

Fino® Healthcare

Asymmetric Wall Mount Indirect



PROJECT:

TYPE:

Features

Fino Healthcare fixture is ideal for applications requiring a wipe down lens with no horizontal “shelf” surfaces. Designed with an integrated acrylic lens to protect the light source, Fino Healthcare promotes a crisp, comfortable work environment. At only 5/8” deep, Fino runs seamlessly across the walls without the need to cut wall studs, leaving ceilings pristine clean – creating a beautiful visual impression. Fino wall mount is available for mud-in trimless gypsum board installations or exposed flanged for 5/8” gypsum board or millwork.



Product Overview

Type: Asymmetric, Wall Mount, Indirect Healthcare, Wipe down lens
Wattage: 6W/ft, 12W/ft (*other wattages consult factory*)
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. or 90+ typ.
Dimming (wired): 0-10V, 1% dim, 120/277VAC (*standard*)
Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black
DALI, 1% dim

Certifications



Fixture Summary

Performance Data

Wattage per Foot	Delivered Lumens	LPW	Color Temp
6	2662	120.7	3500K-83
12	5075	111.8	3500K-83

Data is based on 4' fixture with performance lens, 3500K-83 120V IES files available on website.

Runs

Individual Runs: 1.5' - 8' (*to nearest 6"*).
Continuous Runs: Available (*to nearest 6"*).

Electrical Data

Wattage per Foot	Voltage	4'		8'	
		System Watts	Amps	System Watts	Amps
6	120V	22.1	0.18	44.2	0.37
	277V	22.1	0.08	44.2	0.16
12	120V	45.4	0.38	90.8	0.76
	277V	45.4	0.16	90.8	0.33

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

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Ordering Information

120/277							
1	2	3	4	5	6	7	8
1 Model FINO-HC-A16* (gyp board, trimless mud-in) FINO-HC-REMOTE-A16* (gyp board, trimless mud-in, remote driver) FINO-HC-FLG-A16* (exposed flange) FINO-HC-FLG-REMOTE-A16* (exposed flange, remote driver)	2 Wattage (per foot) 6 6W/ft 12 12W/ft <i>Consult factory for other wattage options.</i>	3 Color Temp 83 CRI 90+ CRI* 27 2700K-83 279 2700K-90+ 30 3000K-83 309 3000K-90+ 35 3500K-83 359 3500K-90+ 40 4000K-83 409 4000K-90+ <i>* Consult factory for lead times.</i>	4 Finish <u>For Mud-in Version</u> HW high reflectance matte white <u>For Flanged Version</u> HW high reflectance matte white BT* black texture for exposed flange only ST* silver texture for exposed flange only <i>* Reflector is always painted HW (high reflectance white).</i>	5 Voltage 120/277	6 Length _____ specify length <i>(for individual fixture, 1.5' to 8' in 6" increments)</i> <i>(for continuous run, specify to nearest 6")</i>	7 Configuration IND ¹ individual fixture, 1.5' to 8' in 6" increments CON continuous run > than 8', specify to nearest 6"	8 Drivers 0-10V 1% electronic dimming, multi-volt 120-277VAC constant current driver (<i>standard</i>) <u>Consult factory for the following options</u> HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black DALI DALI dimming 120-277VAC, 1% dim

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

* The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.



PROJECT:

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Specifications

Application

Especially developed for healthcare facilities, wipe down lens and no horizontal surfaces allow for easy cleaning. Can be used for uplight or downlight applications

Construction

Two piece assembly:

- 1) Extruded aluminum mud-in or exposed no spackle frame and sheet metal die-formed gear tray.
- 2) Snap-in Reflector extruded aluminum optical assembly.

Positive latching system for hairline seams.

Optical

Engineered optical system with internal asymmetric high reflectance white reflector and vertical wipe down cover lens.

LED

Amerlux's boards and patented connector design with brand name LEDs enables Amerlux fixtures to have excellent thermal management and offer a 5 year warranty. Our LED binning is within 3 MacAdam ellipse. Boards are configured for maximum flexibility resulting in even illumination no matter the fixture layout. LED boards are easily replaced in the field with just a Phillips screw driver.

