

## DESCRIPTION

The SkyRidge™ transforms ambient lighting by perfectly blending a refined modern styling with our breakthrough WaveStream™ LED technology to deliver exceptional performance and superior energy savings. SkyRidge's advanced engineered LED system with superior optical design delivers an unparalleled combination of optimal light uniformity and exceptional efficiency for greater energy savings.

SkyRidge is compatible with all of today's popular ceiling systems and available in a variety of configurations for application versatility. Its perfect balance of form and function make it an ideal choice for commercial office spaces, schools, hospitals, retail and other indoor ambient applications.

## SPECIFICATION FEATURES

### Construction

Shallow 4.75" deep housing is extruded aluminum frame and injected molded composite end plates. End plates are securely attached with screws for strength and rigidity and the elimination of gaps. End plates have accessory grid-lock feature for safety and convenience. Four auxiliary fixture end suspension points are provided. Large access plate for supply connection.

### Controls

The SkyRidge LED is Powered by Fifth Light, with a standard 0-10V continuous dimming driver that works with any 0-10V control/dimmer. Combine with energy saving products like occupancy sensors, daylighting controls and lighting relay panels to maximize energy savings. In addition, the SkyRidge can include a factory-installed integrated sensor system for occupancy and daylight dimming control and manual control from an optional handheld remote. Or, specify the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to 1% with the HD option, for use with Fifth Light controls. See ordering information for details on all three options.

### Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with a typical CRI ≥ 85. Projected life is 60,000 hours at 84% lumen output. Electronic drivers are available for 120-277V applications.

### Emergency Battery Pack Option

Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

### Driver Access

Drivers can be accessed via plenum.

### Finish

Durable frame has high reflectance baked matte white enamel finish for luminous uniformity.

Catalog #		Type
Project		
Comments		Date
Prepared by		

### Optics

Precision formed optical assembly with positively retained high

optical grade acrylic lens provides a directed optical distribution using WaveStream LED technology.

### SkyTrim Accessory

Designed for an array of interior applications, SkyTrim is a luminous decorative accent that can be mounted directly on the light guide of a SkyRidge fixture either at the factory or in the field. It is ideal for spaces where color is necessary to provide visual cues, emphasize brand identity, directional awareness or simply as an artistic expression.

### Compliance

Components are UL recognized. Indoor luminaires are cULus listed for 25° C ambient environments, RoHS compliant, and comply with IESNA LM-79. LEDs comply with LM-80 standards. DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.

### Warranty

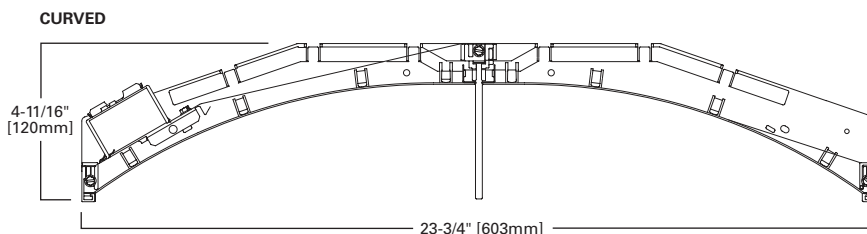
Five year warranty.



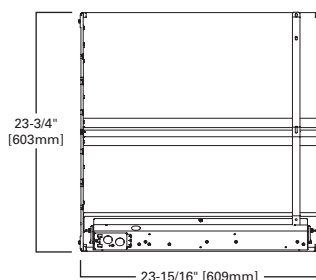
## 22SR LED

### 2' X 2' TROFFER LED MODULE

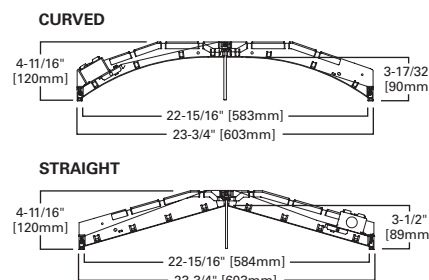
Specification Grade Troffer



## MOUNTING DATA



## LAMP CONFIGURATIONS



## CERTIFICATION DATA

cULus - 1598 and 2043\*\*  
 Damp Location Listed  
 IC Rated  
 LM79/LM80 Compliant  
 ROHS Compliant  
 DesignLights Consortium® Qualified  
 NOM Compliant

\*See Drywall Frame Kit Accessory in Ordering Information section.

