Recessed Linear LED with Vyv Antimicrobial Light

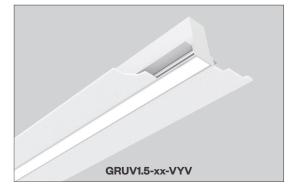
PROJECT:

TYPE:



Features

ActiveCLEAN'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

Туре:	Recessed Linear, Direct with Antimicrobial Light
Wattage:	3W-12W/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	6" Tech Zone	9/16"	15/16" *	Gyp Board	Millwork	Perimeter J-Mold
No	No	Yes	Yes	Yes	Yes	Yes

* Flange Grid (GRUV1.5-FLG-GRID) model only.

Performance Data

Wattage/Foot	Delivered Lumens	LPW	Color Temp, CRI
12	1935	40.9	4000K-85
D	100014 050045	0 01	

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

Electrical Data

		4'		8'	
Wattage/Foot	Voltage	System Watts	Amps	System Watts	Amps
12	120V	46.3	0.39	93.9	0.78
IΖ	277V	45.9	0.17	91.9	0.33
7	120V	26.7	0.22	53.5	0.44
1	277V	26.8	0.10	53	0.20

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



Recessed Linear LED with Vyv Antimicrobial Light



PROJECT:

TYPE:

Ordering Information

	<u>PL</u>				<u>. 120/277 .</u>			_•		•	_•
	1 2 3	2	4		5 6	7			8	9	10
1	Model			2	Optics	3	Wa	ittage (pe	er foot)		
	GRUV1.5-FLG-VYV exposed flange GRUV1.5-FLG-GRID-VYV exposed flange grid GRUV1.5-GB-VYV gyp board trimless mud-in GRUV1.5-GRID-VYV grid mount GRUV1.5-IS-VYV independently suspended, m GRUV1.5-J/GB-VYV j-mold/gyp board trimless GRUV1.5-J/GRID-VYV j-mold/grid GRUV1.5-J/IS-VYV j-mold/independently susp	nillwoi s	rk		PL performance lens		max			'2W/ft, available in 3W/ft - 12 re 4' min. length)	W/ft
	Color Temp		5	Finis	h	6	Volt	age	7	Length	
	Single Mode			AW /	A<i>ctive</i>CLEAN™ white		120/	277			
	AL30 3000K-85CRI, white antimicrobial + light	t									
	AL40 4000K-85CRI, white antimicrobial + light	t									
3	Configuration	9	Driv	ers/Co	ontrols			10 O	ptions	Accessories	
	IND ¹ individual fixture, 2' to 8' in 1' increments		OFF	-0-10\	/ 1% electronic dim to off,	multi-vo	olt	С	P Chio	cago Plenum (CCEA)	
	IND-S+ individual with standard plus (see pg		(120	277V) c	onstant current driver (sta	andard)		ENLS Enlighted Sensor (0-10V only and not average 2'& 3' lengths)		nly and not available o	
	7 for GRID or J/GRID only)		HILL	JME-H	-ECO Lutron LDE1 Hi-lur	ne® 1% c	dim				
	CON continuous run > than 8', specify to		Soft	Soft-On/Fade-to-Black DALI DALI dimming 120-277VAC, 1% dim				W	WHIP 6' whip, 18/5 conductor		
							dim		EMC-PF ² emergency circuit requires power feed loc		
	nearest foot		DAL	DALI	dimming 120-277 VAC, 19	Juin			in last fixture section (for other locations consult factory)		
	nearest foot CON-S+ continuous run with standard plus		Note	Reviev	v wiring diagrams on pages		r	in	last fi>	kture section (for other loc	ations consult factory
			Note	Reviev	0		r			xture section <i>(for other loc</i> ra power feed for additio	,

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

² Not available with IND (individual) configuration.



Grüv® 1.5" ActiveCLEAN™

Recessed Linear LED with Vyv Antimicrobial Light

PROJECT:

TYPE:



Application

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

ActiveCLEAN[™] 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.

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

Antimicrobial+Light Mode (AL___) provides continuous antimicrobial protection, combined with white light

CRI: 85 typical; R9: 10 typical

4-step bin

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

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: up to 12W/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 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 for additional circuiting. Not available for individual (*IND*) configuration.

