

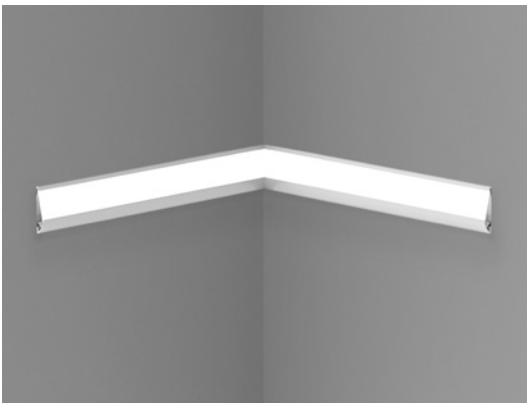
INWALO PATTERN

LUMENWERX

WALL RECESSED
STATIC WHITE



Project: _____
Type: _____



Inside Corner

DESCRIPTION

Inwalo offers practical illumination from a linear in-wall luminaire. The Inwalo housing requires just 5/8" of mounting depth - the thickness of common drywall - so the luminaire mounts on top of the wall studs. The driver compartment slides behind the luminaire for totally flexible installation between the wall studs. A removable LED and optical cartridge permits access to the driver without disturbing the drywall/housing connection. Inwalo can be installed as a discrete or continuous linear luminaire and oriented for either uplight or downlight.



EXTRA SHALLOW

up to 131 lm/W performance

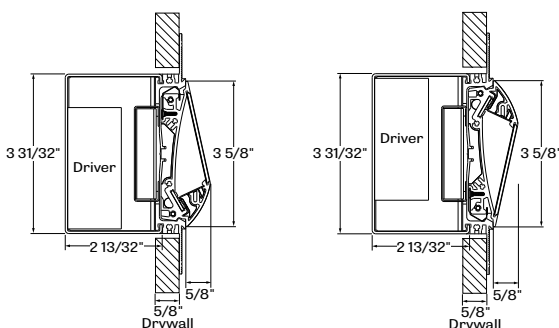
Order Guide

LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGE	COLOR TEMP.	TOTAL PATTERN LENGTH
	AIO	SW				
INWALWRIPAT - Inwalo Wall Recessed Indirect Pattern INWALWRDPAT - Inwalo Wall Recessed Direct Pattern	AIO - Asymmetric In-wall Optic	SW - Static white	80 - 80CRI 90 - 90CRI	500 - Min. low output 500lm/ft 750 - Medium output 750lm/ft 1000 - Max. high output 1000lm/ft #### - Other required lm/ft	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	#FT - Nominal length in feet #IN - Length in inches Continuous Run - for luminaires over 8' Minimum Individual section 4'
CORNER TYPE	CORNER DEGREE	VOLTAGE	DRIVER ¹	ELECTRICAL	MOUNTING	
INN						
INN - Inner corner	90(#) - 90 degrees, specify number of corners (#).	120 - 120V 277 - 277V UNV - 120V-277V	D1 - 1% 0-10V DA ² - DALI LTEA2W - Lutron 1% - 2 wire FP 120V LDE1 ² - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V	1 - 1 circuit 2 - 2 circuits +EM - Emergency light circuit +NL - Night light circuit	DTR - Drywall trim DMF - Drywall mud flange	

¹PoE (Power-over-Ethernet) compatible. Consult factory for details.
²On-site commissioning is required.

FINISH	OPTIONS
W - Matte white WA - White antimicrobial Silverwerx CF# - Custom finish, specify RAL#	FU - Fuse NA - None

