

**FR Series**

Premium Commercial LED luminaire

**Metalux**





# FR Premium commercial LED luminaire

**Aesthetics, performance, value.** The **FR** series is a premium luminaire offering an excellent connected lighting solution with the latest solid state and optimized electronic driver technologies.

**Aesthetics.** Offered in two unique visual aesthetics – Standard and High Performance, the FR series is a modern styled luminaire suitable for any application such as offices, hospitals, schools, retail and other work spaces. With its styled design, FR series is a premium upgrade over traditional lensed troffers, parabolics and direct/indirect lighting products.

**Performance.** With performance as high as 142 lm/W, the payback period for energy savings may be reduced especially when combined with DLC standard and premium rebates. This connected lighting solution offers further flexibility with 0-10V dimming standard, and step/ Bi-level, 10% and 1% DALI, three lumen options, and integrated sensor options to reduce energy consumption and cost while meeting or exceeding national, state and local code requirements. A full complement of emergency lighting options are also available.

**Value.** Compared to traditional fluorescent and other LED solutions, the FR series offers superior energy efficiency and excellent application flexibility allowing the reduction of overall operating and maintenance costs.



**Improved aesthetic over traditional prismatic lensed troffer**

**2 x 4 and 2 x 2 product configurations**

**Excellent performance with up to 142 lm/W**

**Two unique versions - Standard or High Performance (HP)**

**0 to 10V driver, optional step dim, 1%, DALI, and Lutron**

**CCT: 2700K, 3000K, 3500K, 4000K, 5000K**

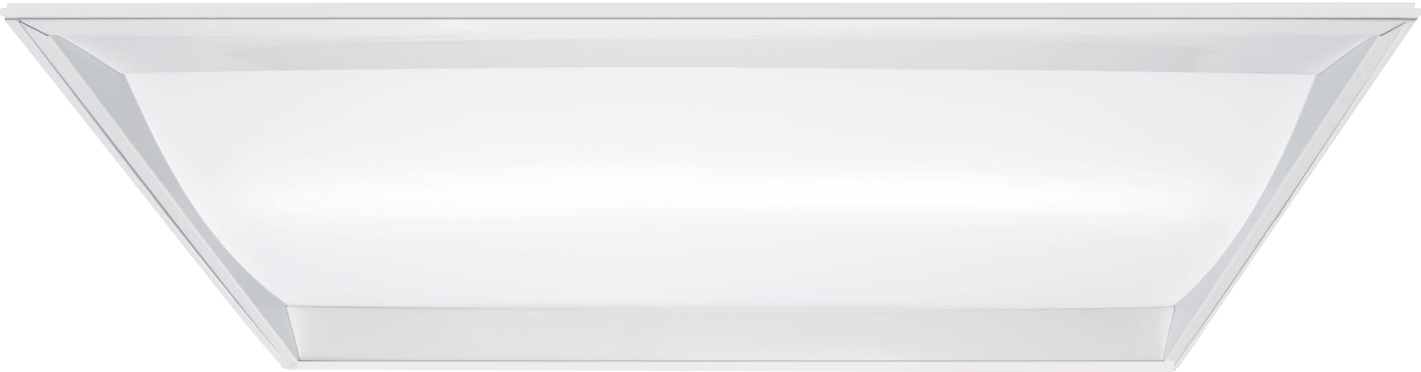
**Ease of driver access with hinged door assembly**

**Damp location listed**





FR Premium commercial LED luminaire



Construction

- Recessed: 2' x 2' and 2' x 4'
- Shallow depth: 3.25"
- Tool-less hinged door for easy access
- cULus damp location / IC Rated / RoHS compliant
- Sustainable materials
- Five-year warranty



Performance

- High-performance efficacy up to 142 lumens per watt
- Energy savings in excess of 50% compared to traditional fluorescent troffers
- Five Correlated Color Temperatures (2700K, 3000K, 3500K, 4000K, 5000K) at typical 85 CRI
- 2' x 2': >L88 @ 60,000 hrs.  
2' x 4': >L82 @ 60,000 hrs.
- Binning: Per ANSI, 3-step MacAdam ellipse



Options

- Three stocked lumen packages in two CCTs
  - 2' x 2': 3200 (29.4W);  
2' x 4': 4000 (30.6W) and 6500 (59.1W)
  - Ten additional lumen packages offered as MTO
- Six different models – Standard (Single Bar) or High Performance (Dual Bar)
- Universal (120V/277V) or 347V
- Emergency – EL (700) and EL14 (1400), and other options
- Surface mount field install kits
- Flex wiring configurations
- Chicago plenum rated version

Controls

- FR series can include a factory-installed integrated sensor system for occupancy and daylight dimming control, with programming and manual controls from an optional handheld remote.
- FR luminaires include 0-10V dimming drivers for control using wall dimmers (10% - 100%), daylighting sensors and room controllers from Cooper Lighting Solutions. Optional 1% dimming available.
- FR luminaires are available with native DALI drivers for complete digital energy management using Fifth Light addressable lighting controls.
- Connected sensors available with Enlighted and WaveLinx options.