Drivers

OFF-0-10V - 1% electronic dim to off, multi-volt (120-277VAC) constant current driver (standard)

amerl

Optional Drivers:

HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black DALI - DALI Dimming 120-277VAC, 1% dim

Finish

AW - ActiveCLEAN[™] white powder coat paint with anti-microbial coating. Baked on finish for maximum durability and color stability.

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.

 ${\bf S+}$ - Standard Plus is a field cuttable 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 - Custom 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 or Screw Slot, 15/16" Tee grid and millwork ceilings. Wall mounting J-Molding details available. For individual, continuous row, or pattern applications.

Please note - fixtures to be installed before gypsum board ceiling.

GRUV1.5-FLG-VYV - exposed flange, fixture into gyp board ceiling **GRUV1.5-FLG-GRID-VYV** - exposed flange grid mount, fixture into 9/16" or 15/16" Tee ceilings

GRUV1.5-GB-VYV - gyp trimless mud, fixture plastered into gypsum board ceiling GRUV1.5-GRID-VYV - grid mount, in 9/16" Screw Slot or Flat Tee ceilings GRUV1.5-IS-VYV - independently suspended, fixture in wood ceiling

GRUV1.5-J/GB-VYV - J mold/gyp trimless, plastered in ceiling - J Channel wall side GRUV1.5-J/GRID-VYV - J mold/grid, in 9/16" Screw Slot or Flat Tee ceilings - J Channel wall side

GRUV1.5-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 lm 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.



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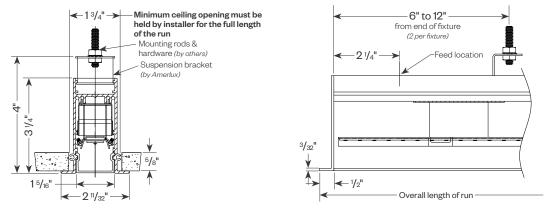


PROJECT:

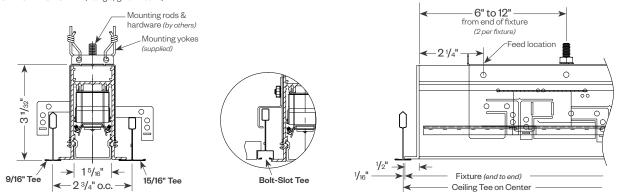
TYPE:

Product Details

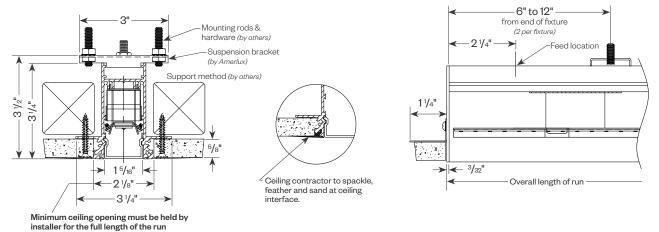




GRUV1.5-FLG-GRID (flange, grid mount)



GRUV1.5-GB (gyp board trimless mud-in)





Delta Intelligent Building Technologies

Recessed Linear LED with Vyv Antimicrobial Light

Fold out seismic

olip (2) per fixture



PROJECT:

 $3^{9/32}$

13/4

Slot-Grid

9/16'

Tee

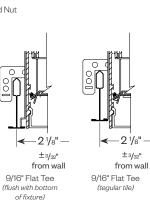
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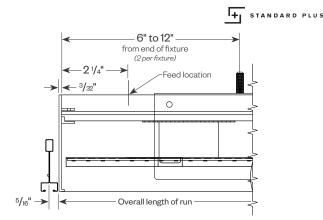
TYPE:

Product Details (continued)









±^{3/32"} Note: 9/16" Grid Only

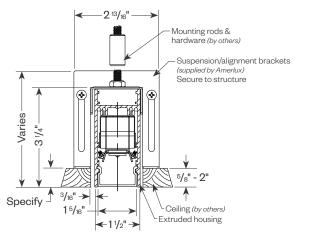
2¹/₈" →

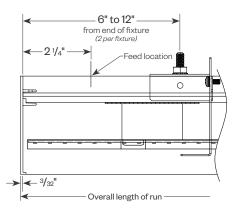
J

- 1 5/16"

- 11/2"

GRUV1.5-IS (independently suspended)





Recessed Linear LED with Vyv Antimicrobial Light



PROJECT:

1

1 ⁵/₁₆"

