

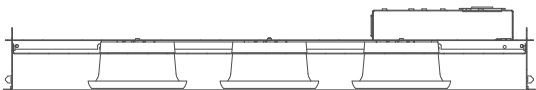
# FLUXWERX

SPECIFICATION DATA

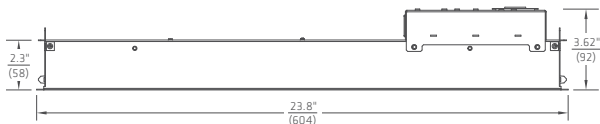
## LOOP RECESSED 2x2 (LR1-22)



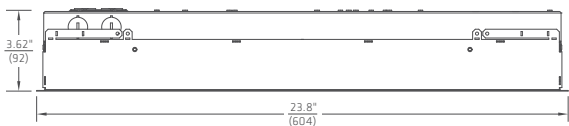
### CROSS SECTION



### DIMENSIONS



SIDE VIEW



FRONT VIEW

### CATALOG #

### PROJECT

### NOTES

### PERFORMANCE SUMMARY

|   | A       | B    | C    | D       |
|---|---------|------|------|---------|
| Light (lm)                              | 2750    | 3400 | 4050 | 5400    |
| Energy (W)                              | 19      | 23   | 29   | 38      |
| Efficacy (lm/W)                         | 149     | 146  | 143  | 138     |
| Color Rendering (CRI)                   | 80+     |      |      |         |
| Color Accuracy (SDCM)                   | < 2     |      |      |         |
| L70 Estimate (h)                        | 200,000 |      |      | 150,000 |
| Lumen Maintenance per TM21 (@ 54,000 h) | L90     |      |      | L88     |

Summary values are nominal and based on 4000K CCT.

### FEATURES

- Fluxwerx radial Anidolic optics provide a precisely controlled 360° symmetrical batwing distribution with no view of the LED point source
- Complete family of recessed configurations for a multitude of applications and spaces: 1x1, 1x2, 1x4, 2x2, 2x4 plus 6"x1, 6"x1.5, 6"x2 and 6"x4
- Companion Loop Suspended family allows for an aesthetically connected design language
- Suitable for T-Bar or Drywall ceilings with a Trim or Trimless Flange. 6" wide versions are compatible with TechZone™ and USGBX™ ceiling systems
- The light distribution and high efficacies combine to allow wide fixture spacing with ample general illumination at energy densities less than 0.4 W/ft<sup>2</sup>
- Third party tested, Lighting Facts certified and backed by a 5-year warranty



SPECIFICATION DATA  
**LOOP RECESSED 2x2 (LR1-22)**

**ORDER GUIDE**

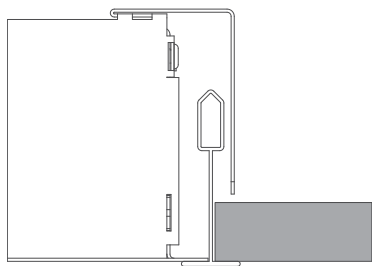
| 1          | 2         | 3 | 4 | 5 | 6 | OPTIONS |  |  |  |  |
|------------|-----------|---|---|---|---|---------|--|--|--|--|
| <b>LR1</b> | <b>22</b> |   |   |   |   |         |  |  |  |  |

| 1 FAMILY                                   | 2 SIZE                       | 3 ENERGY <sup>1</sup>          | 4 CCT  | 5 DRIVER  |
|--|------------------------------|--------------------------------|--|---|
| <b>LR1</b> Loop Recessed                   | <b>61</b> 6" x 1' (2 loop)   | <b>A</b> 9.5 W                 | <b>30</b> 3000 K<br><b>35</b> 3500 K<br><b>40</b> 4000 K | <b>F1</b> Non-Dim<br><b>F2</b> 0-10 V Dim 3%<br><b>E1</b> eldoLED ECO 0-10 V Dim 1%<br><b>E2</b> eldoLED SOLO 0-10 V Dim 0.1%<br><b>E3</b> eldoLED ECO DALI 1%<br><b>E4</b> eldoLED SOLO DALI Dim 0.1%<br><b>L1</b> Lutron Hi-Lume 1%-H EcoSystem |
|  | <b>65</b> 6" x 1.5' (3 loop) | <b>A</b> 12 W<br><b>B</b> 15 W |  |   |
|  | <b>11</b> 1' x 1'            | <b>A</b> 12 W                  |  |   |
|  | <b>62</b> 6" x 2'            | <b>B</b> 15 W                  |  |   |
|  | <b>12</b> 1' x 2'            | <b>C</b> 19 W                  |  |   |
|  | <b>▶22</b> 2' x 2'           | <b>A</b> 19 W                  |  |   |
|  | <b>64</b> 6" x 4'            | <b>B</b> 23 W                  |  |   |
|  | <b>14</b> 1' x 4'            | <b>C</b> 29 W                  |  |   |
|  | <b>24</b> 2' x 4'            | <b>D</b> 38 W                  |  |   |
| <sup>1</sup> Add 4W for 347 V with E1-4/L1 |                              |                                |  |   |

