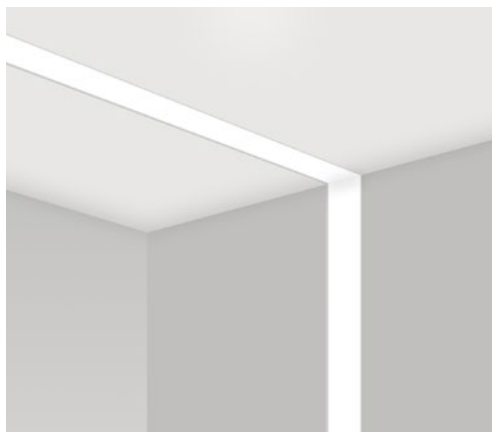


SHALO 3 - PATTERNS

RECESSED

LUMENWERX
WWW.LUMENWERX.COM



DESCRIPTION

Shalo - with a depth of merely 1.75" - fits within the height of a typical ceiling grid and yet provides a uniform luminous appearance without LED pixilation. The onboard driver micro-structure optics make Shalo practical, as well as attractive. Shalo fits a variety of grid ceilings with main runners nominally 4" on center, including TECHZONE™, and can be installed as discrete luminaires, continuous runs of uninterrupted light, and patterns. See separate spec sheets for individual.

PROJECT: _____
TYPE: _____
NOTES: _____



up to 117 lm/w performance

IC RATED

ORDER GUIDE

SHL3RPAT	SLO	LED				
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.	PATTERN LENGTH
SHL3RPAT - Shalo 3" recessed pattern	SLO - Shallow Lambertian optic	LED - High performance LED	80 - 80CRI 90 - 90CRI	500 - Min. low output 500lm/ft 750 - Med. output 750lm/ft 1000 - High output 1000lm/ft 1200 - Max. ultra high output 1200lm/ft #### - Other required lm/ft	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	#FT - Nominal length in feet Continuous run - for luminaires over 8' #IN - Length in inches

	90				
CORNER TYPE	CORNER DEGREE	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING CEILING
INN - Inner corner LEV - Leveled corner	90 ¹ - 90 degrees	120 - 120V 277 - 277V UNV - 120V-277V 347 ² - 347V	D1 - 1% 0-10V DA - DALI LTEA2W - Lutron 1% - 2 wire FP 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit +EB ³ - Emergency battery +EM - Emergency light circuit +NL - Night light circuit	TG9 ⁴ - Tegular 9/16" TG15 ⁴ - Tegular 15/16" TB9 ⁴ - T-bar 9/16" TB15 ⁴ - T-bar 15/16" ST ⁴ - Screw slot T-bar DTR - Drywall trim DTL - Drywall trimless DMF - Drywall mud flange ⁴ Not available with INN corner type.
	¹ For corners more or less than 90 degrees, please consult factory.	² Not available with Lutron.		³ Minimum 4' fixture required when specified with 0-10V dimming or DALI.	

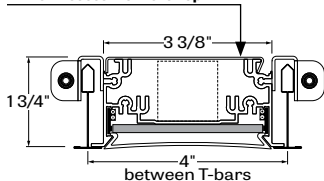
See page 2 for ordering code detailed information

MOUNTING WALL	FINISH	CONTROLS	OPTIONS
DTR - Drywall trim DMF - Drywall mud flange DTL - Drywall trimless	W - Matte white CF# ⁵ - Custom finish specify RAL# ⁵ Available for DTR and DTL mounting options only.	CONNECTED CONTROLS ⁶ CCS() - LU-Lutron, EN-Enlighted, OS-Osram, CR-Crestron. ⁶ To specify see information on page 3.	FU - Fuse FWC - Flexible whip cable (6' std) CP - Chicago Plenum CU - Custom

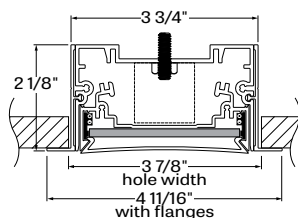


CROSS SECTION

Driver Access from the Top

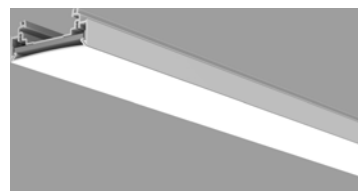


SHL3R - Grid



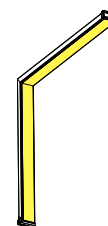
DTR - Drywall trim

OPTICS



SLO - Shallow Lambertian optic

3D VIEW



INN - inner corner

TECHZONE™ & USG Compatible with 4" ceiling

File Name: SHAL03-S-PAT-RECESSED-SPEC

Page: 1 / 5

April 24, 2020

www.lumenwerx.com (T) 514-225-4304 (F) 514-931-4862 © All rights are reserved to LumenWerx ULC.
LumenWerx ULC. reserves the right to change or modify product specifications without notification

