

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: P1334811

Luminaire Tested: P3A02R259830DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R259830DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 98CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

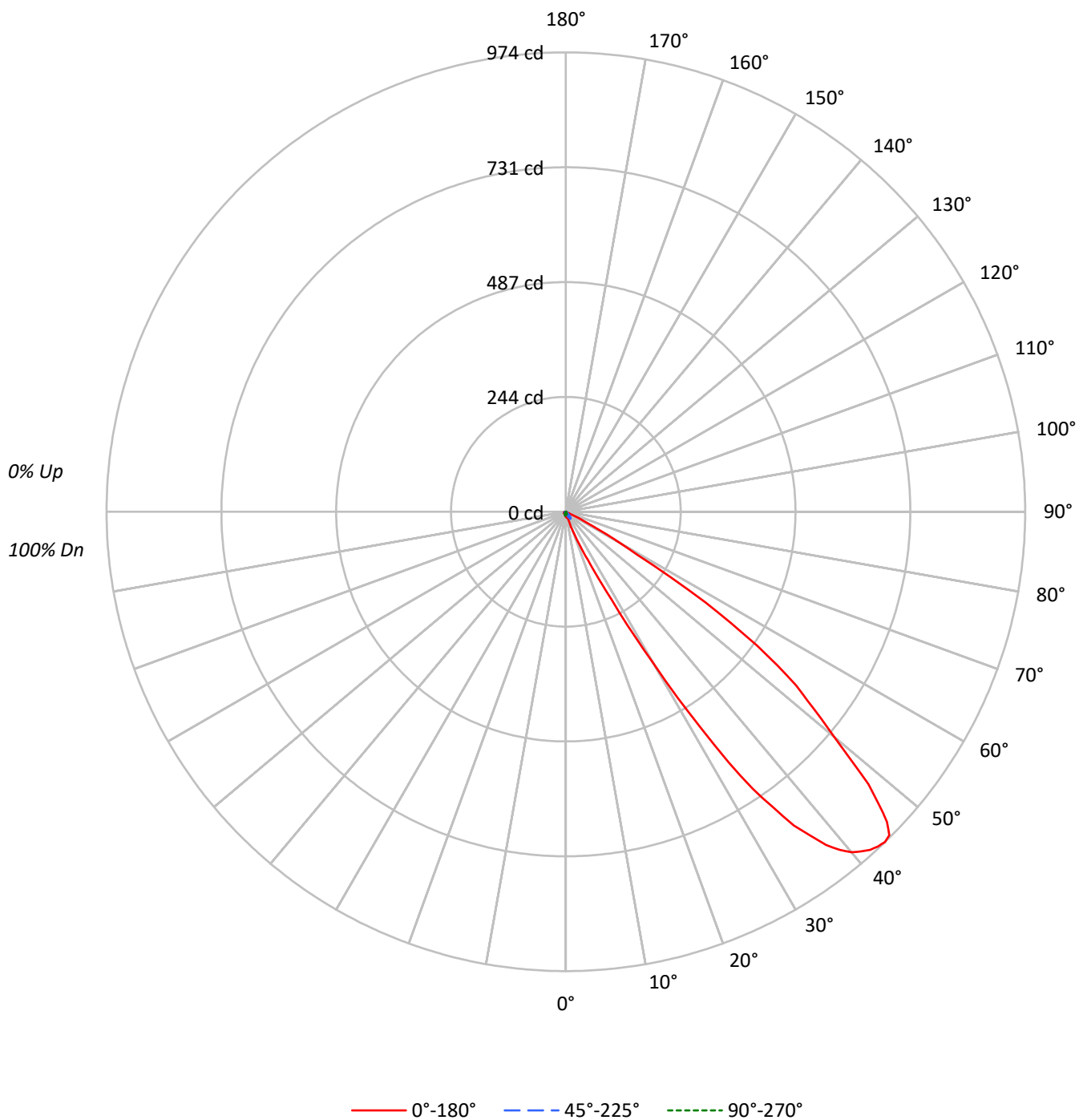
Lumens per Lamp: N/A
Luminaire Lumens: 203.0 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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			0
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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2281	2281	2281	2281	2281
5°	2597	2487	2201	1959	1937
10°	2583	2338	1870	1625	1625
15°	2883	2020	1453	1385	1453
20°	10174	2007	1120	1167	1283
25°	29252	2540	919	1089	1258
30°	93356	3925	734	1038	1266
35°	204463	4631	616	1017	1285
40°	269734	4179	515	1031	1374
45°	300806	2946	496	1116	1489
50°	253194	1535	478	1160	1637
55°	189317	612	497	1300	1835
60°	58592	175	482	1403	2017
65°	4981	0	571	1505	2231
70°	321	128	577	1731	2500
75°	339	169	763	1779	2881
80°	253	253	1137	2020	3410
85°	503	503	1761	2264	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 300806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	2.4	1.2
20°-30°	11.2	5.5
30°-40°	54.1	26.6
40°-50°	84.8	41.7
50°-60°	43.5	21.4
60°-70°	4.1	2.0
70°-80°	1.4	0.7
80°-90°	0.7	0.3
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°	14.6	7.2
0°-40°	68.6	33.8
0°-60°	196.8	96.9
0°-90°	203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	203.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	12	11	10	9	9	1
15°	13	9	6	6	6	5
25°	121	10	4	4	5	75
35°	764	17	2	4	5	464
45°	970	10	2	4	5	710
55°	495	2	1	3	5	412
65°	10	0	1	3	4	30
75°	0	0	1	2	3	0
85°	0	0	1	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°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.1	11.1	11.3	11.1	11.1
5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.6	11.6	11.6	11.3
7.5°	12.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.6	11.6	11.1
10°	11.6	11.6	11.6	11.6	11.4	11.4	11.4	11.3	11.3	11.3	10.5
12.5°	11.6	11.6	11.6	11.6	11.4	11.4	11.3	11.3	11.1	10.9	9.6
15°	12.7	12.7	12.7	12.5	12.3	12.1	12.0	11.8	11.6	11.3	8.9