Energy data



Catalog Number	Performance Type	Nominal Lumens	Wattage	Efficacy (lm/W @ 3500K)
<b>2' x 2'</b>				
22FR-24-UNV-L8XX-CD1-U	Standard	2345	20.2	120.0
22FR-32-UNV-L8XX-CD1-U	Standard	3313	29.4	110.0
22FR-24-HP-UNV-L8XX-CD1-U	Premium	2365	19.4	126.2
22FR-32-HP-UNV-L8XX-CD1-U	Premium	3238	26.1	121.8
<b>2' x 4'</b>				
24FR-30-UNV-L8XX-CD1-U	Premium	3023	22.9	135.3
24FR-40-UNV-L8XX-CD1-U	Premium	4096	30.6	130.6
24FR-50-UNV-L8XX-CD1-U	Premium	5034	40.9	123.4
24FR-65-UNV-L8XX-CD1-U	Standard	6703	59.1	110.7
24FR-69-UNV-L8XX-CD1-U	Standard	6900	67.1	105.2
24FR-72-UNV-L8XX-CD1-U	Standard	7237	68.8	104.6
24FR-30-HP-UNV-L8XX-CD1-U	Premium	3067	21.5	139.0
24FR-40-HP-UNV-L8XX-CD1-U	Premium	4542	29.7	136.1
24FR-50-HP-UNV-L8XX-CD1-U	Premium	5090	38.5	131.8
24FR-65-HP-UNV-L8XX-CD1-U	Premium	6530	53.2	123.6
24FR-69-HP-UNV-L8XX-CD1-U	Premium	6986	57.6	121.3
24FR-72-HP-UNV-L8XX-CD1-U	Standard	7265	63.9	118.5
24FR-80-HP-UNV-L8XX-CD1-U	Standard	8028	68.5	117.0

**Notes:** Bold=stocked SKUs (STK), available for immediate shipment. Non-bold=MTO SKUs, available in less than two weeks.  
All models also available in 2700K and 3000K.  
Lumens based on 3500K. Use lumen multiplier for 4000K and 5000K.



# Connected Lighting Systems



## SVPD Integrated Sensor System



- Adjustable occupancy sensing and daylight dimming control
- Out-of-the-box functionality with no configuration required
- Optional handheld remote for field adjustments and personal control
- Low-bay and high-bay detection pattern options for various ceiling heights up to 30 feet

## ENLIGHTED Wireless Connected Lighting System



- Configurable dimming, occupancy, light, temperature and power use sensing
- Enterprise-class wireless networking with fully addressable settings
- Powerful software for energy management and Internet of Things (IoT) data capture and analytics
- Low bay detection pattern covers low- and high-ceiling applications up to 20 feet

## WaveLinx Wireless Connected Lighting System



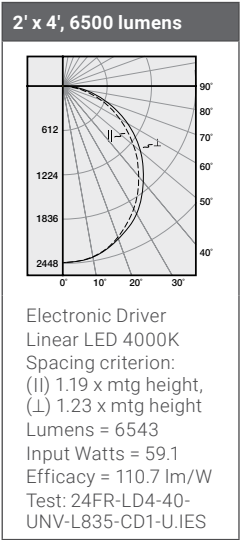
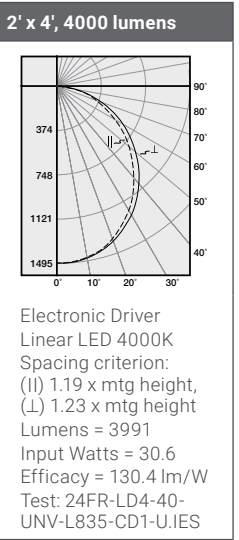
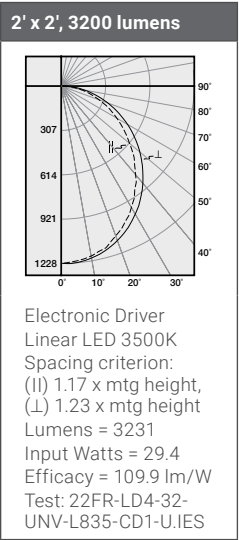
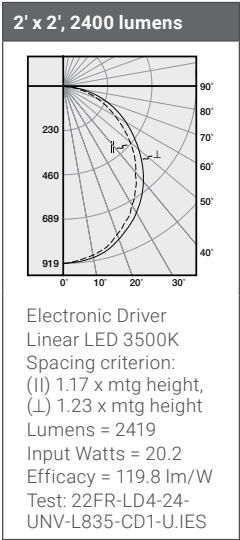
- Adjustable occupancy sensing and daylight dimming control
- Simple, secure wireless connectivity with out-of-the-box code compliance
- Easy to use mobile application allows for fast set up and unlocks advanced control capabilities
- Detection pattern covers standard ceiling applications up to 12 feet

## DLVP Distributed Low Voltage Power System



- Save on labor costs.** With an average of 40% reduction in man hours, DLVP reduces number of qualified electricians needed on the job site and installs 2X faster than traditional systems.
- Save on materials.** DLVP eliminates the need for unnecessary line-voltage materials.
- No system commissioning.** A contractor can configure the system with the flip of a switch, or by using a handheld remote.
- Code compliance made easy.** The system was designed to meet the energy code requirements of any space.

# Optics and photometry



**Lighting Product Lines**

Ametrix  
AtLite  
Corelite  
Ephesus  
Fail-Safe  
Halo  
Halo Commercial  
Invue  
io  
Iris  
Lumark  
Lumière  
McGraw-Edison  
Metalux  
MWS  
Neo-Ray  
Portfolio  
RSA  
Shaper  
Streetworks  
Sure-Lites

**Controls Product Lines**

Fifth Light Technology  
Greengate  
iLight (International Only)  
iLumin  
Zero 88

**Connected Lighting Systems**

Distributed Low-Voltage Power  
HALO Home  
iLumin Plus  
Enlighted  
WaveLinx  
Trellix



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