

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: P1343487

Luminaire Tested: P3A13R159727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R159727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

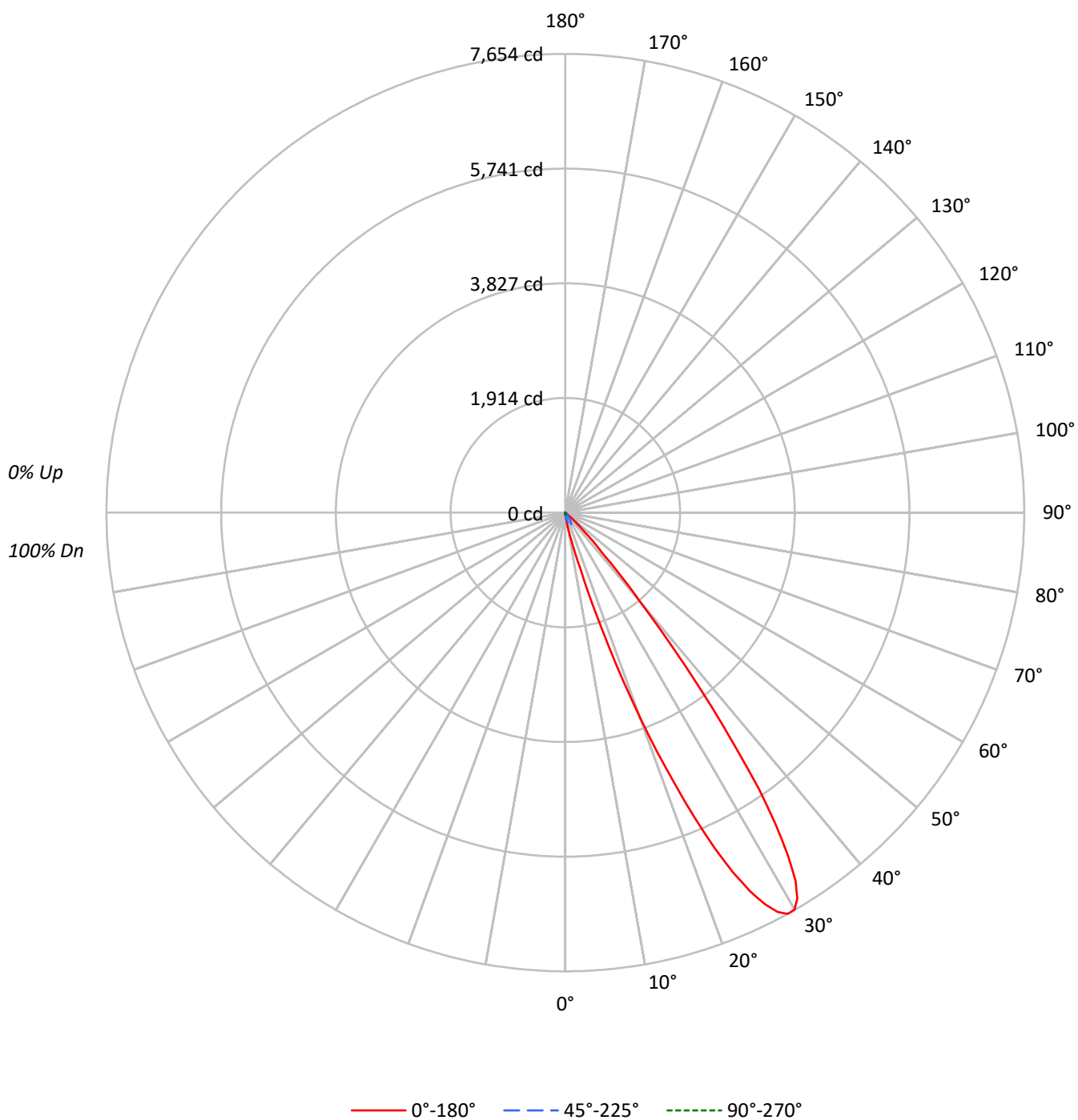
Lumens per Lamp: N/A
Luminaire Lumens: 836.0 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6052	6052	6052	6052	6052
5°	13075	9663	5723	3038	2509
10°	57937	18281	4520	1269	913
15°	219139	42270	3133	545	363
20°	842757	59599	1890	187	187
25°	1602601	55890	992	0	0
30°	1935969	45096	405	0	0
35°	1509918	30704	214	0	0
40°	551004	15143	229	0	229
45°	141472	4528	248	0	496
50°	23846	546	273	273	819
55°	3097	0	612	918	1567
60°	351	351	1053	1447	2149
65°	415	415	1712	2127	2542
70°	513	513	2116	2116	2629
75°	678	678	2796	2033	2796
80°	0	1010	3031	2020	3031
85°	0	2013	6038	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 141472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.5
10°-20°	64.1	7.7
20°-30°	355.3	42.5
30°-40°	343.3	41.1
40°-50°	59.7	7.1
50°-60°	4.3	0.5
60°-70°	2.5	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°	423.1	50.6
0°-40°	766.4	91.7
0°-60°	830.4	99.3
0°-90°	836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	59	44	26	14	11	12
15°	965	186	14	2	2	430
25°	6624	231	4	0	0	2962
35°	5640	115	1	0	0	3244
45°	456	15	1	0	2	490
55°	8	0	2	2	4	16
65°	1	1	3	4	5	1
75°	1	1	3	2	3	1
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°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
2.5°	40.7	39.0	39.8	39.8	39.8	39.8	39.8	38.2	38.2	39.0	35.0
5°	59.4	59.4	58.6	59.4	59.4	58.6	56.9	56.1	56.1	54.5	43.9
7.5°	118.7	117.1	117.1	115.5	107.3	104.9	103.3	99.2	91.9	90.3	56.9
10°	260.2	261.0	255.4	248.0	247.2	235.0	231.0	223.6	209.8	196.0	82.1
12.5°	472.5	461.9	448.1	448.9	425.3	417.2	398.5	378.1	357.0	335.0	135.0
15°	965.3	935.2	953.1	909.2	859.6	803.5	746.5	675.0	614.0	548.9	186.2