Color Temperature Options: 2700K, 3000K, 3500K, 4000K

CRI: 83 typical, 90+ (consult factory for lead times)

R9: 16 @ CRI 83; **R9:** >50 @ CRI 92

Life: 50,000+ hr., > 70% of initial lumens (L70)

Electrical

Wattage: 6W/ft, 12W/ft (consult factory for other wattages).

Wiring (see page 6 for wiring illustrations):

Integral Driver uses Standard Driver enclosure (on the back of fixture). It is adjusted for installation in between 16" o.c. or greater wall studs. 1 or 2 drivers per fixture required based upon Wattage and Length (see table 1 pg 4). Line voltage Power Feed (by others) must be brought to each Driver enclosure. Fixtures with multiple drivers are not connected internally.

REMOTE Driver (optional) requires a remote driver with enclosure. 1 or 2 drivers per fixture are required based upon Wattage and Length.

Note: (1) Driver per enclosure.

Fixtures are provided with low voltage plenum rated 18/2 cable for field connection (by others) to Remote Driver. Remote Driver can be mounted anywhere within 25'.

Short Runs: Multiple short fixture lengths can be wired (daisy chained) to a single Remote Driver. Cumulative Fixture lengths must equal the MIN Length per Driver criteria and be dividable by 6". (see Table 2 page X). We suggest limiting number of short runs to 3 per remote driver.

Consult factory for additional remote driver requirements not shown.

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.

Drivers

O-10V - 1% electronic dimming, multi-volt (120-277VAC) constant current driver (standard). Cap leads for non-dim applications.

Optional Drivers:

HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black

DALI - DALI Dimming 120-277VAC, 1% dim

Note: Driver is accessible by removing snap-in reflector assembly.

Finish

Powder coat paint, baked on finish for maximum durability and color stability.

HW - High reflectance matte white.

BT - Black Texture (frame)

ST - Silver Texture (frame)

Please note: Reflector will be painted HW (high reflectance white, for predictable performance. Exposed flange frame may be painted BT or ST).

Configurations/Lengths

Straight lengths only.

IND - Individual fixtures are made of single standard lengths of 1.5' to 8' (in 6" increments). These are stand alone fixtures. Lengths less than 4' may have restrictions based upon wattage, lengths, drivers or other options.

CON - Continuous runs, > than 8', specified to nearest 6" increments.

Each Housing/mud-in frame has factory installed alignment pins. Mating frames are easily aligned and joined with "catch and latch" mechanisms.

Mounting

FINO-HC-A16 - Gypsum board mud-in only.

FINO-HC-REMOTE-A16 - Gypsum board mud-in with remote driver enclosure.

FINO-HC-FLG-A16 - Exposed flanged for gypsum board or millwork.

FINO-HC-FLG-REMOTE-A16 - Exposed flanged for gypsum board or millwork with remote driver enclosure.

Certifications

Approved to UL standards for damp locations as tested by CSA.

Intended for indoor use only

IC rated

Warranty

Amerlux's 5 year limited warranty. Please consult Amerlux website for details.



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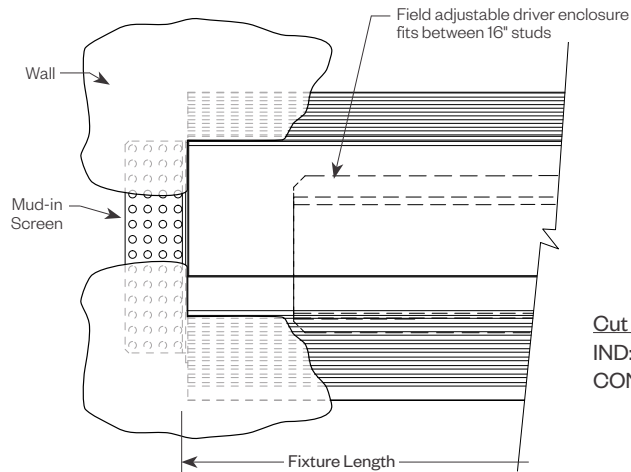
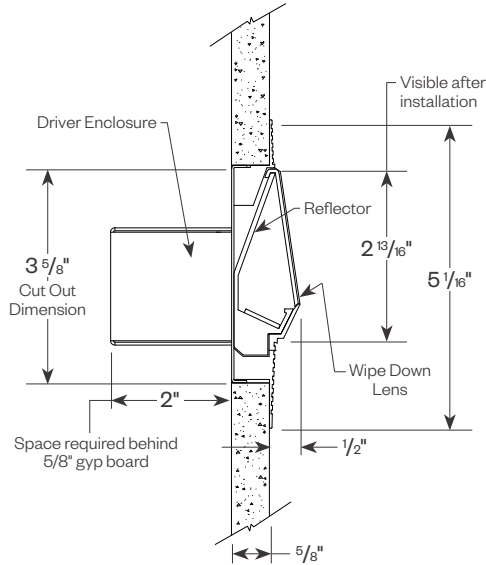


