Part Number:







FEATURES

- Available in 2ft and 4ft lengths with a 7.5" width to cover existing footprints, requiring no repainting.
- Cavern (CV) features a .060" aluminum body with a post-paint finish and tamper-resistant screws, while the Cavern Lite (CVL) offers a .040" pre-painted enamel body.
- Designed for wall or ceiling installations, with ADA compliance for accessibility.
- Features high efficacy up to 157 lm/W, offering 3500K, 4000K, or 5000K CCT, >80 CRI, and calculated L70 >100,000 hours for long-lasting illumination.
- Includes optional ultrasonic sensor for maximum sensing range
- DLC® Premium qualified, ETL listed for dry and damp locations, and backed by a 5-year standard warranty.



ORDERING GUIDE LED SYSTEMS INFO CONTROLS LINE DRAWINGS PHOTOMETRIC DATA



SUITABLE APPLICATIONS

- Education Hotel & Resort
- Healthcare Storage Facility
- Commercial OfficeRetail
- Multifamily

CERTIFICATIONS



SPECIFICATIONS

CONSTRUCTION

Stairwell fixture designed for rigidity, durability, ease of installation while achieving maximum performance and improved aesthetics. 7.5" width construction luminaire for robust design. Cavern (CV) is designed with .060" aluminum body, decorative and vandal resistant .200" 6061 machined aluminum end caps, .500" threaded end plugs and baked on enamel powdercoat finish. Cavern Lite (CVL) is designed with .040" full aluminum body, end knockouts, and baked on pre-painted enamel finish. Tamper proof screw option available on Cavern (CV). Available in white (std.) with custom finishes available.

ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 > 100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25C ambient. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (10% - 100%). Optional battery backups and generator transfer device available to meet critical life safety lighting requirements.

INSTALLATION

Designed for a variety of stairwell solutions including ceiling and wall mounting. Knockouts located on back and each side of fixture for electrical access. Threaded end cap HUBs standard on Cavern (CV). Tamper proof screw option available on Cavern (CV).

OPTICS

High transmission extruded impact resistant PMMA frosted acrylic lens for durability and LED glare reduction. Vandal resistant lens design on Cavern (CV) only serviceable when removing end cap. Toolless field removable lens design on Cavern Lite (CVL) for easy access to driver channel for installation and maintenance.

CONTROLS

Factory Installed Advanced and Basic integral occupancy sensors available. Fully control light levels for both occupied and unoccupied areas with high/low user selectable bi-level dimming options to meet critical life safety lighting requirements. Ultrasonic sensors provide for maximum sensing range and energy efficiency. Advanced controls available for grouping capabilities. See controls page for more detail (pg. 3).

CERTIFICATIONS

ETL Listed to US and Canadian safety standards. Suitable for damp locations. American Recovery and Reinvestment Act Funding Compliant. BAA Compliant. ADA Compliant Luminaire. Title 24 Compliant with sensor option; see local ordinance for qualification information. DLC Premium Listed Product, Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www. designlights.org/QPL to confirm which versions are qualified.

WARRANTY

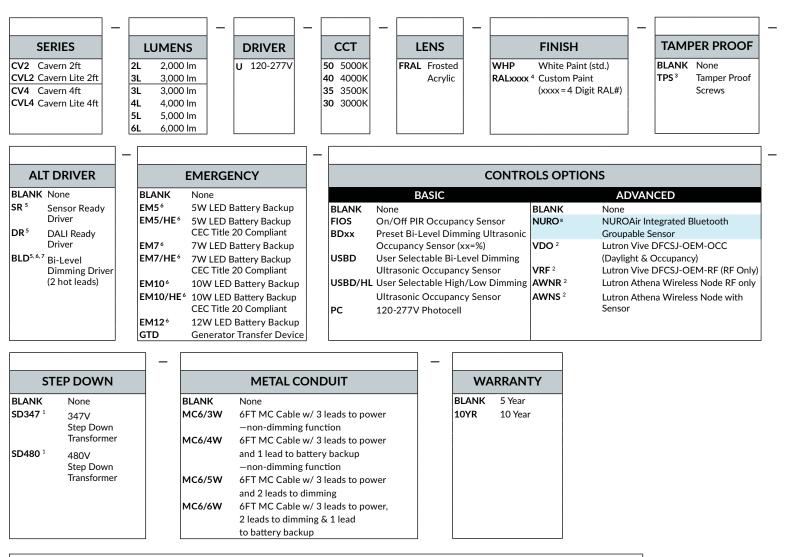
5 Year Warranty Standard; 10 Year Warranty Optional (Terms and Conditions apply).