17.5°	2033.0	2062.3	2012.7	1824.9	1709.4	1573.6	1382.5	1197.9	1040.1	913.2	227.7
20°	3611.5	3654.6	3486.3	3322.8	3042.2	2736.5	2417.7	2056.6	1711.0	1411.7	255.4
21°	4271.0	4245.0	4175.9	3914.0	3590.4	3235.8	2845.4	2447.0	2028.2	1639.4	257.8
22°	4908.6	4920.8	4759.8	4485.7	4149.0	3756.3	3279.7	2787.7	2336.4	1824.9	253.7
23°	5543.7	5582.7	5369.7	5112.7	4689.0	4245.8	3694.4	3163.4	2605.5	2037.1	245.6
24°	6131.7	6104.8	5960.9	5637.2	5184.3	4665.4	4092.9	3448.9	2826.7	2218.5	239.1
25°	6623.7	6620.4	6394.3	6079.6	5561.6	4986.7	4355.6	3682.3	3016.2	2341.3	231.0
26°	7026.2	6960.3	6782.2	6398.4	5886.9	5280.2	4571.1	3852.2	3122.8	2403.1	222.8
27°	7336.9	7289.7	7050.6	6651.3	6117.0	5446.1	4709.3	3936.8	3171.5	2423.4	212.2
28°	7545.8	7494.6	7240.1	6828.6	6243.9	5550.2	4782.5	3972.6	3171.5	2403.9	202.5
29°	7654.0	7584.1	7330.3	6889.6	6273.2	5562.4	4764.6	3937.6	3121.9	2343.7	191.1
30°	7645.9	7558.9	7292.9	6834.3	6186.1	5462.4	4664.6	3811.6	3009.7	2254.2	178.1
31°	7514.1	7416.5	7119.7	6647.2	6006.4	5273.7	4476.0	3642.4	2856.0	2137.9	165.1
32°	7246.6	7123.0	6833.5	6362.6	5729.9	4991.5	4201.9	3381.4	2625.9	1968.0	151.3
33°	6810.7	6686.3	6375.6	5934.1	5355.9	4633.7	3838.4	3100.8	2364.0	1765.5	139.9
34°	6265.0	6151.2	5883.6	5438.8	4884.2	4180.8	3420.4	2712.9	2092.4	1564.6	127.7
35°	5640.5	5459.1	5216.8	4864.7	4323.9	3616.4	2969.1	2351.8	1812.7	1354.0	114.7
36°	4795.5	4828.1	4571.1	4140.1	3692.0	3137.4	2516.1	1960.7	1515.8	1154.0	103.3
37°	4046.6	3995.3	3831.9	3498.5	3108.1	2557.6	2108.7	1662.2	1275.1	975.9	91.1
38°	3264.3	3275.6	3115.4	2859.3	2472.2	2103.0	1697.2	1365.4	1066.9	830.3	79.7
39°	2555.1	2546.2	2503.1	2265.6	1915.1	1672.8	1375.2	1132.0	888.8	700.2	67.5
40°	1924.9	1939.5	1838.7	1695.6	1491.4	1292.2	1095.4	902.7	735.1	590.4	52.9
42.5°	936.0	958.8	892.1	855.5	765.2	687.2	579.8	473.3	402.5	348.1	23.6
45°	456.2	443.2	437.5	419.6	398.5	356.2	315.5	270.8	236.6	204.1	14.6
47.5°	233.4	226.9	226.9	219.6	212.2	198.4	178.1	163.5	147.2	126.9	5.7