PROJECT:

TYPE:

Product Details

FINO-A16

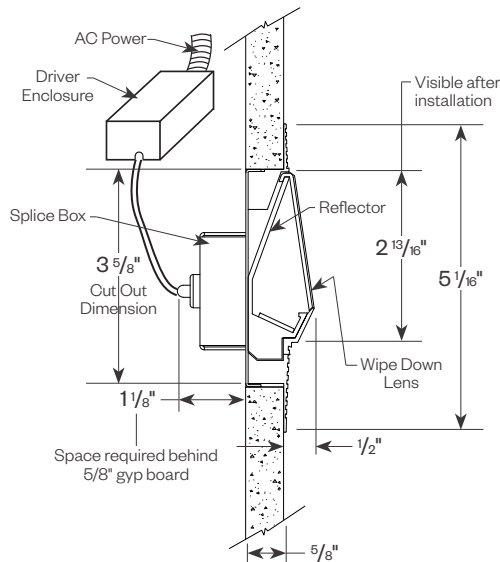


Cut Out Dimensions:

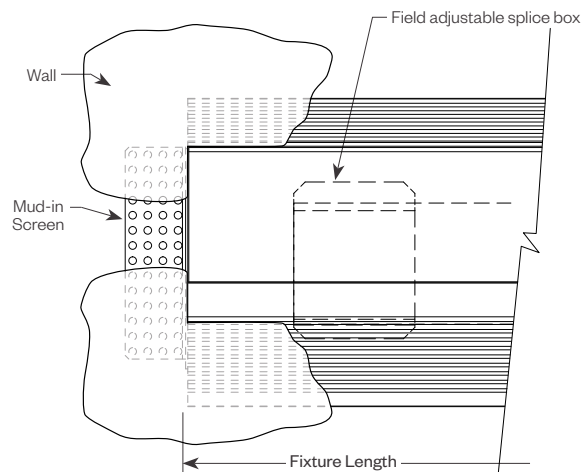
IND: 3 ⁵/₈" x fixture length + 1/16"

CON: 3 ⁵/₈" x fixture length + 1"

FINO-REMOTE-A16 (FINO with REMOTE DRIVER)



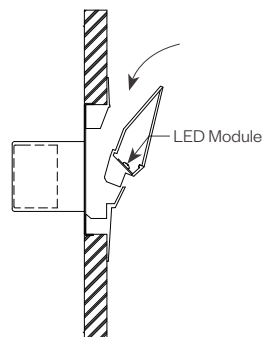
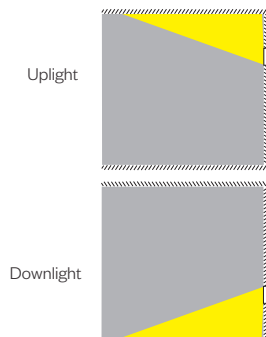
Note: Remote driver can be installed up to 25' max. from fixture.