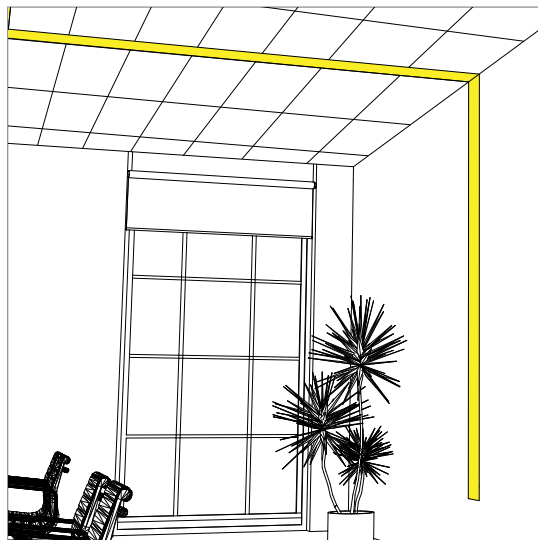


SHALO 3 - PATTERNS

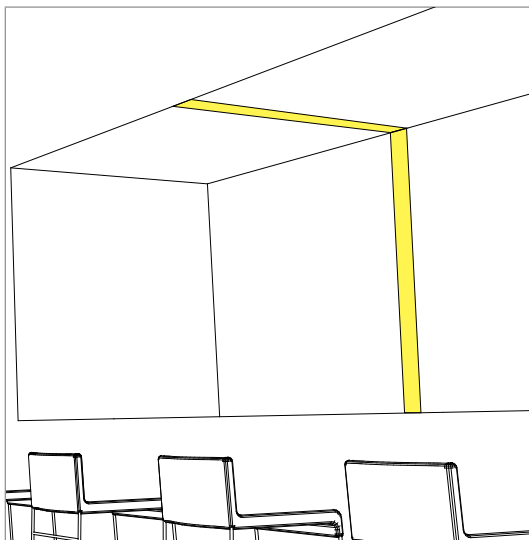
RECESSED

LUMENWERX
WWW.LUMENWERX.COM

INNER CORNER - GRID TO DRYWALL



INNER CORNER - DRYWALL TO DRYWALL



HOW TO SPECIFY A PATTERN?

Please follow these steps when specifying in order to be as precise as possible.

- (1) We require a drawing illustrating the pattern you are trying to achieve - anything from a simple line drawing to elaborate architectural drawings will suffice.
- (2) Under **PATTERN LENGTH**, enter the overall length of your pattern - either in feet or inches.
- (3) Under **CORNER TYPE**, please enter the type (or types) of corner you require. If more than one type of corner is required, please separate types with a plus (+).
- (4) Under **CORNERS DEGREE**, please enter the angle in degrees of each corner required to complete your pattern (for example 90+90+90).

		90
PATTERN LENGTH	CORNER TYPE	CORNERS DEGREE
#FT - nominal length in feet Continuous Run - for luminaires over 8'	INN - inner corner LEV - leveled corner	90* - 90 degrees *For corners more or less than 90 degrees. Please consult factory.
#IN - inches		

SHALO 3 - PATTERNS

RECESSED

LUMENWERX
WWW.LUMENWERX.COM

OPTICS

Shallow Lambertian Optic (SLO) - The Shallow Lambertian Optic consists of side-mounted LED arrays, coupled to an optical-grade acrylic light guide engraved with micro-structure optics that extract light into a lambertian distribution. An upper reflector of 98% reflective, diffuse aluminum enhances system efficiency. A thin diffuser below the light guide provides additional source obscuration.

LIGHT SOURCE - LED

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.

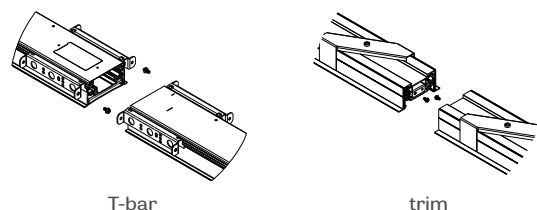
PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	17	2000	117
medium output	4000K	26.5	3000	114
high output	4000K	35.5	4000	112
ultra high output	4000K	43	4800	111

PATTERN LENGTH

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

Joining system



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), and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

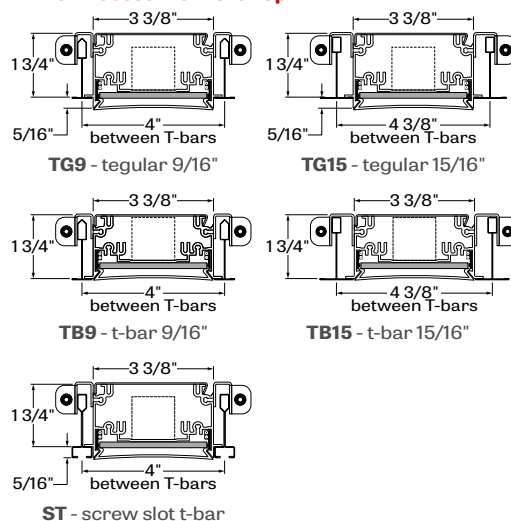
EMERGENCY

Factory installed long life high temperature recyclable LI-Ion battery pack with test switch and charge indicator; minimum of 90 minutes operation, up to 1000 lumens per 4ft (25°C) emergency lighting output. Recharge time of 24 hours.

