

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: P1335934

Luminaire Tested: P3A02R40B2750DE010 E3CA451MB_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335934
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 E3CA451MB_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 5000K CCT AND, 80CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

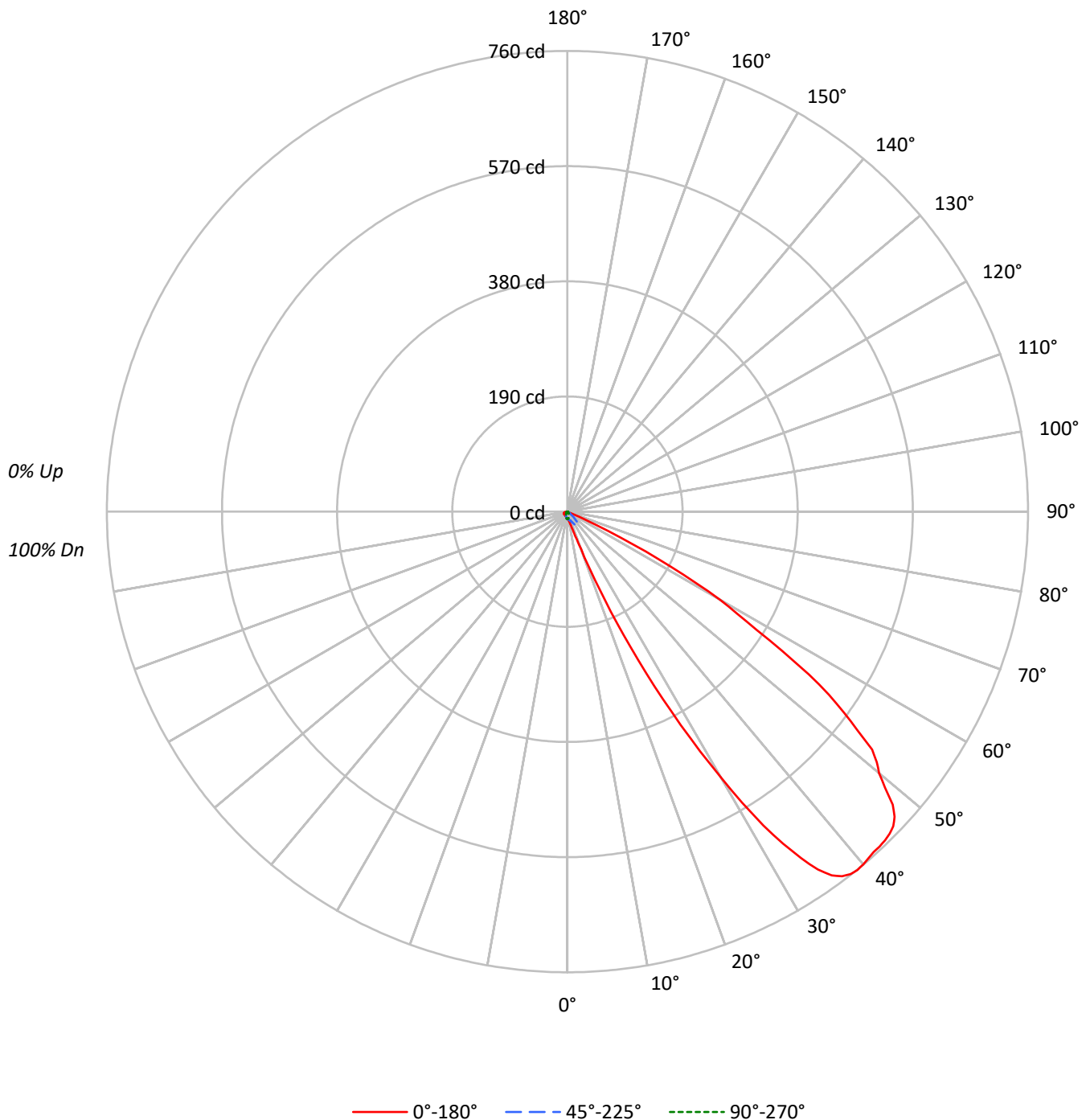
Lumens per Lamp: N/A
Luminaire Lumens: 235.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

Luminous Intensity Polar Plot





TEST NUMBER: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

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	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	73		
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°	2653	2653	2653	2653	2653
5°	2950	2840	2619	2377	2333
10°	3563	3028	2405	2160	2115
15°	5834	3292	2066	1907	1952
20°	15401	3874	1703	1703	1867
25°	59423	4815	1355	1573	1839
30°	128197	6406	1089	1519	1798
35°	192953	7576	937	1499	1847
40°	217407	7586	802	1546	1975
45°	233109	5892	744	1613	2140
50°	229110	3684	648	1706	2354
55°	201551	1797	650	1912	2638
60°	127577	395	746	2061	2938
65°	26099	104	778	2231	3269
70°	577	128	833	2500	3719
75°	508	339	932	2711	4236
80°	505	253	1137	3031	4925
85°	503	503	2264	3271	5535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 237319 cd/sqm

