

STRAIGHT & NARROW 22 / 23

Narrow Aperture LED & Fluorescent Lighting System





STRAIGHT & NARROW 22 / 23

Narrow aperture, unlimited flexibility.

Since 1942 Neo-Ray has provided precision luminaires with a refined architectural sensibility. Driven by performance and a clean modern aesthetic, the Straight & Narrow series 22 and 23, available in Fluorescent or LED, represent the ultimate in simplicity; a thin line of light. With virtually unlimited applications, the Straight & Narrow family allows architects and designers the freedom to experiment with their designs without exceeding ever decreasing energy budgets.

Series 22

Series 23



Designed from the inside out, the Straight and Narrow family elegantly synthesizes premium materials with industry leading technology. Utilizing precision optics with the highest quality reflective materials, the Series 22 & 23 provides unmatched performance in an elegant, fully extruded profile. The Straight & Narrow luminaires allow easy access from below the plenum, requiring only standard tools for maintenance. Compatible with nearly every ceiling type in recessed, pendant and surface mount, the Series 22 and 23 provide exceptional design flexibility with industry leading performance.

Solutions Integrated

In conjunction with Cooper Controls, Neo-Ray's Straight and Narrow family easily integrates into any digitally controlled application. With control packages by Greengate, Illumin and now Fifth Light, Cooper Controls and Neo-Ray can provide integrated control solutions from a private office to an entire building campus.



Serviceability



Fully accessible from below the ceiling plenum for maintenance and easy

Robust Housing



Housings are made of lightweight, durable 6063 extruded aluminum. All components are RoHs compliant and fully recyclable.

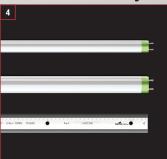
Performance Optics



High reflectance optical materials with fully recyclable aluminum substrate to provide uniform illumination.

COOPER Controls

Ultimate Versatility



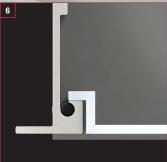
Available in T5, T5H0, T8 and LED, the Straight and Narrow series provides multiple lumen and wattage options.

Precision Alignment



Alignment pins and engineered joining system keep luminaires straight and make installation easy.

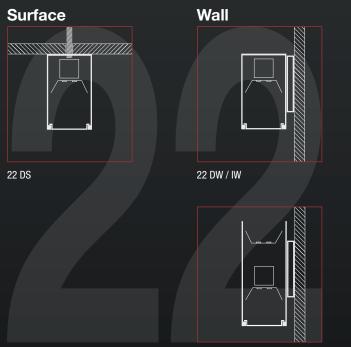
Lens Options



With a variety of louvers and lenses, Series 22 and 23 can be installed in virtually every surface to match any aesthetic.

Straight & Narrow Family

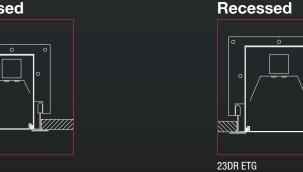
Straight & Narrow Family

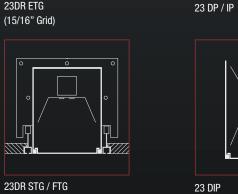


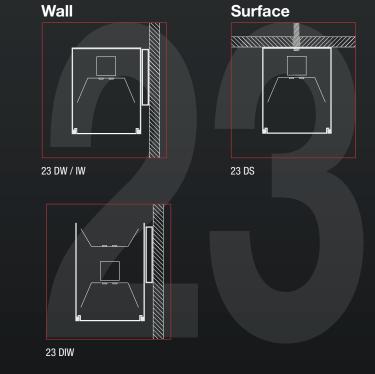
22 DIW

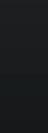




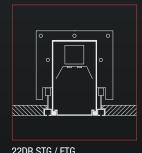






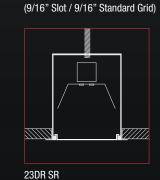


22 DIP



(15/16" Grid)

22DR STG / FTG (9/16" Slot / 9/16" Standard Grid)



