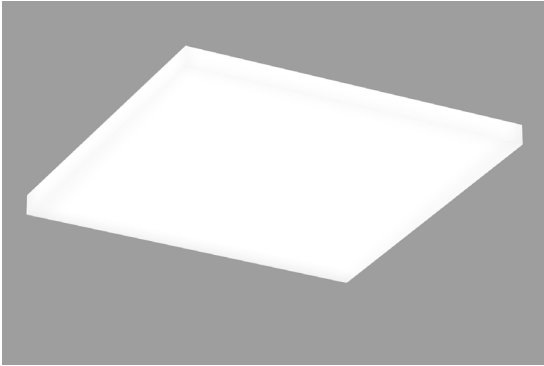


# POP CORE SQUARE 44 LED

## SURFACE



Surface with 2.5" optic

### DESCRIPTION

**POP Core** features a simple, uniformly luminous diffuser and delivers up to 117 LPW. The diffuser and light engine form a fully enclosed unit secured by a twist-and-lock mechanism for easy maintenance with no exposed hardware.

PROJECT: \_\_\_\_\_

TYPE: \_\_\_\_\_

NOTES: \_\_\_\_\_



## ORDER GUIDE

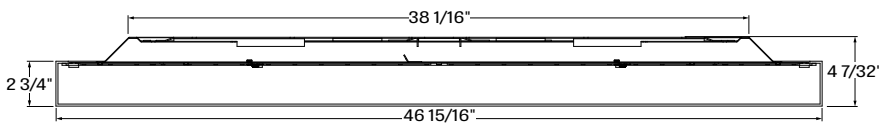
up to 117 lm/W performance

| POSQS                      | 4FTX4FT           | ULO                            | 2H              | SW                |                          |  |
|----------------------------|-------------------|--------------------------------|-----------------|-------------------|--------------------------|--|
| LUMINAIRE ID               | SIZE              | OPTIC                          | HEIGHT          | LIGHT SOURCE      | CRI                      | LUMEN PACKAGE  |
| POSQS - Pop Square Surface | 4FTX4FT - 4' X 4' | ULO - Uniform Lambertian Optic | 2H - 2.5" optic | SW - Static white | 80 - 80CRI<br>90 - 90CRI | 7000 - Min. low output 7000lm<br>10000 - Medium output 10000lm<br>14000 - Max. high output 14000lm<br>#### - Other required lm |

|  |   |  |   | SUR                 |   |  |
|--|---|--|---|---------------------|---|--|
| COLOR TEMP.  | VOLTAGE   | DRIVER   | ELECTRICAL  | MOUNTING            | FINISH  | OPTIONS                                |
| 27 - 2700K<br>30 - 3000K<br>35 - 3500K<br>40 - 4000K | 120 - 120V<br>277 - 277V<br>UNV - 120V-277V<br>347 - 347V | D1 - 1% 0-10V<br>DA - DALI<br>LDE1 - Lutron Hi-lume 1% Eco | 1 - 1 circuit<br>+EB - Emergency battery pack<br>+GTD - Generator transfer device | SUR - Surface mount | W - Matte white<br>CF# - Custom finish specify RAL# | FU120 - Fuse 120V<br>FU277 - Fuse 277V |

See page 3 for ordering code detailed information

## CROSS SECTION

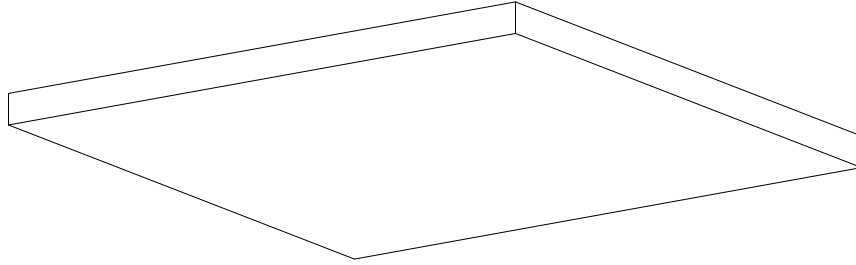


POSQS + 2H - Pop Square Surface with 2.5" optic

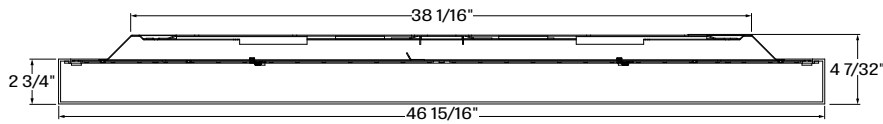
# POP CORE SQUARE 44 LED

SURFACE

## POP SQUARE 2H - 2.5" OPTIC



POSQS + 2H - Pop Square Surface with 2.5" optic



# POP CORE SQUARE 44 LED

## SURFACE

### OPTIC

**Uniform Efficiency Lambertian Optic (ULO)** - Made of formed impact modified white PMMA, the optic provides an even light distribution with up to 88% transmission. Its unique enclosed shell design protects LEDs against Electrostatic Discharge and dust while its back surface project a soft glow on the mounting surface.

