

# POP RECESSED

ROUND 24

STATIC WHITE, FULL SPECTRUM



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 109 LPW and installs in grid or gypsum board ceilings.

# LUMENWERX

Project: \_\_\_\_\_

Type: \_\_\_\_\_



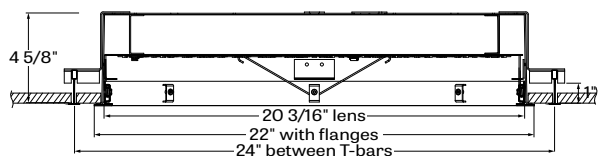
IC RATED

Up to 109 lm/W performance

## ORDER GUIDE

LUMINAIRE ID	SIZE	OPTICS	LENS	LIGHT SOURCE	CRI	LUMEN PACKAGES
<b>POROR</b>	<b>24</b>	<b>ULO</b>	<b>FH</b>			
<b>POROR</b> - Pop Round Recessed	<b>24</b> - 24" diameter	<b>ULO</b> - Uniform Lambertian Optic	<b>FH</b> - Flush	<b>SW</b> - Static white <b>FS</b> - Full spectrum	<b>80</b> - 80CRI <b>90</b> - 90CRI	<b>2500</b> - Min. low output 2500lm <b>3500</b> - Medium output 3500lm <b>4500</b> <sup>1</sup> - Max. high output 4500lm (80CRI only) <b>####</b> - Other required lm  <sup>1</sup> Not available with full spectrum.
COLOR TEMP.	VOLTAGE	DRIVER <sup>2</sup>	ELECTRICAL	MOUNTING	FINISH	OPTIONS
<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V <b>347</b> - 347V	<b>D1</b> - 1% dimming 0-10V <b>DA</b> <sup>3</sup> - DALI <b>LTEA2W</b> - Lutron 1% - 2 wire FP 120V <b>LDE1</b> <sup>3</sup> - Lutron Hi-lume 1% Eco <b>LDE5</b> <sup>3</sup> - Lutron 5% EcoSystem <b>ELD1</b> - eldoLED 1% ECOdrive <b>ELD0</b> - eldoLED 0.1% SOLOdrive  <sup>2</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>3</sup> On-site commissioning is required.	<b>1</b> - 1 circuit <b>+EB</b> - Emergency battery pack <b>+CTD</b> - Generator transfer device	<b>TC9</b> - tegular 9/16" <b>TG15</b> - tegular 15/16" <b>TB9</b> - t-bar 9/16" <b>TB15</b> - t-bar 15/16" <b>ST</b> - Screw slot t-bar <b>DF</b> - Drywall kit	<b>W</b> - Matte white <b>WA</b> - White antimicrobial Silverwerx	<b>FU</b> - Fuse <b>CP</b> - Chicago Plenum  <b>GATR</b> <sup>4</sup> - Gasketed construction with acrylic lens and tamper-resistant screws <b>GPTR</b> <sup>4,5</sup> - Gasketed construction with polycarbonate lens and tamper-resistant screws <b>PTR</b> <sup>5</sup> - Polycarbonate lens with tamper-resistant screws  <b>NA</b> - None  <sup>4</sup> IP54 rated when specified with gasketed construction and drywall ceiling mounting options. <sup>5</sup> IK10 rated when specified with polycarbonate lens.