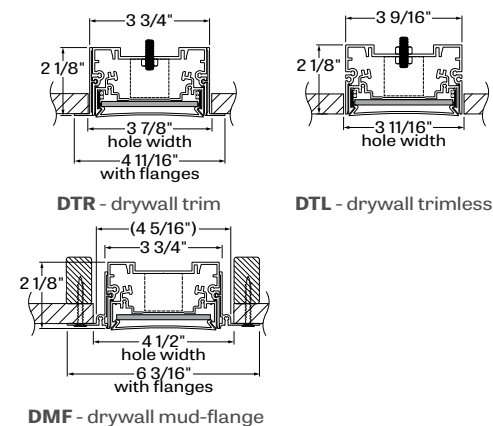
MOUNTING OPTIONS

Recess mount into exposed or concealed T-Bar or Regular grid ceiling **Shalo is fully compatible with Armstrong Techzone™ & USG ceilings.**

Driver Access from the Top



Mounting for drywall ceilings are available with visible trim.



FINISH

Interior - 95% reflective matte powder coated white paint

Exterior - matte white.

Custom finishes are also available (DTR and DTL only)

SHALO 3 - PATTERNS

RECESSED

LUMENWERX
WWW.LUMENWERX.COM

CONTROLS

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

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 ENCELIIUM, 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.

CONSTRUCTION

Housing - Aluminum extrusion 0.060" Thickness.

Cartridge - Extruded aluminum (0.060" nominal) up to 90% recycled content (painted 95% reflective matte powder coated white paint) (DTR, DTL and DMF only)

Interior brackets - Die formed cold rolled sheet steel 18 gauge thick

Joining system - Die formed cold rolled sheet steel 16 gauge thick

Reflectors - Cold rolled steel 0.024" thick precisely die formed, 97% reflective matte white painted

Slip-through bracket - Die formed galvanized sheet 18 gauge

End plate - Die formed cold rolled sheet steel 18 gauge thick

WEIGHT

Shalo 4ft - 11lbs - 5kg

Shalo 8ft - 22lbs - 10kg

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.

WARRANTY

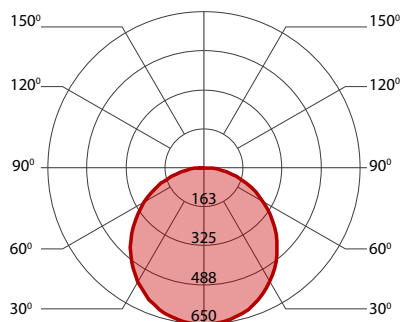
Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated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

SHALO 3 - PATTERNS

RECESSED

LUMENWERX
WWW.LUMENWERX.COM

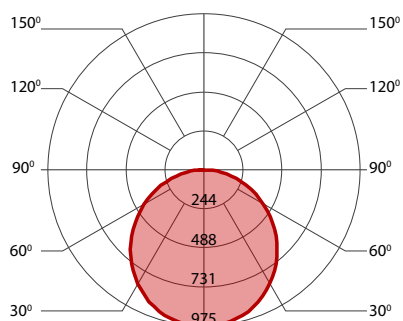
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	3000K	18	2000	111
low output	3500K	17.5	2000	113
low output	4000K	17	2000	117

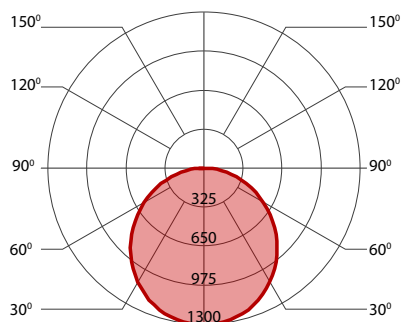
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	27.5	3000	109
medium output	3500K	27	3000	111
medium output	4000K	26.5	3000	114

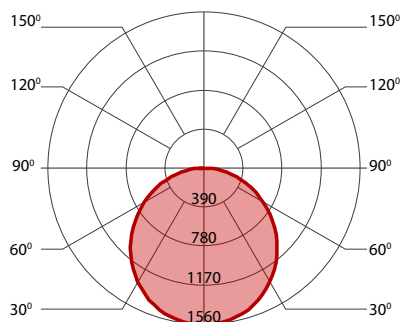
1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	3000K	37.5	4000	107
high output	3500K	36.5	4000	109
high output	4000K	35.5	4000	112

1200 LUMEN AT 80CRI - ULTRA HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
ultra high output	3000K	45.5	4800	105
ultra high output	3500K	45	4800	107
ultra high output	4000K	43	4800	111