ORDERING GUIDE

PART

Example: CV2-2L-U-40-FRAL-WHP-TPS-NURO



SHIP WITH ACCESSORIES					
NURO-SW-3B-BT-BLE-WP-V1	NUROAir Bluetooth 3-Key Wireless Battery Powered Wall Switch				
NURO-SW-5B-BT-BLE-WP-V1	NUROAir Bluetooth 5-Key Wireless Battery Powered Wall Switch				
NURO-SW-7B-AC-BLE-WP-V1	NUROAir Bluetooth 7-Key Line Voltage (AC 120-277V) Powered Wall Switch				

FOOTNOTES

 ¹ Does not qualify for DLC
 ⁴ Contact factory for available options
 ⁷ Will not work with the stepdowns or sensors

 ² Must be used with SR Driver
 ⁵ Not compatible with any Basic Control Options
 ⁸ Easily Controlled via Mobile Phone with Bluetooth App

 ³ Available on Cavern (CV) version only
 ⁶ Not compatible with stepdown options
 ⁶ Easily Controlled via Mobile Phone with Bluetooth App

LED SYSTEMS INFO

LED SYSTEMS INFO ¹	30	оок	350	оок	400	00К	50	00К			Ambient		
Part Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Watts ²	CRI	Temp Range	DLC	Replaces
CV(L)2-2L-U-XX-FRAL-WHP	2,121 lm	135 lm/W	2,199 lm	140 lm/W	2,327 lm	145 lm/W	2,377 lm	148 lm/W	16W				1T8
CV(L)2-3L-U-XX-FRAL-WHP	3,050 lm	141 lm/W	3,103 lm	143 lm/W	3,233 lm	150 lm/W	3,246 lm	150 lm/W	22W				2T8
CV(L)4-3L-U-XX-FRAL-WHP	3,182 lm	145 lm/W	3,237 lm	147 lm/W	3,373 lm	154 lm/W	3,445 lm	157 lm/W	22W	. 00	-4°F-125°F		1T8
CV(L)4-4L-U-XX-FRAL-WHP	3,876 lm	142 lm/W	3,943 lm	145 lm/W	4,109 lm	151 lm/W	4,197 lm	154 lm/W	27W	>80	-4°F-125°F	Premium	2T8
CV(L)4-5L-U-XX-FRAL-WHP	4,965 lm	137 lm/W	5,051 lm	139 lm/W	5,263 lm	145 lm/W	5,375 lm	148 lm/W	36W				3T8
CV(L)4-6L-U-XX-FRAL-WHP	5,365 lm	124 lm/W	5,452 lm	128 lm/W	5,661 lm	133 lm/W	6,079 lm	143 lm/W	43W				2T5
¹ Values are nominal, see IES file for more detail													

²Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

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TWO HOUSING SPECIFICATIONS



CAVERN (CV)

- .060" Aluminum Body
- Cast Aluminum End Plates
- Post Paint Finish
- Tamper Resistant Design
- Ideal for front of house stairwells

CONTROLS OPTIONS

BASIC

BDxx

Factory Set Bi-Level Dimming Ultrasonic Sensor. Fixtures with this option come with a 0-10V sensor and driver set to dim down to the number indicated in "xx" portion of the part number, when in an unoccupied mode. For example, BD25, would have the fixture dim down to 25% lumen output when unoccupied and go to 100% when motion is detected. Ultrasonic sensors provide for maximum sensing range and energy efficiency. Available at 10%/25%/50% selections. Sensor installed within the body of the fixture.

FIOS

Standard on/off motion sensor that provides 360° detection of motion from 8 to 20 ft mounting heights. Sensor integral to fixture. End Mount installed.



CAVERN LITE (CVL)

- .040" Aluminum Body
- Baked on Pre-Paint Enamel
- Economical solution without loss of performance
- Ideal for back of house stairwells

USBD

User Selectable Bi-Level Dimming Ultrasonic Sensor. Fixtures with this option come with a 0-10V sensor & driver along with an integrated control to allow the end user to select how low the fixture will dim when in unoccupied mode. Once motion is detected the fixture will light up to 100% light output. Ultrasonic sensors provide maximum sensing range and energy efficiency. Sensor installed within the body of the fixture. Utilizes Bluetooth connectivity with IOS and Android app integration to set controls. Sensor installed within body of fixture.

