

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Metalux

### Ovation 22RDI LED

2' x 2' Specification Grade LED Troffer

#### Typical Applications

Office • Education • Healthcare • Retail

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- Product Warranty

#### Product Certification



#### Product Features



Connected Systems



damp location



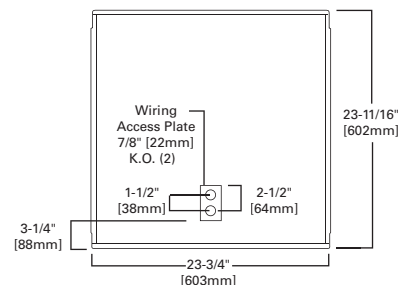
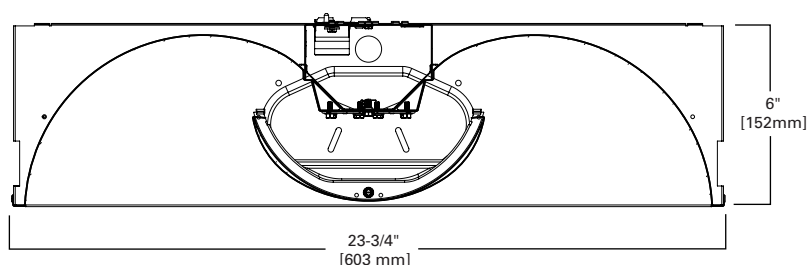
Designed to provide safe and convenient means of disconnecting power



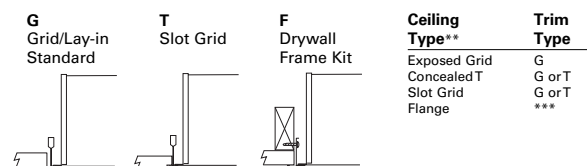
#### Top Product Features

- Available in 1' x 4', 2' x 2' and 2' x 4' recessed versions
- Clean architectural appearance
- Optimal performance and energy efficient
- High performance efficacy up to 109 lumens per watt
- Over 60% energy savings when compared to fluorescent troffers
- Options to meet Buy American and other domestic preference requirements

#### Dimensional and Mounting Details



#### Ceiling Compatibility



## Order Information

SAMPLE ORDER NUMBER: **22RDI-30-UNV-L840-CD1-U**

Domestic Preferences	Rating	Series	Air	Lumen Output	Shielding	Voltage	Emergency Options
Domestic Preferences <sup>(1)</sup>	Rating	Series <sup>(3)</sup>	Air	Lumen Output	Shielding	Voltage <sup>(6)</sup>	Emergency Options
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act <b>TAA</b> =Trade Agreements Act	<b>[Blank]</b> =Standard <b>ATW-SW4</b> = Chicago Rated <sup>(2)</sup>	<b>22RDI</b> =2x2 Ovation Series (Recessed Direct/Indirect)	<b>[Blank]</b> =Standard <b>A</b> =Air (Vented) <sup>(4),(5)</sup>	<b>20</b> =2000 Lumens <b>30</b> =3000 Lumens <b>40</b> =4000 Lumens	<b>[Blank]</b> =Metal Perforated Lens (standard)	<b>347V</b> =347 Volt <sup>(7)</sup> <b>UNV</b> =Universal Voltage 120-277 <b>120V</b> =120 Volt <sup>(8)</sup> <b>277V</b> =277 Volt <sup>(8)</sup>	<b>EL7W</b> =7-watt 120V-277V emergency battery pack <sup>(9)</sup> <b>EL10W</b> =10-watt 120V-277V emergency battery pack <sup>(9)</sup> <b>EL14W</b> =14-watt 120V-277V emergency battery pack <sup>(9)</sup> <b>EL10WSD</b> =10W emergency battery pack with self-diagnostic installed <sup>(9),(13)</sup> <b>EL14WSD</b> =14W emergency battery pack with self-diagnostic installed <sup>(9),(13)</sup> <b>GTR2</b> =Generator Transfer Relay <sup>(10),(11)</sup> <b>ETRD</b> =Emergency Transfer Relay with dimming control <sup>(10)</sup>
<b>Notes</b> (1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	<b>Notes</b> (2) Chicago rated and air vented cannot be ordered in combination with each other.	<b>Notes</b> (3) DesignLights Consortium® Qualified and classified for DLC Standard, refer to <a href="#">www.designlights.org</a> for details.	<b>Notes</b> (4) Air version is vented but does not meet air handling requirements. (5) Chicago rated and air vented cannot be ordered in combination with each other.			<b>Notes</b> (6) Products also available in non-US voltages and frequencies for international markets. (7) 347V versions are not available with emergency options. SD, 5LTD, not available. (8) Must specify voltage as 120V or 277V when ordering GTR2 option.	<b>Notes</b> (9) Factory installed with integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7-700 lumens). IES-format photometry for luminaire under emergency operation available. Battery option increases total height by 1 inch. (10) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. (11) Must specify voltage as 120V or 277V when ordering GTR2 option. (13) EL10WSD and EL14WSD not available with 347V.