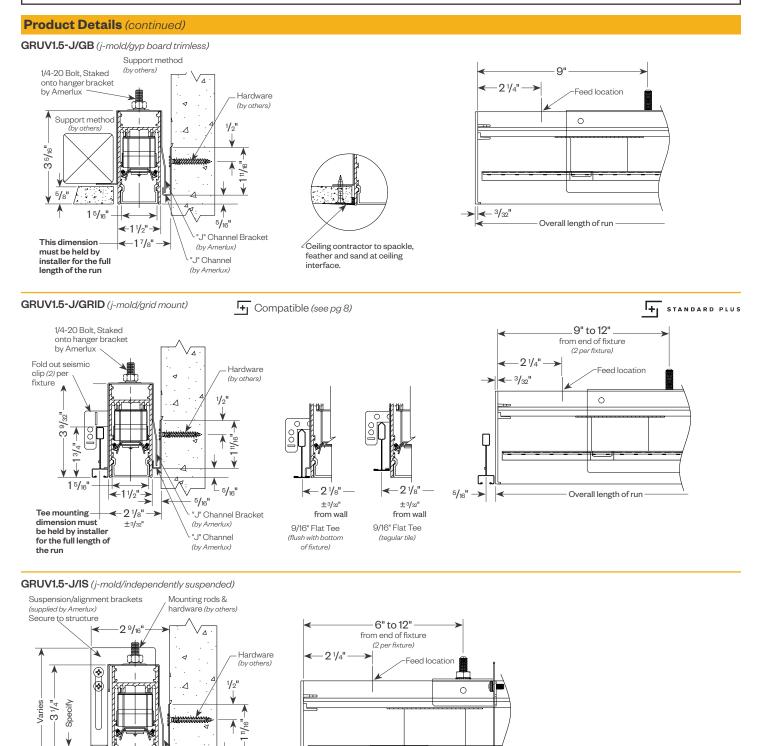
This dimension must be held by

installer for the full length of the run

←11/2"→

21/16

TYPE:



Delta Intelligent Building Technologies

1

(by Amerlux)

"J" Channel

(by Amerlux)

5/16

J" Channel Bracket

<-- ³/₃₂′

Overall length of run

Recessed Linear LED with Vyv Antimicrobial Light



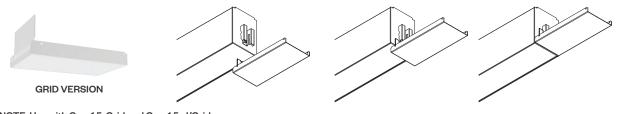
PROJECT:

TYPE:

+ STANDARD PLUS

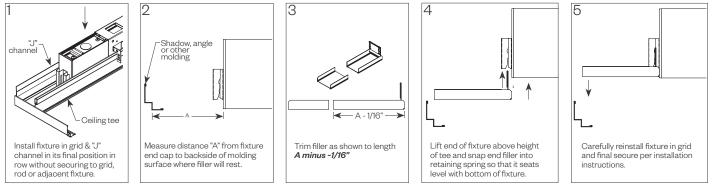
STANDARD PLUS (FILLER):

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")



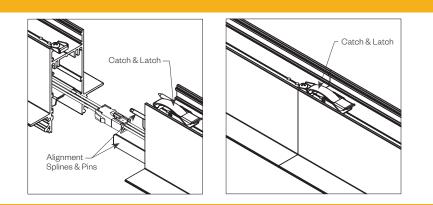
NOTE: Use with Gruv1.5-Grid and Gruv1.5-J/Grid

FILLER TRIM AND INSTALLATION (GRUV 1.5 GRID SHOWN HERE)



Toolless Joining

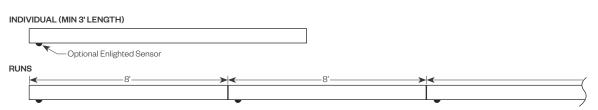
Line up the two housings by using the alignment splines & pins. Secure them together by using the Catch & Latch System on the top of the extrusion.



Optional Sensor/RF Node

Amerlux® has partnered with control companies to create building environments that are safer, and smarter, than ever before. At the heart of our partnership is intelligent RF nodes and Smart Sensor, the most advanced digital wireless communication and sensors available today. Integrated into Amerlux products.

Minimum run length is 3' for wireless sensor and RF node.