\*\*Fixture construction is suitable for use in Air-handling and plenum rated spaces in accordance with Section 300.22 (C) of the National Electrical Code, Section 4.3.11.2.6.5 of NFPA 90A and Section 602.2.1.4 of ICC.

**LINEAR DISCONNECT**  
 Safe and convenient means of disconnecting power





## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 84%	> 144,000

## SKYTRIM FIELD INSTALLATION KITS

Color Choice	Kit Catalog Number	Kit Quantity
Tahitian Blue	STK-2-TB-10PK	10
Primary Green	STK-2-PG-10PK	10
Storaro Orange	STK-2-SO-10PK	10
Belladonna Rose	STK-2-BR-10PK	10
Medium Red	STK-2-MR-10PK	10
Pearl	STK-2-PL-10PK	10
Straw	STK-2-ST-10PK	10
Custom Color	STK-2-CC-*-10PK	10

\*Custom color requires Roscolux numeric specification color code, consult factory for more information.

**Note:** Chosen color will be matched on acrylic but will appear lighter once applied to lit light guide.

## ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

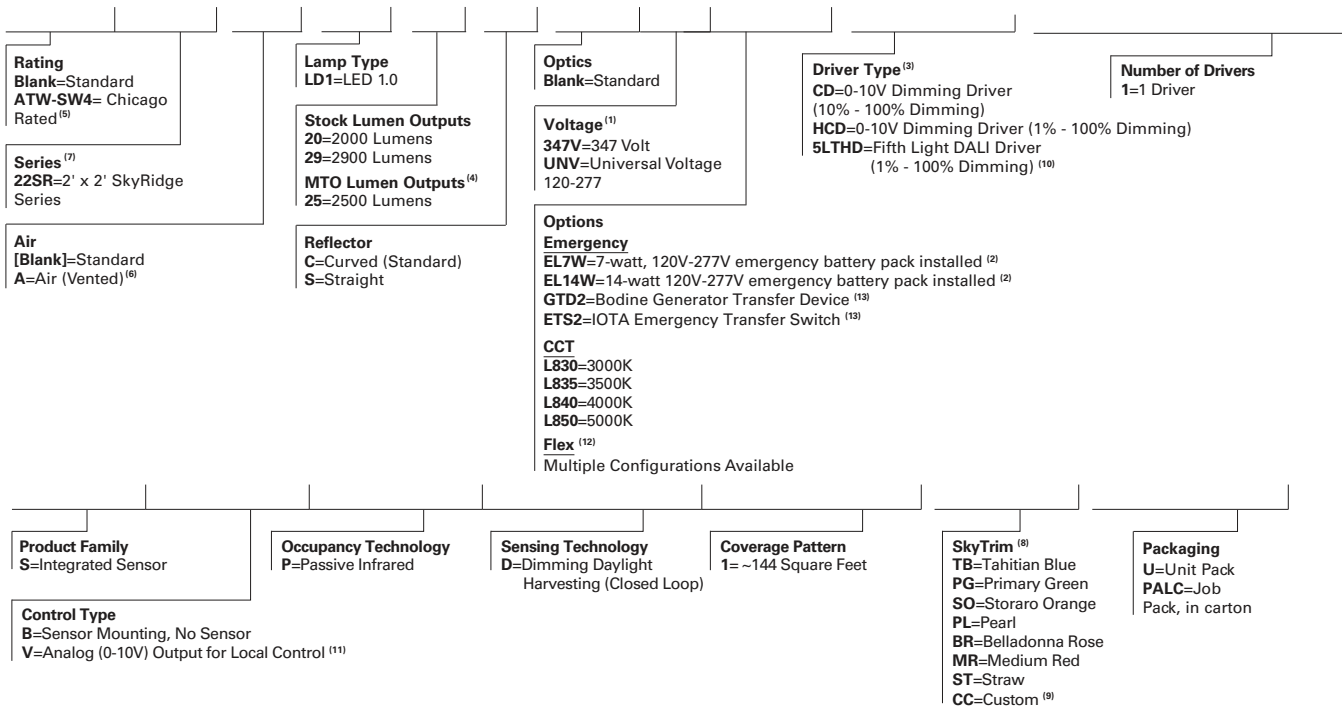
Stock or MTO*	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22SR-LD1-20-C-UNV-L830-CD1-U	1981	19.9	99
Stock	22SR-LD1-20-C-UNV-L835-CD1-U	2046	19.9	103
Stock	22SR-LD1-20-C-UNV-L840-CD1-U	2095	19.9	105
MTO	22SR-LD1-20-C-UNV-L850-CD1-U	2216	19.9	111
MTO	22SR-LD1-25-C-UNV-L830-CD1-U	2464	25.4	97
MTO	22SR-LD1-25-C-UNV-L835-CD1-U	2550	25.5	100
MTO	22SR-LD1-25-C-UNV-L840-CD1-U	2617	25.5	103
MTO	22SR-LD1-25-C-UNV-L850-CD1-U	2768	25.5	109
MTO	22SR-LD1-29-C-UNV-L830-CD1-U	2820	29.9	94
Stock	22SR-LD1-29-C-UNV-L835-CD1-U	2935	30.0	98
Stock	22SR-LD1-29-C-UNV-L840-CD1-U	3003	30.0	100
MTO	22SR-LD1-29-C-UNV-L850-CD1-U	3177	30.0	106

