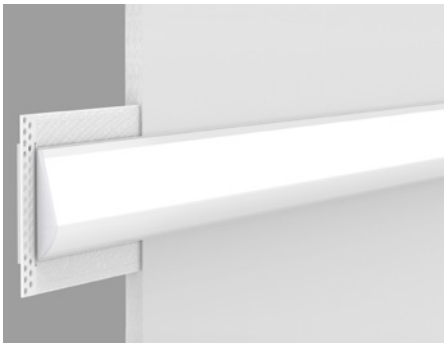
INWALO

WALL RECESSED
STATIC WHITE, FULL SPECTRUM

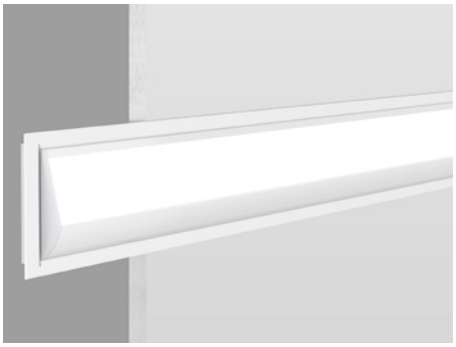
LUMENWERX

Project: _____

Type: _____



Drywall mud flange



Drywall trim

EXTRA SHALLOW

IP44

ada compliant

5 YEAR WARRANTY

Up to 131 lm/W performance

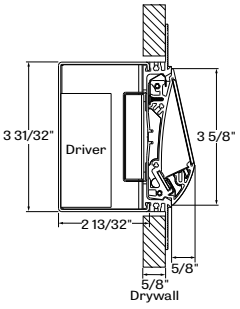
Inwalo offers practical illumination from a linear in-wall luminaire. The Inwalo housing requires just 5/8" of mounting depth - the thickness of common drywall - so the luminaire mounts on top of the wall studs. The driver compartment slides behind the luminaire for totally flexible installation between 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.

Order Guide

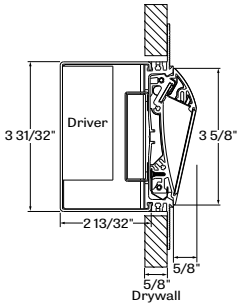
LUMINAIRE ID	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH
	AIO					
INWALWRI - Inwalo Wall Recessed Indirect **INWALWRD** - Inwalo Wall Recessed Direct	**AIO** - Asymmetric In-wall Optic	**SW** - Static white **FS** - Full spectrum	**80** [1] - 80 CRI **90** [1] - 90 CRI **95** [2] - 95 CRI [1] Not available with full spectrum. [2] Not available with static white.	**500** - Min. low output 500lm/ft **750** - Medium output 750lm/ft **1000** [3] - Max. high output 1000lm/ft **####** - Other required lm/ft [3] Not available with full spectrum	**27** - 2700K **30** - 3000K **35** - 3500K **40** - 4000K	**Standard sections** - 4' & 8' **For all other specify length** **#FT** - Nominal length in feet **#IN** - Length in inches **Continuous Run** - For luminaires over 8' **Minimum individual section 4'**

VOLTAGE	DRIVER [4]	ELECTRICAL	MOUNTING	FINISH	OPTIONS
120 - 120V **277** - 277V **UNV** - 120V-277V	**D1** - 1% 0-10V **DA** [5] - DALI **LTEA2W** - Lutron 1% - 2 wire FP 120V **LDE1** [5] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V [4] PoE (Power-over-Ethernet) compatible. Consult factory for details. [5] On-site commissioning is required.	**1** - 1 circuit **2** - 2 circuits **+#EM** - Emergency light circuit **+#NL** - Night light circuit	**DTR** - Drywall trim **DMF** - Drywall mud flange	**W** - Matte white **WA** - White antimicrobial Silverwerx **CF#** - Custom finish, specify RAL#	**FU** - Fuse **GSK** [6] - Gasketed construction **NA** - None [6] IP44 rated when specified with the gasketed construction option.

CROSS SECTION

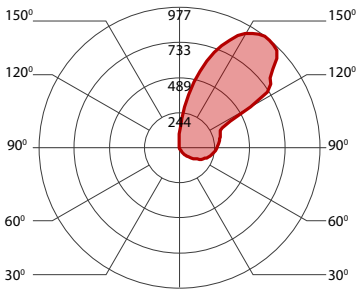


INWALWRI - indirect



INWALWRD - direct

LIGHT DISTRIBUTION



AIO - Asymmetric In-wall Optic

2018 PROGRESS Report SELECTION

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Intertek

INWALO

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STATIC WHITE, FULL SPECTRUM

LUMENWERX

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 - STATIC WHITE

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

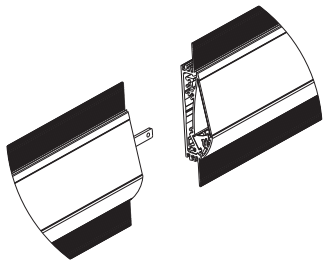
LIGHT SOURCE - FULL SPECTRUM

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

LUMINAIRE 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

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.

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).

