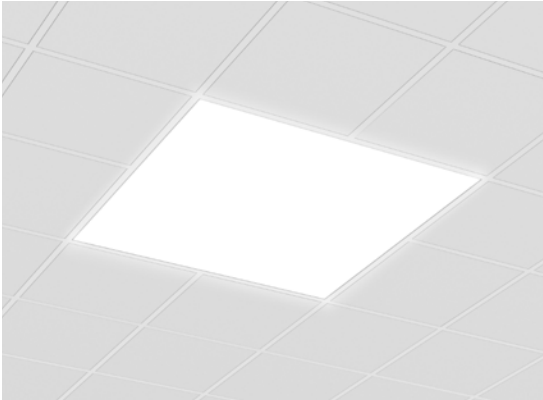


POP RECESSED

SQUARE 4x4
STATIC WHITE

LUMENWERX

Project: _____
Type: _____



Flush lens

DESCRIPTION

POP Recessed features a uniformly luminous diffuser that sits flush with the ceiling. The diffuser and light engine form a fully enclosed unit secured by a twist-and-lock mechanism for easy maintenance with no exposed hardware. POP Recessed delivers up to 114 LPW and installs in grid board ceilings.



IC RATED

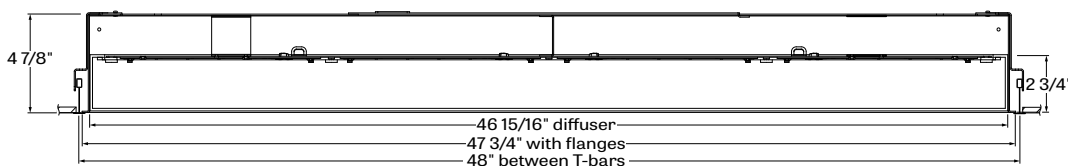
Up to 114 lm/W performance

ORDER GUIDE

| LUMINAIRE ID | SIZE | OPTICS | LENS | LIGHT SOURCE | CRI | LUMEN PACKAGES |
|------------------------------------|-------------------|---------------------------------------|-------------------|--------------------------|--|--|
| POSQR | 44 | ULO | FH | | | |
| POSQR - Pop Square Recessed | 44 - 4'x4' | ULO - Uniform Lambertian Optic | FH - Flush | SW - Static white | 80 - 80CRI 90 - 90CRI | 7000 - Min. low output 7000lm 10000 - Medium output 10000lm 14000 - Max. high output 14000lm #### - Other required lm |

| COLOR TEMP. | VOLTAGE | DRIVER ¹ | ELECTRICAL | MOUNTING | FINISH | OPTIONS |
|--|---|--|--|--|------------------------|--|
| 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K | 120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V | D1 - 1% dimming 0-10V DA ² - DALI LTEA2W - Lutron 1% - 2 wire FP 120V LDE1 ² - Lutron Hi-lume 1% Eco LDES ² - Lutron 5% EcoSystem ELDI - eldoLED 1% ECOdrive ELDO - eldoLED 0.1% SOLOdrive ¹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ² On-site commissioning is required. | 1 - 1 circuit +EB - Emergency battery pack +GTD - Generator transfer device | TG9 - tegular 9/16" TG15 - Tegular 15/16" TB9 - T-bar 9/16" TB15 - T-bar 15/16" ST - screw slot t-bar | W - Matte white | FU - Fuse CP - Chicago Plenum NA - None |