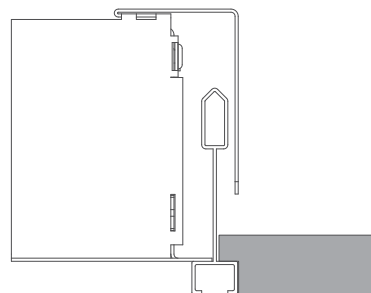
| 6 VOLTAGE   | OPTIONS  |
|---|--|
| <b>M</b> 120-277 V<br><b>3</b> 347 V <sup>2</sup>                                 | <b>B</b> Battery Pack <sup>3</sup><br><b>C</b> Chicago Plenum<br><b>F</b> 6' Flex Whip<br><b>K1</b> Drywall Flange Kit - Trim<br><b>K2</b> Drywall Flange Kit - Trimless |
| <sup>2</sup> 347 V Driver for F1/F2,<br>347 V Transformer & Driver<br>for E1-4/L1 | <sup>3</sup> Available for 120-277 V   |

## CEILING INTEGRATION GRID

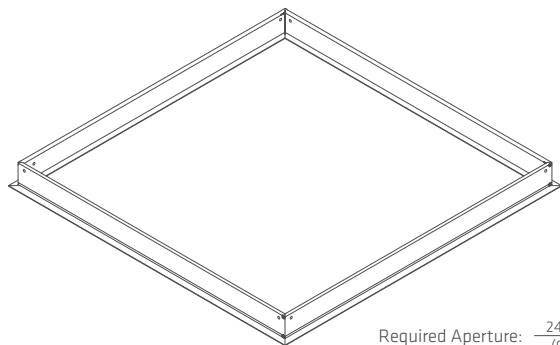
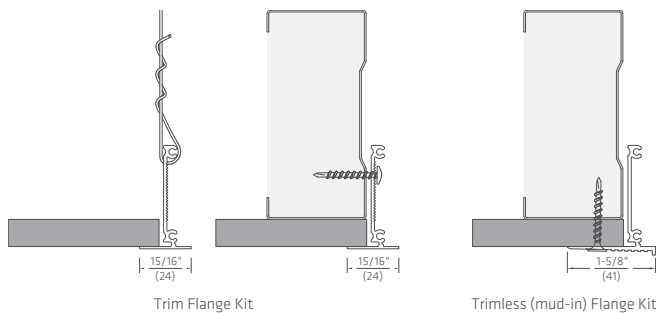
## FLAT GRID



## SLOT GRID



## CEILING INTEGRATION DRYWALL



Required Aperture:  $\frac{24.5'' \times 24.5''}{(622 \times 622)}$

## CONSTRUCTION

- Formed 22 ga. steel housing
- Quick wire access plate and integral seismic restraint tabs/tie-offs
- Optional drywall trim or trimless (mud-in) flange kits
- High reflectance diffuse white textured powdercoat

## OPTICAL

- Radial Anidolic optical structures with detailed light extraction elements for 360° symmetric batwing distribution
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance  $\geq$  L90 @ 54,000 h
- Available in CCTs 3000 K, 3500 K or 4000 K with CRI  $\geq$  80 and R9  $\geq$  0, all with color accurate binning  $\leq$  2 SDCM

## ELECTRICAL

- Integral high efficiency drivers 120-277 V or 347 V; 50-60 Hz
- Power Factor  $>$  0.90
- Total Harmonic Distortion  $<$  20%
- F2:0-10 V Dim Range: 3-100%
- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. Use 12 W input energy to estimate emergency flux, typically 1150-1750 lm (@100-150 lm/W).
- Optional Lutron: Hi-lume H-Series EcoSystem LED drivers for 100-1% (PWM) dim range
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

## ENVIRONMENTAL &amp; CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0-30° C (32-86° F)
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas. The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

## WEIGHT

- Maximum 18 lb (8.2 kg)
- Maximum 22 lb (10 kg) with battery pack

## WARRANTY

- 5 year limited warranty on all components and workmanship

## INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 9,000 h)

## APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated
- Lighting Facts®
- DesignLights Consortium®  
*Most options DLC qualified, please check catalog number in the QPL list ([www.designlights.org/QPL](http://www.designlights.org/QPL))*

