

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: P1335916

Luminaire Tested: P3A02R40B2750DE010 E3A451WH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335916
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 E3A451WH_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3A451WH TRIM
Light Source: -
Ballast/Driver: -

Summary

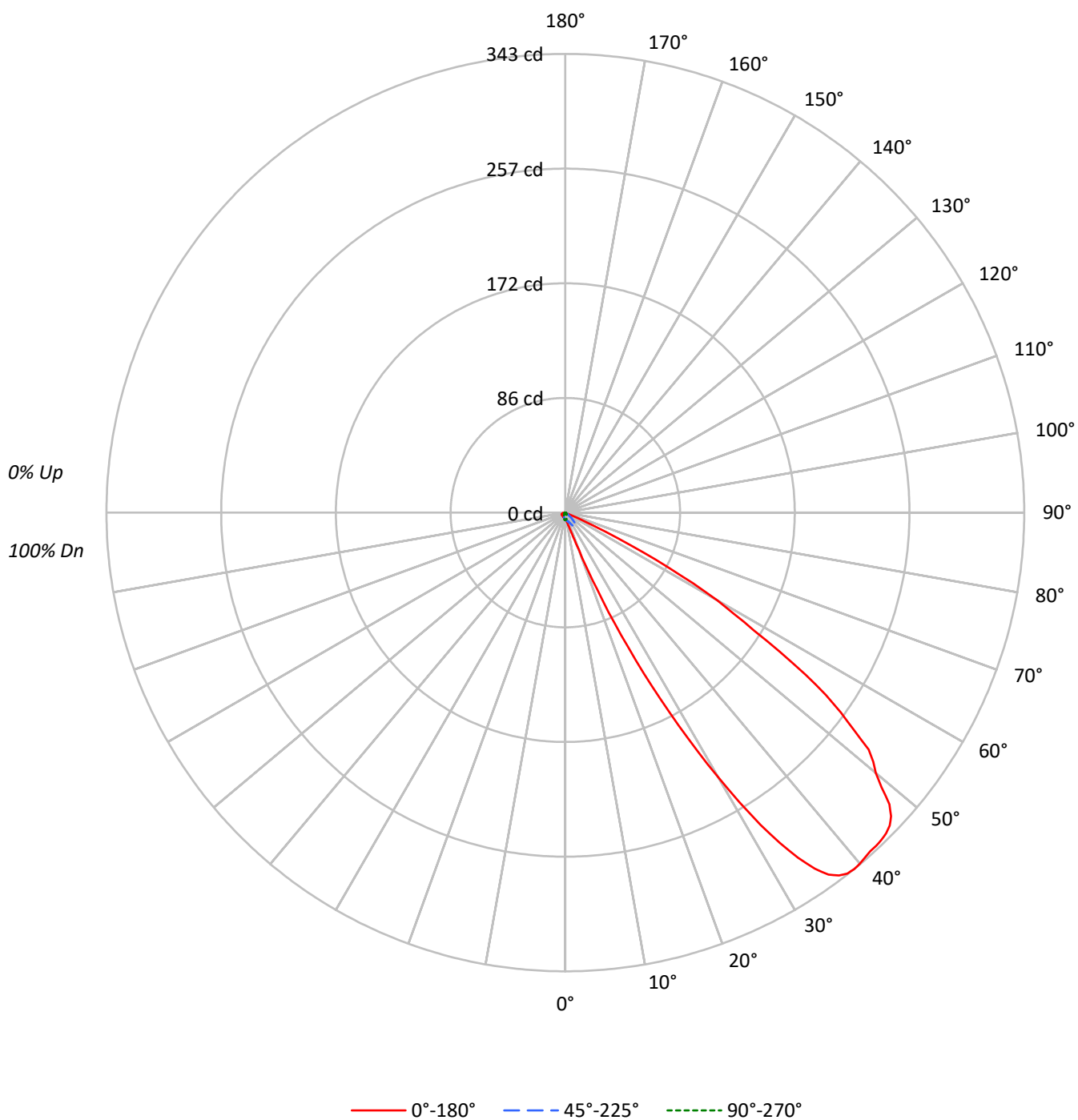
Lumens per Lamp: N/A
Luminaire Lumens: 106.0 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 3.98 / 0.73 / 1.54
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72	72	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60	60	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24	24	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18	18	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1206	1206	1206	1206	1206
5°	1321	1277	1189	1079	1057
10°	1603	1358	1091	980	957
15°	2633	1476	931	863	885
20°	6954	1750	770	770	840
25°	26808	2178	605	702	823
30°	57832	2887	481	684	810
35°	87027	3426	428	669	830
40°	98069	3435	372	687	887
45°	105158	2667	341	713	961
50°	103331	1672	307	751	1058
55°	90912	803	306	841	1185
60°	57539	175	351	921	1316
65°	11778	52	363	986	1453
70°	256	64	385	1154	1667
75°	254	169	424	1271	1864
80°	253	126	505	1389	2273
85°	252	252	1006	1510	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 107036 cd/sqm