Stock or MTO*	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22SR-LD1-20-S-UNV-L830-CD1-U	1977	19.7	101
MTO	22SR-LD1-20-S-UNV-L835-CD1-U	2083	19.7	106
MTO	22SR-LD1-20-S-UNV-L840-CD1-U	2140	19.7	109
MTO	22SR-LD1-20-S-UNV-L850-CD1-U	2140	19.6	109
MTO	22SR-LD1-25-S-UNV-L830-CD1-U	2467	25.1	98
MTO	22SR-LD1-25-S-UNV-L835-CD1-U	2597	25.1	103
MTO	22SR-LD1-25-S-UNV-L840-CD1-U	2672	25.1	106
MTO	22SR-LD1-25-S-UNV-L850-CD1-U	2826	25.1	113
MTO	22SR-LD1-29-S-UNV-L830-CD1-U	2824	29.6	95
MTO	22SR-LD1-29-S-UNV-L835-CD1-U	2984	29.7	101
MTO	22SR-LD1-29-S-UNV-L840-CD1-U	3075	29.7	104
MTO	22SR-LD1-29-S-UNV-L850-CD1-U	3253	29.7	110

\*Made to order (MTO) requires a typical four week lead time.

**ORDERING INFORMATION**

SAMPLE NUMBER: 22SR-LD1-29-C-UNV-L835-CD1-SVPD1-U



**ACCESSORIES**

- T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)
- DF-22-W=2' x 2' Drywall Frame Kit
- SK-22-WT=2' x 2' Tall Surface Mount Kit
- DF10P-C\_=Decorator Dimmer, 0-10V
- SF10P-\_=Decorator Slide Dimmer, 0-10V
- HHPRG-MS=Programming Remote for Integrated Sensor
- ISHH-02=Personal Control Remote for Integrated Sensor

**NOTES:**<sup>(1)</sup>Products also available in non-US voltages and frequencies for international markets. <sup>(2)</sup>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. <sup>(3)</sup>Call factory for step-dimming options. <sup>(4)</sup>Made-to-order (MTO) requires four week lead time. <sup>(5)</sup>Chicago rated version does not allow for row mounting. <sup>(6)</sup>Air version is vented but does not meet air handling requirements. Air version is non-IC. Air version is not available with integrated sensor. <sup>(7)</sup>DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages). Refer to www.designlights.org for details. <sup>(8)</sup>Fixtures using factory installed SkyTrim option are not DLC qualified. <sup>(9)</sup>Custom color must list Roscolux numeric color specification code. <sup>(10)</sup>Must be used in conjunction with a DALI control system. For complete DALI solutions by Fifth Light, visit www.eaton.com/lightingsystems <sup>(11)</sup>Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. <sup>(12)</sup>Flex does not include dimming leads. Control leads provided by others. <sup>(13)</sup>Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

**SHIPPING DATA**

Catalog No.	Wt.
22SR-LD1-20	12 lbs.
22SR-LD1-29	12 lbs.

**INTEGRATED SENSOR**

**Description**

This innovative luminaire-integrated sensor control system is optimized for code-compliant occupancy detection and daylight harvesting – all from within the foot print of Metalux’s award-winning recessed ambient luminaires.

**No New Wires**

An in-place fixture retrofit is all that’s needed to meet most energy codes in commercial spaces. The sensor system is factory wired to the luminaire, switching on or off based on occupancy, and dimming the light when enough daylight is available.

**Sophisticated lighting control without commissioning**

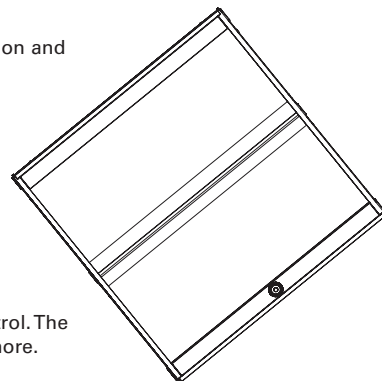
The luminaire-integrated sensor system offers out-of-the-box operation using thoughtful default settings.

