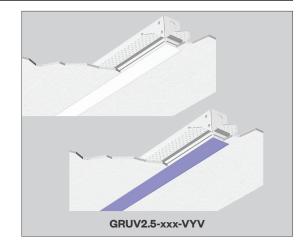




PROJECT: TYPE:

Features

Active CLEAN's™ high-intensity, antimicrobial wavelengths of 405 nanometers protect your business with the most beautiful, comfortable, non-glare illumination. Utilizing Vyv's signature UV-free antimicrobial technology, our spec-grade (Linea or Gruv) family of luminaries provides continuous surface cleaning by creating spaces that are inhospitable for **bacteria**, **fungi**, **yeast**, **mold**, **mildew** and **viruses** to live, on any surface—and in any application—the light touches.



Product Overview

Type: Recessed Linear, Direct with Antimicrobial Light

Wattage: 3W-16W/ft
Color Temp: 3000K, 4000K

CRI: 85 typ.

Dimming (wired): 0-10V, 1% dimming (standard)

Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black

DALI dimming, 1% dim

Certifications









Fixture Summary

Ceiling Types

4" Tech Zone	ech Zone 6" Tech Zone		15/16" *	Gyp Board	Millwork	Perimeter J-Mold	
No	No	Yes	Yes	Yes	Yes	Yes	

^{*} Flange Grid (GRUV2.5-FLG-GRID) model only.

Performance Data

Wattage per Foot	Delivered Lumens	LPW	Color Temp	CRI	
16	2615	41.5	4000K	85	

Data is based on 4' fixture, 4000K, 85CRI IES files available on website.

Flectrical Data

		4'		8'			
Wattage		System		System			
per Foot	Voltage	Watts	Amps	Watts	Amps		
16	120V	62	0.52	124	1.0		
10	277V	61.1	0.22	122.2	0.44		
0	120V	34.1	0.29	68.3	0.57		
9	277V	34.2	0.13	67.4	0.25		

Electronic multi-volt (120-277VAC), constant current LED driver.



Recessed Linear with Vyv Antimicrobial Light

PROJECT: TYPE: **Ordering Information** AW . 120/277 9 10 Model **Optics** Wattage (per foot) GRUV2.5-FLG-VYV exposed flange PL performance lens ___ (ex. 16 - 16W/ft, avaiable in 3W-16W/ft, 3W/ft & 4W/ft require 4' min. lenght) GRUV2.5-FLG-GRID-VYV exposed flange grid mount GRUV2.5-GB-VYV gyp board trimless mud-in GRUV2.5-GRID-VYV grid mount GRUV2.5-IS-VYV independently suspended, millwork GRUV2.5-J/GB-VYV j-mold/gyp board trimless GRUV2.5-J/GRID-VYV j-mold/grid GRUV2.5-J/IS-VYV j-mold/independently suspended 4 Color Temp 5 Finish Voltage Length **Dual Mode** AW Active CLEAN™ white 120/277 DM30 3000K-85CRI, dual mode (2 circuit) white antimicrobial+light & violet enhanced antimicrobial DM40 4000K-85CRI, dual mode (2 circuit) white antimicrobial+light & violet enhanced antimicrobial 8 Configuration **Drivers** 10 Options/Accessories IND1 individual fixture, 2' to 8' in 1' increments OFF-0-10V 1% electronic dim to off, multi-volt, CP Chicago Plenum (CCEA) IND-S+ individual with standard plus (see pg 120-277VAC, constant current driver (standard) WHIP 6' whip, 18/5 conductor 8 for GRID or J/GRID only) HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim EMC-PF² emergency circuit requires Soft-On/Fade-to-Black power feed located in last fixture CON continuous run > than 8', specify to section (for other locations consult factory) nearest foot DALI DALI dimming, 120-277VAC, 1% dim PF² extra power feed for additional CON-S+ continuous run with standard plus Note: Review wiring diagrams on pages 9-12 (see pg 8 for GRID or J/GRID only) for controls requirements. circuiting CUS custom made to measure, ± 1/8" of EMB emergency battery pack (not available for lengths under 4') customer supplied field dimensions

¹ Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

² Not available with IND (individual) configuration.

