WSL Linear WaveStream luminaire
WaveStream LED

The breakthrough you’ve been waiting for

WaveStream LED technology presents a new paradigm that will take LEDs mainstream in a way that hasn’t been possible before — transforming the LED point source into a highly efficient and elegant luminous plane. It’s a groundbreaking technology that delivers unparalleled design freedom, maximum energy efficiency and unrivaled optical and brightness control.

The science behind the beauty

A patented optical coupling process maximizes the amount of light injected into the WaveStream panel, dramatically improving luminaire efficiency. Laser-precise, patented AccuAim optics arranged in exacting patterns provide unparalleled brightness control while delivering optimal distributions tailored to each fixture and application.

WaveStream is the first lighting technology designed and optimized exclusively for LEDs — with form and function that allows mainstream adoption like never before. Once you factor in all the ways you can build and customize WaveStream lighting solutions, over 500,000 configurations are available to address nearly every major lighting application.

Patented AccuAim™ optics
Precisely controlled light output

Highly efficient luminous panel
Optical control
Energy efficiency
Brightness control
Mainstream value

Optimal LED coupling
Design freedom

EATON WSL Linear WaveStream luminaire
Performance, uniformity and design. the new WSL linear series redefines traditional linear ambient lighting by fully embracing latest LED technology with Eaton’s innovative WaveStream™ design. With its low-profile housing and continuous row mounting options, the WSL provides a premium visual aesthetics designed to properly illuminate a wide variety of workplace environments. Unlike any other, the WSL linear series high efficiently advanced optical design delivers optional light uniformity along with exceptional visual comfort. The result is excellent performance and superior energy savings – all at an affordable price.
Overview

WSL Linear with WaveStream LED Technology

- Uniquely designed WaveStream™ "Accum-Aim™" optics for precise light distribution
- Streamlined low profile design with robust aluminum and steel construction
- Wide range of performance levels depending on application needs
- Fully integrated control options for different mounting
- Energy savings in excess of 45% compared to traditional fluorescent linear solutions
- Elimination of traditional linear lens issues – fading and cracking
- Flexible mounting options for either stand-alone or continuous row
- Suitable for plugable, tandem in-line wiring configuration both line and low voltage
- Ideal replacement for low bay and warehouse, open/assembly area, retail, horeca luminaries
- cULus damp location, RoHS compliant, DLC Qualified

Compliance and approvals

- LM79 / LM80 Compliant
- UL84, DLC Qualified
- CEC 09/13
- ETL Listed

WSL LINEAR

- Precision optics deliver optimal light distribution
- Performance offering ensures balanced lumens per watt
- Continuous row flexibility with integral control options
- Cost effective per Linear ft.
WSL offers an alternative to the traditional LED striplight by offering aesthetics and performance comparable to high cost architectural linear products with the value of an LED striplight. Upgrade your aesthetic design without paying a premium price.

WSL Linear with WaveStream LED technology
- High-performance efficacy up to 104 lumens per watt
- Energy savings in excess of 45% compared to traditional fluorescent indirect, low bay, linear products
- Three Correlated Color Temperatures (3000K, 4000K, and 5000K) at typical 65 CRI
- 0-10V dimming drivers (standard) - compatibility with wall dimmers (10% - 100%). Daylighting sensors and motion controllers from Eaton.
- Optional High-definition (HD) 0% - 1% dimming
- EI options for easy plug-in assembly installation for both line voltage and dimming
- Emergency options – EL7W (700) and EL14W (1400)
- Qualified: 150,000 hrs.
- Comprehensive 5-year warranty

Performance

Photometrics

WSL– 8% w/uplight

Electronic Driver
Linear LED 4000K
Spacing criterion:
ll) 1.34 x mtg height,
(\) 1.19 x mtg height
Lumens = 3098.0
Input Watts = 24.9
Luminous Efficiency = 124.4 lm/W
Test: 4WSL-LD2-30-UPL8-UNV-L840-CD1-U.IES

WSL– 8% w/uplight

Electronic Driver
Linear LED 4000K
Spacing criterion:
ll) 1.32 x mtg height,
(\) 1.18 x mtg height
Lumens = 3022.4
Input Watts = 24.9
Luminous Efficiency = 121.4 lm/W
Test: 4WSL-LD2-30-UNV-L840-CD1-U.IES

WSL also available with 15% uplight.
WSL Linear with WaveStream LED Technology

Low profile design - 3.85" H / 8.24" W

8 ft. / 4 ft. lengths with solid/uplight (9% / 15%) options

Acrylic optical panel with Accu-aim optics

Steel roll-formed channel construction with conformed end caps

Aluminum extrusion for thermal management

Multiple conduit entry points

Two-piece assembly for ease of install

Construction

Eaton WSL Linear WaveStream luminaire

8 ft. / 4 ft. lengths

4 ft.

8 ft.

[Dimensions and measurements]
WSL with integrated sensor controls

Metalux WSL luminaires with Wavestream LED technology are available with an optional integrated sensor system, optimized to meet energy codes for occupancy sensing and daylight harvesting.

- 900 sq. ft. (SVPD2)
- 1200 sq. ft. (SVPD3)

End of Row / Middle of Row configuration

PIR / Daylighting harvesting

Two remote options (Program / Personal)

Customizable options by application area

No new wiring to meter code: One electrical connection to make...

Fully integrated design. Sensor is factory pre-wired

No commissioning required. Default settings meet most basic energy codes.

Optional remote allows easy adjustment and user control

Worry free controls planning – sensor coverage overlaps typical lighting spacing.

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Controls

Local controls

Code-compliant solutions for wall-box ceiling and room systems:

- Easy to use, cost effective
- 0-10V dimming, occupancy and daylight harvesting

Optional remote control

EATON WSL Linear Wavestream luminaire
### Installation

**WSL Linear with WaveStream LED technology**

**Stand alone or continuous row assembly**

**Suspended / Surface Mount**
- **Suspended accessory options**
  - Hanging chain
  - Aircraft cables
  - Stem – fixed / adjustable
- **Surface**
  - Tong hanger
  - Gripper hanger
  - Stem or spacer
- Easy mount features with Quick Set-up

### Continuous row installation*

- **Channel Row Connector**
  - Utilize the channel row connector for clean, straight row alignment.
- **Lock into Channel**
  - Simply slide channel connector onto mating channels.
- **Fastener Attachment**
  - Secure on both sides with fasteners.
- **Row Trim**
  - Includes provided row trim for aesthetic finish.

*Shown with optional channel connector

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**EATON**

WSL Linear WaveStream luminaire
Lighting Product Lines
- Halo
- Halo Commercial
- Portfolio
- Iris
- RSA
- Metalux
- Corelite
- Neo-Ray
- Fail-Safe
- MWS
- Ametrix
- Shaper
- io
- Lumark
- McGraw-Edison
- Invue
- Ephesus
- Lumière
- Streetworks
- AtLite
- Sure-Lites

Controls Product Lines
- Greengate
- iLumin
- Zero 88
- Fifth Light Technology
- iLight (International Only)