

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: P1335602

Luminaire Tested: P3A02R35B2750DE010 E3CA451MMS_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R35B2750DE010 E3CA451MMS_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 80CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

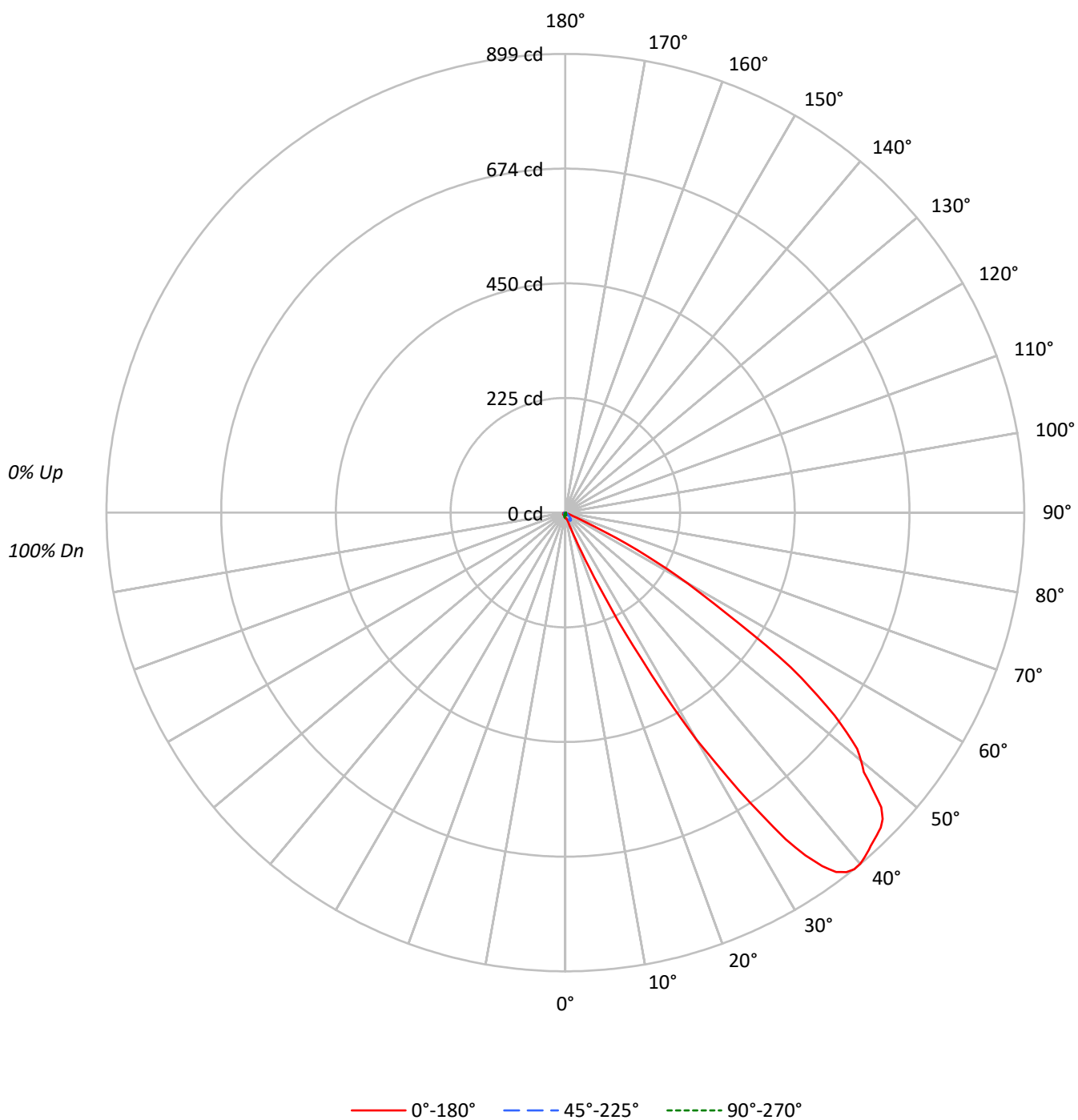
Lumens per Lamp: N/A
Luminaire Lumens: 224.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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	100	93	86	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	52	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	38	50	43	37	48	42	37	35						
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29						
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24						
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20						
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2259	2259	2259	2259	2259
5°	2443	2399	2223	2003	1959
10°	2561	2338	1982	1715	1715
15°	3678	2293	1612	1476	1521
20°	9194	2450	1283	1283	1423
25°	42704	3121	968	1186	1331
30°	129843	4254	760	1063	1342
35°	219454	4926	642	1017	1312
40°	257225	4866	515	1031	1403
45°	270881	3442	434	1116	1520
50°	257868	2081	409	1160	1672
55°	216078	841	459	1300	1950
60°	120955	175	526	1491	2149
65°	20858	104	519	1660	2439
70°	385	128	641	1795	2693
75°	339	169	847	2033	3050
80°	253	253	1010	2273	3536
85°	0	503	2013	2516	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 272799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.6	1.2
20°-30°	13.7	6.1
30°-40°	59.4	26.5
40°-50°	84.7	37.8
50°-60°	52.4	23.4
60°-70°	8.0	3.6
70°-80°	1.5	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°	17.3	7.7
0°-40°	76.7	34.2
0°-60°	213.8	95.5
0°-90°	224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	16	10	7	6	7	6
25°	176	13	4	5	6	106
35°	820	18	2	4	5	492
45°	874	11	1	4	5	660
55°	565	2	1	3	5	481
65°	40	0	1	3	5	82
75°	0	0	1	2	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.3	10.1