TEST NUMBER: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	3.7	1.6
20°-30°	18.3	7.8
30°-40°	59.4	25.3
40°-50°	81.9	34.8
50°-60°	57.0	24.3
60°-70°	10.8	4.6
70°-80°	1.9	0.8
80°-90°	0.9	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°	23.1	9.8
0°-40°	82.5	35.1
0°-60°	221.3	94.2
0°-90°	235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	235.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	13	12	11	11	1
15°	26	14	9	8	9	9
25°	246	20	6	6	8	126
35°	721	28	4	6	7	436
45°	752	19	2	5	7	572
55°	527	5	2	5	7	451
65°	50	0	2	4	6	89
75°	1	0	1	3	5	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.3	12.1
5°	13.4	13.4	13.4	13.4	13.2	13.2	13.2	12.9	12.9	12.5	11.9
7.5°	14.2	14.2	14.2	14.2	14.0	13.8	13.6	13.6	13.4	12.3	11.4
10°	16.0	16.0	15.8	15.5	15.3	14.9	14.7	14.2	13.6	12.1	10.8
12.5°	19.4	19.0	18.8	18.3	17.7	16.8	16.0	15.3	13.8	11.7	10.1
15°	25.7	25.3	24.4	23.1	21.8	20.1	18.6	17.0	14.5	11.0	9.1
17.5°	36.7	35.4	34.1	31.9	28.7	25.7	22.4	19.6	15.3	10.4	8.2
20°	66.0	65.2	57.4	51.4	41.7	34.7	28.3	23.5	16.6	9.7	7.3
22.5°	136.2	127.1	114.4	93.7	72.9	53.7	39.1	29.6	17.9	8.8	6.5
25°	245.6	231.4	203.9	164.0	121.1	85.7	56.5	38.6	19.9	8.0	5.6
27.5°	371.8	357.4	314.9	259.8	189.7	129.3	80.7	51.1	22.4	7.1	5.0
30°	506.3	494.0	440.0	363.9	267.4	181.1	108.1	63.9	25.3	6.3	4.3
31°	560.5	544.7	486.4	405.3	303.9	202.4	119.1	69.3	26.3	6.0	4.1
32°	610.3	592.4	532.0	445.0	333.4	225.5	131.2	74.0	27.2	5.6	3.9
33°	653.3	632.3	574.1	482.6	366.0	247.1	143.7	78.6	27.8	5.2	3.7
34°	689.7	671.6	609.0	520.3	394.9	267.8	156.0	83.1	28.3	5.0	3.5
35°	720.8	704.4	642.5	549.0	423.2	287.9	167.3	87.4	28.3	4.5	3.5
36°	741.8	727.5	671.4	578.4	447.0	304.9	176.8	91.3	28.3	4.1	3.2
37°	753.2	739.4	690.4	602.6	470.3	321.8	185.4	94.3	28.1	3.9	3.0
38°	759.0	746.9	704.4	622.2	486.4	333.9	192.9	96.7	27.8	3.5	3.0
39°	760.5	750.4	713.3	636.4	502.2	346.0	198.3	98.0	27.2	3.2	2.8
40°	759.5	750.6	718.0	649.2	514.3	355.4	202.2	98.4	26.5	2.8	2.8
41°	757.3	750.4	721.5	658.0	524.0	361.5	203.7	97.5	25.7	2.4	2.6
42°	755.4	747.8	723.0	664.1	530.7	364.5	203.5	95.8	24.4	2.2	2.6
43°	755.4	746.7	723.2	667.9	533.9	364.7	200.9	92.6	22.7	1.9	2.4
44°	754.1	746.1	724.3	670.5	534.8	362.8	196.8	89.1	20.7	1.7	2.4
45°	751.7	743.3	724.1	670.8	533.3	358.0	190.1	84.6	19.0	1.3	2.4
46°	747.2	739.6	722.1	669.2	528.7	351.1	182.1	80.1	17.0	1.1	2.2
47°	738.1	732.3	716.9	664.1	521.8	341.0	172.7	74.9	15.5	0.9	2.2
48°	722.5	718.4	708.1	652.6	508.7	328.5	162.5	69.3	14.0	0.9	2.2
49°	694.1	690.8	684.8	634.3	491.8	313.1	151.5	63.0	12.5	0.6	2.2
50°	671.6	668.2	655.9	603.4	467.7	293.7	139.4	56.8	10.8	0.4	1.9
51°	656.7	651.1	631.7	567.6	432.5	267.8	126.3	50.5	9.1	0.4	1.9
52°	637.9	629.5	605.4	535.4	400.3	241.9	112.0	44.2	8.0	0.4	1.9
53°	598.7	595.6	571.7	500.9	368.2	217.1	97.3	39.1	6.9	0.4	1.9
54°	564.4	559.8	527.2	453.0	333.2	189.5	82.2	34.5	5.8	0.4	1.9
55°	527.2	518.4	489.5	412.6	292.2	164.0	67.8	29.8	4.7	0.4	1.7
56°	480.4	472.6	441.6	369.5	254.4	138.1	56.8	24.4	3.7	0.4	1.7
57°	423.4	416.3	392.4	316.4	215.2	112.9	46.2	19.6	2.8	0.4	1.7
58°	368.4	360.4	333.0	265.5	173.7	89.6	38.6	16.0	2.2	0.4	1.7
59°	326.1	315.3	279.9	222.9	136.0	68.0	30.6	12.7	1.5	0.4	1.7
60°	290.9	282.1	245.4	185.6	106.6	50.1	22.7	9.7	0.9	0.4	1.7
62.5°	168.6	166.2	133.2	95.6	50.3	23.3	11.2	4.5	0.4	0.6	1.7
65°	50.3	43.8	34.1	20.3	12.9	7.8	4.1	1.5	0.2	0.6	1.5