## CROSS SECTION



**POROR + FH** - Pop Round Recessed with flush lens

# POP RECESSED

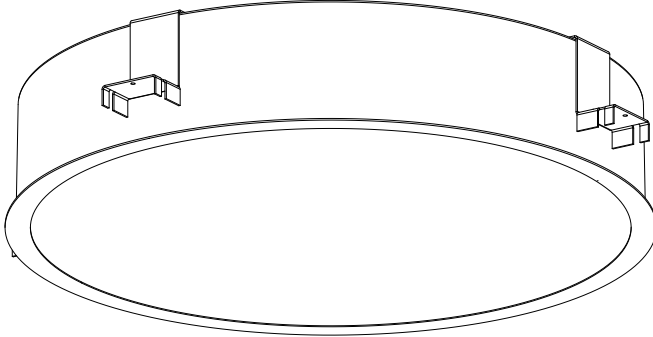
ROUND 24

STATIC WHITE, FULL SPECTRUM

# LUMENWERX

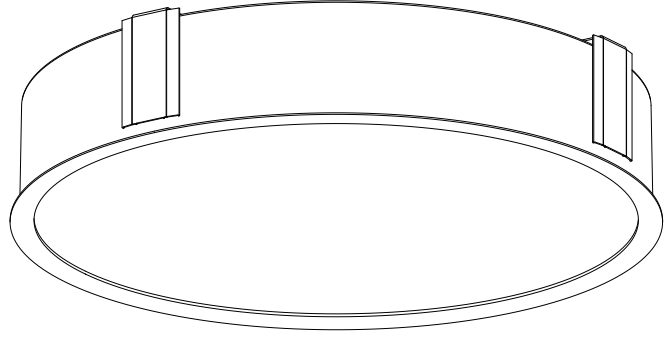
## GRID CEILINGS

### RECESSED FH - FLUSH

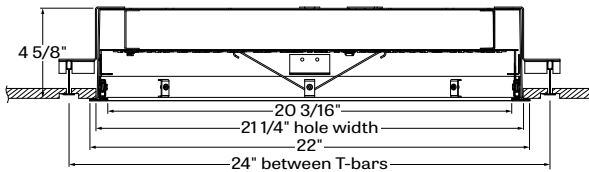


## DRYWALL CEILINGS

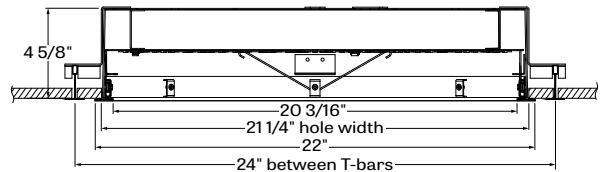
### RECESSED FH - FLUSH



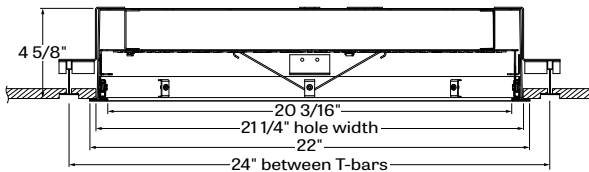
#### POROR - TG9 - tegular 9/16"



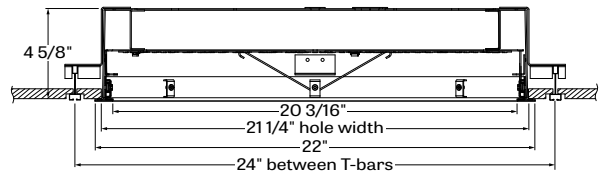
#### POROR - TB15 - t-bar 15/16"



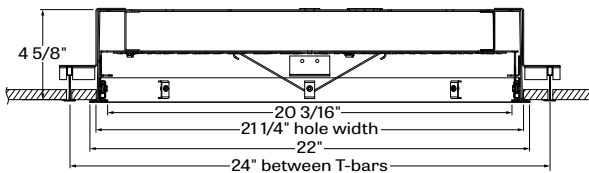
#### POROR - TG15 - tegular 15/16"



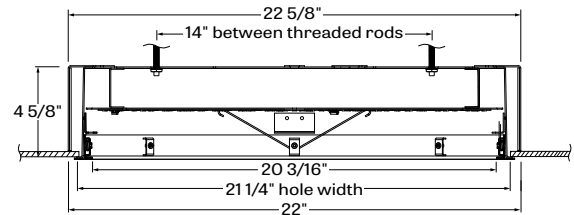
#### POROR - ST- screw slot t-bar



#### POROR - TB9 - t-bar 9/16"



#### POROR - DF - drywall kit



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## STATIC WHITE, FULL SPECTRUM

### 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	23	2500	109
Medium output	4000K	33.5	3500	105
High output	4000K	44.5	4500	101

### LIGHT SOURCE - FULL SPECTRUM

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

### 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.

### PoE

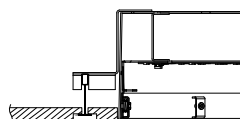
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and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

### EMERGENCY

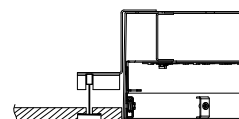
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 10W (25°C) emergency lighting output and recharge time of 24 hours.

