

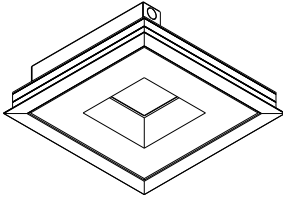


# POLY 1x1 LED

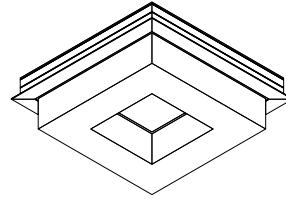


## RECESSED

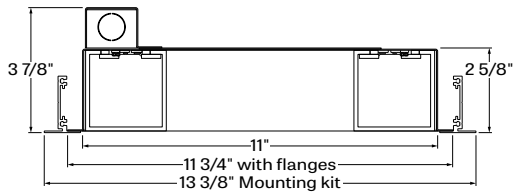
### RECESSED REGRESSED LENS



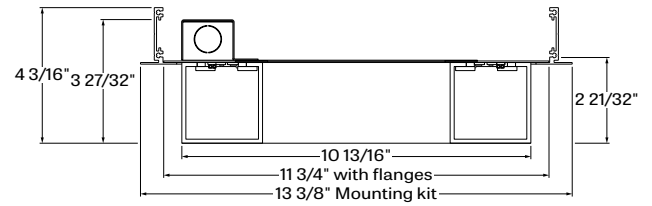
### RECESSED DROP LENS



**POLRR** - DF - drywall kit



**POLRD** - DF - drywall kit



# POLY 1x1 LED



## RECESSED

### OPTIC

The **Uniform Luminous Optic (ULO)** drop lens of thermoformed acrylic provides three luminous faces with subtle uplight.

### LIGHT SOURCE - LED

Custom Linear array of mid-flux LED's 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      | 6.5   | 800                      | 122          |
| medium output | 4000K      | 12    | 1400                     | 118          |
| high output   | 4000K      | 17.5  | 2000                     | 115          |

### 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% Eco and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

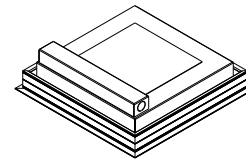
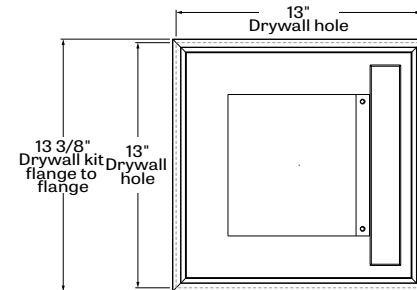
### EMERGENCY

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

Recessed Poly offers two profiles: two-sided diffusers form a recessed coffer, while three-sided diffusers drop 2" below the ceiling.

A separate kit for mounting fixtures into drywall ceilings



DF - drywall kit

### FINISH

95% reflective, matte white powder coating

### CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

For latest information on sensors, click [here](#).



### Standalone controls

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

Three types are available:

# POLY 1x1 LED



## RECESSED

**OMS:** An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

**ODS:** An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

**OCS:** Both an occupancy and a daylight sensor are installed in the luminaire.

### Connected controls

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for LumenWerx to create shop drawings and submittals.

### UTILITY PLATES

Recessed Poly features a center utility plate that subtly integrates, air return diffusers, as well as third-party connections, such as sprinkler heads or speakers by others.

### CONSTRUCTION

**Housing (LED holder for regressed lens)** - Die formed cold rolled sheet steel 18 gauge thick, 95% reflective matte white painted

**Reflector plate (LED holder for drop lens)** - Die formed cold rolled sheet steel 18 gauge thick, 95% reflective matte white painted

**Lens** - white acrylic

**Driver box** - Die formed cold rolled sheet steel 20 gauge thick, white painted

**Cover plate** - Die formed cold rolled sheet steel 18 gauge thick, 95% reflective matte white painted. Custom finishes are also available

**Drywall kit** - Extruded Aluminum 0.07" nominal, matte white powder coating

### WEIGHT

**POLY 1X1 grid** - 9.54lbs - 4.32kg

**POLY 1X1 drywall** - 12.05lbs - 5.46kg

### CERTIFICATION

**ETL** - Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

### WARRANTY

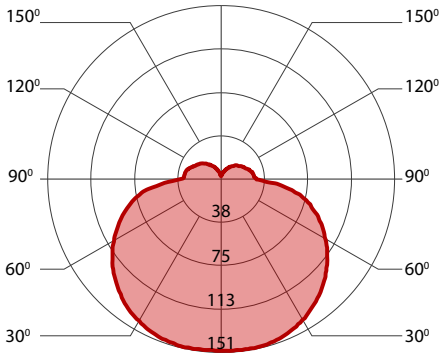
LumenWerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. LumenWerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated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

# POLY 1x1 LED



## RECESSED

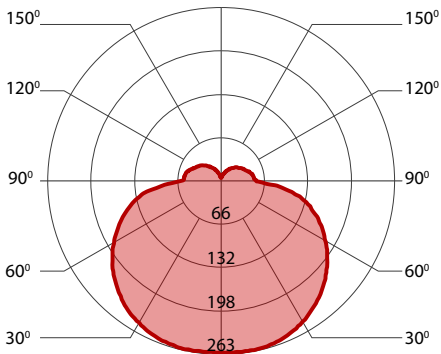
### 800 LUMEN AT 80CRI - LOW OUTPUT



#### PERFORMANCE

| LED output | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|------------|------------|-------|--------------------------|--------------|
| low output | 3000K      | 7     | 800                      | 117          |
| low output | 3500K      | 6.5   | 800                      | 119          |
| low output | 4000K      | 6.5   | 800                      | 122          |

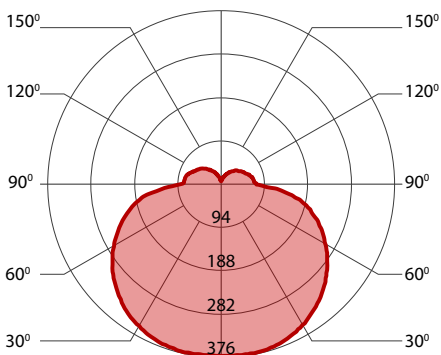
### 1400 LUMEN AT 80CRI - MEDIUM OUTPUT



#### PERFORMANCE

| LED output    | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|---------------|------------|-------|--------------------------|--------------|
| medium output | 3000K      | 12.5  | 1400                     | 112          |
| medium output | 3500K      | 12    | 1400                     | 115          |
| medium output | 4000K      | 12    | 1400                     | 118          |

### 2000 LUMEN AT 80CRI - MEDIUM OUTPUT



#### PERFORMANCE

| LED output  | Color Temp | Watts | Nominal Delivered Lumens | Efficacy LPW |
|-------------|------------|-------|--------------------------|--------------|
| high output | 3000K      | 18.5  | 2000                     | 109          |
| high output | 3500K      | 18    | 2000                     | 111          |
| high output | 4000K      | 17.5  | 2000                     | 115          |