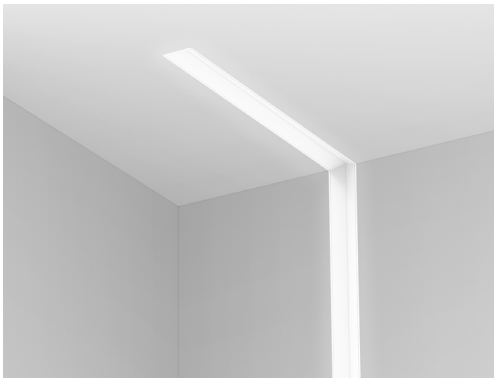
SHALO 3 - PATTERNS

RECESSED

Lumenwerx

VEE AND TRAPEZOID



Inner corner - shown with a Vee shaped optic

DESCRIPTION

Shalo - with a depth of 2.75" - provides a uniform luminous appearance without LED pixilation. Choose from Shalo V with V-shaped optic (VLO) or Shalo T with Trapezoid-shaped optic. The integrated driver using 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™ & USG. Shalo can be installed as discrete luminaires, continuous runs of uninterrupted light, and patterns.

PROJECT: _____

TYPE: _____

NOTES: _____

5 YEAR WARRANTY 5 YEAR WARRANTY

IC RATED

SENSORS
For latest information on sensors, click here.

ORDER GUIDE

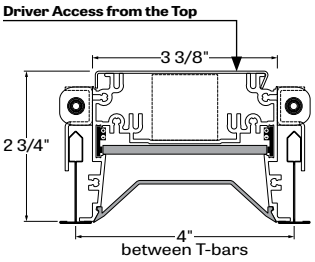
SHL3RPAT		SW				
LUMINAIRE ID	**OPTICS**	**LIGHT SOURCE**	**CRI**	**LUMEN PACKAGES**	**COLOR TEMP.**	**PATTERN LENGTH**
SHL3RPAT - Shalo 3" recessed pattern	**VLO** - Vee shaped Lambertian optic **TLO** - Trapezoid shaped Lambertian optic	**SW** - Static white	**80** - 80CRI **90** - 90CRI	**500** - Min. low output 500 lm/ft **750** - Medium output 750 lm/ft **1000** - High output 1000 lm/ft **1200** - Max. ultra high output 1200 lm/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 [1] For corners more or less than 90 degrees, please consult factory.	**120** - 120V **277** - 277V **UNV** - 120V-277V **347** [2] - 347V [2] Available with D1 driver only.	**D1** - 1% 0-10V **DA** [3] - DALI **LDE1** [3] - Lutron Hi-lume 1% Eco [3] On-site commissioning is required.	**1** - 1 circuit **+#EB** [4] - Emergency battery **+#EM** - Emergency light circuit **+#NL** - Night light circuit [4] Minimum 4' fixtures required when specified with 0-10V dimming or DALI.	**TG9** [5] - Tegular 9/16" **TG15** [5] - Tegular 15/16" **TB9** [5] - T-bar 9/16" **TB15** [5] - T-bar 15/16" **ST** [5] - Screw slot T-bar **DTR** - Drywall trim **DTL** - Drywall trimless **DMF** - Drywall mud flange **NA** - Not applicable [5] Not available with INN corner type.

MOUNTING WALL [6]	**FINISH**	**CONTROLS**		**OPTIONS**
DTR - Drywall trim **DMF** - Drywall mud flange **DTL** - Drywall trimless **NA** - Not applicable [6] Not available with leveled corners.	**W** - Matte white **CF#** [7] - Custom finish, specify RAL# [7] Available for DTR and DTL mounting options only.	**CONNECTED CONTROLS** [8] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand **NA** - None [8] Consult factory for connected controls.		**FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **CU** - Custom

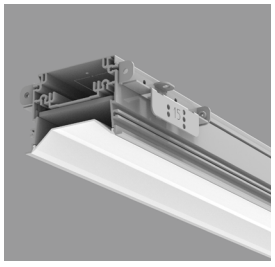
See page 3 for ordering code detailed information