### OPTIC HEIGHT

Pop square surface 44 is available with 2.5" diffuser.



POSQS + 2H - Pop Square Surface with 2.5" optic

### LIGHT SOURCE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

| LED output    | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|---------------|------------|-------|--------------------------|--------------|
| Low output    | 4000K      | 60    | 7000                     | 117          |
| Medium output | 4000K      | 88    | 10000                    | 114          |
| High output   | 4000K      | 126   | 14000                    | 111          |

### ELECTRICAL

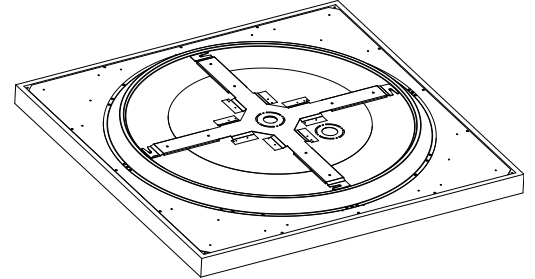
Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Hi-Lume 1% Eco and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

### EMERGENCY

Factory installed long life high temperature recyclable Ni-Cad battery pack with test switch and charge indicator, minimum of 90 minutes operation, up to 1300 lumens (25°C) emergency lighting output. Recharge time of 24 hours.

### MOUNTING OPTIONS

A Twist and lock mounting system for clean look with no visible fastener and easy maintenance.



SUR - Surface mount

### FINISH

**Interior** - 95% reflective, matte white powder coating

**Exterior** - Matte white powder coating.

### CONSTRUCTION

**Housing:** 16 gauge spun aluminum, matte white powder coating

**Diffuser:** Uniform Lambertian Optic, precisely formed impact modified acrylic, completely enclosed

### WEIGHT

**SQ 44 X 2.5** - 45.36lbs - 20.6kg

### CERTIFICATIONS

**ETL** - Rated for Indoor Dry/Damp locations.

Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

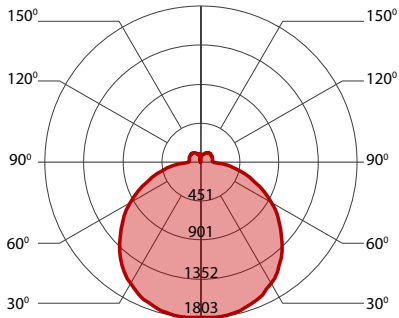
### WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

# POP CORE SQUARE 44 LED

## SURFACE

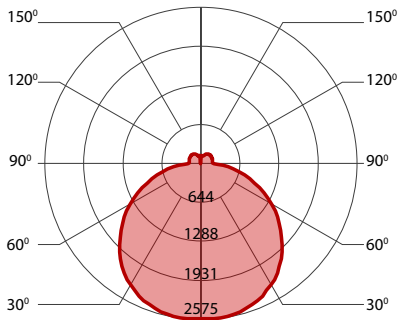
### 7000 LUMEN AT 80CRI - LOW OUTPUT



#### PERFORMANCE

| LED output | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|------------|------------|-------|--------------------------|--------------|
| Low output | 2700K      | 65.5  | 7000                     | 107          |
| Low output | 3000K      | 63.5  | 7000                     | 110          |
| Low output | 3500K      | 62    | 7000                     | 113          |
| Low output | 4000K      | 60    | 7000                     | 117          |

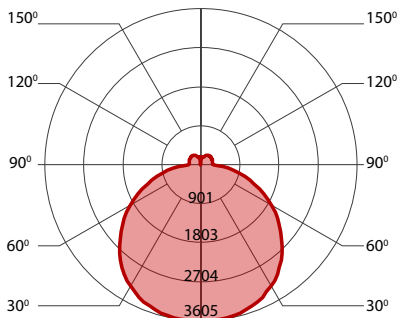
### 10000 LUMEN AT 80CRI - MEDIUM OUTPUT



#### PERFORMANCE

| LED output    | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|---------------|------------|-------|--------------------------|--------------|
| Medium output | 2700K      | 95    | 10000                    | 105          |
| Medium output | 3000K      | 93.5  | 10000                    | 107          |
| Medium output | 3500K      | 91    | 10000                    | 110          |
| Medium output | 4000K      | 88    | 10000                    | 114          |

### 14000 LUMEN AT 80CRI - HIGH OUTPUT



#### PERFORMANCE

| LED output  | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|-------------|------------|-------|--------------------------|--------------|
| High output | 2700K      | 137.5 | 14000                    | 102          |
| High output | 3000K      | 134.5 | 14000                    | 104          |
| High output | 3500K      | 131   | 14000                    | 107          |
| High output | 4000K      | 126   | 14000                    | 111          |