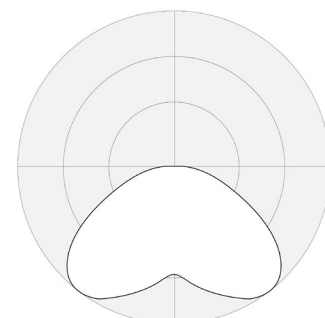
### PERFORMANCE DATA

| A 19 W                   | CCT    | LIGHT (lm) | ENERGY (W) | EFFICACY (lm/W) | (CRI) | COLOR ACCURACY (R9) | (SDCM) |
|--------------------------|--------|------------|------------|-----------------|-------|---------------------|--------|
| <b>VERSION LR1-22A40</b> | 4000 K | 2737       | 18.4       | 148.7           | 83.4  | 8.5                 | < 2    |
|                          | 3500 K | 2714       | 18.4       | 147.5           | 83.4  | 8.5                 |        |
| REPORT 12167992.07A      | 3000 K | 2690       | 18.84      | 142.8           | 82.8  | 5.7                 |        |

| B 23 W                   | CCT    | LIGHT (lm) | ENERGY (W) | EFFICACY (lm/W) | (CRI) | COLOR ACCURACY (R9) | (SDCM) |
|--------------------------|--------|------------|------------|-----------------|-------|---------------------|--------|
| <b>VERSION LR1-22B40</b> | 4000 K | 3391       | 23.16      | 146.4           | 83.4  | 8.5                 | < 2    |
|                          | 3500 K | 3282       | 23.16      | 141.7           | 83.4  | 8.5                 |        |
| REPORT 12167992.01A      | 3000 K | 3173       | 23.16      | 137             | 82.5  | 4.6                 |        |

| C 29 W                   | CCT    | LIGHT (lm) | ENERGY (W) | EFFICACY (lm/W) | (CRI) | COLOR ACCURACY (R9) | (SDCM) |
|--------------------------|--------|------------|------------|-----------------|-------|---------------------|--------|
| <b>VERSION LR1-22C40</b> | 4000 K | 4074       | 28.41      | 143.4           | 83.4  | 8.4                 | < 2    |
|                          | 3500 K | 3943       | 28.41      | 138.8           | 83.4  | 8.4                 |        |
| REPORT 12167992.02A      | 3000 K | 3813       | 28.41      | 134.2           | 82.5  | 4.6                 |        |

| D 38 W                   | CCT    | LIGHT (lm) | ENERGY (W) | EFFICACY (lm/W) | (CRI) | COLOR ACCURACY (R9) | (SDCM) |
|--------------------------|--------|------------|------------|-----------------|-------|---------------------|--------|
| <b>VERSION LR1-22D40</b> | 4000 K | 5377       | 39.06      | 137.7           | 83.3  | 8.2                 | < 2    |
|                          | 3500 K | 5205       | 39.06      | 133.2           | 83.3  | 8.2                 |        |
| REPORT 12167992.05B      | 3000 K | 5032       | 38.41      | 131             | 82.5  | 4.6                 |        |



100% Dn  
Loop Recessed  
2' x 2'  
4000 K

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results at 38W (D). Candlpower Distribution scaled per total lumens of Integrating Sphere results.

#### LR1-22A30

**LED lighting facts**

**Light Output (Lumens)** 2690  
**Watts** 18.84  
**Lumens per Watt (Efficacy)** 142.78

**Color Accuracy**  
Color Rendering Index (CRI) **82**

**Light Color**  
Correlated Color Temperature (CCT) **3000 (Bright White)**

Warm White | Bright White | Daylight

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: XA4K-XD3P5 (2/19/2018)  
Model Number: LR122A30P1F3E14E3E34H  
Type: Luminaire - Troffer/Grid Ceiling

#### LR1-22C40

**LED lighting facts**

**Light Output (Lumens)** 4074  
**Watts** 28.41  
**Lumens per Watt (Efficacy)** 143.4

**Color Accuracy**  
Color Rendering Index (CRI) **83**

**Light Color**  
Correlated Color Temperature (CCT) **4000 (Bright White)**

Warm White | Bright White | Daylight

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: XA4K-KNMP6 (2/19/2018)  
Model Number: LR122C40P1F3E14E3E34H  
Type: Luminaire - Troffer/Grid Ceiling

#### LR1-22D40

**LED lighting facts**

**Light Output (Lumens)** 5377  
**Watts** 39.06  
**Lumens per Watt (Efficacy)** 137.66

**Color Accuracy**  
Color Rendering Index (CRI) **83**

**Light Color**  
Correlated Color Temperature (CCT) **4000 (Bright White)**

Warm White | Bright White | Daylight

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: XA4K-CB31N (2/19/2018)  
Model Number: LR122D40P1F3E14E3E34H  
Type: Luminaire - Troffer/Grid Ceiling