Cut Out Dimensions:

IND: 3 ⁵/₈" x fixture length + 1/16"

CON: 3 ⁵/₈" x fixture length + 1"



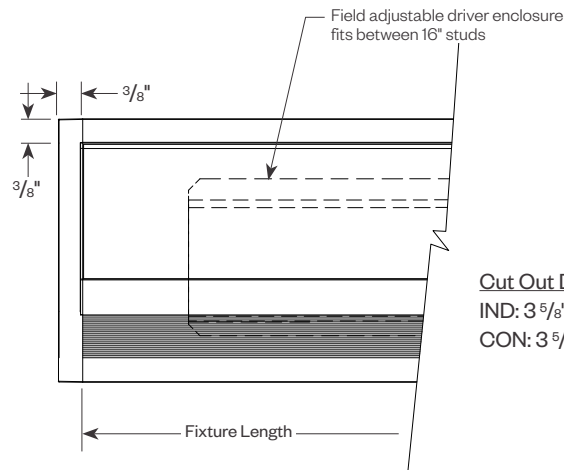
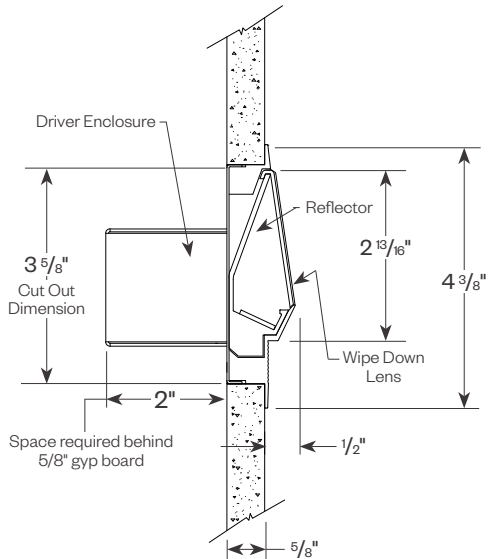
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PROJECT:

TYPE:

Product Details *(continued)*

FINO-FLG-A16 (*FINO FLANGE*)



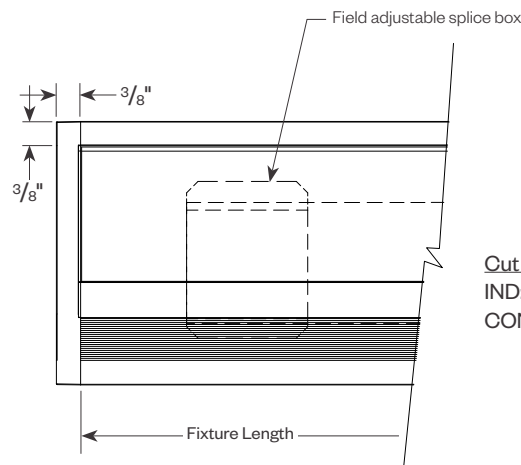
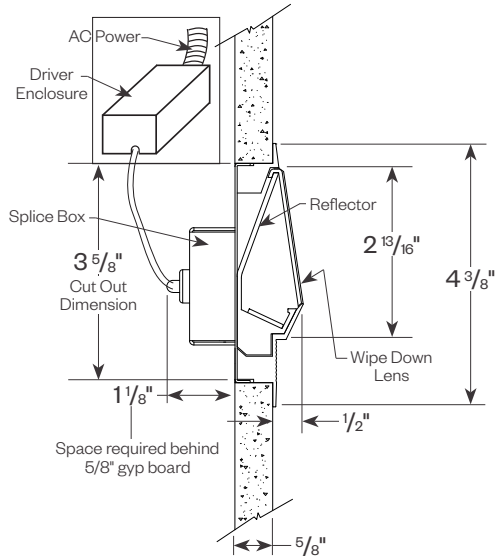
Cut Out Dimensions:

IND: 3 ⁵/₈" x fixture length + ³/₁₆"

CON: 3 ⁵/₈" x fixture length + ³/₈"

FINO-FLG-REMOTE-A16 (*FINO FLANGE with REMOTE DRIVER*)

Note: Remote driver can be installed up to 25' max. from fixture.



Cut Out Dimensions:

IND: 3 ⁵/₈" x fixture length + ³/₁₆"

CON: 3 ⁵/₈" x fixture length + ³/₈"

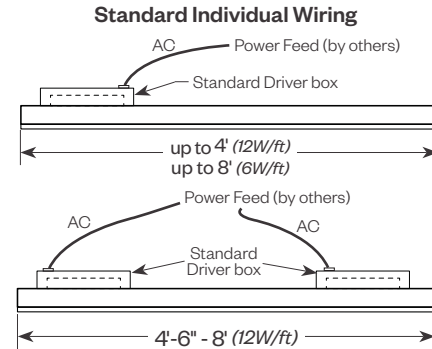
PROJECT:

TYPE:

Driver Information

Integral Driver (for every fixture section) located on the back of fixture is field adjusted for installation in between wall studs. 1 or 2 drivers per fixture required (see table 1). Line voltage Power Feed (by others) must be brought to each Driver enclosure.

