

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: P1335936

Luminaire Tested: P3A02R40B2750DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R40B2750DE010 E3CA451MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

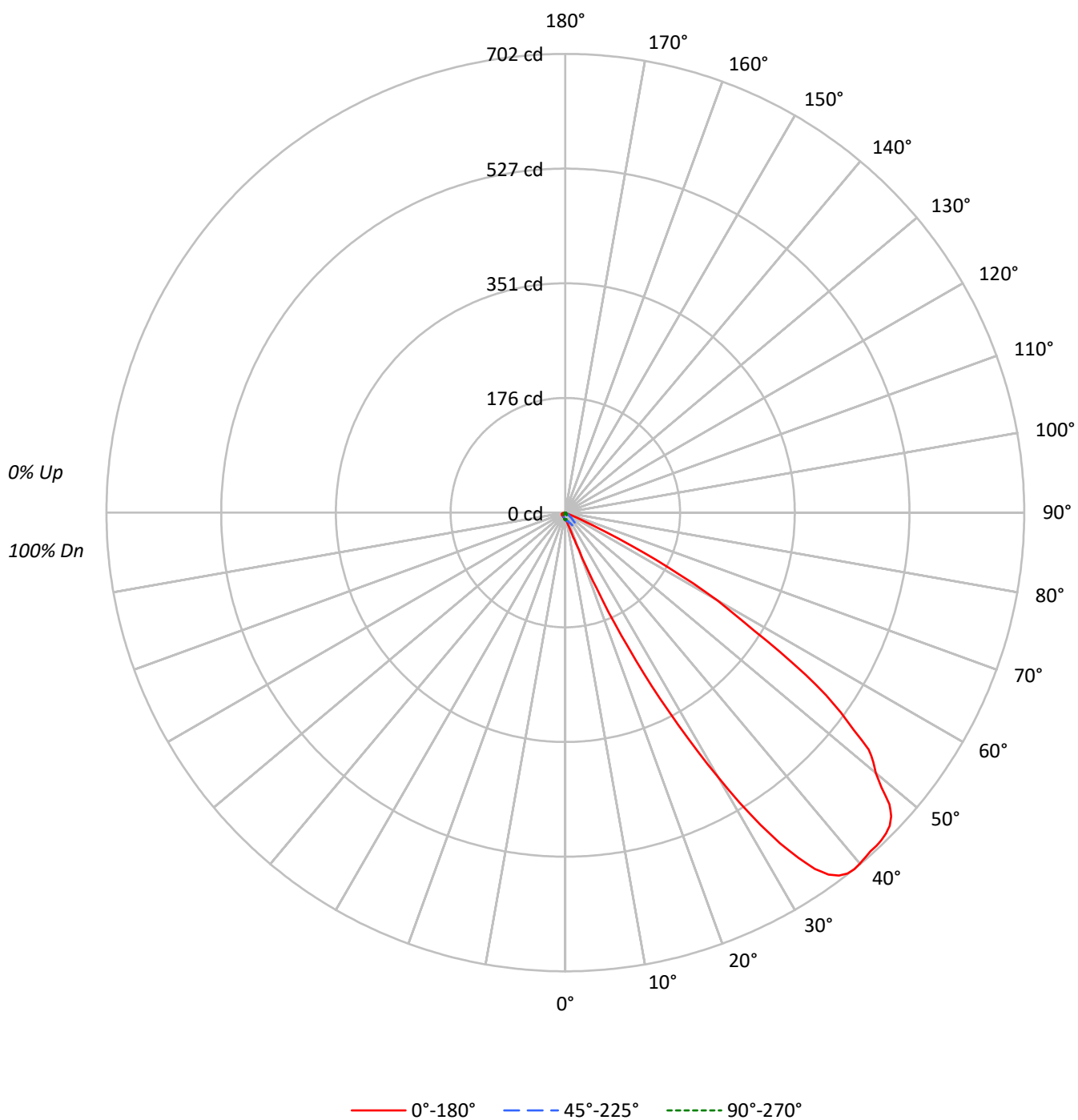
Lumens per Lamp: N/A
Luminaire Lumens: 217.1 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

