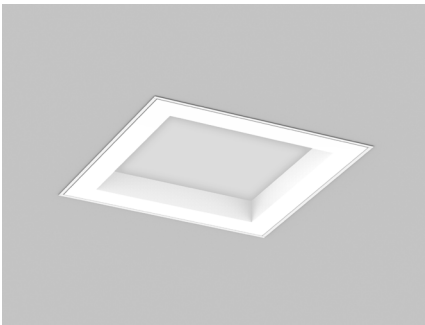


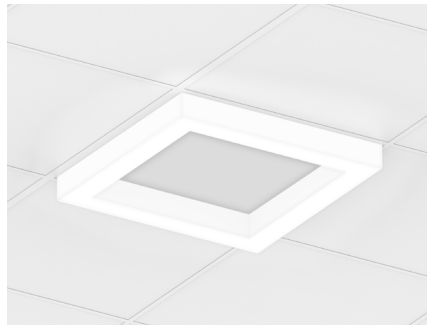
POLY 2x2 LED



RECESSED



Regressed lens in drywall ceiling



Drop lens in grid ceiling

PROJECT: _____

TYPE: _____

NOTES: _____

IC RATED



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



DESCRIPTION

Poly's geometric forms, appropriately scaled for use as discrete luminaires, offer new opportunities for creative approaches to general lighting. As a modular recessed luminaire suitable for open or private offices, Poly delivers generous illumination and its center utility panel can integrate HVAC and sensors, as well as audio, and sprinklers (by others). Regressed 2-sided diffusers form a shallow coffer, while 3-sided diffusers drop below the ceiling. Efficacies up to 121 LPW, multiple lumen outputs and electrical options make Poly practical, as well as creative.

ORDER GUIDE

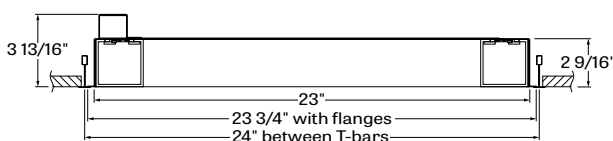
up to 121 lm/w performance

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.	VOLTAGE
POLRR - poly recessed regressed lens	22 - 2'X2'	ULO - Uniform Lambertian Optic	SW - Static white	80 - 80CRI 90 - 90CRI	2400 - min. low output 2400lm 4000 - medium output 4000lm 5600 - max. high output 5600lm #### - other required lm	27 - 2700k 30 - 3000k 35 - 3500k 40 - 4000k	120 - 120V 277 - 277V UNV - 120V-277V 347 ¹ - 347V ¹ Available with D1 driver only.
POLRD - poly recessed drop lens							

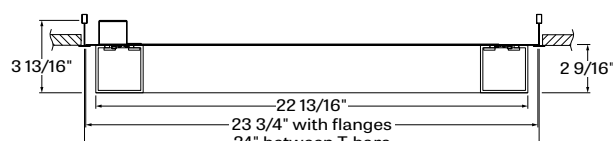
DRIVER	ELECTRICAL	MOUNTING	FINISH	CONTROL ³	UTILITY PLATES
D1 - 1% 0-10V DA ² - DALI LDE1 ² - Lutron Hi-lume 1% Eco ² On-site commissioning is required.	1 - 1 circuit +EB - emergency battery pack +GTD### - generator transfer device, 120V or 277V	TG9 - tegular 9/16" TG15 - tegular 15/16" TB9 - t-bar 9/16" TB15 - t-bar 15/16" ST - screw slot t-bar DF - drywall kit	W - matte white	STANDALONE CONTROLS ^{4,5} Specify the quantity (#) of sensors per fixture. #OMS ⁶ - Onboard Occupancy #OMS## ⁷ - Onboard Occupancy with bi-level dimming #ODS - Onboard Daylight #OCS - Onboard Occupancy & Daylight ³ Standalone and connected control options cannot be combined. ⁴ Available with D1 driver and 1 circuit options only.	CONNECTED CONTROLS ⁸ LU - Lutron AWN - Lutron Athena Wireless Node RF Only AWNS - Lutron Athena Wireless Node Sensor ENC - Encelium NA - None ⁵ Minimum 4' per zone. Provide control zone length. ⁶ Fixture turns off when no occupancy. ⁷ Fixture dims to specified light level % (##). ⁸ Consult factory for connected controls.
					AR - air return SP - sprinkler ready SN - sensor SK - speaker ready