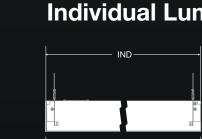
Flanged Sheetrock

23DR FSR

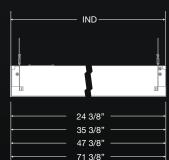
23XR

Asymmetric Recessed

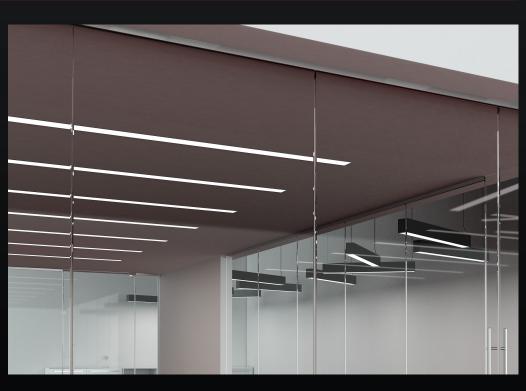
Flangless Sheetrock



Pendant



Both fluorescent and LED luminaires are

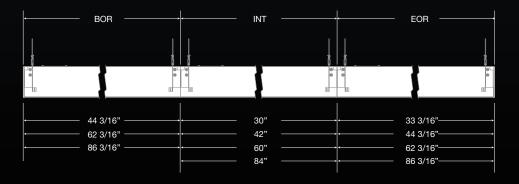




Flexibility in design and source

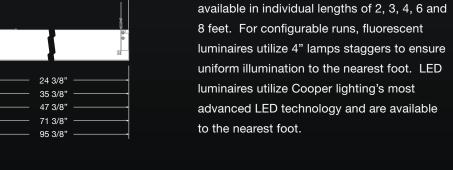
Representing the ultimate in design and technological flexibility, The Straight and Narrow series is any requirement.

Configurable Runs

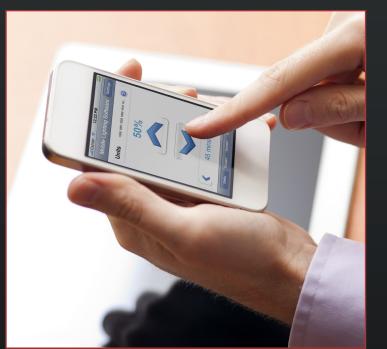


available in all mounting applications whether LED or Fluorescent. No matter the end goal of the designer; be it maintenance, power density, budget, or aesthetics, the Series 22 and 23 adapts to

Individual Luminaires







Cooper Controls brings energy savings, control, and addressability to Neo-Ray

The future of lighting lies in smart controls in combination with smart light fixtures. From small private offices to large-scale building management systems, Cooper Controls has a fully integrated solution for any project. Cooper Controls now offers a complete line of digital addressable control products as part of the Fifth Light brand which ensures 2-way communication with every component in the building. Fifth Light hardware consists of multi-sensors, user interfaces, personal controls, ballasts, drivers, and more. Fifth Light also offers a wide array of software that can work with VOIP phones, computers, tablets, and mobile phones so you can have complete control at your fingertips.



The Controls are Inside

Fifth Light dimmable ballasts and drivers provide continuous dimming control along with programmable group and scene settings. The ballasts and drivers can even report the lamp status through the Digital Addressable Lighting Interface (DALI).



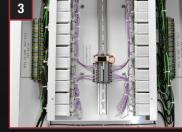
Control on your Computer

Fifth Light Lighting Management Software (LMS) allows you to manage large lighting systems through an easy to use web interface. The graphical interface allows for visual control over which lights are being controlled. The LMS can even allow you to control multiple facilities from a single web page.



Sensors

The Fifth Light Multi-Sensor allows for daylight harvesting, occupancy detection, and temperature control in a single unit. The DALI communication bus can even communicate to most standard mechanical building management systems.



Scalable Panels

Fifth Light Lighting Control Panels (LCP) are scalable and modular in order to accommodate any lighting application.

The LCP can communicate on a shared IF network for a fully converged solution.