USBD/HL

Bluetooth Controls

POWERED BY ILLUMUS, BRANDS

User Selectable Bi-Level Dimming Ultrasonic Sensor is for both high and low output control. Allows user to control how far the fixture dims down when the sensor is in unoccupied mode and allows user to select how bright fixture becomes when in occupied mode. Ultrasonic sensors provide for maximum sensing range and energy efficiency. Utilizes Bluetooth connectivity with IOS and Android app integration to set controls. Sensor installed within body of fixture.

ADVANCED

NUROAir by ILLUMUS

NURO

NUROAir Integrated Bluetooth Sensor is the optimal groupable controls lighting solution. With main features such as PIR Motion Sensing, Occupancy/Vacancy, Bi-Level Dimming and Daylight Harvesting - this flexibility makes the NUROAir Integrated Sensor ideal for tailoring lighting to specific space needs, optimizing both ambiance and efficiency. The NUROAir App, available for download on iOS and Google Play Store, offers a user-friendly interface for automatic or manual customization of your space. Through the app, users can configure sensor settings such as the Light Output, CCT, Hold Time, Standby Time/Level, High/Low End Trim, Background Light Level, Set Schedules, and Control Lighting Groups or Zones, all from a mobile or tablet device. Manual control is also available with a range of compatible wireless & wired wall switch options.

LUTRON

VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information

ANWR

Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



Athena wireless node with a sensor that enables simple, digital control of individual light fixtures in an Athena control system. Provides wireless control of the fixture and includes a passive infrared (PIR) sensor for occupancy and a daylight sensor. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



Click Here or Scan Code

to Learn More About

NUROAir Bluetooth Controls

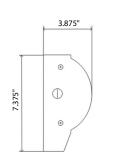


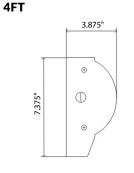
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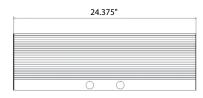


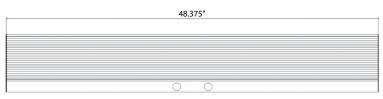
LINE DRAWINGS









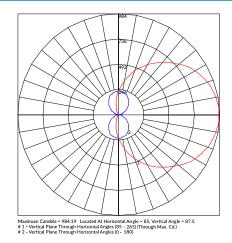


PHOTOMETRIC DATA

LUMINAIRE DATA	
Part Number	CV2-3L-U-40-FRAL
Description	Cavern Stairwell, 3,000 lm, frosted acrylic lens
Fixture Lumens (Im)	3,233 lm
Wattage (W)	22 W
Efficacy (Im/W)	150 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.18, 90° = 1.32

ZONAL LUMEN SUMMARY					
Zone	Lumens (Im)	% Fixture			
0° - 40°	348	11%			
0° - 60°	772	24%			
0° - 90°	1,617	50%			
90° - 180°	1,617	50%			
0° - 180°	3,234	100%			

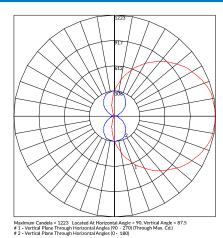
CANDELA PLOT



LUMINAIRE DATA Part Number CV4-4L-U-40-FRAL Cavern Stairwell, 4,000 lm, frosted Description acrylic lens 4,109 lm Fixture Lumens (Im) Wattage (W) 27 W Efficacy (Im/W) 151 lm/W Mounting Recessed Spacing Criteria 0° = 1.19, 90° = 1.33

ZONAL LUMEN SUMMARY						
Zone	Lumens (Im)	% Fixture				
0° - 40°	460	11%				
0° - 60°	1,004	24%				
0° - 90°	2,055	50%				
90° - 180°	2,055	50%				
0° - 180°	4,110	100%				

CANDELA PLOT



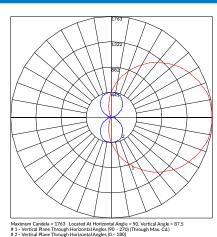


PHOTOMETRIC DATA (Continued)

LUMINAIRE DATA	
Part Number	CV4-6L-U-40-FRAL
Description	Cavern Stairwell, 6,000 lm, frosted acrylic lens
Fixture Lumens (Im)	5,952 lm
Wattage (W)	42 W
Efficacy (Im/W)	144 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.2, 90° = 1.33

ZONAL LUMEN SUMMARY						
Zone	Lumens (Im)	% Fixture				
0° - 40°	664	11%				
0° - 60°	1,453	24%				
0° - 90°	2,977	50%				
90° - 180°	2,977	50%				
0° - 180°	5,954	100%				

CANDELA PLOT



REV: 04/25