Recessed Linear with Vyv Antimicrobial Light



PROJECT: TYPE:

Specifications

Application

Commercial, Education and Healthcare recessed ambient lighting that can be customized with made to measure lengths.

Active CLEANTM fixtures may be sold in all areas of the United States. Certain states/countries require additional state approvals which are currently in process. For the following, please contact Amerlux for all projects to confirm exact timing for approval: Colorado, Indiana, Hawaii, New Mexico, Oklahoma, Wyoming, Washington DC and Canada. These restrictions are subject to change at any time and will be updated periodically as additional approvals are completed.

Construction

One piece extruded aluminum housing and trim. Die-formed, cold-rolled steel internal components and external mounting brackets. Numerous configurations accommodate most architectural ceiling conditions.

Optical

All lenses are snap-in, extruded acrylic, with a maximum length of 8'. Amerlux's proprietary acrylic lens provides excellent transmission while effectively concealing source image.

 $\ensuremath{\text{PL}}$ - Performance Lens provides high efficiency with controlled lens surface brightness.

LED

Internal LED boards powered by Vyv's patented single-diode technology meets international standards for continuous and unrestricted use around people. Vyv stops the growth of and kills* viruses, bacteria, fungi, yeast, mold and mildrew with visible light.

*Testing on a non-enveloped virus (MS2 bacteriophage) showed a 99.985% reduction in controlled laboratory testing in 6 hours on hard surfaces. MRSA and E. coli showed 90%+ reduction in controlled laboratory testing in 24 hours on hard surfaces. Results may vary depending on the amount of light that is reaching the surfaces in the space where the product is installed and the length of time of exposure. Use of Vyv antimicrobial light is not intended to replace manual cleaning Color Temperature Options: 3000K & 4000K

Dual Mode (*DM__*) is a 2-circuit option that allows for switching between white Antimicrobial+Light mode and Enhanced Antimicrobial mode which provides maximum enhanced antimicrobial impact through 405nm (*violet*) light. Switching can be controlled via switch, sensor or control system (*see wiring diagrams*) CRI: 85 typical; R9: 10 typical

4-step bin

Life: 36,000 hr., >70% of initial lumens (L70)

Note: On certain fixture lengths, there may be noticeable gaps of board missing when switching to the Enhanced Antimicrobial (405nm only, "violet" light) circuit on the dual mode boards. This is the normal and intended application.

How to use: To achieve the recommended amount of antimicrobial protection, it is recommended that a photometric layout is conducted on your space. The light level coming from the ActiveClean fixtures should be a minimum of 500 Lux (46.5 FC). Any indirect light from an ActiveClean fixture or ambient light from nearby fixtures should not be used in the 500 Lux (46.5 FC) calculation. All ActiveClean fixtures should be used in conjunction with standard cleaning practices.

Electrical

Wiring: Supply wires are easily accessible through access plate on top of fixture. WHIP: Optional factory installed 6' Greenfield whip (18/5 conductor) simplifies installation

Wattage: 3W-16W/ft., (3W & 4W have a minimum length of 4').

For other wattages consult factory.

Emergency circuit via remote inverter or auxiliary emergency power supply (by others).

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

EMC-PF - Emergency circuit requires power feed wire harness to be located in last fixture section for continuous runs. For other locations consult factory. Not available for individual (*IND*) configuration.

PF - Extra power feed wire harness for additional circuiting. Not available for individual (*IND*) configuration.

Finish

 $\begin{tabular}{ll} \bf AW - {\it Active} CLEAN^{TM} & white powder coat paint with anti-microbial coating. \\ Baked on finish for maximum durability and color stability. \\ \end{tabular}$

Configurations/Lengths

IND - Individual fixtures are made of single standard lengths of 2 ft to 8 ft (in 1' increments). These are stand alone fixtures with matching End Caps, supplied with the mounting hardware. Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

CON - Continuous runs, > 8', specified to nearest whole foot length in 1' increments. Runs made from standard lengths have End Caps at the beginning and end of run. Runs > 60' may require second power feed. Each Housing has factory installed alignment pins. Mating fixtures are easily aligned and joined with "catch and latch" mechanisms out of sight, on top of the Housing. Wiring is made fast and positive with molded quick connectors.

S+ - Standard Plus is a field outtable filler bracket that can be used when an Individual fixture or a Continuous run isn't to the nearest foot (+3/4" to 6" max per end). See page 7 for details.

