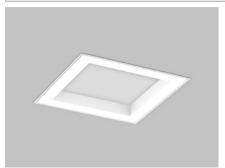
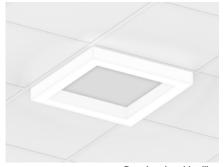


RECESSED





PROJECT:	
TYPE:	
NOTES:	

Regressed lens in drywall ceiling

Drop lens in grid ceiling

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.

IC RATED

ORDER GUIDE

up to 121 lm/w performance

	22	ULO	LED				
LUMINAIRE ID	SIZE	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.	VOLTAGE
POLRR - poly recessed	22 - 2'X2'	ULO - Uniform	LED - high	80 - 80CRI	2400 - min. low output 2400lm	27 - 2700k	120 - 120V
regressed lens		Lambertian Optic	performance LED	90 - 90CRI	4000 - medium output 4000lm	30 - 3000k	277 - 277V
POLRD - poly recessed					5600 - max. high output 5600lm	35 - 3500k	UNV - 120V-277V
drop lens					#### - other required Im	40 - 4000k	347 - 347V (not
							available with Lutron)

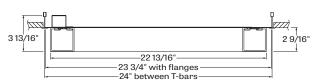
			w		
DRIVER	ELECTRICAL	MOUNTING	FINISH	CONTROLS	UTILITY PLATES
D1 - 1% dimming 0-10V	1-1 circuit	TG9 - tegular 9/16"	W - matte white	STANDALONE CONTROLS	AR - air return
DA - Dali	+EB - emergency battery pack	TG15 - tegular 15/16"		OMS - Onboard Occupancy	SP - sprinkler ready
LTEA2W - Lutron 1% - 2 wire FF 120V	+GTD### - generator transfer	TB9 - t-bar 9/16"		ODS - Onboard Daylight	SR - sensor
LDE1 - Lutron Hi-lume 1% Eco	device, 120V or 277V	TB15 - t-bar 15/16"		OCS - Onboard Occupancy & Daylight	SK - speaker ready
LDE5 - Lutron 5% EcoSystem		ST - screw slot t-bar		CONNECTED CONTROLS	
		DF - drywall kit		CCS() - LU-Lutron, EN-Enlighted,	
				OS-Osram, CR-Crestron.	
				To specify see information on page 6	

See page 5 for ordering code detailed information

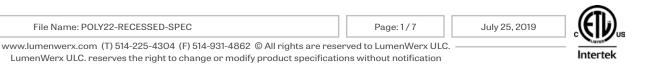
SECTION VIEW



POLRR - recessed regressed lens



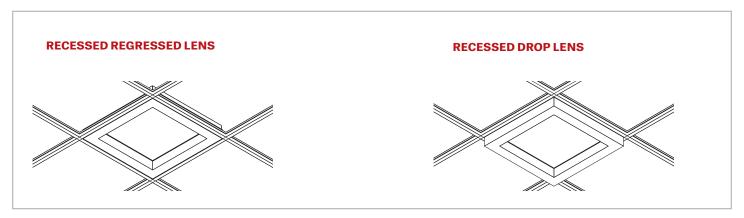
POLRD - recessed drop lens



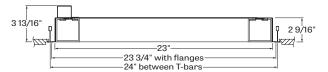


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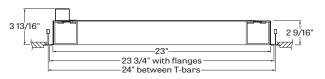
GRID CEILINGS



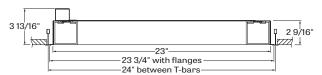
POLRR - TG9 - tegular 9/16"



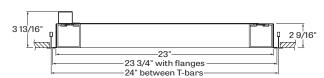
POLRR - TG15 - tegular 15/16"



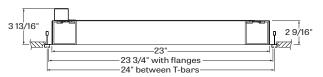
POLRR - TB9 - t-bar 9/16"



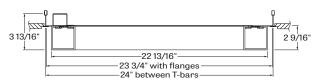
POLRR - TB15 - t-bar 15/16"