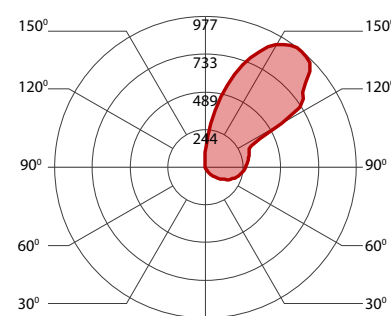
CROSS SECTION



INWALWRIPAT - indirect

INWALWRDPAT - direct

LIGHT DISTRIBUTION



AIO - Asymmetric In-wall Optic



INWALO PATTERN

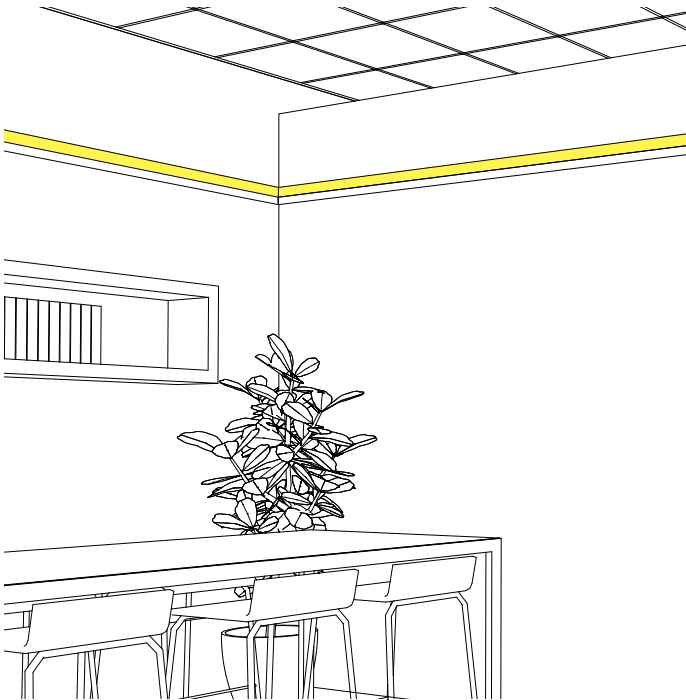
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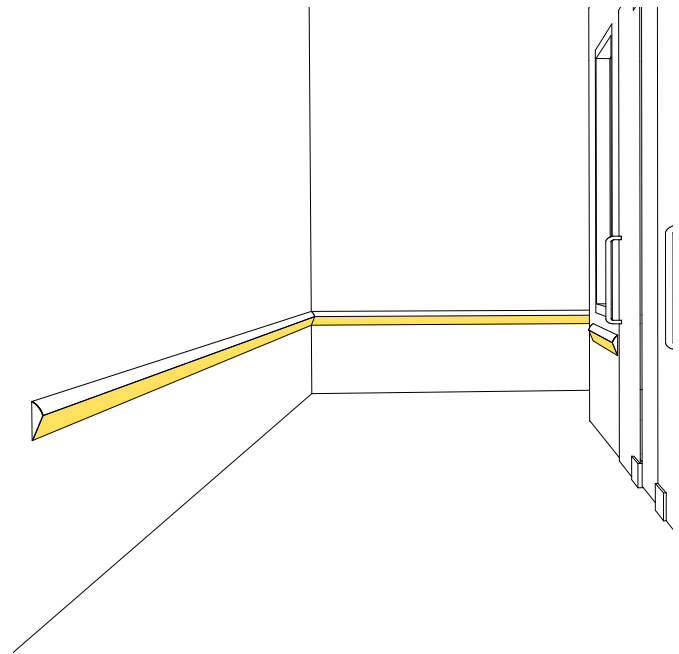
Project: _____

Type: _____

Pattern



Indirect - Inner Corner



Direct - Inner Corner

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 **TOTAL 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 **CORNER DEGREE**, please enter the angle in degrees of each corner required to complete your pattern, followed by the number of corners.

TOTAL PATTERN LENGTH	CORNER TYPE	CORNER DEGREE
	INN	
#FT - Nominal length in feet #IN - Length in inches Continuous Run - for luminaires over 8' Minimum Individual section 4'	INN - inner corner	90(#) - 90 degrees, specify number of corners (#).

INWALO PATTERN

LUMENWERX

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Project: _____

 Type: _____

Technical Specifications

OPTICS

Asymmetric In-wall Optic (AIO)

The Lumenwerx Asymmetric In-wall Optic (AIO) combines semi-specular reflectors and an elliptic refractive film to produce a comfortable beam with maximum intensity at 140° from horizontal. In-wall construction eliminates backlight.

The integral optic and LED cartridge can be removed for access to both the LED array and driver without disturbing the wall trim.

LIGHT SOURCE - LED

Custom linear array of mid-flux LEDs 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.

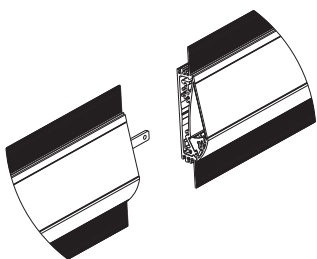
PERFORMANCE PER 4' AT 4000K

LED OUTPUT	COLOR TEMP.	WATTS	NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	4000K	15.5	2000	131
Medium output	4000K	24	3000	126
High output	4000K	33	4000	122

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



Cartridge joining system

ELECTRICAL

LED driver is provided in a wiring enclosure mounted to the back of each luminaire. The enclosure mounts on a sliding track so that it can be positioned between the wall studs.

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), eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

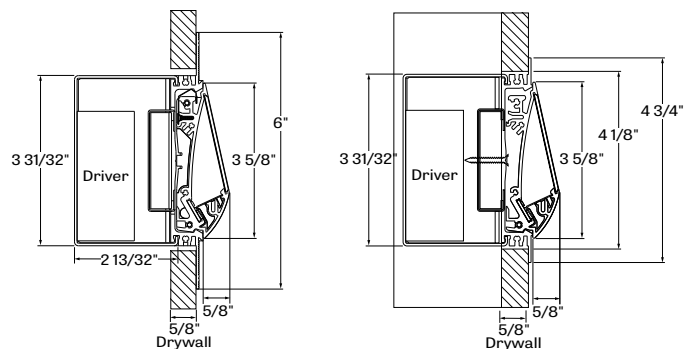
Inwalo can be wired for a night-light or emergency circuit. Battery back-up is only available using a remote and accessible battery pack (consult factory).

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

MOUNTING OPTIONS

Recessed Wall Mounting for drywall is available with visible trim and mud flange.