5°	11.1	11.1	10.9	10.9	10.9	10.9	10.9	10.9	10.5	10.1	9.5
7.5°	11.3	11.3	11.1	11.1	11.1	11.1	10.9	10.7	10.3	9.5	8.9
10°	11.5	11.5	11.5	11.5	11.3	11.1	10.9	10.5	9.9	8.9	8.3
12.5°	12.9	12.9	12.7	12.3	11.9	11.5	11.1	10.3	9.1	8.1	7.5
15°	16.2	16.0	15.6	15.0	14.2	13.1	12.3	10.1	8.3	7.1	6.7
17.5°	22.6	22.2	21.6	19.6	17.8	16.0	14.4	10.1	7.5	6.3	5.9
20°	39.4	39.6	35.4	30.5	26.5	22.0	18.0	10.5	6.7	5.5	5.3
22.5°	82.3	79.1	69.0	57.2	43.7	33.8	25.5	11.5	5.9	4.7	4.7
25°	176.5	164.2	139.7	105.6	74.4	52.8	37.0	12.9	5.3	4.0	4.2
27.5°	322.3	311.2	262.1	197.4	131.0	79.7	50.1	14.8	4.7	3.4	3.8
30°	512.8	482.1	418.0	323.5	219.0	121.9	67.3	16.8	3.8	3.0	3.6
31°	572.2	558.1	480.0	374.3	256.6	144.8	74.6	17.4	3.6	3.0	3.4
32°	642.8	617.7	547.8	429.9	294.8	165.2	83.3	18.0	3.4	2.6	3.4
33°	705.9	681.6	596.5	478.8	333.4	188.5	92.6	18.2	3.0	2.6	3.2
34°	772.2	739.1	654.7	530.0	373.1	213.5	101.1	18.4	2.8	2.4	3.2
35°	819.8	786.6	704.9	570.4	407.2	235.8	110.8	18.4	2.6	2.4	3.0
36°	856.6	827.4	748.2	612.1	441.2	255.8	118.5	18.4	2.2	2.2	3.0
37°	881.8	854.1	777.3	647.9	467.1	273.6	125.4	18.4	2.0	2.2	3.0
38°	894.2	871.1	805.4	674.0	492.2	287.5	130.8	18.0	1.8	2.0	2.8
39°	899.4	880.6	822.6	696.0	511.0	299.7	134.9	17.6	1.6	2.0	2.8
40°	898.6	882.2	832.3	711.2	526.1	308.0	137.1	17.0	1.4	1.8	2.8
41°	894.0	879.8	837.3	724.1	535.2	313.6	137.7	16.4	1.2	1.8	2.6
42°	888.7	875.8	839.0	731.0	541.1	315.4	136.1	15.6	1.2	1.6	2.6
43°	883.2	871.3	839.0	733.2	542.5	314.2	133.5	14.2	1.0	1.6	2.6
44°	878.8	867.5	836.3	732.6	539.5	309.6	128.6	12.5	0.8	1.6	2.6
45°	873.5	862.4	832.9	728.8	533.6	301.7	122.5	11.1	0.6	1.4	2.6
46°	864.2	855.5	826.8	720.9	524.3	290.8	114.9	10.1	0.4	1.4	2.4
47°	846.2	838.8	815.1	709.1	512.0	277.8	107.0	9.1	0.4	1.4	2.4
48°	810.0	809.8	791.6	687.3	492.4	261.7	98.7	8.1	0.4	1.4	2.4
49°	775.1	771.4	748.8	648.9	464.3	242.2	90.0	7.3	0.2	1.4	2.4
50°	755.9	748.0	710.8	603.6	428.3	215.4	80.7	6.1	0.2	1.2	2.4
51°	735.8	724.5	680.6	562.7	385.4	189.5	70.6	4.9	0.2	1.2	2.2
52°	699.6	688.9	639.8	523.7	343.8	163.0	60.9	4.0	0.2	1.2	2.4