TEST NUMBER: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.9	0.4	0.2	0.6	1.5
70°	0.9	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.6	1.3
72.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.4	0.6	1.1
75°	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.6	1.1
77.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.6	1.1
80°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.9
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.9
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.9
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: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	12.1	12.1	12.1	12.1
2.5°	11.7	11.4	11.2	11.2
5°	11.2	10.8	10.8	10.6
7.5°	10.6	10.1	10.1	10.1
10°	9.9	9.7	9.7	9.5
12.5°	9.1	9.1	9.1	9.1
15°	8.4	8.4	8.6	8.6
17.5°	7.6	7.8	8.2	8.4
20°	6.9	7.3	7.8	8.0
22.5°	6.5	6.9	7.6	7.8
25°	5.8	6.5	7.3	7.6
27.5°	5.4	6.3	6.9	7.3
30°	5.0	6.0	6.7	7.1
31°	5.0	5.8	6.7	7.1
32°	4.7	5.6	6.7	6.9
33°	4.7	5.6	6.7	6.9
34°	4.5	5.6	6.5	6.9
35°	4.5	5.6	6.5	6.9
36°	4.3	5.4	6.5	6.9
37°	4.3	5.4	6.5	6.9
38°	4.1	5.4	6.5	6.9
39°	4.1	5.4	6.5	6.9
40°	4.1	5.4	6.5	6.9
41°	3.9	5.4	6.5	6.9
42°	3.9	5.4	6.5	6.9
43°	3.9	5.2	6.5	6.9
44°	3.9	5.2	6.5	6.9
45°	3.7	5.2	6.5	6.9
46°	3.7	5.2	6.5	6.9
47°	3.7	5.2	6.5	6.9
48°	3.7	5.2	6.5	6.9
49°	3.7	5.2	6.5	6.9
50°	3.5	5.0	6.5	6.9
51°	3.5	5.0	6.5	6.9
52°	3.5	5.0	6.5	6.9
53°	3.5	5.0	6.5	6.9
54°	3.2	5.0	6.5	6.9
55°	3.2	5.0	6.5	6.9
56°	3.2	5.0	6.5	6.7
57°	3.2	5.0	6.3	6.7
58°	3.2	4.7	6.3	6.7
59°	3.2	4.7	6.3	6.7
60°	3.2	4.7	6.3	6.7
62.5°	3.0	4.7	6.0	6.5
65°	2.8	4.3	6.0	6.3



TEST NUMBER: P1335934

CATALOG NUMBER: P3A02R40B2750DE010 E3CA451MB_5000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	2.8	4.1	5.6	6.0
70°	2.6	3.9	5.4	5.8
72.5°	2.2	3.7	5.0	5.4
75°	1.9	3.2	4.5	5.0
77.5°	1.7	2.8	4.1	4.3
80°	1.5	2.4	3.5	3.9
82.5°	1.1	1.7	2.8	3.0
85°	0.9	1.3	1.9	2.2
87.5°	0.6	0.6	1.1	1.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)