See page 4 for ordering code detailed information

SECTION VIEW



POLRR - recessed regressed lens



POLRD - recessed drop lens

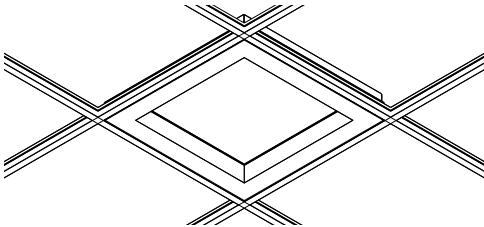
POLY 2x2 LED



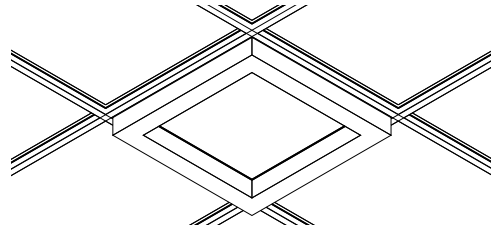
RECESSED

GRID CEILINGS

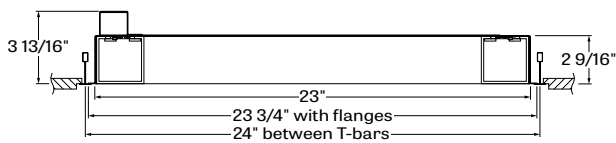
RECESSED REGRESSED LENS



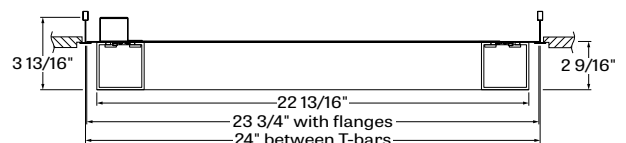
RECESSED DROP LENS



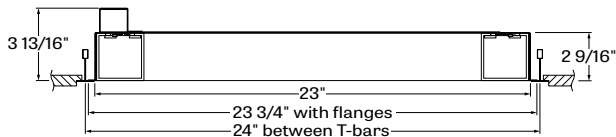
POLRR - TG9 - tegular 9/16"



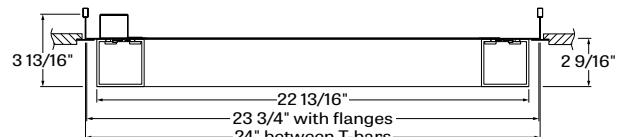
POLRD - TG9 - tegular 9/16"



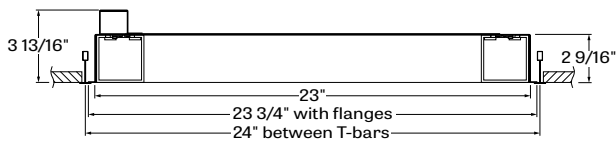
POLRR - TG15 - tegular 15/16"



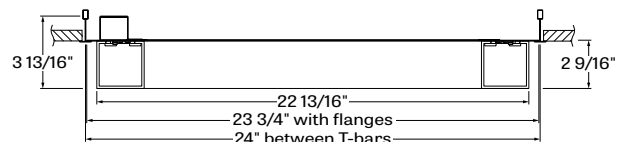
POLRD - TG15 - tegular 15/16"



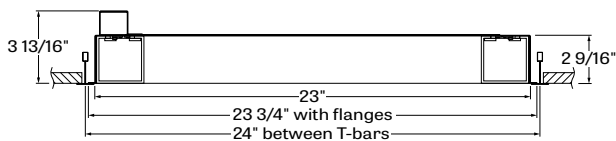
POLRR - TB9 - t-bar 9/16"



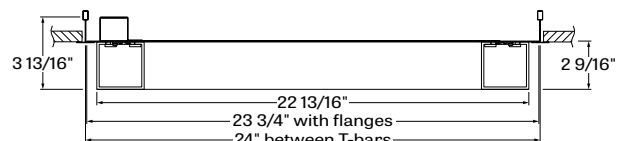
POLRD - TB9 - t-bar 9/16"



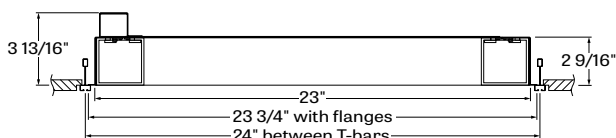
POLRR - TB15 - t-bar 15/16"



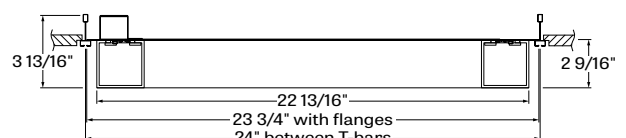
POLRD - TB15 - t-bar 15/16"