Control on your IP Phone

Fifth Light VOIP Lighting Software turns your telephone into a versatile lighting control device. Easily adjust the light levels on a single fixture or multiple fixtures from the key pad or touch screen. The VOIP Light Software is ideal for conference rooms, offices, and common areas.



Control at your Fingertips

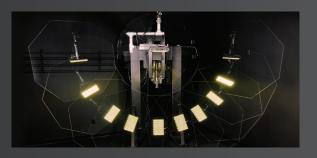
Fifth Light Mobile Lighting Software provides advanced control and sophisticated management of the lighting system in the palm of your hand using your smart phone or tablet. Set light levels, track energy consumption, and receive status reports using native applications running on your mobile device.

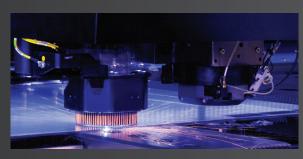
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Cooper Lighting is at the forefront in transforming the lighting industry and setting an unmatched standard for **innovation** and **reliability**. No one will do more to empower you with the innovations, technology and resources you need to meet the challenges of the future.

- Integrated control options
- LM79 and LM80 compliant
- 0-10V dimming standard
- 50,000 Hour lifetime using TM-21-11 standards
- 85+ Color Rendering Index (CRI)
- 5 Year warranty including the LED and driver
- Independently certified photometric lab









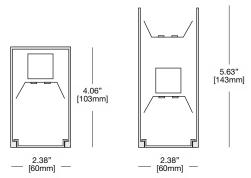






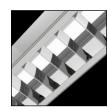


Series 22 Ordering



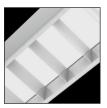


SHIELDING OPTIONS - FLUORESCENT ONLY



High performance louver

High performance louver w/ acrylic overlay



S91W White painted louver S91WP White painted louver w/ acrylic overlay



Satin white regressed lens

SHIELDING OPTIONS - LED OR FLUORESCENT



Satin white lens S92HT

Lay-in high transmission lens S92HTS

Snap-in high transmission lens

DIW

Series 22 - 2" Slot S22

FIXTURE TYPE

DP Direct pendant ΙP Indirect pendant DIP Direct/indirect pendant DR Direct recessed Direct surface DS DW Direct wall IW Indirect wall

Direct/indirect wall

2250 lms 37W

LAMP QTY - LED* LAMP QTY - FLUORESCENT

1L Light level 1 1 lamp down 1750 lms 28W 2 lamps down Light level 2 1x1 1 up / 1 down1

*Per 4 foot fixture

LAMP TYPE - LED LAMP TYPE - FLUORESCENT L30 LED 3000K3 T5 T5 normal output LED 3500K L35 T5HO T5 high output LED 4000K4 L40 T8 normal output

MOUNTING

ETG Recessed 15/16" Exposed T-grid FTG Recessed 9/16" Exposed T-grid

STG Recessed Slot T-grid SR Recessed Sheet rock Pendant single cable SC SCETG Single cable with ETG mount SCFTG Single cable with FTG mount SCSTG Single cable with STG mount

SCST Single cable with structure ceiling mount

FIXTURE / RUN LENGTH 2 foot fixture 3 foot fixture 4 foot fixture 6 foot fixture 8 foot fixture XX Continuous run⁵

VOLTAGE

120V 277V

Universal 120V-277V

BALLAST OPTIONS

EB Electronic ballast DB Dimming ballast

CIRCUITING

Single circuit DU Dual circuit

FUSING

GLR Single circuit GMF Dual circuit

SHIELDING OPTIONS

S91 High performance louver (fluorescent only)

S91P High performance louver w/ acrylic overlay (fluorescent only)

S91W White painted louver (fluorescent only)

S91WP White painted louver w/ acrylic overlay (fluorescent only)

S92 Satin white lens

S22R Satin white regressed lens (fluorescent only) S92HT Lay-in high transmission lens