CCT	Flex	Driver Type	Number of Drivers
CCT	Flex	Driver Type	Number of Drivers
<b>L830</b> =3000K <b>L835</b> =3500K <b>L840</b> =4000K <b>L850</b> =5000K	<b>A3/8-4/18GDIM</b> =3/8" Flex with 0-10V Dimming Leads See below for details. <b>A3/8-5/18GDIM</b> =Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details.	<b>CD</b> =0-10V Dimming Driver (1%-100% Dimming) <b>SD</b> =Step Dimming Driver (50% or 100% Dimming) <b>5LTD</b> =Fifth Light DALI Driver (10%-100% Dimming) <sup>(8)</sup>	<b>1</b> =1 Driver
<b>Flexible Metal Conduit Options</b> Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. <b>A3/8-4/18GDIM series notes:</b> Factory installed dimming option 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556. NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).		<b>Notes</b> Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (B) Consult Fifth Light system pages for additional details and compatibility.	

Integrated Sensing Systems	Packaging	Accessories
Integrated Sensing Systems	Packaging	Accessories (order separately) <sup>(13)</sup>
<b>[Blank]</b> =No Sensor <b>LWTPD1</b> =Enlighted Wireless Tile-mount Sensor <sup>(A)</sup>	<b>U</b> =Unit Pack <b>PALC</b> =Job Pack, in carton	<b>EQ-CLIP-U</b> =T-BAR Safety Earthquake Clips <sup>(12)</sup> <b>DF-22W-U</b> =2' x 2' Drywall Frame Kit <b>SK-22-WT</b> =2' x 2' Tall Surface Mount Kit
<b>Notes</b> Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult Enlighted system pages for additional details and compatibility.		<b>Notes</b> (12) An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. (13) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

## Product Specifications

### Construction

- Nominal 6" deep housing die-formed, code gauge cold rolled steel
- Heavy gauge end plates are securely attached with screws for strength and rigidity and the elimination of gaps
- Four auxiliary fixture end suspension points provided

### Integrated Controls

- 0-10V dimming to 1% standard
- Enlighted sensor compatible for IoT capability
- Fifth Light DALI driver, step-dimming and 3rd party drivers available

### Electrical

- Long-life LED system with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80
- Projected life is 60,000 hours at 80% lumen output
- Electronic drivers available for 120-277V and 347V applications

### Emergency Battery Options

- 120V-277V integral emergency battery pack comes in 7-watts, 10-watt, or 14-watts
- Self-diagnostic emergency battery available in 10 or 14-watts (NFPA 101® Life Safety Code®)
- Constant power to the LED system for controlled, predictable discharge
- Integrated test switch/indicator light visible from floor
- Min. 90-minute backup period for code compliance
- Integral emergency transfer relay available for generator equipped power systems

### Reflectors

- Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity
- Positively retained direct lamp shield is constructed of heavy gauge perforated steel with high reflectance painted after fabrication finish and milky white overlay diffuser for visual comfort
- All reflectors are precision formed in a computer-controlled operation

### Compliance

- Modules are UL recognized components
- Indoor luminaires are cULus listed for 25°C ambient environments
- Complies with IESNA LM-79
- LEDs compliant with LM-80 standards
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details.

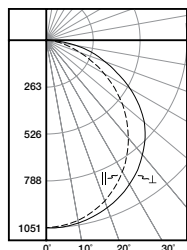
### Warranty

- Five-year warranty standard

### Finish

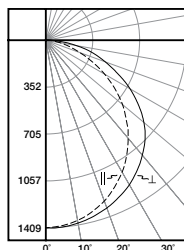
- Multistage, iron phosphate pretreatment
- White enamel finish to ensure maximum bonding and rust inhibition

## Photometric Data

[View IES files](#)


### 22RDI-30-UNV-L840-CD1-U

Electronic Driver  
Linear LED 4000K  
Spacing criterion: (II) 1.21 x mounting height,  
(⊥) 1.32 x mounting height  
Lumens: 3037  
Input Watts: 29.9W  
Efficacy: 101.6 LPW  
Test Report: 22RDI-LD5-30-UNV-L840-CD1-U.IES



### 22RDI-40-UNV-L835-CD1-U

Electronic Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.22 x mounting height,  
(⊥) 1.32 x mounting height  
Lumens: 4076  
Input Watts: 41.8W  
Efficacy: 97.5 LPW  
Test Report: 22RDI-40-UNV-L835-CD1-U.IES

## Energy and Performance Data

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22RDI-20-UNV-L830-CD1-U	1945	19.9	97
MTO	22RDI-20-UNV-L835-CD1-U	2026	19.9	101
MTO	22RDI-20-UNV-L840-CD1-U	2026	19.9	101
MTO	22RDI-20-UNV-L850-CD1-U	2107	19.9	105
MTO	22RDI-30-UNV-L830-CD1-U	2911	30.1	96
Stock	22RDI-30-UNV-L835-CD1-U	3032	30.1	100
Stock	22RDI-30-UNV-L840-CD1-U	3032	30.1	100
MTO	22RDI-30-UNV-L850-CD1-U	3153	30.1	104
MTO	22RDI-40-UNV-L830-CD1-U	3913	41.8	93
MTO	22RDI-40-UNV-L835-CD1-U	4076	41.8	97
MTO	22RDI-40-UNV-L840-CD1-U	4076	41.8	97
MTO	22RDI-40-UNV-L850-CD1-U	4239	41.8	101

### Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	Theoretical L70 (Hours) <sup>(2)</sup>
25°C	> 90%	> 60,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

### Shipping Data

Catalog No.	Wt.
22RDI	19 lbs.

## Control Systems

- Enlighted



Connected Systems  
[CLICK HERE](#)