Delta Intelligent Building Technologies

178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com Amerlux reserves the right to change details that do not affect overall function and performance. LIT-2336 • 12/12/24 • Page 7 of 10

Recessed Linear LED with Vyv Antimicrobial Light



PROJECT:

TYPE:

Performance Data

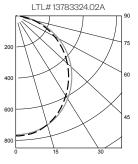
Multiplying Factors: (Multiplying Factor is based on 4000K-85 120V IES file on website)

Wattage:	ЗW	4W	5W	6W	7W	8W	9W	10W	11W	12W	CCT:	3000K	4000K
Factor:	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.83	0.92	1.0	Factor:	1.0	1.0

GRUV 1.5" ACTIVECLEAN PL 12W/FT AL40 4000K 4FT

Total Watts: 47.3 Total Lumens: 1,935 Source: 182 White LED's

Source. 102 White EED 0



	JMEN SUMMA	DV
Zone	Lumens	%Fixt
0-40	922	47.6
0-60	1564	80.8
0-90	1935	100.00
90-180	0	0.00
90-180	0	0.00

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC		80	0		
RW	70	50	30	10	
RCR					
0	119	119	119	119	
1	109	105	100	97	
2	100	91	85	79	
3	91	81	73	66	
4	83	72	63	56	
5	77	64	55	49	
6	71	58	49	43	
7	66	53	44	38	
8	62	48	40	34	
9	58	44	36	31	
10	54	41	33	28	

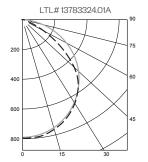
Note: Values are expressed as percent of total lumen output delivered to the task surface.

GRÜV1.5-FR ACTIVECLEAN PL 12W/FT AL40 4000K 4FT

Total Watts: 48

Total Lumens: 1,882

Source: 182 White LED's



ZONAL LUMEN SUMMARY Zone Lumens %Fixt 0-40 981 521 0-60 1645 874 0-90 1882 1000

0

90-180

Total Luminaire Efficiency = 39.1 lm/W

0.0

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

LIIOOUW		y noncotanoo.	2070		
RC		8	0		
RW	70	50	30	10	
RCR					
0	119	119	119	119	
1	110	106	103	99	
2	101	94	88	83	
3	93	83	76	70	
4	86	75	66	60	
5	79	67	59	52	
6	73	61	52	46	
7	68	55	47	41	
8	63	50	42	37	
9	59	46	38	33	
10	56	43	35	30	

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



Recessed Linear LED with Vyv Antimicrobial Light



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.

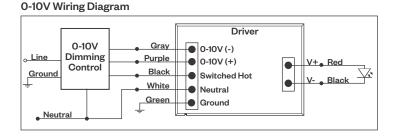
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

0-10V - DIMMING (Standard)

Integrates into a variety of building management and daylighting controls

Notes:

- 120V or 277V*
- Dims down to 1% light output
- · Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!



Compatible Dimmers⁺:

	• •		
Wall Box			Central System
Lutron:	Wattstopper:	Leviton:	Lutron Grafixk Eye with GRX-TV1 Interface
Diva - DVSTV	ADF-120277	Renoir II	
Maestro - MS-Z101			
Nova-T - NTSTV-DV			

LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

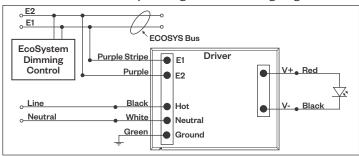
Notes:

- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

Compatible Dimmers*:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



Notes:

* 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.



Recessed Linear LED with Vyv Antimicrobial Light



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 ---

DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

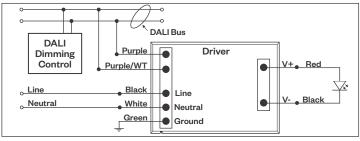
Notes:

- 120VAC 277VAC*
- · Dims down to 1% light output in most cases

Compatible Dimmers⁺:

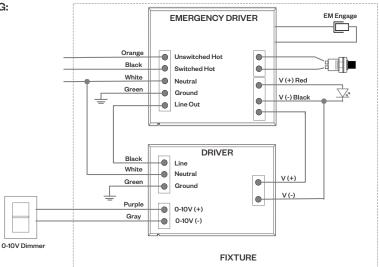
Wall Box	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

DALI Wiring Diagram



Emergency Fixture with Built-In Battery Pack

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



Notes:

* 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.