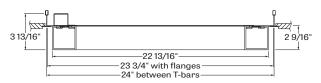
POLRR - ST- screw slot t-bar



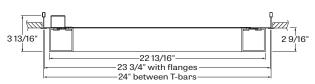
POLRD - TG9 - tegular 9/16"



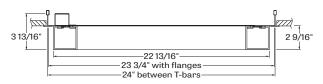
POLRD - TG15 - tegular 15/16"



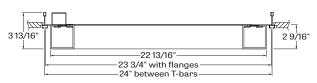
POLRD - TB9 - t-bar 9/16"



POLRD - TB15 - t-bar 15/16"



POLRD - ST- screw slot t-bar



File Name: POLY22-RECESSED-SPEC

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July 25, 2019

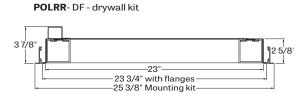


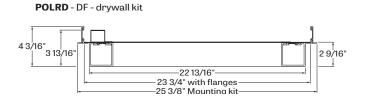


RECESSED

DRYWALL CEILINGS









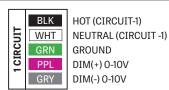


RECESSED

ELECTRICAL CIRCUITS

DIMMING 0-10V -

1 Circuit

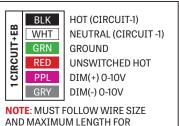


NOTE: MUST FOLLOW WIRE SIZE AND MAXIMUM LENGTH FOR DIMMING APPLICATIONS.

DIMMING 0-10V -

1 Circuit + Emergency Battery

DIMMING APPLICATIONS.



LUTRON 1% 2-wire FF 120V -

1 Circuit



HOT NEUTRAL GROUND

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

LUTRON 1% 2-wire FF 120V -

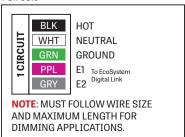
1 Circuit + Emergency Battery



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

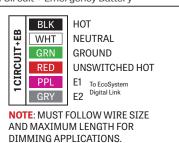
LUTRON LDE11%/LDE55% EcoSystem -

1 Circuit



LUTRON LDE11%/LDE55% EcoSystem-

1 Circuit + Emergency Battery





File Name: POLY22-RECESSED-SPEC

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

ELECTRICAL

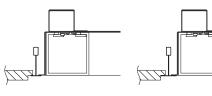
Driver features factory-set adjustable output current with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire or Ecosystem Dimto-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.

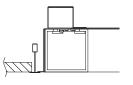
MOUNTING OPTIONS (SHOWN REGRESSED)

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



TG9 - tegular 9/16"

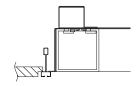
TG15 - tegular 15/16"





TB9 - t-bar 9/16"

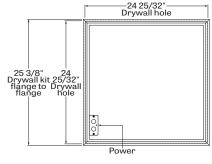
TB15 - t-bar 15/16"

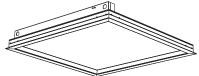


ST - screw slot t-bar

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

FINISH

95% reflective, matte white powder coating

July 25, 2019





RECESSED

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.

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 2X2 grid - 21.23lbs - 9.62kg **POLY 2X2 drywall** - 23.73lbs - 10.76kg

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.



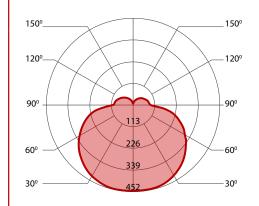
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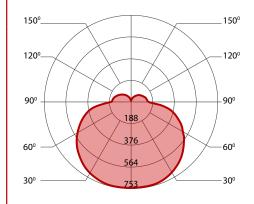
2400 LUMEN AT 80CRI - LOW OUTPUT



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

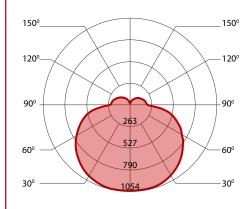
4000 LUMEN AT 80CRI - MEDIUM OUTPUT



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