CUS - Oustom made yo measure runs are made to nearest 1/8" of customer supplied field measurements or drawings. Custom lengths use the same hardware for hairline joining.

Mounting

Intended for use in gypsum board, 9/16" Tee grid, 9/16" Screw Slot and millwork ceilings. Wall mounting J-Molding details available. For individual or continuous row.

<u>Please note</u> - fixtures to be installed before gypsum board ceiling. GRUV2.5-FLG-VYV - exposed flange, fixture into gyp board ceiling GRUV2.5-FLG-GRID-VYV - exposed flange grid mount, fixture in 9/16" Tee ceilings. Consult factory for 15/16" ceilings.

GRUV2.5-GB-VYV - gyp trimless mud, fixture plastered in gypsum board ceiling GRUV2.5-GRID-VYV - grid mount, in 9/16" Screw Slot or Flat Tee ceilings GRUV2.5-IS-VYY - independently suspended, fixture in wood ceiling GRUV2.5-J/GB-VYV - J mold/gyp trimless, plastered in ceiling - J Channel wall side.

GRUV2.5-J/GRID-VYV - J mold/grid, in 9/16" Screw Slot or Flat Tee ceiling - J Channel wall side

GRUV2.5-J-IS-VYV - J mold/independently suspended in ceiling - J Channel wall side

Options

EMB - Emergency battery pack - 10W output power, 90 min of illumination time, up to 1300 Im of initial light output. Illuminated test-switch/charging indicator light is provided. Wattage consumption by EM: 2.5W/ft (4ft fixture), 1.66W/ft (6ft fixture), 1.25W/ft (8ft fixture). Request can be made to light up 4ft section on 8ft unit.

Certifications

Approved to UL standards for damp locations as tested by CSA Intended for indoor use only Chicago Plenum (CCEA) optional

Warranty

Amerlux's 3 year limited warranty. Please consult Amerlux website for details.

Recessed Linear with Vyv Antimicrobial Light



PROJECT: TYPE:

Product Details

GRUV2.5-FLG (exposed flange)

NOTE: Minimum ceiling opening must be held by installer for the full length of the run

Mounting rods & hardware (by others)

Suspension brackets (supplied by Amerlux)

Support method (by others)

Support method (by others)

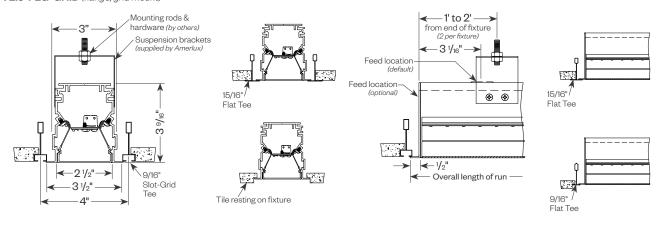
Feed location (optional)

Feed location (optional)

GRUV2.5-FLG-GRID (flange, grid mount)

←2½"

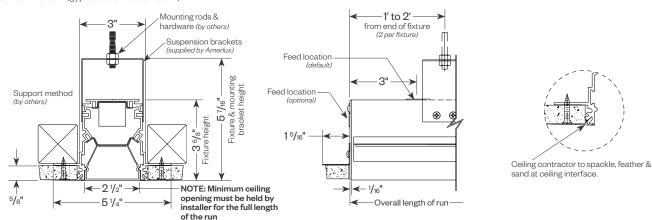
31/2"



Overall length of run

<- ¹/2"

GRUV2.5-GB (gyp board trimless mud-in)





Recessed Linear with Vyv Antimicrobial Light

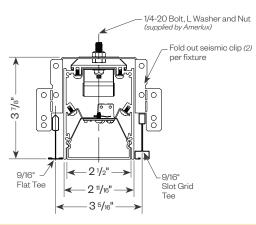
PROJECT: TYPE:

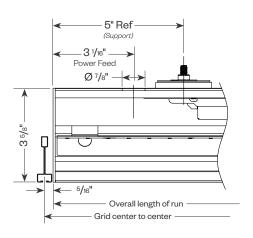
Product Details (continued)

GRUV2.5-GRID (grid mount)