TEST NUMBER: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	1.7	1.6
20°-30°	8.2	7.8
30°-40°	26.8	25.3
40°-50°	36.9	34.8
50°-60°	25.7	24.3
60°-70°	4.9	4.6
70°-80°	0.9	0.8
80°-90°	0.4	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°	10.4	9.8
0°-40°	37.2	35.1
0°-60°	99.8	94.2
0°-90°	106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	106.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	6	6	5	5	5	1
15°	12	6	4	4	4	4
25°	111	9	2	3	3	57
35°	325	13	2	2	3	196
45°	339	9	1	2	3	258
55°	238	2	1	2	3	203
65°	23	0	1	2	3	40
75°	0	0	0	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
2.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5
5°	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.8	5.6	5.4
7.5°	6.4	6.4	6.4	6.4	6.3	6.2	6.1	6.1	6.0	5.5	5.2
10°	7.2	7.2	7.1	7.0	6.9	6.7	6.6	6.4	6.1	5.5	4.9
12.5°	8.8	8.6	8.5	8.3	8.0	7.6	7.2	6.9	6.2	5.3	4.6
15°	11.6	11.4	11.0	10.4	9.8	9.1	8.4	7.7	6.5	5.0	4.1
17.5°	16.5	16.0	15.4	14.4	12.9	11.6	10.1	8.9	6.9	4.7	3.7
20°	29.8	29.4	25.9	23.2	18.8	15.7	12.8	10.6	7.5	4.4	3.3
22.5°	61.4	57.3	51.6	42.2	32.9	24.2	17.6	13.3	8.1	4.0	2.9
25°	110.8	104.4	92.0	74.0	54.6	38.6	25.5	17.4	9.0	3.6	2.5
27.5°	167.7	161.2	142.0	117.2	85.6	58.3	36.4	23.1	10.1	3.2	2.2
30°	228.4	222.8	198.5	164.1	120.6	81.7	48.8	28.8	11.4	2.8	1.9
31°	252.8	245.7	219.4	182.8	137.1	91.3	53.7	31.2	11.9	2.7	1.8
32°	275.3	267.2	240.0	200.7	150.4	101.7	59.2	33.4	12.3	2.5	1.8
33°	294.7	285.2	258.9	217.7	165.1	111.5	64.8	35.4	12.6	2.3	1.7
34°	311.1	302.9	274.7	234.7	178.1	120.8	70.4	37.5	12.8	2.2	1.6
35°	325.1	317.7	289.8	247.6	190.9	129.9	75.4	39.4	12.8	2.0	1.6
36°	334.6	328.2	302.8	260.9	201.6	137.6	79.7	41.2	12.8	1.8	1.5
37°	339.7	333.5	311.4	271.8	212.1	145.1	83.6	42.5	12.7	1.8	1.4
38°	342.4	336.9	317.7	280.6	219.4	150.6	87.0	43.6	12.6	1.6	1.4
39°	343.0	338.5	321.7	287.1	226.5	156.0	89.5	44.2	12.3	1.5	1.3
40°	342.6	338.6	323.9	292.8	232.0	160.3	91.2	44.4	12.0	1.3	1.3
41°	341.6	338.5	325.4	296.8	236.4	163.1	91.9	44.0	11.6	1.1	1.2
42°	340.7	337.3	326.1	299.5	239.4	164.4	91.8	43.2	11.0	1.0	1.2
43°	340.7	336.8	326.2	301.3	240.8	164.5	90.6	41.8	10.2	0.9	1.1
44°	340.1	336.5	326.7	302.5	241.2	163.6	88.8	40.2	9.3	0.8	1.1
45°	339.1	335.3	326.6	302.6	240.5	161.5	85.8	38.2	8.6	0.6	1.1
46°	337.0	333.6	325.7	301.9	238.5	158.4	82.2	36.1	7.7	0.5	1.0
47°	332.9	330.3	323.4	299.5	235.4	153.8	77.9	33.8	7.0	0.4	1.0
48°	325.9	324.1	319.4	294.4	229.4	148.2	73.3	31.2	6.3	0.4	1.0
49°	313.1	311.6	308.9	286.1	221.9	141.2	68.3	28.4	5.6	0.3	1.0
50°	302.9	301.4	295.8	272.2	210.9	132.5	62.9	25.6	4.9	0.2	0.9
51°	296.2	293.7	284.9	256.0	195.1	120.8	56.9	22.8	4.1	0.2	0.9
52°	287.8	284.0	273.1	241.5	180.6	109.1	50.5	20.0	3.6	0.2	0.9
53°	270.0	268.7	257.9	225.9	166.1	97.9	43.9	17.6	3.1	0.2	0.9
54°	254.6	252.5	237.8	204.3	150.3	85.5	37.1	15.6	2.6	0.2	0.9
55°	237.8	233.8	220.8	186.1	131.8	74.0	30.6	13.4	2.1	0.2	0.8
56°	216.7	213.2	199.2	166.7	114.8	62.3	25.6	11.0	1.7	0.2	0.8
57°	191.0	187.8	177.0	142.7	97.1	50.9	20.8	8.9	1.3	0.2	0.8
58°	166.2	162.6	150.2	119.7	78.4	40.4	17.4	7.2	1.0	0.2	0.8
59°	147.1	142.2	126.3	100.6	61.3	30.7	13.8	5.7	0.7	0.2	0.8
60°	131.2	127.2	110.7	83.7	48.1	22.6	10.2	4.4	0.4	0.2	0.8
62.5°	76.0	75.0	60.1	43.1	22.7	10.5	5.1	2.0	0.2	0.3	0.8
65°	22.7	19.8	15.4	9.2	5.8	3.5	1.8	0.7	0.1	0.3	0.7