CROSS SECTION



POSQR + FH - pop square recessed with flush lens

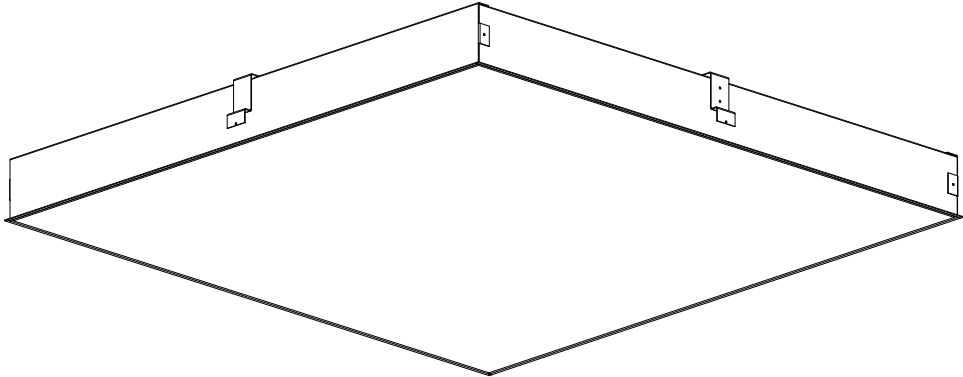
POP RECESSED

SQUARE 4x4
STATIC WHITE

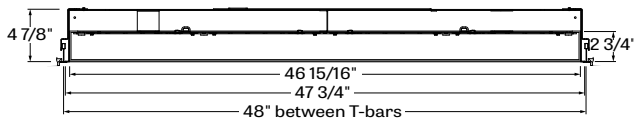
LUMENWERX

GRID CEILINGS

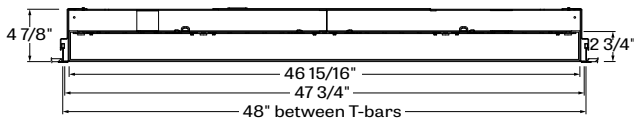
RECESSED FH - FLUSH



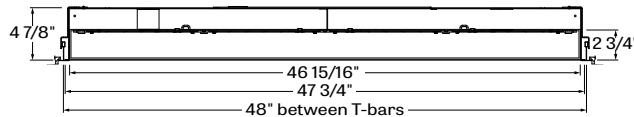
POSQR - TG9 - tegular 9/16"



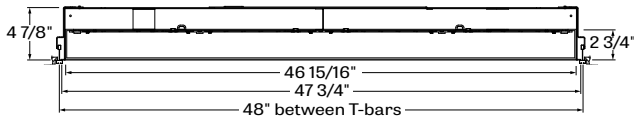
POSQR - TB15 - t-bar 15/16"



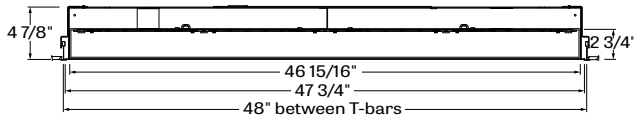
POSQR - TG15 - tegular 15/16"



POSQR - ST- screw slot t-bar



POSQR - TB9 - t-bar 9/16"



POP RECESSED

SQUARE 4x4

STATIC WHITE

OPTICS

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.

LIGHT SOURCE - STATIC WHITE

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.

PERFORMANCE AT 4000K

| LED output | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|---------------|------------|-------|--------------------------|--------------|
| Low output | 4000K | 61.5 | 7000 | 114 |
| Medium output | 4000K | 89.5 | 10000 | 112 |
| High output | 4000K | 128.5 | 14000 | 109 |

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 Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), Lutron 5-Series (5% Ecosystem), eldoLED 1% ECOdrive, eldoLED 0.1% SOLOdrive, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

EMERGENCY

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 10W (25°C) emergency lighting output and recharge time of 24 hours.

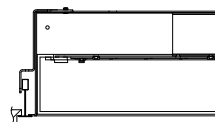
PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

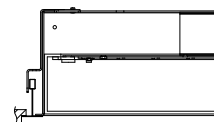
LUMENWERX

MOUNTING OPTIONS

Recess mount into exposed or concealed T-Bar or Tegular grid ceiling.



TG9 - tegular 9/16"



TG15 - tegular 15/16"



TB9 - t-bar 9/16"



TB15 - t-bar 15/16"



ST - screw slot t-bar

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, thermoformed impact modified acrylic, completely enclosed

WEIGHT

SQ 44 Flush, 1D, 2D - 55.68lbs - 25.28kg

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

Chicago plenum - City of Chicago Approved (CCEA)

IC rated - suitable for direct contact with insulation.

WARRANTY

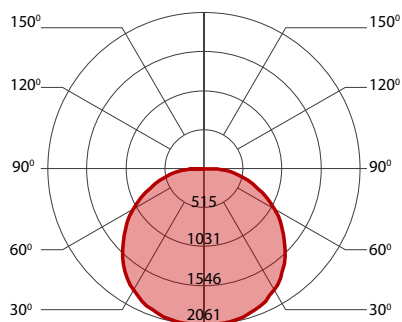
Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated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

POP RECESSED

LUMENWERX

SQUARE 4x4
STATIC WHITE

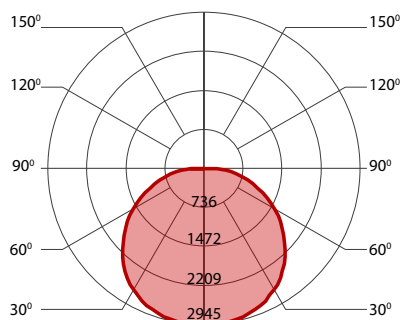
7000 LUMEN AT 80CRI - LOW OUTPUT



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 |

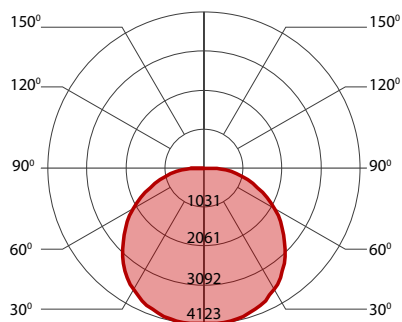
10000 LUMEN AT 80CRI - MEDIUM OUTPUT



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 | 140 | 14000 | 100 |
| High output | 3000K | 137.5 | 14000 | 102 |
| High output | 3500K | 132 | 14000 | 106 |
| High output | 4000K | 128.5 | 14000 | 109 |