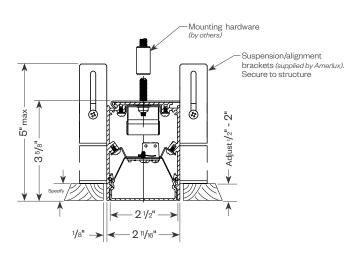
+ Compatible (see pg 8)

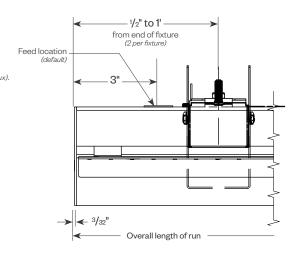




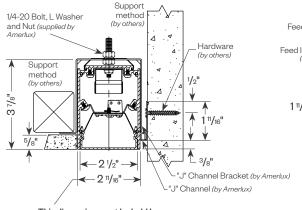


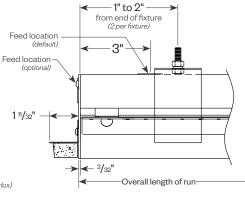
GRUV2.5-IS (independently suspended)

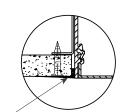




GRUV2.5-J/GB (j-mold/gyp board trimless)







Ceiling contractor to spackle, feather & sand at ceiling interface.



Recessed Linear with Vyv Antimicrobial Light

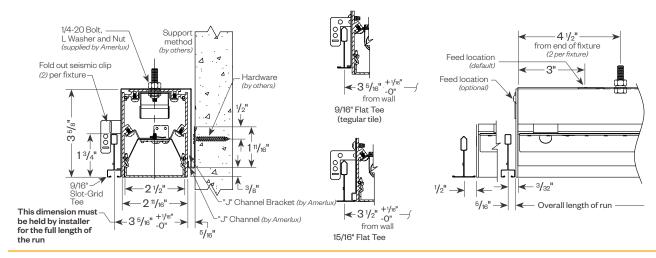
PROJECT: TYPE:

Product Details (continued)

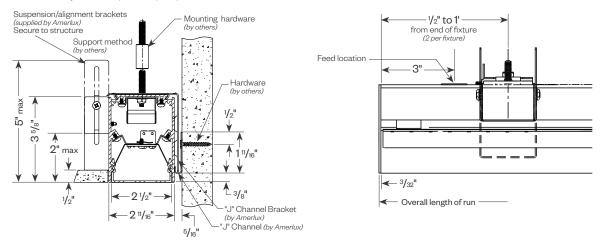
GRUV2.5-J/GRID (j-mold/grid mount)

Gompatible (see pg 8)





GRUV2.5-J/IS (j-mold/independently suspended)





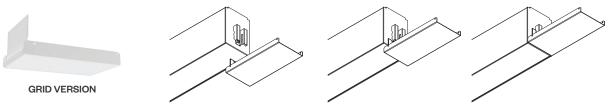


PROJECT: TYPE:

+ STANDARD PLUS

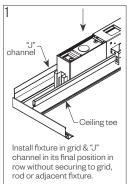
STANDARD PLUS (FILLER):

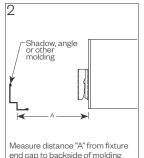
Whenever a continuous run is less than a foot to the next full foot length consider ordering Standard Plus field cuttable bracket for a perfect look. Fits 9/16" Slot Grid and 9/16" T grid. It snaps in place easily from below and gets you close to the wall with a standard fixture. Saves time and money compared to made-to-measure. (max length: 6")



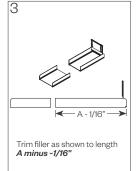
NOTE: Use with GRUV2.5-Grid and GRUV2.5-J/Grid

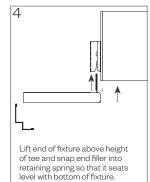
FILLER TRIM AND INSTALLATION (GRUV 1.5 GRID SHOWN HERE)

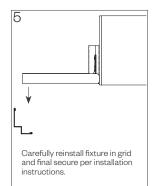




surface where filler will rest.

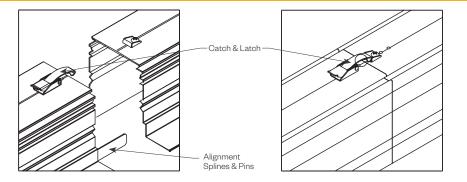






Toolless Joining

Line up the two housings by using the alignment splines & pins. Secure them together by using the Catch & Latch System on the top of the extrusion.