S92HTS Snap-in high transmission lens

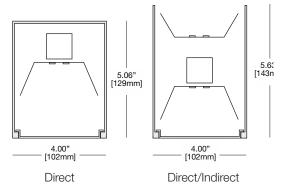
ORDERING EXAMPLE

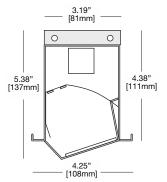
S22-DR-2L35-ETG-4-U-DD-SI-S92HTS

- 1. Not all options available. Please consult your local Cooper Lighting Rep for availability.
- Specification and dimensions subject to change without notice.
 10% less than 3500K light levels
- 10% more than 3500K light levels 5. For continuous runs please refer to website for exact lengths and dimensions

14 neonay

Series 23 Ordering

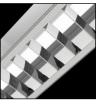




XR - Asymmetric Recessed Not available with T8 lamp option

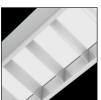


SHIELDING OPTIONS - FLUORESCENT ONLY



High performance louver

High performance louver w/ acrylic overlay



S90W White painted louver S90WP

White painted louver w/ acrylic overlay



Satin white regressed lens

SHIELDING OPTIONS - LED OR FLUORESCENT



Satin white lens S93HT

Lay-in high transmission lens S93HTS

Snap-in high transmission lens

FIXTURE

XR

S23 Series 23 - 4" Slot

FIXTURE TYPE

DP Direct pendant Indirect pendant DIP Direct/indirect pendant DR Direct recessed Direct surface DS DW Direct wall IW Indirect wall DIW Direct/indirect wall

Asymmetric recessed

LED 4000K4

LAMP QTY - LED* LAMP QTY - FLUORESCENT 1L Light level 1 1 lamp down 2061 lms 28W 2 lamps down 1 up / 1 down1 Light level 2 1x1 2635 lms 37W 1x2 1 up / 2 down1 *Per 4 foot fixture 2 up / 1 down1

LAMP TYPE - LED LAMP TYPE - FLUORESCENT L30 LED 3000K3 **T**5 T5 normal output L35 LED 3500K T5HO T5 high output

T8

T8 normal output 6

MOUNTING

L40

ETG Recessed 15/16" Exposed T-grid FTG Recessed 9/16" Exposed T-grid STG Recessed Slot T-grid Recessed Sheet rock SR SC Pendant single cable SCETG Single cable with ETG mount SCFTG Single cable with FTG mount **SCSTG** Single cable with STG mount SCST Single cable with structure ceiling mount

FIXTURE / RUN LENGTH

2 foot fixture 3 foot fixture 4 foot fixture 6 foot fixture 8 foot fixture XX Continuous run⁵

VOLTAGE

120V 277V Universal 120V-277V

BALLAST OPTIONS

Electronic ballast DB Dimming ballast

CIRCUITING

Single circuit DU Dual circuit

FUSING

GLR Single circuit GMF Dual circuit

SHIELDING OPTIONS

S90 High performance louver (fluorescent only)

S90P High performance louver w/ acrylic overlay (fluorescent only)

S90W White painted louver (fluorescent only)

S90WP White painted louver w/ acrylic overlay (fluorescent only) S93 Satin white lens

S23R Satin white regressed lens (fluorescent only)

S93HT Lay-in high transmission lens

S93HTS Snap-in high transmission lens

ORDERING EXAMPLE

S23-DR-2L35-ETG-4-U-DD-SI-S93HTS

- Not all options available. Please consult your local Cooper Lighting Rep for availability.
 Specification and dimensions subject to change without notice.
- 3. 10% less than 3500K light levels
- 4. 10% more than 3500K light levels
- 5. For continuous runs please refer to website for exact lengths and dimensions6. XR not available with T8 lamp option.

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Halo Metalux Lumark Sure-Lites Neo-Ray Corelite Portfolio Iris Shaper io Lumière

Invue McGraw-Edison

Streetworks Fail-Safe MWS DLS RSA Ametrix

Domestic Facilities

Cranbury, New Jersey Elk Grove Village, Illinois Irving, Texas Ontario, California Peachtree City, Georgia **Canadian Facilities**

Calgary, Alberta T2E 7V9

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