CROSS SECTION



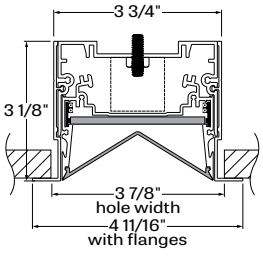
SHL3R-TLO - Grid

OPTICS



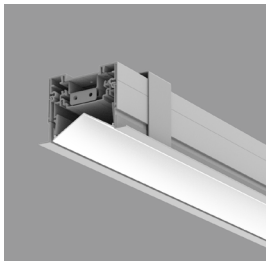
TLO - Trapezoid shaped optic

CROSS SECTION



SHL3R-VLO - Drywall trim

OPTICS



VLO - Vee Lambertian optic

TECHZONE™ & USG Compatible with 4" ceiling

SHALO 3 - PATTERNS

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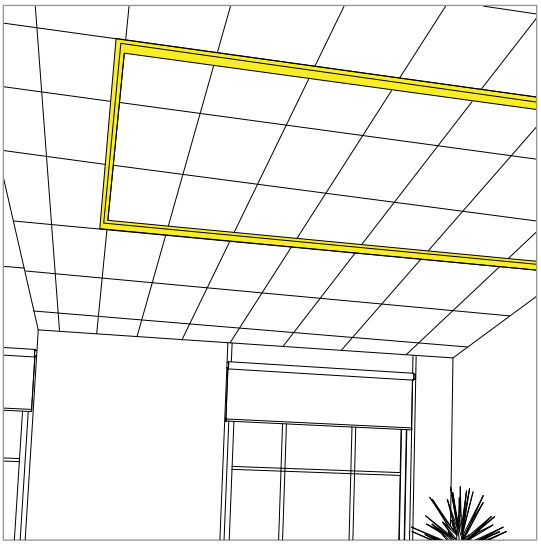
VEE AND TRAPEZOID

INNER CORNER - DRYWALL TO DRYWALL

LEVELED CORNER - GRID



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.

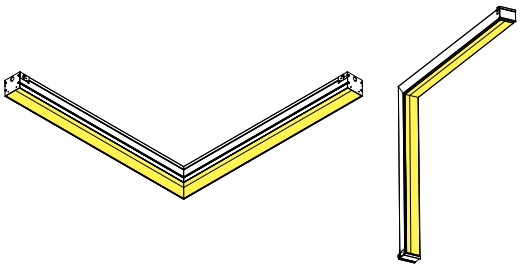
(2) Under PATTERN LENGTH, enter the overall length of your pattern - either in feet or inches.

(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' **#IN** - Inches	**INN** - Inner corner **LEV** - Leveled corner	**90** - 90 degrees *For corners more or less than 90 degrees, please consult factory.

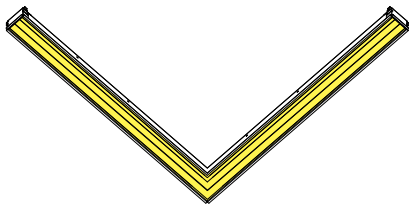
3D VIEW - VLO



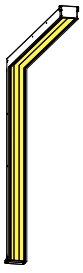
LEV - Leveled corner

INN - Inner corner

3D VIEW - TLO



LEV - Leveled corner



INN - Inner corner

SHALO 3 - PATTERNS

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VEE AND TRAPEZOID

OPTICS

Both **Vee-shaped Lambertian Optic (VLO)** and **Trapezoid-shaped Lambertian Optic (TLO)** 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

Custom linear array of mid-flux LED's are cartridge-mounted with quick-connect wiring to facilitate service and thermal management.
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.

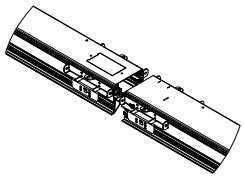
PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	18.5	2000	107
medium output	4000K	29.5	3000	102
high output	4000K	39	4000	102
ultra high output	4000K	47.5	4800	101

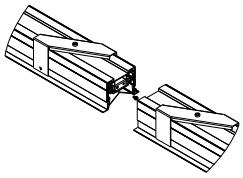
PATTERN LENGTH

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



T-bar



Trim

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.

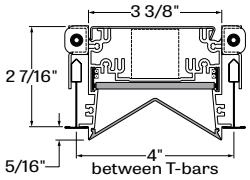
EMERGENCY

Factory installed long life high temperature recyclable 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.

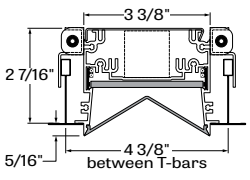
MOUNTING OPTIONS (SHOWN WITH A VLO)

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

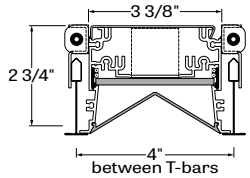
Driver Access From The Top



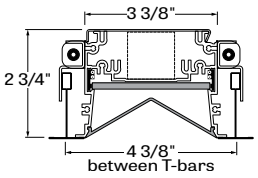
TG9 - Tegular 9/16"



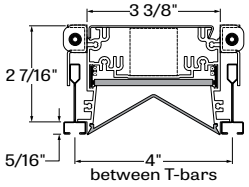
TG15 - Tegular 15/16"



TB9 - T-bar 9/16"



TB15 - T-bar 15/16"



ST - Screw slot T-bar

SHALO 3 - PATTERNS

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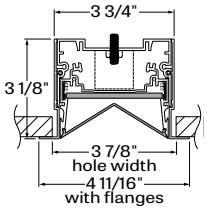
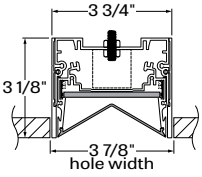
VEE AND TRAPEZOID

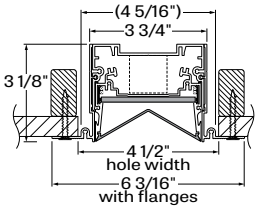
Mounting for drywall ceilings are available with visible trim.



