
75°	0	932	3558	2711	3558
80°	0	1389	4041	2652	4041
85°	0	2768	8051	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 255096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.5
10°-20°	108.4	9.3
20°-30°	472.6	40.4
30°-40°	475.9	40.7
40°-50°	95.5	8.2
50°-60°	4.8	0.4
60°-70°	3.2	0.3
70°-80°	2.8	0.2
80°-90°	1.4	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°	586.4	50.1
0°-40°	1062.4	90.8
0°-60°	1162.6	99.4
0°-90°	1170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	92	69	38	23	20	14
15°	1828	216	22	4	1	716
25°	7687	349	8	0	0	3466
35°	6741	143	2	0	0	4011
45°	817	17	1	0	1	890
55°	11	0	2	2	4	20
65°	1	1	4	4	6	1
75°	0	1	4	3	4	0
85°	0	1	3	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°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	60.5	60.5	59.4	59.4	58.4	59.4	57.3	58.4	58.4	57.3	52.0
5°	92.3	94.5	93.4	93.4	92.3	93.4	91.3	89.2	87.0	87.0	69.0
7.5°	151.8	150.7	148.6	149.7	146.5	144.4	142.2	141.2	134.8	131.6	90.2
10°	287.7	294.0	288.7	287.7	268.6	267.5	254.8	236.7	220.8	212.3	118.9
12.5°	791.9	825.8	772.7	747.3	732.4	675.1	650.7	588.1	527.5	481.9	150.7
15°	1827.8	1911.7	1804.5	1811.9	1722.8	1559.3	1416.0	1292.9	1147.4	1001.0	215.5
17.5°	3581.4	3513.5	3455.1	3356.4	3174.8	2935.0	2626.1	2312.9	2042.3	1758.9	300.4
20°	5366.8	5306.3	5173.6	4958.1	4726.7	4371.1	4003.9	3533.6	3078.3	2651.5	358.8
21°	5981.4	5961.2	5743.6	5610.9	5254.3	4914.6	4491.1	3987.9	3475.2	2970.0	368.3
22°	6530.1	6409.1	6292.4	6096.0	5741.5	5372.1	4900.8	4371.1	3814.9	3253.4	369.4
23°	6910.2	6855.0	6744.6	6522.7	6170.3	5736.2	5239.4	4685.3	4099.4	3454.0	366.2
24°	7330.5	7260.4	7099.1	6840.1	6484.5	6055.7	5488.8	4939.0	4302.1	3622.8	357.7
25°	7687.1	7577.8	7386.8	7107.6	6719.1	6276.5	5706.4	5102.5	4443.3	3736.4	349.2
26°	7918.5	7859.1	7613.9	7310.3	6894.2	6437.8	5856.1	5227.7	4534.6	3788.4	335.4
27°	8159.5	8050.2	7809.2	7460.0	7008.9	6542.9	5941.0	5288.2	4566.4	3790.5	318.4
28°	8297.5	8178.6	7905.8	7538.5	7083.2	6601.3	5989.9	5307.3	4560.1	3757.6	298.3
29°	8341.0	8191.3	7924.9	7551.3	7101.2	6605.5	5982.4	5279.7	4503.8	3676.9	274.9
30°	8260.3	8107.5	7854.9	7490.8	7043.9	6552.4	5913.4	5188.5	4404.0	3561.2	253.7
31°	8084.1	7954.6	7710.5	7345.4	6916.5	6428.2	5757.4	5038.8	4234.2	3406.2	229.3
32°	7851.7	7724.3	7484.4	7154.3	6718.0	6225.5	5544.0	4805.3	4034.6	3174.8	204.9
33°	7502.5	7429.2	7213.7	6898.5	6462.2	5935.7	5257.4	4526.1	3750.2	2918.0	183.6
34°	7149.0	7056.6	6905.9	6560.9	6091.8	5566.3	4883.8	4140.8	3403.1	2630.3	163.5
35°	6741.4	6686.2	6449.5	6173.5	5702.2	5165.1	4486.8	3766.1	2998.6	2309.8	143.3