### MOUNTING OPTIONS

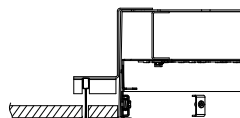
Recess mount into exposed or concealed T-Bar or Tegular grid ceiling. A separate kit for mounting fixtures into drywall ceilings.



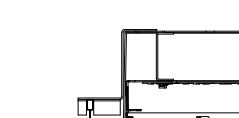
TG9 - tegular 9/16"



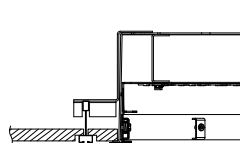
TG15 - tegular 15/16"



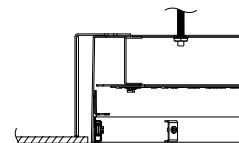
TB9 - t-bar 9/16"



TB15 - t-bar 15/16"



ST - screw slot t-bar



DF - drywall kit

### FINISH

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

**Exterior** - matte white powder coating. Optional antimicrobial finish

### GASKETED CONSTRUCTION OPTION

The lens is gasketed and sealed, making the fixture suitable for healthcare applications. IP54 rated when specified with the drywall ceiling mounting option.

### CONSTRUCTION

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

**Diffuser** - Uniform Lambertian optic, thermoformed impact modified acrylic, completely enclosed

**Gasket (GATR, GPTR options)** - Closed-cell silicone foam gasket

### WEIGHT

**RD 24 Flush** - 12.64lbs - 5.74kg

### 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.

**NSF** - NSF2 Listed for Non-Food Zones.

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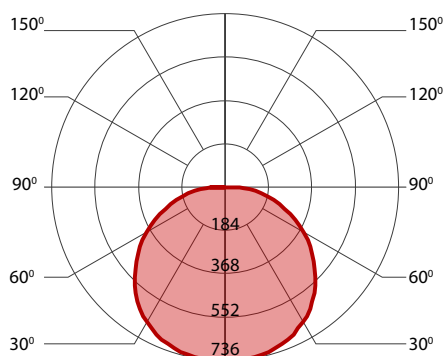
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## WARRANTY

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.

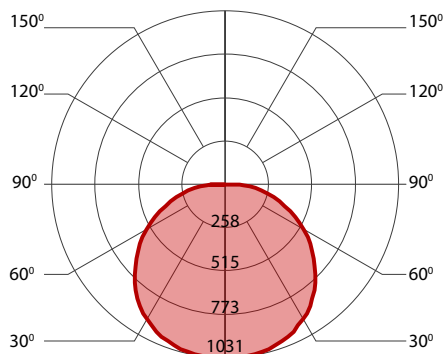
## 2500 LUMEN AT 80CRI - LOW OUTPUT



### PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Low output	2700K	25	2500	100
Low output	3000K	24.5	2500	102
Low output	3500K	23.5	2500	106
Low output	4000K	23	2500	109

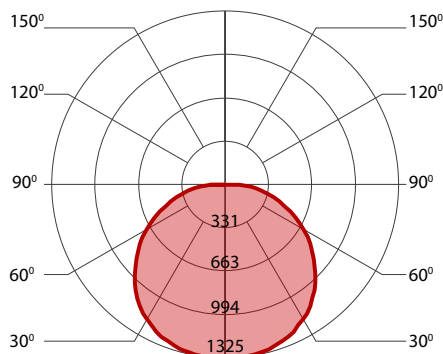
## 3500 LUMEN AT 80CRI - MEDIUM OUTPUT



### PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
Medium output	2700K	36.5	3500	96
Medium output	3000K	35.5	3500	98
Medium output	3500K	34.5	3500	102
Medium output	4000K	33.5	3500	105

## 4500 LUMEN AT 80CRI - HIGH OUTPUT



### PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
High output	2700K	48.5	4500	93
High output	3000K	47.5	4500	95
High output	3500K	46	4500	98
High output	4000K	44.5	4500	101