**Flexibility and Individual Control**

When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupancy, target light level, preset lighting levels, and more.

**Cost-effective, Stand-alone Operation**

With a single product to mount and a single electrical connection to make, the Metalux luminaire with an integrated sensor system saves money on the total installed cost when occupancy or daylight harvesting controls are needed. The integrated sensor system works stand-alone, without the need for additional switches and dimmers. When manual-on, manual dimming or other code-required control schemes are needed, please see the comprehensive offering of Greengate and Fifth Light solutions from Cooper Controls at [www.coopercontrol.com](http://www.coopercontrol.com).



**Metalux Integrated Sensor Sequence of Operation**

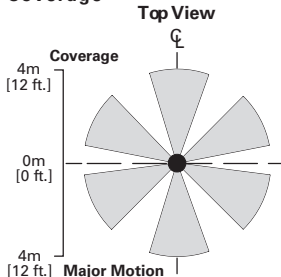
The occupancy sensing portion of the sensor uses Passive Infrared (PIR) technology with Auto-on/Auto-off operation. The small lens in the center of the sensor directs the view of a passive infrared occupancy detector to sense occupants moving through the room. To trigger the light on, an occupant must cross at least two passive infrared beams. When motion in the coverage area ceases, the sensor logic concludes the room is unoccupied, and begins a count-down timer. By default, the timer is factory-set to 20 minutes, and can be adjusted to 5, 10, 15 and 20 minutes using the optional remote control, model number HHPRG-MS. Any motion detected during the count-down timer will cause the light to remain on and resets the timer. When motion is detected, a red LED will blink. In addition to the default on/off functionality, the sensor has an Energy Saver feature, where the light can be set to dim to a preset level after the sensor detects no occupancy for half of the count-down timer, when the timer is complete the lighting will change to the unoccupied setting. The Energy Saver feature works when the count-down timer is set to at least 15 minutes, and the preset level and feature are configured using the optional remote control. See the Sensor Programming Guide that comes with the HHPRG-MS remote for details on this feature. The sensitivity of the occupancy detection can be adjusted, using the HHPRG-MS remote. By default, the sensor operates at the full detection range shown on the coverage pattern diagram. Using the “LO” button on the HHPRG-MS remote, reduces the sensor detection range by 50%. Full coverage can be restored at any time by pressing the “HI” button on the remote. The red LED indicator will blink repeatedly to confirm any programming change.

The dimming daylight harvesting portion of the sensor uses a small photo sensor located next to the occupancy sensing lens. The sensor continuously measures the available light in the room, even when the fixture is turned off. This allows sensor to operate in one of three daylighting modes, where the artificial light from the paired Metalux luminaire can adjust the light based on the amount of ambient light from surrounding natural and artificial light sources. Since the sensor measures light from its luminaire along with other light sources, this sensor follows a closed-loop dimming daylight harvesting style. The first mode, Daytime, is active when the sensor detects light of at least 100 lux in the room. In Daytime mode, when the light is turned on after detecting occupancy, the sensor will begin balancing the luminaire light level relative to the total available light it measures. The default light balancing target in daytime mode is 500 lux. This level can be adjusted higher or lower using the optional HHPRG-MS remote, and pressing “SET” and then the “DO” (Daytime Occupied) button to store the new light level. Similarly, the Daytime Unoccupied, “DU” has a default of level of 0 lux, or off, but can be adjusted higher to prevent the lights from turning off completely when unoccupied. More details on this function are found in the Sensor Programming Guide for the HHPRG-MS remote.

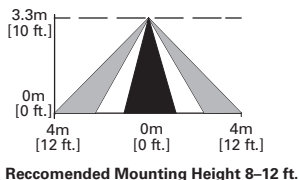
The next two modes, Twilight and Nighttime, function in a similar way, allowing the artificial light to adjust to different levels based on the surroundings. While primarily for use in outdoor luminaires, these modes are available for use in areas with a wide range of natural light, including atriums, day lit stairwells, and rooms with large or continuous windows. The Twilight mode is active when the sensor detects 50-100 lux in the off position, and has a 300 lux default light balancing target. The Nighttime mode is active when the sensor detects less than 50 lux, and has a 250 lux default light balancing target. Like the Daytime mode, there are separate settings for Twilight Occupied (“TO”), Twilight Unoccupied (“TU”), Nighttime Occupied (“NO”) and Nighttime Unoccupied (“NU”) which can be adjusted and set using the optional HHPRG-MS remote.