53°	660.6	645.2	591.9	480.9	307.2	139.5	51.0	3.4	0.2	1.2	2.2
54°	611.5	604.6	543.3	428.3	264.3	116.9	41.9	2.8	0.2	1.2	2.2
55°	565.2	555.1	491.4	374.5	225.5	95.8	35.0	2.2	0.2	1.2	2.2
56°	506.1	491.0	431.3	325.2	186.0	77.2	29.5	1.8	0.2	1.2	2.2
57°	435.8	419.6	372.5	270.4	146.0	58.8	24.7	1.4	0.2	1.2	2.2
58°	368.6	354.7	304.1	208.7	110.0	40.8	20.4	1.0	0.2	1.0	2.2
59°	318.5	303.1	253.0	160.6	76.4	30.1	15.4	0.8	0.2	1.2	2.2
60°	275.8	256.0	203.6	124.4	54.6	21.6	11.3	0.4	0.4	1.2	2.2
62.5°	158.9	140.3	97.3	50.6	22.4	11.1	5.5	0.2	0.4	1.2	2.2
65°	40.2	35.8	23.3	10.9	6.3	3.8	2.0	0.2	0.4	1.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.4	1.4	1.4	1.2	1.0	0.8	0.4	0.2	0.4	1.0	2.0
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.4	1.0	1.8
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.6
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.6
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.6
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):

	135°	157.5°	180°
0°	10.3	10.3	10.3
2.5°	9.7	9.7	9.7
5°	9.1	9.1	8.9
7.5°	8.5	8.3	8.3
10°	7.7	7.7	7.7
12.5°	7.1	7.1	7.1
15°	6.5	6.7	6.7
17.5°	5.9	6.3	6.3
20°	5.5	5.9	6.1
22.5°	5.1	5.5	5.7
25°	4.9	5.3	5.5
27.5°	4.4	5.1	5.5
30°	4.2	4.9	5.3
31°	4.2	4.9	5.1
32°	4.0	4.9	5.1
33°	4.0	4.9	5.1
34°	4.0	4.7	5.1
35°	3.8	4.7	4.9
36°	3.8	4.7	4.9
37°	3.8	4.7	5.1
38°	3.8	4.7	4.9
39°	3.6	4.7	4.9
40°	3.6	4.7	4.9
41°	3.6	4.7	4.9
42°	3.6	4.7	4.9
43°	3.6	4.7	4.9
44°	3.6	4.4	4.9
45°	3.6	4.4	4.9
46°	3.6	4.7	4.9
47°	3.6	4.7	5.1
48°	3.6	4.4	4.9
49°	3.4	4.4	4.9
50°	3.4	4.4	4.9
51°	3.4	4.7	5.1
52°	3.4	4.7	5.1
53°	3.4	4.7	5.1
54°	3.4	4.7	4.9
55°	3.4	4.7	5.1
56°	3.4	4.7	4.9
57°	3.4	4.7	4.9
58°	3.4	4.4	4.9
59°	3.4	4.4	4.9
60°	3.4	4.4	4.9
62.5°	3.2	4.4	4.9
65°	3.2	4.2	4.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.0	4.2	4.4
70°	2.8	4.0	4.2
72.5°	2.6	3.8	4.0
75°	2.4	3.4	3.6
77.5°	2.0	3.0	3.4
80°	1.8	2.6	2.8
82.5°	1.4	2.2	2.4
85°	1.0	1.6	1.6
87.5°	0.4	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)