POLRR - ST- screw slot t-bar



POLRD - ST- screw slot t-bar



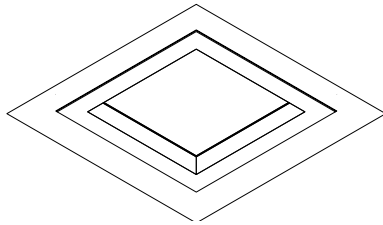
POLY 2x2 LED



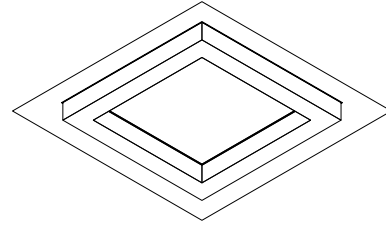
RECESSED

DRYWALL CEILINGS

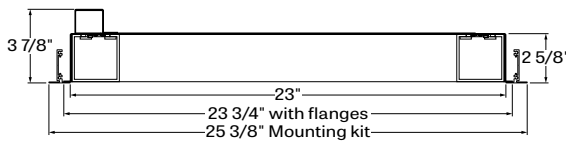
RECESSED REGRESSED LENS



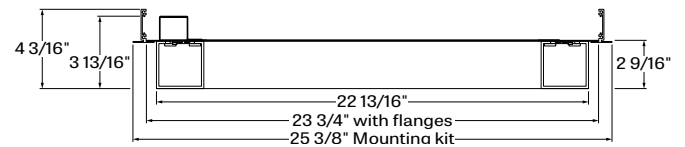
RECESSED DROP LENS



POLRR- DF - drywall kit



POLRD - DF - drywall kit



POLY 2x2 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	20	2400	121
medium output	4000K	34	4000	117
high output	4000K	49.5	5600	113

ELECTRICAL

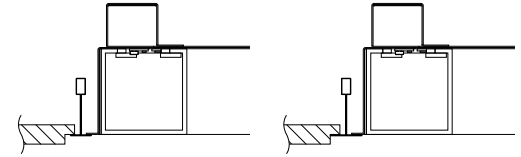
Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency > 84%, PF > 0.9, THD < 20%. 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.

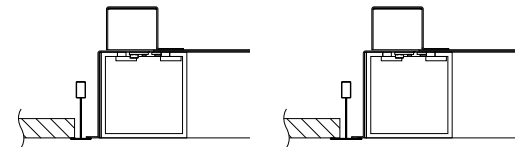
MOUNTING OPTIONS (SHOWN REGRESSED)

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



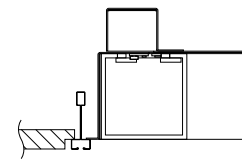
TG9 - tegular 9/16"

TG15 - tegular 15/16"



TB9 - t-bar 9/16"

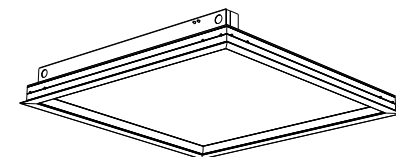
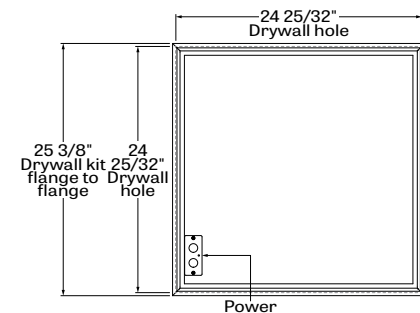
TB15 - t-bar 15/16"



ST - screw slot t-bar

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

A separate kit for mounting fixtures into drywall ceilings



DF - drywall kit

POLY 2x2 LED



RECESSED

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:

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.

QCS: 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, 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

POLY 2x2 LED



RECESSED

WEIGHT

POLY 2X2 grid - 21.23lbs - 9.62kg

POLY 2X2 drywall - 23.73lbs - 10.76kg

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

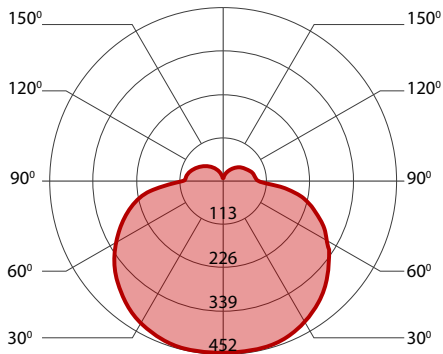
LumenWerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. LumenWerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated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

POLY 2x2 LED



RECESSED

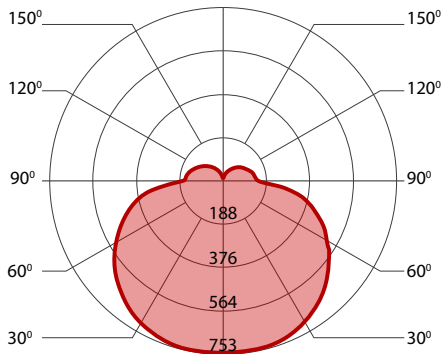
2400 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	3000K	20.5	2400	116
low output	3500K	20.5	2400	117
low output	4000K	20	2400	121

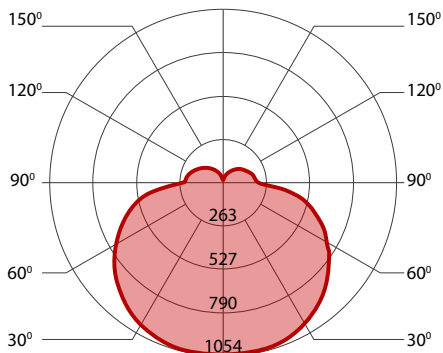
4000 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	35.5	4000	112
medium output	3500K	35.5	4000	113
medium output	4000K	34	4000	117

5600 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	3000K	52.5	5600	107
high output	3500K	51.5	5600	109
high output	4000K	49.5	5600	113