DTR - Drywall trim



DTL - Drywall trimless



DMF - Drywall mud flange

FINISH

Interior - 95% reflective matte powder coated white paint
Exterior - Matte white
Custom finishes are also available. (DTR and DTL only)

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

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.

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 3 4ft - 15lbs. (6.8Kg)
Shalo 3 8ft - 27lbs. (12.3Kg)

CERTIFICATIONS

ETL - Rated for indoor dry/damp locations. Conforms to ANSI/UL Std. 1598 and certified to CAN/CSA Std. 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 on 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

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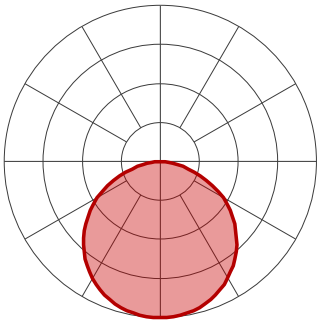
VEE AND TRAPEZOID

SHALO 3 VEE

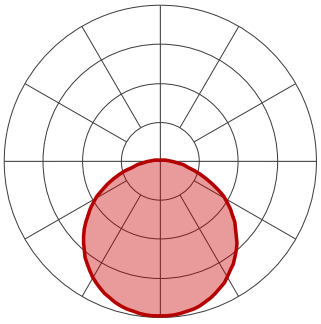
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	3000K	19.5	2000	102
low output	3500K	19.5	2000	103
low output	4000K	18.5	2000	107

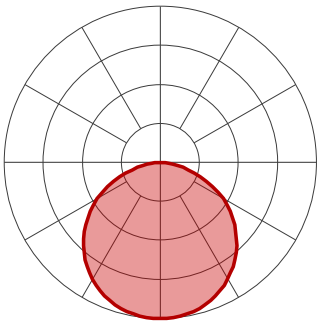
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	30	3000	100
medium output	3500K	29.5	3000	101
medium output	4000K	29.5	3000	102

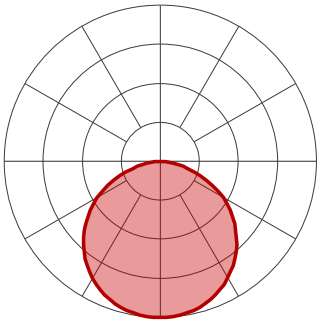
1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	3000K	41	4000	97
high output	3500K	40.5	4000	99
high output	4000K	39	4000	102

1200 LUMEN AT 80CRI - ULTRA HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
ultra high output	3000K	50	4800	96
ultra high output	3500K	49.5	4800	97
ultra high output	4000K	47.5	4800	101

SHALO 3 - PATTERNS

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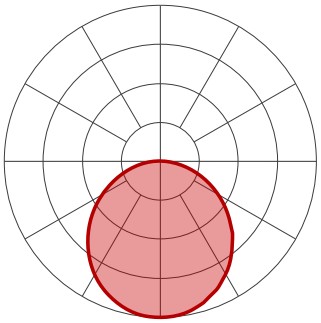
VEE AND TRAPEZOID

SHALO 3 TRAPEZOID

500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

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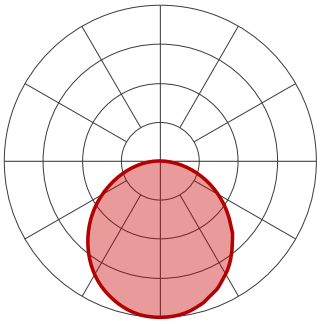
750 LUMEN AT 80CRI - MEDIUM OUTPUT



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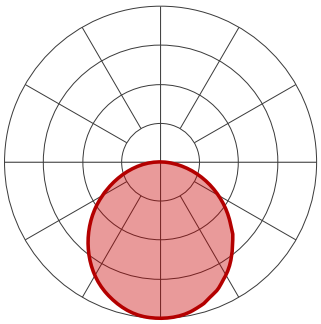

PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
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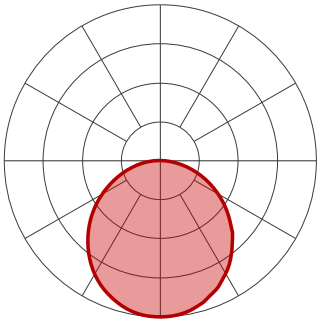

PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
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