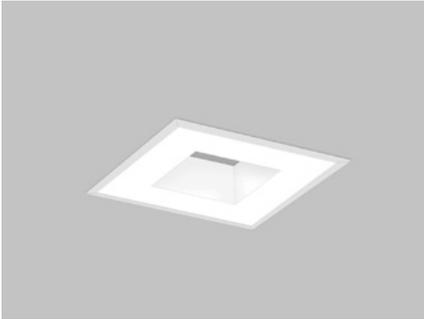


POLY 1x1 LED

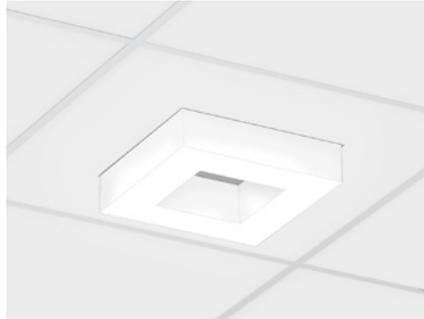


LUMENWERX
WWW.LUMENWERX.COM

RECESSED



Regressed lens in drywall ceiling



Drop lens in grid ceiling

PROJECT: _____
 TYPE: _____
 NOTES: _____

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 122 LPW, multiple lumen outputs and electrical options make Poly practical, as well as creative.

IC RATED

up to 122 lm/w performance

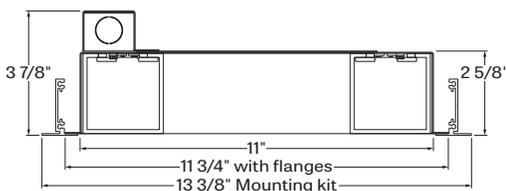
ORDER GUIDE

LUMINAIRE ID	SIZE	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.	VOLTAGE
POLRR - poly recessed regressed lens POLRD - poly recessed drop lens	11 - 1'X1'	ULO - Uniform Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	800 - min. low output 800lm 1400 - medium output 1400lm 2000 - max. high output 2000lm #### - other required lm	27 - 2700k 30 - 3000k 35 - 3500k 40 - 4000k	120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V (not available with Lutron)

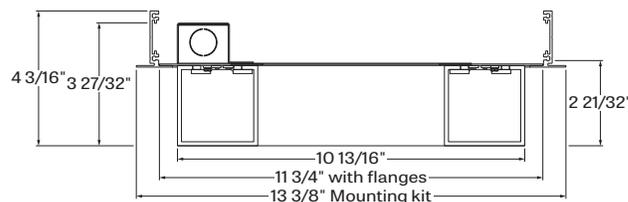
DRIVER	ELECTRICAL	MOUNTING	FINISH	CONTROLS	UTILITY PLATES
D1 - 1% dimming 0-10V DA - Dali LTEA2W - Lutron 1% - 2 wire FF 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit + EB - emergency battery pack + GTD### - generator transfer device, 120V or 277V	DF - drywall kit	W - matte white	STANDALONE CONTROLS OMS - Onboard Occupancy ODS - Onboard Daylight OCS - Onboard Occupancy & Daylight CONNECTED CONTROLS CCS() - LU -Lutron, EN -Enlighted, OS -Osram, CR -Crestron. To specify see information on page 4	AR - air return SP - sprinkler ready SK - speaker ready

