

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: P1343770

Luminaire Tested: P3A13R15W2N902750DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R15W2N902750DE010 E3CA451MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

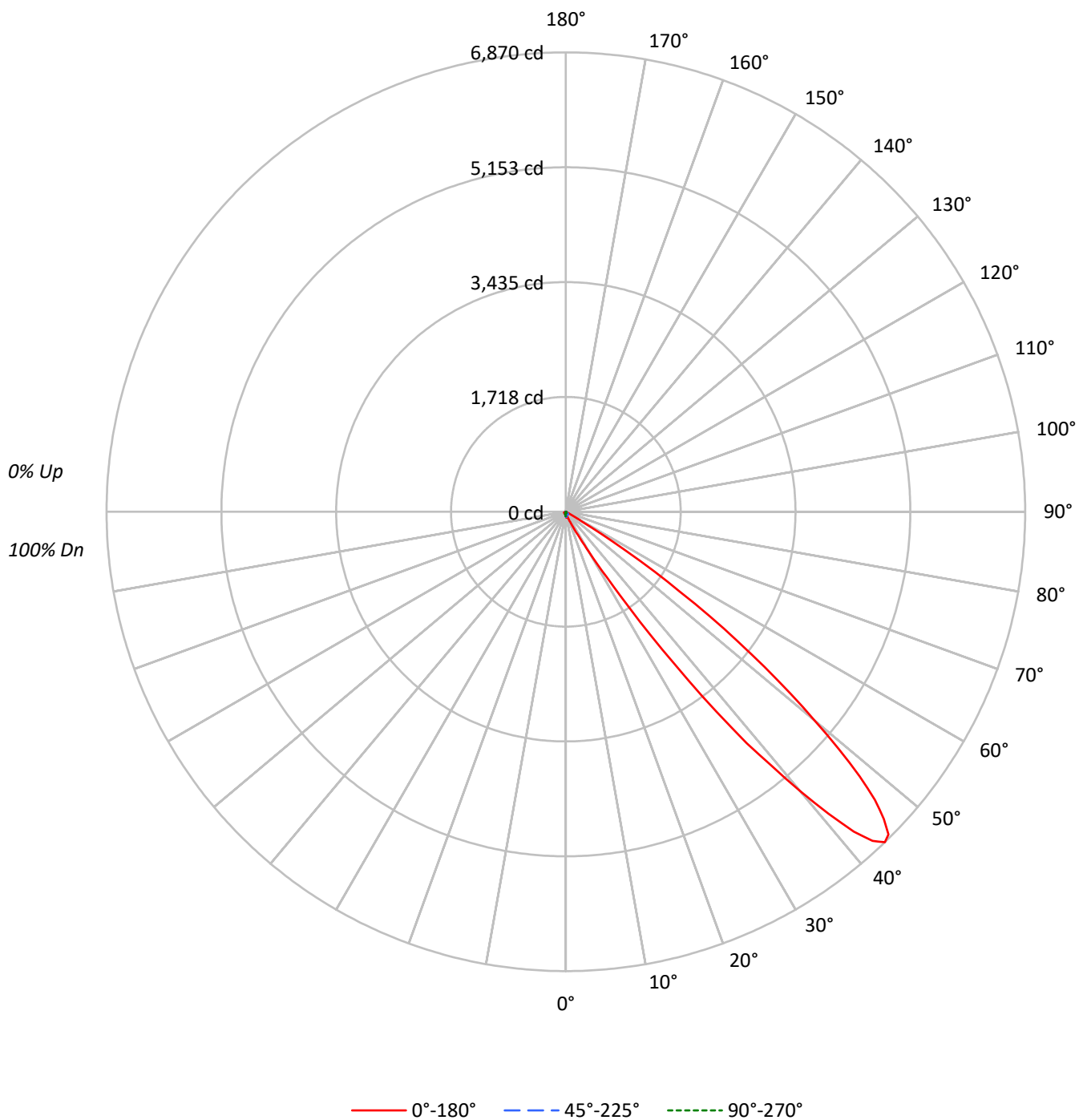
Lumens per Lamp: N/A
Luminaire Lumens: 767.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87						
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73						
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61						
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50						
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42						
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35						
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29						
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24						
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20						
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14933	14933	14933	14933	14933
5°	18512	16487	13471	11776	11622
10°	18214	14139	10398	9196	9374
15°	15097	10080	7469	7628	8150
20°	26229	8027	5717	6604	7491
25°	58479	9630	4621	6097	7041
30°	174862	11825	4077	6001	7368
35°	673139	13304	3694	6130	7790
40°	1562413	11593	3492	6355	8330
45°	2116220	8776	3070	6884	9024
50°	1659272	5219	3138	7300	9927
55°	796416	2332	2906	7875	10819
60°	72801	351	2675	8377	12060
65°	7939	0	2387	8717	13075
70°	1988	0	2949	9296	14233
75°	1949	678	3897	10336	16182
80°	1894	1894	4799	10607	17426
85°	2013	2013	7799	9561	19121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2116220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.8
10°-20°	12.1	1.6
20°-30°	29.0	3.8
30°-40°	158.7	20.7
40°-50°	384.2	50.1
50°-60°	153.3	20.0
60°-70°	13.2	1.7
70°-80°	7.5	1.0
80°-90°	3.3	0.4
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°	46.9	6.1
0°-40°	205.5	26.8
0°-60°	743.0	96.9
0°-90°	767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	84	75	61	54	53	8
15°	66	44	33	34	36	23
25°	242	40	19	25	29	146
35°	2515	50	14	23	29	1777
45°	6824	28	10	22	29	4814
55°	2083	6	8	21	28	1941
65°	15	0	5	17	25	39
75°	2	1	5	12	19	2
85°	1	1	3	4	8	1
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°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
2.5°	76.5	76.5	77.2	76.5	76.5	76.5	76.5	75.7	75.7	75.7	73.4
5°	84.1	84.1	84.1	84.1	83.4	83.4	83.4	82.6	82.6	81.8	74.9
7.5°	87.2	87.2	86.4	86.4	85.7	85.7	84.9	84.1	83.4	82.6	71.9
10°	81.8	81.8	81.8	81.1	81.1	80.3	79.5	78.8	78.0	76.5	63.5
12.5°	72.7	72.7	73.4	72.7	71.9	71.1	69.6	68.8	68.1	66.5	52.8