Recessed Linear with Vyv Antimicrobial Light

PROJECT: TYPE:

Performance Data

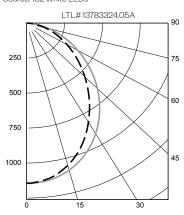
Multiplying Factors: (Multiplying Factor is based on 3500K-83 120V IES file on website)

Wattage:	3W	4W	5W	6W	7W	8W	9W	10W	11W	12W	13W	14W	15W	16W		CCT:
Factor:	0.19	0.25	0.31	0.38	0.44	0.50	0.56	0.63	0.69	0.75	0.81	0.88	0.94	1.0	F	actor:

CCT:	3000K	4000K			
Factor:	1.0	1.0			

GRÜV 2.5" ACTIVECLEAN PL 16W/FT DM40 4000K 4FT

Total Watts: 63; Total Lumens: 2615 Source: 182 White LEDs



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt			
0-40	1321	50.5			
0-60	2161	82.6			
0-90	2615	100.0			
90-180	0	0.0			
Efficacy (lumens/watt) = 41.5 lm/W					

COEFFICIENTS OF UTILIZATION

RC		8	0				
RW	70	50	30	10			
RCR							
0	119	119	119	119			
1	109	105	101	97			
2	100	92	86	80			
3	92	82	74	68			
4	84	73	65	58			
5	78	66	57	51			
6	72	59	51	45			
7	67	54	46	40			
8	63	50	41	36			
9	59	46	38	32			
10	55	42	35	29			
N=4=- \ /= /= = = -= 0/ = 64=4=1 = + +							

Note: Values expressed as % of total lumen output delivered to the task surface.





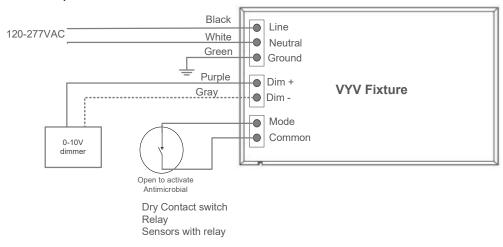
PROJECT: TYPE:

Dimming Compatibility

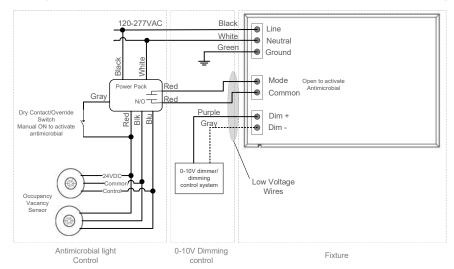
Amerlux® Gruv fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

0-10V with Dry Contact Control



Low Voltage Independent Occupancy/Vacancy Sensor with Power Pack and 0-10V Dimming Control



McWong Powerpack: PSC-AC-PP-100 Occupancy sensor:PSC-ID-CM-301 Leviton
Powerpack: OSP20-RD0
Occupancy sensor: OSC05-RMW

<u>Legrand/Wattstopper</u> Powerpack: BZ-200 Occupancy sensor: DT-300/DT-305

IR-Tec Powerpack: PPU-300/301 Occupancy sensor: OS-361DT

- * Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.
- † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.





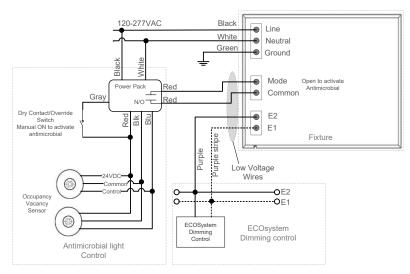
PROJECT: TYPE:

Dimming Compatibility (continued)

Amerlux® Gruv fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc.) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

Low Voltage Independent Occupancy/Vacancy Sensor with Power Pack and Lutron ECOsystem Dimming Control