See page 4 for ordering code detailed information

SECTION VIEW



POLRR - recessed regressed lens

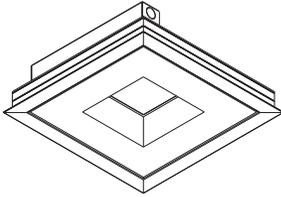


POLRD - recessed drop lens

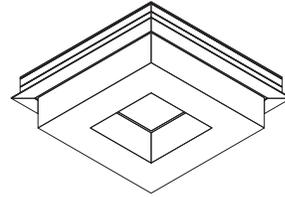
POLY 1x1 LED

RECESSED

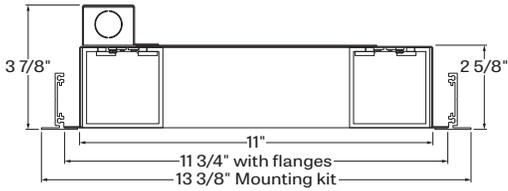
RECESSED REGRESSED LENS



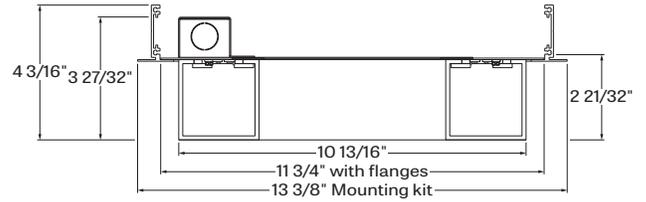
RECESSED DROP LENS



POLRR - DF - drywall kit



POLRD - DF - drywall kit



POLY 1x1 LED

RECESSED

ELECTRICAL CIRCUITS

DIMMING 0-10V -

1 Circuit

1 CIRCUIT	BLK	HOT (CIRCUIT-1)
	WHT	NEUTRAL (CIRCUIT -1)
	GRN	GROUND
	PPL	DIM(+) 0-10V
	GRY	DIM(-) 0-10V

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON 1% 2-wire FF 120V -

1 Circuit

1 CIRCUIT	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON LDE1 1%/LDE5 5% EcoSystem -

1 Circuit

1 CIRCUIT	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND
	PPL	E1 To EcoSystem Digital Link
	GRY	E2

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

DIMMING 0-10V -

1 Circuit + Emergency Battery

1 CIRCUIT+EB	BLK	HOT (CIRCUIT-1)
	WHT	NEUTRAL (CIRCUIT -1)
	GRN	GROUND
	RED	UNSWITCHED HOT
	PPL	DIM(+) 0-10V
	GRY	DIM(-) 0-10V

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON 1% 2-wire FF 120V -

1 Circuit + Emergency Battery

1 CIRCUIT+EB	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND
	RED	UNSWITCHED HOT

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

LUTRON LDE1 1%/LDE5 5% EcoSystem -

1 Circuit + Emergency Battery

1 CIRCUIT+EB	BLK	HOT
	WHT	NEUTRAL
	GRN	GROUND
	RED	UNSWITCHED HOT
	PPL	E1 To EcoSystem Digital Link
	GRY	E2

NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

POLY 1x1 LED

RECESSED

OPTICS

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 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

Driver features factory-set adjustable output current 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), DMX (RDM compatible) and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

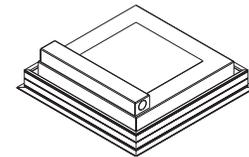
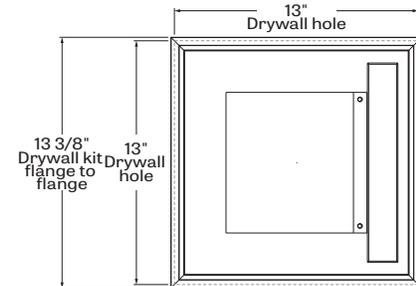
EMERGENCY

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 regressed 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.

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, location and functionality of the sensor within the luminaire are selected by LumenWerx.

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.

POLY 1x1 LED

RECESSED

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*, Enlighted, Osram ENCELIUM, Acuity nLight, Crestron 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 controls@lumenwerx.com 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.

* Lumenwerx offers a Lutron Vive-Enabled fixture option using either the DFCSJ-OEM-OCC (OCS Option) or DFCSJ-OEM-RF (wireless only, no sensor) Integral Fixture Modules and a DALI or EcoSystem LED driver based on customer dimming requirements.

Please contact our controls department at controls@lumenwerx.com for further assistance.

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

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations.

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

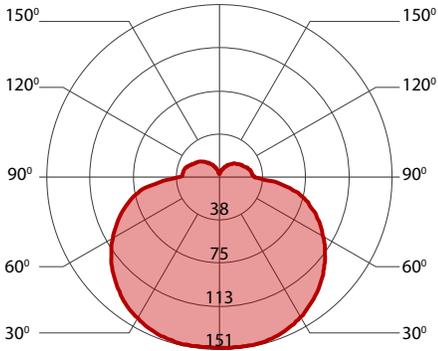
WARRANTY

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.

POLY 1x1 LED

RECESSED

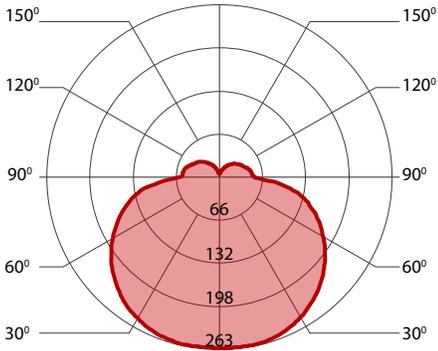
800 LUMEN AT 80CRI - LOW OUTPUT



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

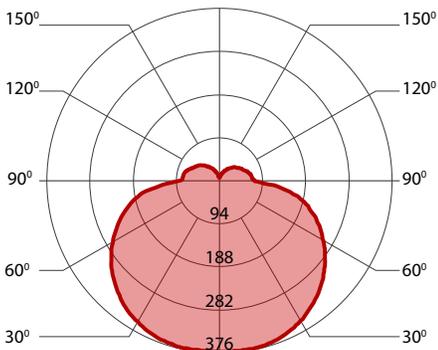
1400 LUMEN AT 80CRI - MEDIUM OUTPUT



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