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	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	99	97	94	96	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50			
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	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	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29			
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24			
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	20	30	24	19	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2456	2456	2456	2456	2456
5°	2729	2641	2421	2201	2157
10°	3273	2806	2227	2004	1959
15°	5380	3042	1907	1771	1816
20°	14235	3570	1587	1587	1727
25°	54874	4428	1258	1452	1694
30°	118373	5900	1013	1418	1671
35°	178176	6987	857	1392	1713
40°	200748	7013	744	1431	1832
45°	215247	5427	682	1489	1985
50°	211575	3411	614	1569	2183
55°	186144	1682	612	1759	2447
60°	117798	351	702	1930	2719
65°	24075	104	726	2075	3009
70°	513	128	769	2308	3462
75°	508	339	847	2542	3897
80°	505	253	1010	2778	4546
85°	503	503	2013	3019	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 219153 cd/sqm

TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	3.4	1.6
20°-30°	16.9	7.8
30°-40°	54.8	25.3
40°-50°	75.6	34.8
50°-60°	52.7	24.3
60°-70°	10.0	4.6
70°-80°	1.8	0.8
80°-90°	0.8	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°	21.4	9.8
0°-40°	76.2	35.1
0°-60°	204.4	94.2
0°-90°	217.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	217.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	12	11	10	10	1
15°	24	13	8	8	8	9
25°	227	18	5	6	7	117
35°	666	26	3	5	6	402
45°	694	18	2	5	6	528
55°	487	4	2	5	6	416
65°	46	0	1	4	6	82
75°	1	0	1	3	5	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.4	11.2
5°	12.4	12.4	12.4	12.4	12.2	12.2	12.2	12.0	12.0	11.6	11.0
7.5°	13.2	13.2	13.2	13.2	13.0	12.8	12.6	12.6	12.4	11.4	10.6
10°	14.7	14.7	14.5	14.3	14.1	13.8	13.6	13.2	12.6	11.2	10.0
12.5°	17.9	17.5	17.3	16.9	16.3	15.5	14.7	14.1	12.8	10.8	9.4
15°	23.7	23.3	22.5	21.3	20.1	18.5	17.1	15.7	13.4	10.2	8.4
17.5°	33.9	32.7	31.5	29.5	26.5	23.7	20.7	18.1	14.1	9.6	7.6
20°	61.0	60.2	53.0	47.4	38.5	32.1	26.1	21.7	15.3	9.0	6.8
22.5°	125.7	117.4	105.6	86.5	67.4	49.6	36.1	27.3	16.5	8.2	6.0
25°	226.8	213.6	188.3	151.5	111.8	79.1	52.2	35.7	18.3	7.4	5.2
27.5°	343.4	330.0	290.8	239.9	175.2	119.4	74.5	47.2	20.7	6.6	4.6
30°	467.5	456.2	406.3	336.0	246.9	167.2	99.8	59.0	23.3	5.8	4.0
31°	517.5	503.0	449.2	374.3	280.6	186.9	110.0	64.0	24.3	5.6	3.8
32°	563.6	547.0	491.2	410.9	307.9	208.3	121.2	68.4	25.1	5.2	3.6
33°	603.2	583.9	530.1	445.6	338.0	228.2	132.7	72.5	25.7	4.8	3.4
34°	636.9	620.2	562.4	480.5	364.7	247.3	144.1	76.7	26.1	4.6	3.2
35°	665.6	650.5	593.3	507.0	390.8	265.8	154.4	80.7	26.1	4.2	3.2
36°	684.9	671.8	620.0	534.1	412.7	281.6	163.2	84.3	26.1	3.8	3.0
37°	695.5	682.7	637.5	556.4	434.2	297.1	171.2	87.1	25.9	3.6	2.8
38°	700.9	689.7	650.5	574.5	449.2	308.3	178.2	89.3	25.7	3.2	2.8
39°	702.3	692.9	658.6	587.7	463.7	319.5	183.1	90.5	25.1	3.0	2.6
40°	701.3	693.1	663.0	599.4	474.9	328.2	186.7	90.9	24.5	2.6	2.6
41°	699.3	692.9	666.2	607.6	483.9	333.8	188.1	90.1	23.7	2.2	2.4
42°	697.5	690.5	667.6	613.2	490.0	336.6	187.9	88.5	22.5	2.0	2.4
43°	697.5	689.5	667.8	616.8	493.0	336.8	185.5	85.5	20.9	1.8	2.2
44°	696.3	688.9	668.8	619.2	493.8	335.0	181.7	82.3	19.1	1.6	2.2
45°	694.1	686.3	668.6	619.4	492.4	330.6	175.6	78.1	17.5	1.2	2.2
46°	689.9	682.9	666.8	618.0	488.2	324.2	168.2	73.9	15.7	1.0	2.0
47°	681.6	676.2	662.0	613.2	481.9	314.9	159.4	69.2	14.3	0.8	2.0
48°	667.2	663.4	653.9	602.6	469.7	303.3	150.1	64.0	13.0	0.8	2.0
49°	640.9	637.9	632.3	585.7	454.2	289.2	139.9	58.2	11.6	0.6	2.0
50°	620.2	617.0	605.6	557.2	431.8	271.2	128.7	52.4	10.0	0.4	1.8
51°	606.4	601.2	583.3	524.1	399.4	247.3	116.6	46.6	8.4	0.4	1.8
52°	589.1	581.3	559.0	494.4	369.7	223.4	103.4	40.9	7.4	0.4	1.8
53°	552.8	550.0	527.9	462.5	340.0	200.5	89.9	36.1	6.4	0.4	1.8
54°	521.1	516.9	486.9	418.3	307.7	175.0	75.9	31.9	5.4	0.4	1.8
55°	486.9	478.7	452.0	381.0	269.8	151.5	62.6	27.5	4.4	0.4	1.6
56°	443.6	436.4	407.7	341.2	235.0	127.5	52.4	22.5	3.4	0.4	1.6
57°	391.0	384.4	362.3	292.2	198.7	104.2	42.6	18.1	2.6	0.4	1.6
58°	340.2	332.8	307.5	245.1	160.4	82.7	35.7	14.7	2.0	0.4	1.6
59°	301.1	291.2	258.5	205.9	125.5	62.8	28.3	11.8	1.4	0.4	1.6
60°	268.6	260.5	226.6	171.4	98.4	46.2	20.9	9.0	0.8	0.4	1.6
62.5°	155.6	153.4	123.0	88.3	46.4	21.5	10.4	4.2	0.4	0.6	1.6
65°	46.4	40.5	31.5	18.7	12.0	7.2	3.8	1.4	0.2	0.6	1.4



TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.8	0.4	0.2	0.6	1.4
70°	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.4	0.6	1.0
75°	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.6	1.0
77.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.6	1.0
80°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.6	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

TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	11.2	11.2	11.2	11.2
2.5°	10.8	10.6	10.4	10.4
5°	10.4	10.0	10.0	9.8
7.5°	9.8	9.4	9.4	9.4
10°	9.2	9.0	9.0	8.8
12.5°	8.4	8.4	8.4	8.4
15°	7.8	7.8	8.0	8.0
17.5°	7.0	7.2	7.6	7.8
20°	6.4	6.8	7.2	7.4
22.5°	6.0	6.4	7.0	7.2
25°	5.4	6.0	6.8	7.0
27.5°	5.0	5.8	6.4	6.8
30°	4.6	5.6	6.2	6.6
31°	4.6	5.4	6.2	6.6
32°	4.4	5.2	6.2	6.4
33°	4.4	5.2	6.2	6.4
34°	4.2	5.2	6.0	6.4
35°	4.2	5.2	6.0	6.4
36°	4.0	5.0	6.0	6.4
37°	4.0	5.0	6.0	6.4
38°	3.8	5.0	6.0	6.4
39°	3.8	5.0	6.0	6.4
40°	3.8	5.0	6.0	6.4
41°	3.6	5.0	6.0	6.4
42°	3.6	5.0	6.0	6.4
43°	3.6	4.8	6.0	6.4
44°	3.6	4.8	6.0	6.4
45°	3.4	4.8	6.0	6.4
46°	3.4	4.8	6.0	6.4
47°	3.4	4.8	6.0	6.4
48°	3.4	4.8	6.0	6.4
49°	3.4	4.8	6.0	6.4
50°	3.2	4.6	6.0	6.4
51°	3.2	4.6	6.0	6.4
52°	3.2	4.6	6.0	6.4
53°	3.2	4.6	6.0	6.4
54°	3.0	4.6	6.0	6.4
55°	3.0	4.6	6.0	6.4
56°	3.0	4.6	6.0	6.2
57°	3.0	4.6	5.8	6.2
58°	3.0	4.4	5.8	6.2
59°	3.0	4.4	5.8	6.2
60°	3.0	4.4	5.8	6.2
62.5°	2.8	4.4	5.6	6.0
65°	2.6	4.0	5.6	5.8



TEST NUMBER: P1335936

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MMS_3000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	2.6	3.8	5.2	5.6
70°	2.4	3.6	5.0	5.4
72.5°	2.0	3.4	4.6	5.0
75°	1.8	3.0	4.2	4.6
77.5°	1.6	2.6	3.8	4.0
80°	1.4	2.2	3.2	3.6
82.5°	1.0	1.6	2.6	2.8
85°	0.8	1.2	1.8	2.0
87.5°	0.6	0.6	1.0	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)