TEST NUMBER: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.2	0.1	0.3	0.7
70°	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.5
75°	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.5
77.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.5
80°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3
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: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	5.5	5.5	5.5	5.5
2.5°	5.3	5.2	5.1	5.1
5°	5.1	4.9	4.9	4.8
7.5°	4.8	4.6	4.6	4.6
10°	4.5	4.4	4.4	4.3
12.5°	4.1	4.1	4.1	4.1
15°	3.8	3.8	3.9	3.9
17.5°	3.4	3.5	3.7	3.8
20°	3.1	3.3	3.5	3.6
22.5°	2.9	3.1	3.4	3.5
25°	2.6	2.9	3.3	3.4
27.5°	2.4	2.8	3.1	3.3
30°	2.2	2.7	3.0	3.2
31°	2.2	2.6	3.0	3.2
32°	2.1	2.5	3.0	3.1
33°	2.1	2.5	3.0	3.1
34°	2.0	2.5	2.9	3.1
35°	2.0	2.5	2.9	3.1
36°	1.9	2.4	2.9	3.1
37°	1.9	2.4	2.9	3.1
38°	1.8	2.4	2.9	3.1
39°	1.8	2.4	2.9	3.1
40°	1.8	2.4	2.9	3.1
41°	1.8	2.4	2.9	3.1
42°	1.8	2.4	2.9	3.1
43°	1.8	2.3	2.9	3.1
44°	1.8	2.3	2.9	3.1
45°	1.7	2.3	2.9	3.1
46°	1.7	2.3	2.9	3.1
47°	1.7	2.3	2.9	3.1
48°	1.7	2.3	2.9	3.1
49°	1.7	2.3	2.9	3.1
50°	1.6	2.2	2.9	3.1
51°	1.6	2.2	2.9	3.1
52°	1.6	2.2	2.9	3.1
53°	1.6	2.2	2.9	3.1
54°	1.5	2.2	2.9	3.1
55°	1.5	2.2	2.9	3.1
56°	1.5	2.2	2.9	3.0
57°	1.5	2.2	2.8	3.0
58°	1.5	2.1	2.8	3.0
59°	1.5	2.1	2.8	3.0
60°	1.5	2.1	2.8	3.0
62.5°	1.4	2.1	2.7	2.9
65°	1.3	1.9	2.7	2.8



TEST NUMBER: P1335916

CATALOG NUMBER: P3A02R40B2750DE010 E3A451WH_3000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	1.3	1.8	2.5	2.7
70°	1.2	1.8	2.4	2.6
72.5°	1.0	1.7	2.2	2.4
75°	0.9	1.5	2.0	2.2
77.5°	0.8	1.3	1.8	1.9
80°	0.7	1.1	1.6	1.8
82.5°	0.5	0.8	1.3	1.4
85°	0.4	0.6	0.9	1.0
87.5°	0.3	0.3	0.5	0.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)