DMF - Wall mud flange

DTR - Wall trim

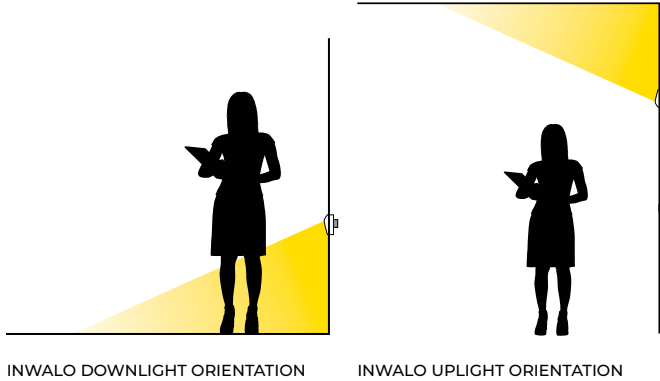
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The Inwalo can be mounted in the wall in both Uplight and Downlight orientation.



FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - matte white powder coating.

CONSTRUCTION

Housing - Extruded aluminum 0.080" nominal thickness

Joining System - Cold rolled steel 0.120" thickness

White reflector (Cartridge) - Extruded aluminum, painted highly reflective matte white paint

Specular internal reflector - Specular aluminum sheet, 0.020" thickness

Mud Flanges - Extruded aluminum 0.060" thickness

Visible flanges - Extruded aluminum 0.060" thickness

End-Plates - Cold rolled steel 0.060" Thickness

Cartridge (Visible) End-Caps - Die-cast aluminum

Dust-cover - Clear extruded acrylic

Diffuser - Polycarbonate elliptical film, 0.010" thickness.

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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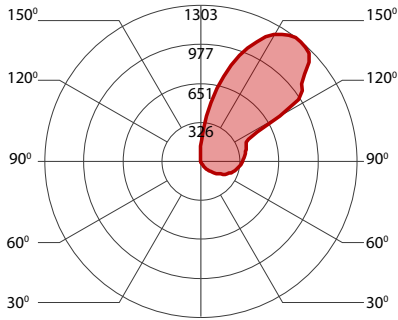
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Project: _____

Type: _____

INDIRECT

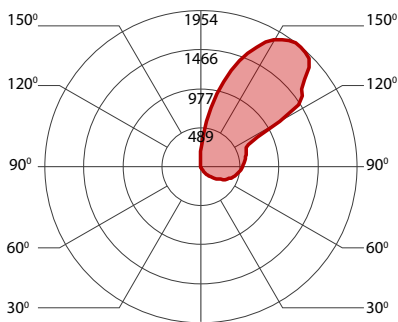
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	2700K	16.5	2000	122
low output	3000K	16	2000	124
low output	3500K	16	2000	126
low output	4000K	15.5	2000	131

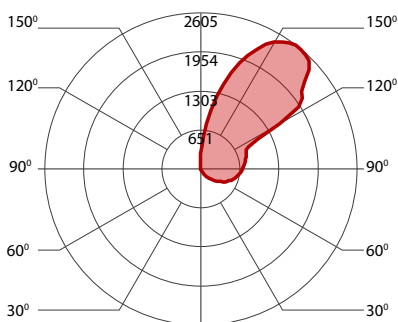
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	25.5	3000	118
medium output	3000K	25	3000	120
medium output	3500K	24.5	3000	122
medium output	4000K	24	3000	126

1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	2700K	35.5	4000	113
high output	3000K	35	4000	115
high output	3500K	34	4000	118
high output	4000K	33	4000	122

INWALO PATTERN

LUMENWERX

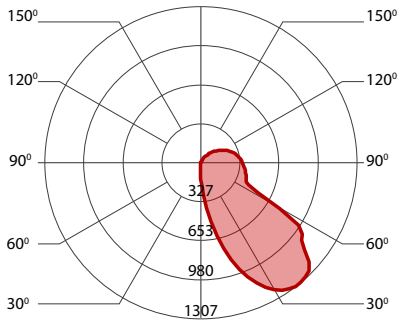
WALL RECESSED
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Project: _____

Type: _____

DIRECT

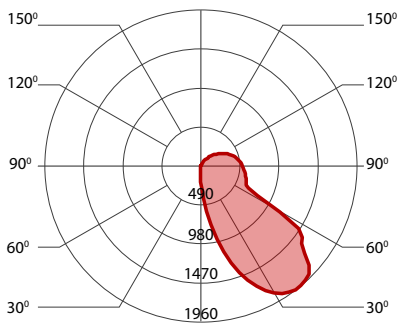
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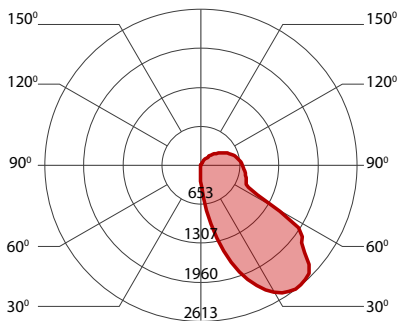
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