In addition to programming the sensor, the optional HHPRG-MS remote can be used for personal control to adjust the lighting temporarily override the functions of the sensor temporarily. The remote has raise/lower buttons to adjust the light level for special tasks, as well as a power button to turn the lights on or off. Unless the SET button and another function is selected, any changes made using these buttons will revert to the programmed settings after the sensor has detected no occupancy for its programmed time out, and turned off the lighting. The next time the sensor detects occupancy, it will revert to its programmed settings for count-down timer and light balancing.

**Coverage**



**Side View**



**Optional Remote Control**



**HHPRG-MS Remote**

## DESCRIPTION

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### Construction

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### Emergency Battery Pack Option

Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

### Driver Access

Drivers can be accessed via plenum.

### Finish

Durable frame has high reflectance baked matte white enamel finish for luminous uniformity.

Catalog #		Type
Project		
Comments		Date
Prepared by		

### Optics

Precision formed optical assembly with positively retained high

optical grade acrylic lens provides a directed optical distribution using WaveStream LED technology.

### SkyTrim Accessory

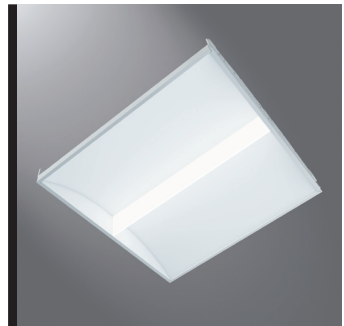
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Components are UL recognized. Indoor luminaires are cULus listed for 25° C ambient environments, RoHS compliant, and comply with IESNA LM-79. LEDs comply with LM-80 standards. DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.

### Warranty

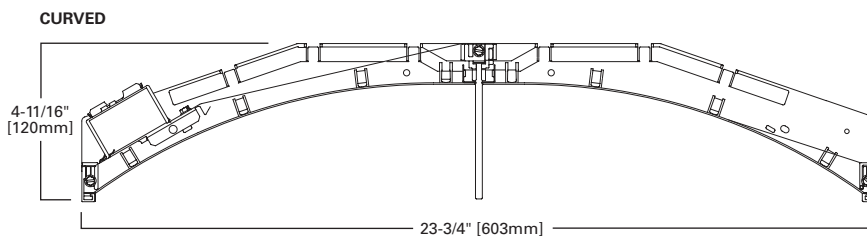
Five year warranty.



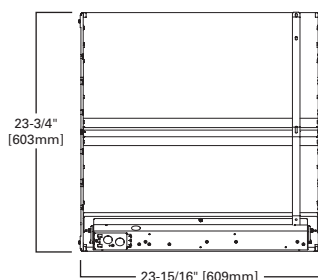
**22SR  
LED**

**2' X 2' TROFFER  
LED MODULE**

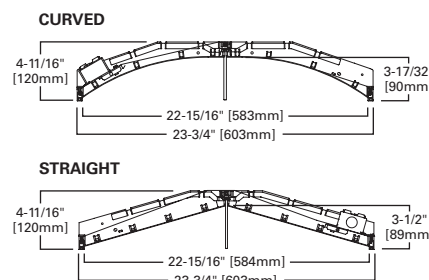
Specification Grade Troffer



## MOUNTING DATA



## LAMP CONFIGURATIONS



## CERTIFICATION DATA

cULus - 1598 and 2043\*\*  
 Damp Location Listed  
 IC Rated  
 LM79/LM80 Compliant  
 ROHS Compliant  
 DesignLights Consortium® Qualified  
 NOM Compliant

\*See Drywall Frame Kit Accessory in Ordering Information section.

\*\*Fixture construction is suitable for use in Air-handling and plenum rated spaces in accordance with Section 300.22 (C) of the National Electrical Code, Section 4.3.11.2.6.5 of NFPA 90A and Section 602.2.1.4 of ICC.

**LINEAR DISCONNECT**  
 Safe and convenient means of  
 disconnecting power





## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 84%	> 144,000

## SKYTRIM FIELD INSTALLATION KITS

Color Choice	Kit Catalog Number	Kit Quantity
Tahitian Blue	STK-2-TB-10PK	10
Primary Green	STK-2-PG-10PK	10
Storaro Orange	STK-2-SO-10PK	10
Belladonna Rose	STK-2-BR-10PK	10
Medium Red	STK-2-MR-10PK	10
Pearl	STK-2-PL-10PK	10
Straw	STK-2-ST-10PK	10
Custom Color	STK-2-CC-*-10PK	10

\*Custom color requires Roscolux numeric specification color code, consult factory for more information.