15°	66.5	66.5	66.5	65.8	65.0	63.5	62.7	61.2	60.4	58.1	44.4
17.5°	84.9	84.9	84.1	82.6	79.5	77.2	73.4	70.4	66.5	61.9	38.2
20°	112.4	112.4	110.9	109.4	105.5	101.7	95.6	90.2	84.1	78.8	34.4
22.5°	162.9	165.2	160.6	155.2	149.9	140.7	132.3	123.9	113.2	104.0	35.2
25°	241.7	244.0	241.7	229.4	219.5	207.3	191.2	174.4	156.0	139.2	39.8
27.5°	391.6	393.1	389.3	359.4	343.4	311.3	283.0	255.4	224.8	194.3	43.6
30°	690.6	691.4	666.9	607.2	554.5	484.1	424.4	367.1	318.9	270.0	46.7
31°	909.3	887.9	835.9	764.0	679.9	585.0	503.2	429.0	357.1	304.4	47.4
32°	1154.8	1151.7	1065.3	940.7	828.2	709.7	586.6	491.7	409.2	337.3	48.2
33°	1479.8	1481.4	1345.2	1198.4	1014.1	855.0	693.6	563.6	464.2	376.3	49.7
34°	1987.6	1868.3	1708.5	1509.7	1258.8	1019.4	809.9	647.0	513.9	413.7	49.7
35°	2514.6	2394.5	2218.6	1917.3	1573.1	1238.2	948.3	736.5	573.6	454.3	49.7
36°	3105.0	3003.3	2737.1	2352.4	1913.5	1444.7	1095.2	839.7	632.5	491.0	48.9
37°	3742.8	3593.7	3298.5	2878.6	2291.3	1735.3	1274.1	942.2	691.4	530.8	47.4
38°	4390.6	4256.0	3883.5	3374.9	2742.5	2041.9	1453.1	1040.9	745.7	560.6	45.1
39°	4881.5	4808.1	4438.7	3870.5	3102.7	2332.6	1637.4	1146.4	803.0	590.4	42.8
40°	5458.2	5339.6	4989.4	4286.5	3528.7	2628.5	1817.9	1239.7	850.4	614.1	40.5
41°	5984.3	5834.4	5392.4	4713.3	3869.7	2894.7	1989.2	1336.1	888.7	627.9	39.0
42°	6435.5	6261.2	5799.3	5078.8	4155.0	3107.3	2126.1	1404.9	924.6	639.3	36.7
43°	6727.7	6577.0	6122.8	5353.4	4399.0	3302.3	2253.8	1476.8	946.8	647.0	33.6
44°	6869.9	6717.7	6278.0	5525.5	4548.9	3419.3	2336.4	1526.5	971.3	656.9	31.4
45°	6824.1	6669.6	6244.4	5528.5	4595.5	3461.4	2371.6	1548.7	984.3	666.1	28.3
46°	6613.7	6505.1	6076.9	5384.8	4506.8	3416.2	2351.7	1531.8	979.7	666.1	25.2
47°	6318.5	6194.6	5787.0	5137.7	4291.9	3300.0	2271.4	1480.6	951.4	650.8	22.2
48°	5916.3	5810.7	5382.5	4745.4	3962.3	3046.8	2090.1	1397.2	907.0	621.0	19.1
49°	5411.5	5264.7	4866.2	4243.7	3532.5	2687.4	1852.3	1256.5	835.9	578.9	16.8
50°	4863.9	4682.7	4375.3	3741.3	3088.1	2304.3	1539.5	1062.3	735.7	523.9	15.3
51°	4327.8	4143.5	3850.6	3311.5	2614.0	1911.9	1242.0	848.1	605.7	448.2	13.0
52°	3771.9	3617.4	3289.3	2865.6	2237.7	1549.4	1034.7	717.4	503.2	376.3	10.7
53°	3218.2	3112.6	2800.6	2371.6	1798.0	1265.7	845.1	614.1	439.0	322.0	8.4
54°	2663.7	2548.2	2311.1	1928.8	1449.2	998.8	716.6	513.9	380.9	280.7	7.6
55°	2083.2	2023.6	1804.9	1470.7	1098.2	796.9	581.2	442.0	318.9	234.8	6.1
56°	1604.5	1537.2	1337.6	1066.9	816.0	624.1	470.3	361.0	270.0	196.5	4.6
57°	1050.8	982.0	849.7	744.9	594.2	455.0	359.4	284.5	219.5	162.9	3.8