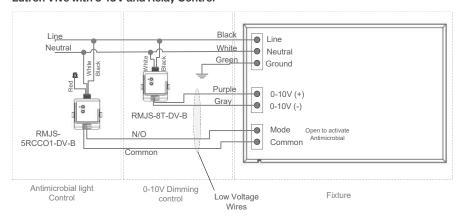


McWong Powerpack: PSC-AC-PP-100 Occupancy sensor:PSC-ID-CM-301 <u>Leviton</u>
Powerpack: OSP20-RD0
Occupancy sensor: OSC05-RMW

Legrand/Wattstopper Powerpack: BZ-200 Occupancy sensor: DT-300/DT-305

IR-Tec Powerpack: PPU-300/301 Occupancy sensor: OS-361DT

Lutron Vive with 0-10V and Relay Control





Pico Remote Control (up to 10)



Radio Powr Savr Occupancy Sensor (ip to 10)

- * Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.
- † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.





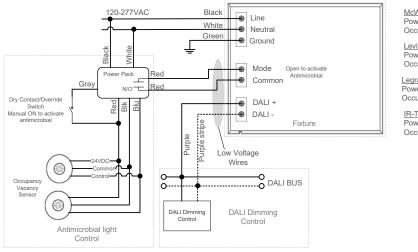
PROJECT: TYPE:

Dimming Compatibility (continued)

Amerlux® Gruv fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc.) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

Low Voltage Independent Occupancy/Vacancy Sensor with Power Pack and DALI Dimming Control



McWong Powerpack: PSC-AC-100 Occupancy sensor:PSC-ID-CM-301

Powerpack: OSP20-RD0
Occupancy sensor: OSC05-RMW

Legrand
Powerpack: BZ-200
Occupancy sensor: DT-300/DT-305

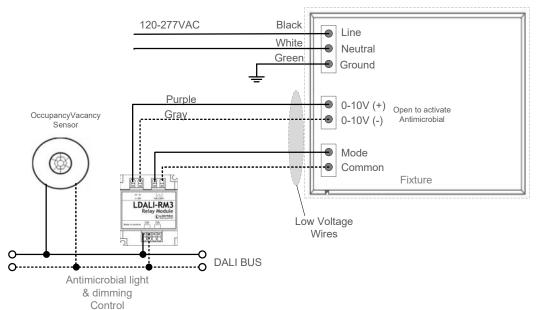
IR-Tec Powerpack: PPU-300/301 Occupancy sensor: OS-361DT

McWong Powerpack: PSC-AC-PP-100 Occupancy sensor:PSC-ID-CM-301 Leviton
Powerpack: OSP20-RD0
Occupancy sensor: OSC05-RMW

<u>Legrand/Wattstopper</u> Powerpack: BZ-200 Occupancy sensor: DT-300/DT-305

IR-Tec Powerpack: PPU-300/301 Occupancy sensor: OS-361DT

DALI Occupancy/Vacancy Sensor with DALI to 0-10V/Relay Module



- * Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.
- † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.







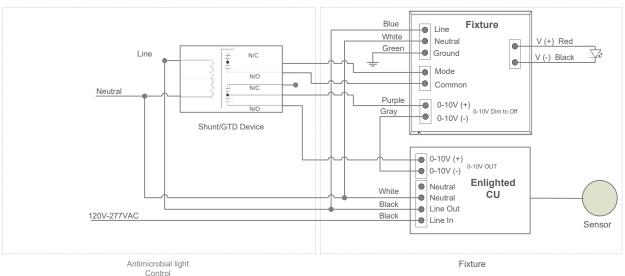
PROJECT: TYPE:

Dimming Compatibility (continued)

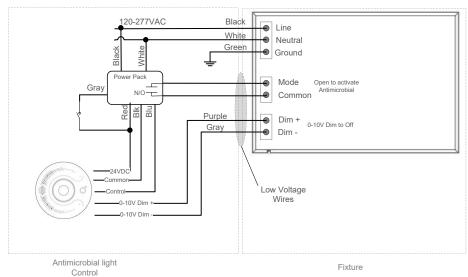
Amerlux® Gruv fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc.) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

0-10V with Enlighted Sensor Control



Delta Controls O3 Sensor Hub



^{*} Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

[†] The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.





PROJECT:	TYPE:	
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Emergency Fixture with Built-In Battery Pack

EMERGENCY FIXTURE WITH BUILT-IN BATTERY PACK (EMB) WIRING: Note: EMB not available on lengths under 4'.