**Note:** Chosen color will be matched on acrylic but will appear lighter once applied to lit light guide.

## ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
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Stock	22SR-LD1-20-C-UNV-L835-CD1-U	2046	19.9	103
Stock	22SR-LD1-20-C-UNV-L840-CD1-U	2095	19.9	105
MTO	22SR-LD1-20-C-UNV-L850-CD1-U	2216	19.9	111
MTO	22SR-LD1-25-C-UNV-L830-CD1-U	2464	25.4	97
MTO	22SR-LD1-25-C-UNV-L835-CD1-U	2550	25.5	100
MTO	22SR-LD1-25-C-UNV-L840-CD1-U	2617	25.5	103
MTO	22SR-LD1-25-C-UNV-L850-CD1-U	2768	25.5	109
MTO	22SR-LD1-29-C-UNV-L830-CD1-U	2820	29.9	94
Stock	22SR-LD1-29-C-UNV-L835-CD1-U	2935	30.0	98
Stock	22SR-LD1-29-C-UNV-L840-CD1-U	3003	30.0	100
MTO	22SR-LD1-29-C-UNV-L850-CD1-U	3177	30.0	106

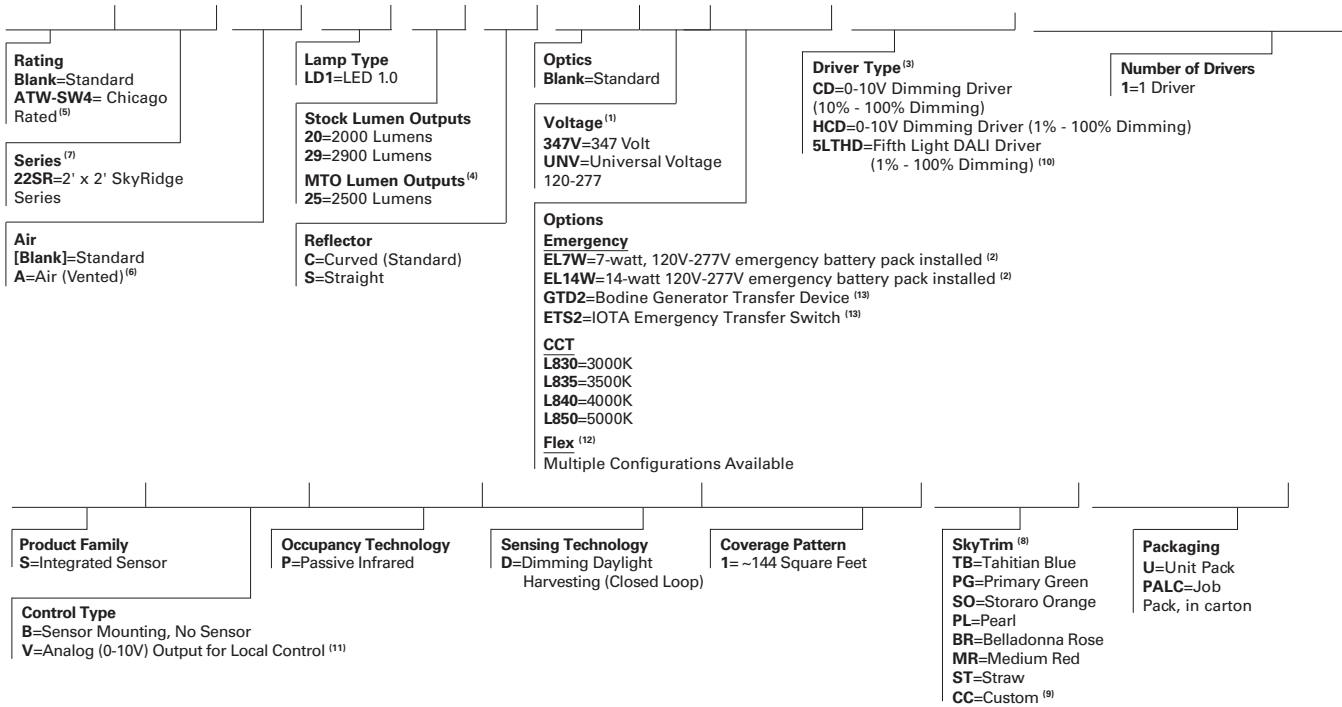
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MTO	22SR-LD1-20-S-UNV-L835-CD1-U	2083	19.7	106
MTO	22SR-LD1-20-S-UNV-L840-CD1-U	2140	19.7	109
MTO	22SR-LD1-20-S-UNV-L850-CD1-U	2140	19.6	109
MTO	22SR-LD1-25-S-UNV-L830-CD1-U	2467	25.1	98
MTO	22SR-LD1-25-S-UNV-L835-CD1-U	2597	25.1	103
MTO	22SR-LD1-25-S-UNV-L840-CD1-U	2672	25.1	106
MTO	22SR-LD1-25-S-UNV-L850-CD1-U	2826	25.1	113
MTO	22SR-LD1-29-S-UNV-L830-CD1-U	2824	29.6	95
MTO	22SR-LD1-29-S-UNV-L835-CD1-U	2984	29.7	101
MTO	22SR-LD1-29-S-UNV-L840-CD1-U	3075	29.7	104
MTO	22SR-LD1-29-S-UNV-L850-CD1-U	3253	29.7	110