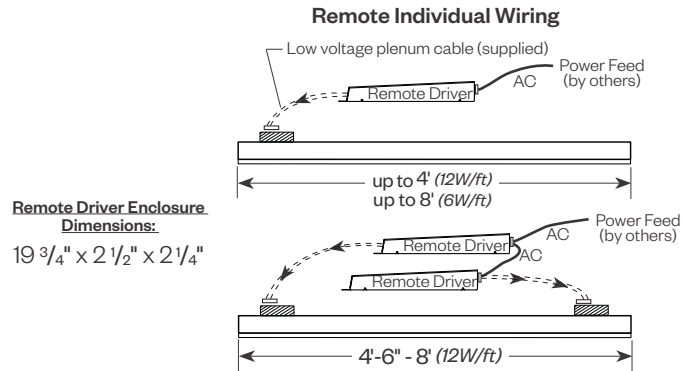
Driver	W/ft	Min. Length	Max. Driver	
			1	2
0-10V	6W	1'-6"	8'	x
	12W	1'-6"	4'	8'
Lutron	6W	2'-6"	8'	x
	12W	1'-6"	4'	8'
DALI	6W	1'-6"	8'	x
	12W	1'-6"	4'	8'



Remote Driver (for every fixture section, optional) requires an enclosure. 2 drivers per fixture may be required see Table 2. **Note: (1) Driver per enclosure.**

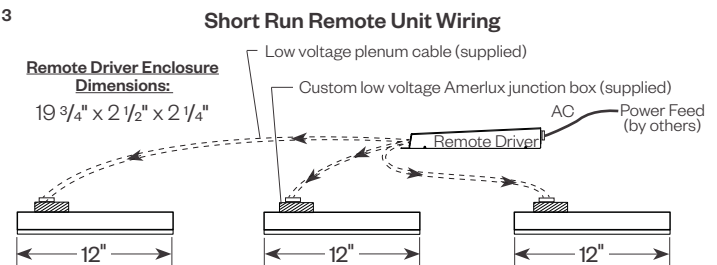
Fixtures are provided with low voltage plenum rated 18/2 cable for field connection (by others). Remote driver max distances are listed on Table 2.

Driver	W/ft	Min. Length	Max. Driver		Max.Remote
			1	2	Driver Distance
0-10V	6W	1'-6"	8'	x	25'
	12W	1'-6"	4'	8'	25'
Lutron	6W	2'-6"	8'	x	25'
	12W	1'-6"	4'	8'	25'
DALI	6W	1'-6"	8'	x	25'
	12W	1'-6"	4'	8'	25'



Short Runs (on one remote driver): multiple short fixture lengths can be wired (daisy chained) to a single Remote Driver. Cumulative fixture lengths must equal the MIN length per Driver criteria and be divisible by 6". (see Table 3)

Driver	W/ft	Min. Length	# of Drivers	6" Section	12" Section
0-10V	6W	1'-6"	1	3	0
	12W	1'-6"	1	1	1
Lutron	6W	2'-6"	1	1	2
	12W	1'-6"	1	3	0
	12W	1'-6"	1	1	1
DALI	6W	2'-6"	1	1	2
	12W	1'-6"	1	3	0
	12W	1'-6"	1	1	1



Note: Consult factory for additional remote driver requirements not shown.