17.5°	18.6	18.0	17.9	17.1	16.3	15.4	14.6	13.9	13.2	12.7	8.6
20°	43.6	43.4	42.5	40.4	38.0	35.4	32.7	29.7	25.4	22.5	8.6
22.5°	75.6	74.5	72.9	71.3	67.2	62.3	57.3	51.6	46.1	40.2	9.1
25°	120.9	123.4	118.1	113.8	106.6	97.9	88.4	80.6	70.6	61.3	10.5
27.5°	210.3	211.9	201.3	187.4	170.8	152.4	134.5	121.1	104.3	89.0	13.2
30°	368.7	370.3	352.6	323.0	288.7	258.5	217.6	181.7	148.6	123.1	15.5
31°	460.2	447.7	427.1	398.4	354.9	309.4	260.3	216.9	175.1	141.5	16.3
32°	539.7	538.6	514.6	471.1	427.5	371.2	310.3	253.7	202.4	160.1	16.8
33°	633.4	626.3	592.5	551.4	493.7	437.1	358.5	293.9	230.4	180.8	17.1
34°	708.6	689.4	675.4	628.4	567.5	495.4	411.2	336.4	265.5	200.8	17.3
35°	763.8	759.7	732.6	688.8	626.8	553.1	468.0	380.5	294.7	224.0	17.3
36°	822.3	809.6	783.1	743.5	683.1	606.8	511.4	418.7	328.9	244.9	17.1
37°	858.9	851.4	825.1	784.2	725.1	652.2	560.0	459.1	356.0	265.8	16.8
38°	896.6	881.4	855.5	816.4	758.3	689.9	595.2	490.2	381.0	284.2	16.3
39°	922.7	906.9	880.5	841.6	784.7	716.9	623.1	516.6	402.8	298.0	15.5
40°	942.3	927.1	900.3	860.3	804.2	738.1	646.3	540.0	421.0	309.9	14.6
41°	954.4	940.3	913.7	873.9	817.6	750.3	661.5	555.2	433.4	318.0	13.8
42°	964.6	950.2	923.0	882.3	825.8	760.6	670.8	564.8	441.8	322.1	13.0
43°	970.3	955.9	929.4	887.8	830.8	765.5	675.8	569.3	444.6	321.5	11.8
44°	973.6	958.6	931.9	890.3	833.0	766.7	676.1	568.4	442.7	317.3	10.7
45°	970.0	955.2	929.4	887.8	829.2	762.8	672.6	563.6	435.2	308.9	9.5
46°	946.8	935.3	911.8	873.5	817.4	752.8	663.5	554.3	423.5	298.5	8.0
47°	905.9	896.7	873.9	845.5	794.7	734.4	646.7	536.6	407.3	283.0	6.4
48°	863.2	849.8	828.5	799.4	756.5	701.3	619.0	510.7	382.6	262.6	5.7
49°	800.1	792.2	773.5	741.0	705.4	656.8	579.8	477.5	352.4	240.4	5.0
50°	742.2	736.9	710.6	686.7	649.0	603.6	526.8	433.7	314.9	212.9	4.5
51°	697.0	690.6	671.7	641.8	601.6	548.9	476.6	376.9	271.9	180.2	3.6
52°	649.9	646.3	629.5	598.8	559.3	506.8	427.8	328.7	230.1	152.4	2.9
53°	611.3	606.1	585.6	558.2	515.5	461.2	375.0	283.9	194.9	128.1	2.5
54°	555.0	552.9	539.7	511.1	464.8	405.7	327.1	239.0	162.6	108.6	2.1
55°	495.2	488.0	474.6	451.9	409.4	354.2	271.7	198.1	131.5	91.5	1.6
56°	422.3	421.9	398.0	379.1	341.4	282.8	217.0	154.7	106.8	76.3	1.4