58°	621.0	558.3	537.6	458.9	396.2	309.0	265.4	211.8	162.1	128.5	2.3
59°	285.3	289.8	257.7	241.7	219.5	196.5	161.4	141.5	110.9	92.5	1.5
60°	166.0	156.8	153.0	136.9	121.6	107.8	97.1	85.7	69.6	59.7	0.8
62.5°	56.6	54.3	55.8	50.5	47.4	45.9	42.1	35.9	29.8	24.5	0.0
65°	15.3	15.3	14.5	13.8	13.0	12.2	11.5	9.9	9.2	7.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	5.4	5.4	4.6	4.6	3.8	3.8	3.1	3.1	2.3	2.3	0.0
70°	3.1	3.1	3.1	2.3	2.3	2.3	1.5	1.5	1.5	0.8	0.0
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	0.8	0.8
75°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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°	68.1	68.1	68.1	68.1	68.1	68.1
2.5°	70.4	67.3	63.5	61.2	60.4	59.7
5°	67.3	61.2	56.6	53.5	52.8	52.8
7.5°	60.4	53.5	48.9	47.4	46.7	46.7
10°	52.8	46.7	42.8	41.3	42.1	42.1
12.5°	44.4	39.0	37.5	37.5	38.2	39.0
15°	35.9	32.9	32.9	33.6	35.2	35.9
17.5°	29.8	28.3	29.1	30.6	32.1	33.6
20°	24.5	24.5	26.0	28.3	30.6	32.1
22.5°	20.6	21.4	23.7	26.0	29.1	30.6
25°	17.6	19.1	21.4	25.2	28.3	29.1
27.5°	15.3	17.6	20.6	24.5	27.5	29.1
30°	13.0	16.1	19.9	23.7	27.5	29.1
31°	12.2	15.3	19.1	23.7	27.5	29.1
32°	11.5	15.3	19.1	23.7	27.5	29.1
33°	10.7	14.5	19.1	22.9	27.5	29.1
34°	9.9	14.5	19.1	23.7	27.5	29.1
35°	9.2	13.8	18.4	22.9	26.8	29.1
36°	8.4	13.8	18.4	22.9	27.5	29.1
37°	7.6	13.8	18.4	22.9	26.8	29.1
38°	7.6	13.0	17.6	22.9	26.8	29.1
39°	6.9	12.2	17.6	22.9	26.8	29.1
40°	6.1	12.2	16.8	22.2	26.8	29.1
41°	5.4	11.5	16.8	22.2	26.8	29.1
42°	4.6	11.5	16.8	22.2	26.8	29.1
43°	3.8	10.7	16.1	22.2	26.8	29.1
44°	3.8	10.7	16.1	22.2	26.8	29.1
45°	3.1	9.9	15.3	22.2	26.8	29.1
46°	3.1	9.9	15.3	21.4	26.8	29.1
47°	2.3	9.9	15.3	21.4	26.8	29.1
48°	2.3	9.2	15.3	21.4	26.8	29.1
49°	1.5	9.2	15.3	21.4	26.8	29.1
50°	1.5	9.2	14.5	21.4	26.8	29.1
51°	1.5	9.2	14.5	21.4	26.8	29.1
52°	1.5	8.4	14.5	21.4	26.8	29.1
53°	1.5	8.4	14.5	21.4	26.8	29.1
54°	1.5	8.4	13.8	21.4	26.8	29.1
55°	1.5	7.6	13.8	20.6	26.8	28.3
56°	1.5	7.6	13.8	20.6	26.8	28.3
57°	1.5	7.6	13.0	20.6	26.8	28.3
58°	1.5	6.9	13.0	19.9	26.0	28.3
59°	1.5	6.9	12.2	19.9	26.0	27.5
60°	1.5	6.1	12.2	19.1	25.2	27.5
62.5°	1.5	5.4	10.7	18.4	24.5	26.0
65°	1.5	4.6	9.9	16.8	23.7	25.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	4.6	9.2	16.1	22.2	24.5
70°	1.5	4.6	8.4	14.5	21.4	22.2
72.5°	2.3	4.6	7.6	13.8	19.9	20.6
75°	3.1	4.6	6.9	12.2	18.4	19.1
77.5°	3.1	4.6	6.1	10.7	16.1	16.8
80°	3.1	3.8	5.4	8.4	13.0	13.8
82.5°	3.1	3.8	3.8	6.9	9.9	10.7
85°	2.3	3.1	3.1	3.8	6.9	7.6
87.5°	2.3	3.1	1.5	2.3	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)