50°	69.9	69.1	68.3	69.1	66.7	69.1	70.7	71.6	65.1	64.2	1.6
52.5°	27.6	28.5	27.6	30.1	30.1	29.3	30.1	29.3	28.5	25.2	0.0
55°	8.1	8.1	8.1	8.1	8.1	8.1	8.9	9.8	8.9	9.8	0.0
57.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8
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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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°	27.6	27.6	27.6	27.6	27.6	27.6
2.5°	32.5	28.5	23.6	19.5	17.9	17.1
5°	35.0	26.0	17.9	13.8	12.2	11.4
7.5°	37.4	23.6	13.8	9.8	7.3	6.5
10°	39.0	20.3	10.6	5.7	4.1	4.1
12.5°	39.0	16.3	7.3	3.3	2.4	2.4
15°	38.2	13.8	4.9	2.4	1.6	1.6
17.5°	37.4	10.6	3.3	1.6	0.8	1.6
20°	35.0	8.1	1.6	0.8	0.8	0.8
21°	34.2	7.3	1.6	0.8	0.8	0.8
22°	32.5	6.5	0.8	0.0	0.8	0.8
23°	30.9	4.9	0.8	0.0	0.0	0.0
24°	28.5	4.1	0.8	0.0	0.0	0.0
25°	26.8	4.1	0.8	0.0	0.0	0.0
26°	25.2	2.4	0.0	0.0	0.0	0.0
27°	22.8	1.6	0.0	0.0	0.0	0.0
28°	21.1	1.6	0.0	0.0	0.0	0.0
29°	18.7	1.6	0.0	0.0	0.0	0.0
30°	16.3	1.6	0.0	0.0	0.0	0.0
31°	13.0	0.8	0.0	0.0	0.0	0.0
32°	10.6	0.8	0.0	0.0	0.0	0.0
33°	7.3	0.8	0.0	0.0	0.0	0.0
34°	4.9	0.8	0.0	0.0	0.0	0.0
35°	4.1	0.8	0.0	0.0	0.0	0.0
36°	2.4	0.8	0.0	0.0	0.0	0.8
37°	2.4	0.8	0.0	0.0	0.0	0.8
38°	1.6	0.8	0.0	0.0	0.0	0.8
39°	0.8	0.8	0.0	0.0	0.0	0.8
40°	0.8	0.8	0.0	0.0	0.0	0.8
42.5°	0.0	0.8	0.0	0.0	0.8	1.6
45°	0.0	0.8	0.0	0.0	0.8	1.6
47.5°	0.0	0.8	0.0	0.0	1.6	1.6
50°	0.0	0.8	0.8	0.8	1.6	2.4
52.5°	0.0	1.6	0.8	1.6	2.4	3.3
55°	0.8	1.6	1.6	2.4	3.3	4.1
57.5°	0.8	2.4	2.4	3.3	4.1	4.1
60°	1.6	2.4	3.3	3.3	4.9	4.9
62.5°	1.6	3.3	3.3	3.3	4.9	4.9
65°	1.6	3.3	3.3	4.1	4.9	4.9
67.5°	1.6	3.3	3.3	3.3	4.1	4.9
70°	1.6	3.3	2.4	3.3	4.1	4.1
72.5°	1.6	3.3	2.4	2.4	3.3	4.1
75°	1.6	3.3	2.4	2.4	3.3	3.3
77.5°	1.6	2.4	2.4	1.6	2.4	2.4
80°	1.6	2.4	1.6	1.6	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.6	2.4	1.6	0.8	1.6	1.6
85°	1.6	2.4	1.6	0.8	0.8	0.8
87.5°	1.6	2.4	0.8	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)