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Performance Data

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

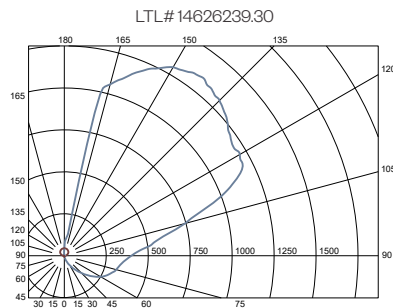
CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.91	0.96	1.0	1.01	0.80	0.84	0.88	0.89

FINO HEALTHCARE 6W 3500K-83 4FT

Total Watts: 22

Total Lumens: 2662 (666 lm/ft)

Source: 96 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	24	0.9
0-60	108	4.1
0-90	412	15.5
90-180	2250	84.5

Efficacy (lumens/watt) = 120.7 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
ROR				
0	99	99	99	99
1	88	83	78	74
2	79	71	64	59
3	71	62	54	48
4	65	54	46	40
5	59	48	39	33
6	54	42	34	28
7	50	38	30	24
8	46	34	26	21
9	43	31	23	18
10	40	28	21	16

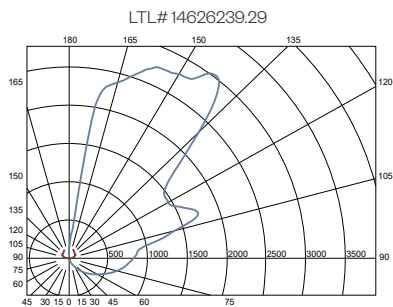
Note: Values expressed as % of total lumen output delivered to the task surface.

FINO HEALTHCARE 12W 3500K-83 4FT

Total Watts: 45

Total Lumens: 5075 (1269 lm/ft)

Source: 96 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	42	0.8
0-60	188	3.7
0-90	764	15.0
90-180	4311	85.0

Efficacy (lumens/watt) = 111.8 lm/W

COEFFICIENTS OF UTILIZATION

RC	80			
RW	70	50	30	10
ROR				
0	99	99	99	99
1	88	82	78	74
2	79	71	64	58
3	71	61	54	48
4	65	54	46	40
5	59	47	39	33
6	54	42	34	28
7	50	38	30	24
8	46	34	26	21
9	43	31	23	18
10	40	28	21	16

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



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Dimming Compatibility

Amerlux® Fino® 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 ---

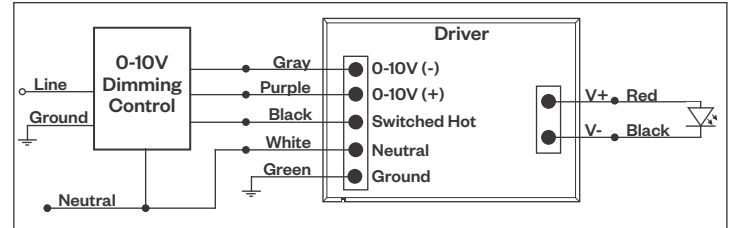
0-10V - DIMMING (Standard)

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!**

0-10V Wiring Diagram



Compatible Dimmers*:

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

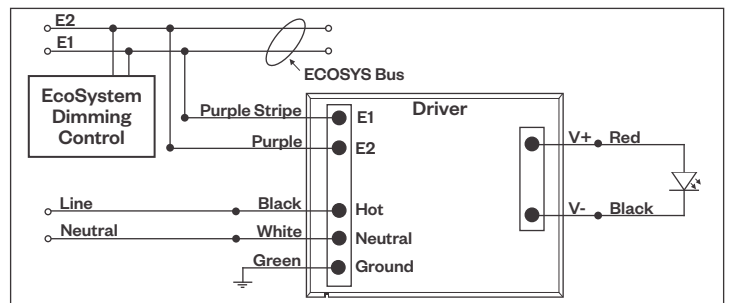
LUTRON LDE1 DIMMING

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!**

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



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	

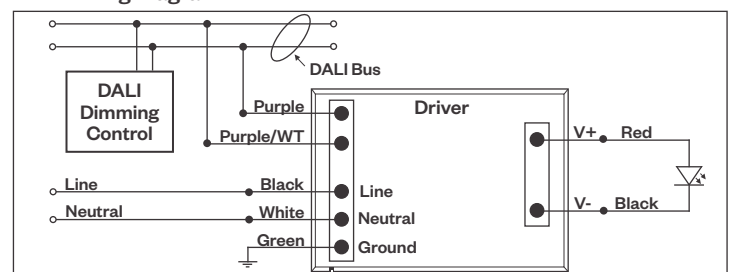
DALI - DALI DIMMING 120V-277V

Digital control protocol allows individual fixture control

Notes:

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

DALI 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.