\*Made to order (MTO) requires a typical four week lead time.



**ORDERING INFORMATION**

SAMPLE NUMBER: 22SR-LD1-29-C-UNV-L835-CD1-SVPD1-U



**ACCESSORIES**

- T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)
- DF-22-W=2' x 2' Drywall Frame Kit
- SK-22-WT=2' x 2' Tall Surface Mount Kit
- DF10P-C\_=Decorator Dimmer, 0-10V
- SF10P-\_=Decorator Slide Dimmer, 0-10V
- HHPRG-MS=Programming Remote for Integrated Sensor
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**NOTES:**<sup>(1)</sup>Products also available in non-US voltages and frequencies for international markets. <sup>(2)</sup>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. <sup>(3)</sup>Call factory for step-dimming options. <sup>(4)</sup>Made-to-order (MTO) requires four week lead time. <sup>(5)</sup>Chicago rated version does not allow for row mounting. <sup>(6)</sup>Air version is vented but does not meet air handling requirements. Air version is non-IC. Air version is not available with integrated sensor. <sup>(7)</sup>DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages). Refer to www.designlights.org for details. <sup>(8)</sup>Fixtures using factory installed SkyTrim option are not DLC qualified. <sup>(9)</sup>Custom color must list Roscolux numeric color specification code. <sup>(10)</sup>Must be used in conjunction with a DALI control system. For complete DALI solutions by Fifth Light, visit www.eaton.com/lightingsystems <sup>(11)</sup>Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. <sup>(12)</sup>Flex does not include dimming leads. Control leads provided by others. <sup>(13)</sup>Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

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**SHIPPING DATA**

Catalog No.	Wt.
22SR-LD1-20	12 lbs.
22SR-LD1-29	12 lbs.

## INTEGRATED SENSOR

### Description

This innovative luminaire-integrated sensor control system is optimized for code-compliant occupancy detection and daylight harvesting – all from within the foot print of Metalux’s award-winning recessed ambient luminaires.

### No New Wires

An in-place fixture retrofit is all that’s needed to meet most energy codes in commercial spaces. The sensor system is factory wired to the luminaire, switching on or off based on occupancy, and dimming the light when enough daylight is available.

### Sophisticated lighting control without commissioning

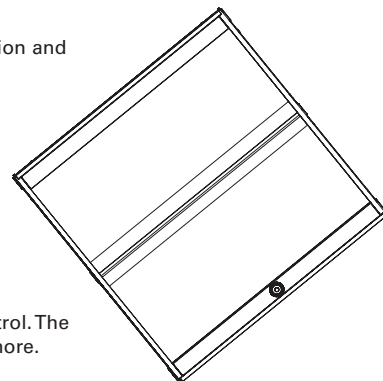
The luminaire-integrated sensor system offers out-of-the-box operation using thoughtful default settings.

### Flexibility and Individual Control

When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupancy, target light level, preset lighting levels, and more.

### Cost-effective, Stand-alone Operation

With a single product to mount and a single electrical connection to make, the Metalux luminaire with an integrated sensor system saves money on the total installed cost when occupancy or daylight harvesting controls are needed. The integrated sensor system works stand-alone, without the need for additional switches and dimmers. When manual-on, manual dimming or other code-required control schemes are needed, please see the comprehensive offering of Greengate and Fifth Light solutions from Cooper Controls at [www.coopercontrol.com](http://www.coopercontrol.com).