36°	6346.5	6261.6	5992.0	5700.1	5242.6	4662.0	3992.2	3315.0	2649.4	2009.4	122.1
37°	5773.3	5643.8	5451.7	5143.9	4608.9	4114.2	3502.8	2874.5	2219.5	1684.5	98.7
38°	5099.3	5038.8	4772.4	4462.4	4019.8	3550.6	2945.6	2412.7	1831.0	1406.4	75.4
39°	4304.2	4303.2	4048.4	3824.5	3391.4	2968.9	2423.3	1958.4	1511.5	1132.6	58.4
40°	3630.2	3505.0	3347.9	3066.6	2734.3	2375.6	1897.9	1532.8	1172.9	912.9	45.6
42.5°	1903.2	1892.6	1800.2	1589.0	1403.3	1192.0	947.9	789.7	617.8	503.1	28.7
45°	817.3	822.6	758.9	727.1	654.9	566.8	478.7	399.1	341.8	277.0	17.0
47.5°	207.0	198.5	196.4	203.8	203.8	197.4	177.3	166.7	153.9	141.2	9.6
50°	89.2	87.0	84.9	84.9	79.6	76.4	71.1	64.7	59.4	53.1	4.2
52.5°	32.9	34.0	35.0	34.0	34.0	32.9	32.9	31.8	28.7	25.5	2.1
55°	10.6	10.6	10.6	11.7	11.7	12.7	12.7	12.7	12.7	11.7	0.0
57.5°	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	0.0
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	1.1	0.0	1.1	1.1	0.0	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	46.7	41.4	35.0	29.7	28.7	27.6
5°	52.0	38.2	28.7	23.4	21.2	20.2
7.5°	56.3	35.0	23.4	17.0	14.9	13.8
10°	58.4	30.8	19.1	12.7	9.6	9.6
12.5°	59.4	26.5	13.8	8.5	5.3	5.3
15°	58.4	22.3	10.6	4.2	1.1	1.1
17.5°	53.1	18.0	6.4	1.1	0.0	0.0
20°	45.6	14.9	4.2	0.0	0.0	0.0
21°	43.5	12.7	3.2	0.0	0.0	0.0
22°	40.3	11.7	2.1	0.0	0.0	0.0
23°	37.2	10.6	2.1	0.0	0.0	0.0
24°	34.0	9.6	1.1	0.0	0.0	0.0
25°	31.8	8.5	1.1	0.0	0.0	0.0
26°	29.7	7.4	1.1	0.0	0.0	0.0
27°	26.5	6.4	0.0	0.0	0.0	0.0
28°	24.4	5.3	0.0	0.0	0.0	0.0
29°	21.2	4.2	0.0	0.0	0.0	0.0
30°	18.0	3.2	0.0	0.0	0.0	0.0
31°	14.9	3.2	0.0	0.0	0.0	0.0
32°	12.7	2.1	0.0	0.0	0.0	0.0
33°	10.6	2.1	0.0	0.0	0.0	0.0
34°	9.6	2.1	0.0	0.0	0.0	0.0
35°	8.5	2.1	0.0	0.0	0.0	0.0
36°	6.4	1.1	0.0	0.0	0.0	0.0
37°	5.3	1.1	0.0	0.0	0.0	0.0
38°	4.2	1.1	0.0	0.0	0.0	0.0
39°	3.2	0.0	0.0	0.0	0.0	0.0
40°	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	1.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.1	0.0	0.0	1.1	1.1
47.5°	0.0	1.1	0.0	0.0	1.1	2.1
50°	0.0	1.1	1.1	1.1	2.1	3.2
52.5°	0.0	2.1	1.1	1.1	3.2	3.2
55°	1.1	2.1	1.1	2.1	4.2	4.2
57.5°	1.1	2.1	2.1	3.2	4.2	5.3
60°	2.1	3.2	3.2	3.2	5.3	5.3
62.5°	2.1	3.2	4.2	4.2	5.3	6.4
65°	2.1	4.2	4.2	4.2	5.3	6.4
67.5°	3.2	4.2	4.2	4.2	5.3	6.4
70°	3.2	4.2	4.2	4.2	5.3	5.3
72.5°	3.2	4.2	3.2	4.2	4.2	5.3
75°	3.2	4.2	3.2	3.2	4.2	4.2
77.5°	2.1	3.2	3.2	2.1	3.2	3.2
80°	2.1	3.2	2.1	2.1	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.1	3.2	2.1	1.1	2.1	2.1
85°	2.1	3.2	2.1	1.1	1.1	1.1
87.5°	2.1	3.2	2.1	1.1	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)