57°	352.6	341.4	318.3	299.6	259.0	214.5	161.1	115.9	83.6	61.8	1.1
58°	260.8	254.9	248.8	221.3	183.8	152.0	115.0	81.5	61.8	47.2	0.7
59°	177.0	176.8	169.7	148.8	127.2	94.7	71.8	55.4	42.5	34.7	0.5
60°	133.6	130.4	116.1	102.4	80.0	59.8	42.5	32.7	26.4	22.3	0.4
62.5°	46.8	48.6	42.7	35.4	27.0	22.2	17.0	13.8	11.3	9.1	0.0
65°	9.6	10.5	9.1	8.6	6.8	5.9	5.2	4.5	3.8	3.2	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°	1.3	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.7	0.7	0.2
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2
72.5°	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	10.9	10.5	10.0	9.8	9.6	9.6
5°	10.7	10.0	9.5	8.9	8.8	8.8
7.5°	10.2	9.3	8.6	8.2	8.0	7.9
10°	9.6	8.4	7.7	7.3	7.3	7.3
12.5°	8.6	7.5	6.8	6.6	6.8	6.8
15°	7.7	6.4	6.1	6.1	6.3	6.4
17.5°	6.6	5.7	5.4	5.5	5.7	5.9
20°	5.9	4.8	4.8	5.0	5.5	5.5
22.5°	5.2	4.3	4.3	4.8	5.2	5.4
25°	4.6	3.8	3.9	4.5	5.0	5.2
27.5°	3.9	3.2	3.6	4.3	4.8	5.0
30°	3.4	2.9	3.4	4.1	4.6	5.0
31°	3.2	2.7	3.4	3.9	4.6	5.0
32°	2.9	2.7	3.2	3.9	4.6	4.8
33°	2.7	2.5	3.2	3.9	4.6	4.8
34°	2.5	2.3	3.0	3.9	4.6	4.8
35°	2.1	2.3	3.0	3.8	4.5	4.8
36°	2.0	2.1	3.0	3.8	4.5	4.8
37°	1.8	2.1	2.9	3.8	4.5	4.8
38°	1.6	2.0	2.9	3.8	4.5	4.8
39°	1.4	2.0	2.7	3.8	4.5	4.8
40°	1.3	1.8	2.7	3.6	4.5	4.8
41°	1.3	1.8	2.7	3.6	4.5	4.8
42°	1.1	1.8	2.7	3.6	4.5	4.8
43°	0.9	1.6	2.7	3.6	4.5	4.8
44°	0.7	1.6	2.5	3.6	4.5	4.8
45°	0.7	1.6	2.5	3.6	4.5	4.8
46°	0.5	1.4	2.5	3.6	4.5	4.8
47°	0.4	1.4	2.5	3.4	4.5	4.8
48°	0.4	1.4	2.5	3.4	4.5	4.8
49°	0.4	1.4	2.3	3.4	4.5	4.8
50°	0.4	1.4	2.3	3.4	4.5	4.8
51°	0.2	1.3	2.3	3.4	4.5	4.8
52°	0.2	1.3	2.3	3.4	4.5	5.0
53°	0.2	1.3	2.3	3.4	4.5	4.8
54°	0.2	1.3	2.1	3.4	4.5	4.8
55°	0.2	1.3	2.1	3.4	4.5	4.8
56°	0.2	1.1	2.1	3.2	4.5	4.8
57°	0.4	1.1	2.1	3.2	4.5	4.6
58°	0.4	1.1	2.1	3.2	4.3	4.6
59°	0.4	1.1	2.1	3.2	4.3	4.6
60°	0.4	1.1	2.0	3.2	4.3	4.6
62.5°	0.4	1.1	2.0	3.0	4.1	4.5
65°	0.4	1.1	1.8	2.9	4.1	4.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	0.9	1.8	2.7	3.9	4.1
70°	0.5	0.9	1.6	2.7	3.8	3.9
72.5°	0.5	0.9	1.6	2.3	3.4	3.8
75°	0.5	0.9	1.4	2.1	3.2	3.4
77.5°	0.5	0.9	1.3	2.0	2.9	3.0
80°	0.7	0.9	1.1	1.6	2.5	2.7
82.5°	0.7	0.9	0.9	1.3	2.0	2.1
85°	0.5	0.7	0.7	0.9	1.3	1.4
87.5°	0.5	0.7	0.5	0.4	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)