### Metalux Integrated Sensor Sequence of Operation

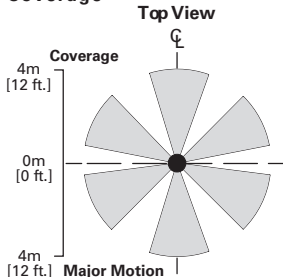
The occupancy sensing portion of the sensor uses Passive Infrared (PIR) technology with Auto-on/Auto-off operation. The small lens in the center of the sensor directs the view of a passive infrared occupancy detector to sense occupants moving through the room. To trigger the light on, an occupant must cross at least two passive infrared beams. When motion in the coverage area ceases, the sensor logic concludes the room is unoccupied, and begins a count-down timer. By default, the timer is factory-set to 20 minutes, and can be adjusted to 5, 10, 15 and 20 minutes using the optional remote control, model number HHPRG-MS. Any motion detected during the count-down timer will cause the light to remain on and resets the timer. When motion is detected, a red LED will blink. In addition to the default on/off functionality, the sensor has an Energy Saver feature, where the light can be set to dim to a preset level after the sensor detects no occupancy for half of the count-down timer, when the timer is complete the lighting will change to the unoccupied setting. The Energy Saver feature works when the count-down timer is set to at least 15 minutes, and the preset level and feature are configured using the optional remote control. See the Sensor Programming Guide that comes with the HHPRG-MS remote for details on this feature. The sensitivity of the occupancy detection can be adjusted, using the HHPRG-MS remote. By default, the sensor operates at the full detection range shown on the coverage pattern diagram. Using the “LO” button on the HHPRG-MS remote, reduces the sensor detection range by 50%. Full coverage can be restored at any time by pressing the “HI” button on the remote. The red LED indicator will blink repeatedly to confirm any programming change.

The dimming daylight harvesting portion of the sensor uses a small photo sensor located next to the occupancy sensing lens. The sensor continuously measures the available light in the room, even when the fixture is turned off. This allows sensor to operate in one of three daylighting modes, where the artificial light from the paired Metalux luminaire can adjust the light based on the amount of ambient light from surrounding natural and artificial light sources. Since the sensor measures light from its luminaire along with other light sources, this sensor follows a closed-loop dimming daylight harvesting style. The first mode, Daytime, is active when the sensor detects light of at least 100 lux in the room. In Daytime mode, when the light is turned on after detecting occupancy, the sensor will begin balancing the luminaire light level relative to the total available light it measures. The default light balancing target in daytime mode is 500 lux. This level can be adjusted higher or lower using the optional HHPRG-MS remote, and pressing “SET” and then the “DO” (Daytime Occupied) button to store the new light level. Similarly, the Daytime Unoccupied, “DU” has a default of level of 0 lux, or off, but can be adjusted higher to prevent the lights from turning off completely when unoccupied. More details on this function are found in the Sensor Programming Guide for the HHPRG-MS remote.

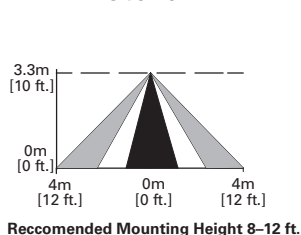
The next two modes, Twilight and Nighttime, function in a similar way, allowing the artificial light to adjust to different levels based on the surroundings. While primarily for use in outdoor luminaires, these modes are available for use in areas with a wide range of natural light, including atriums, day lit stairwells, and rooms with large or continuous windows. The Twilight mode is active when the sensor detects 50-100 lux in the off position, and has a 300 lux default light balancing target. The Nighttime mode is active when the sensor detects less than 50 lux, and has a 250 lux default light balancing target. Like the Daytime mode, there are separate settings for Twilight Occupied (“TO”), Twilight Unoccupied (“TU”), Nighttime Occupied (“NO”) and Nighttime Unoccupied (“NU”) which can be adjusted and set using the optional HHPRG-MS remote.

In addition to programming the sensor, the optional HHPRG-MS remote can be used for personal control to adjust the lighting temporarily override the functions of the sensor temporarily. The remote has raise/lower buttons to adjust the light level for special tasks, as well as a power button to turn the lights on or off. Unless the SET button and another function is selected, any changes made using these buttons will revert to the programmed settings after the sensor has detected no occupancy for its programmed time out, and turned off the lighting. The next time the sensor detects occupancy, it will revert to its programmed settings for count-down timer and light balancing.

### Coverage



### Side View



### Optional Remote Control



HHPRG-MS Remote