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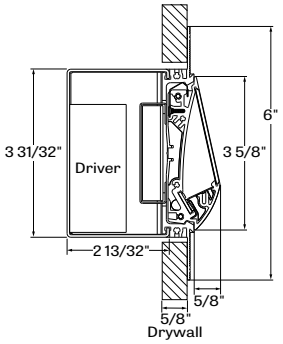
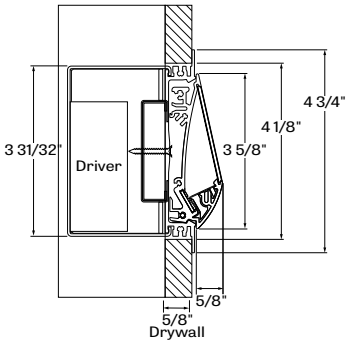
MOUNTING OPTIONS

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

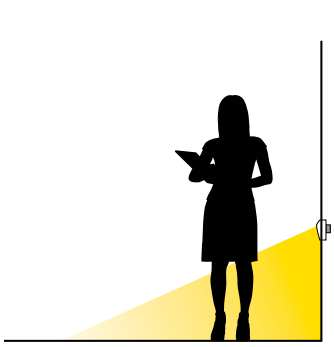


DMF - wall mud flange

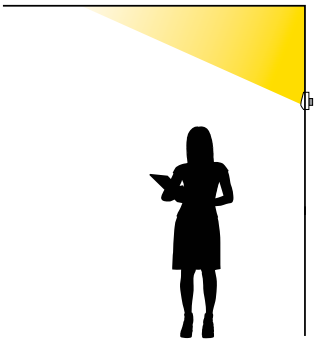


DTR - wall trim

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



INWALO DOWNLIGHT ORIENTATION



INWALO UPLIGHT ORIENTATION

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - Matte white powder coating. Optional antimicrobial finish

GASKET CONSTRUCTION OPTION

The lens is gasketed and sealed, making the fixture suitable for healthcare applications. IP44 rated.

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
Gasket (GSK option) - Closed-cell silicone foam gasket

WEIGHT

Inwalo 4' - 13.23lbs - 6kg
Inwalo 8' - 26.45lbs - 12kg

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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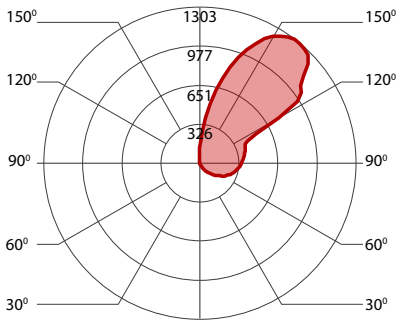
Project: _____

_____

Type: _____

Indirect

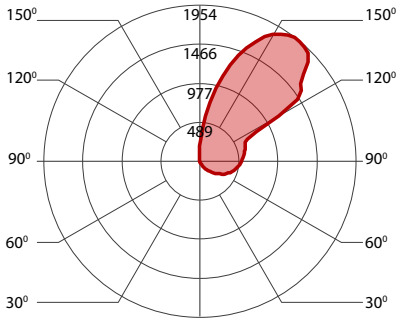
500 LUMEN AT 80CRI - LOW OUTPUT



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

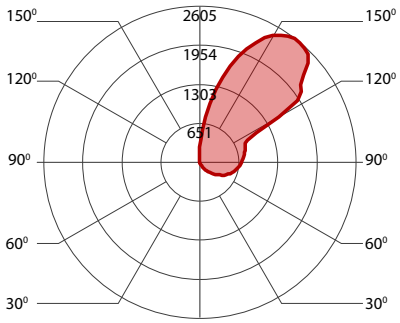
750 LUMEN AT 80CRI - MEDIUM OUTPUT



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

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INWALO

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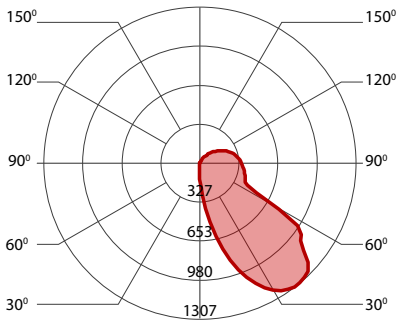
Project: _____

_____

Type: _____

Direct

500 LUMEN AT 80CRI - LOW OUTPUT



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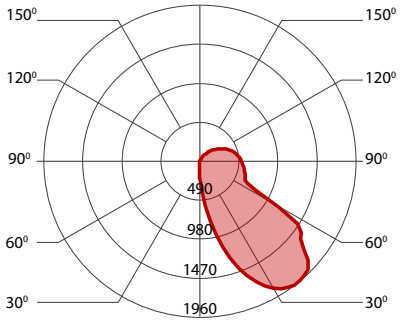

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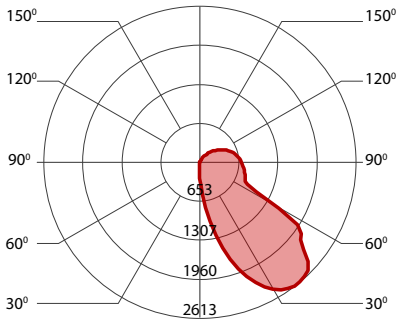

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