Fino® Healthcare
Asymmetric Wall Mount Indirect

amerlux

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.

FINO-HC

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

CSA c US | **5** year limited warranty — AMERLUX LED

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' System Watts	4' Amps	8' System Watts	8' 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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Fino® Healthcare
Asymmetric Wall Mount Indirect

PROJECT:	TYPE:

Ordering Information

_____ . _____ . _____ . _____ . **120/277** . _____ . _____ . _____

1   **2** **3** **4**   **5**   **6**   **7**   **8**
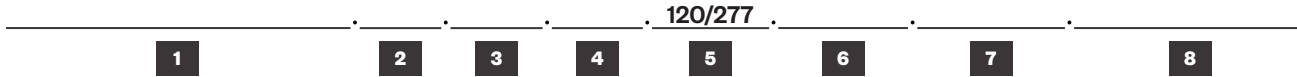
1	Model
	FINO-HC-A16† *(gyp board, trimless mud-in)*
	FINO-HC-REMOTE-A16† *(gyp board, trimless mud-in, remote driver)*
	FINO-HC-FLG-A16† *(exposed flange)*
	FINO-HC-FLG-REMOTE-A16† *(exposed flange, remote driver)*

2	Wattage *(per foot)*
	6 6W/ft
	12 12W/ft
	Consult factory for other wattage options.

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+
	* Consult factory for lead times.	

4	Finish
	For Mud-in Version
	HW high reflectance matte white
	For Flanged Version
	HW high reflectance matte white
	BT* black texture for exposed flange only
	ST* silver texture for exposed flange only
	* Reflector is always painted HW (high reflectance white).

5	Voltage
	120/277

6	Length
	_____ specify length
	(for individual fixture, 1.5' to 8' in 6" increments)
	(for continuous run, specify to nearest 6")

7	Configuration
	IND¹ 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 *(standard)*
	Consult factory for the following options
	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.

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Fino® Healthcare
Asymmetric Wall Mount Indirect

PROJECT:	TYPE:

Specifications

Application
Especially developed for healthcare facilities, wipe down lens and no horizonal 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
0-10V - 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

Driver Enclosure

Visible after installation

Reflector

2 13/16"

5 1/16"

3 5/8"
Cut Out
Dimension

2"

Wipe Down Lens

Space required behind
5/8" gyp board

1/2"

5/8"

Field adjustable driver enclosure
fits between 16" studs

Wall

Mud-in
Screen
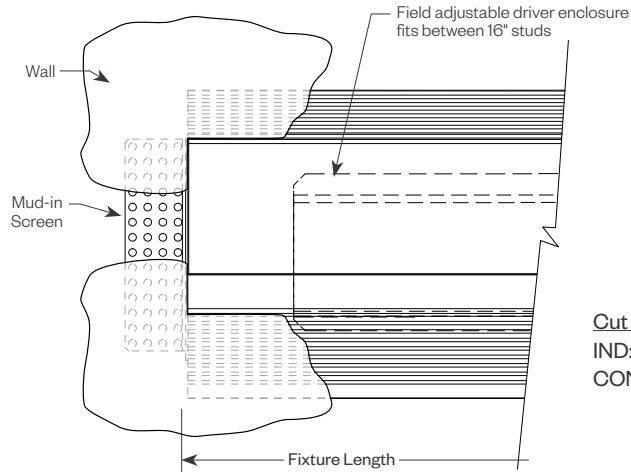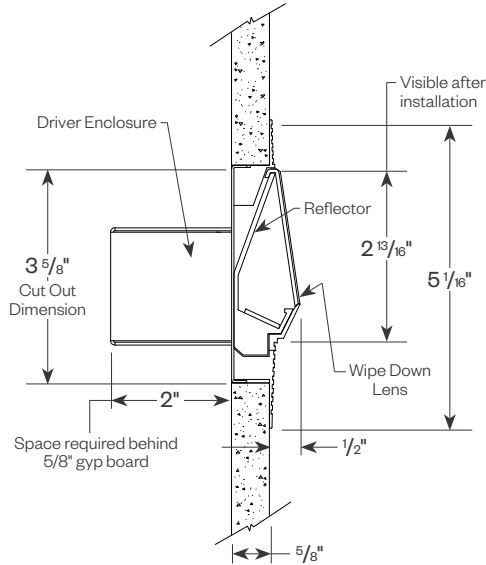
Fixture Length

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.
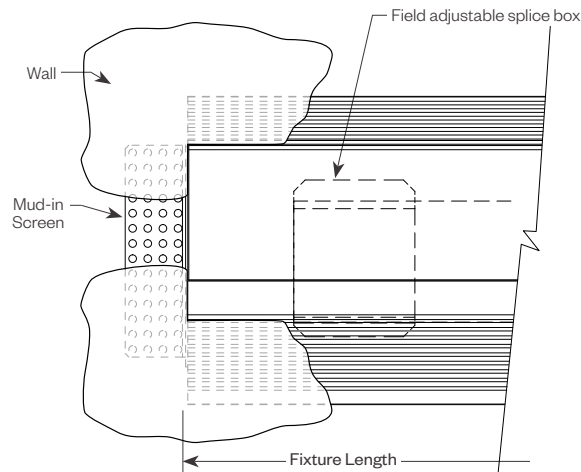
AC Power

Driver
Enclosure

Visible after installation

Splice Box

Reflector

2 13/16"

5 1/16"

3 5/8"
Cut Out
Dimension

1 1/8"

Wipe Down Lens

Space required behind
5/8" gyp board

1/2"

5/8"

Wall

Mud-in
Screen

Field adjustable splice box

Fixture Length

Cut Out Dimensions:
IND: 3 5/8" x fixture length + 1/16"
CON: 3 5/8" x fixture length + 1"

Uplight

Downlight

LED Module

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Asymmetric Wall Mount Indirect

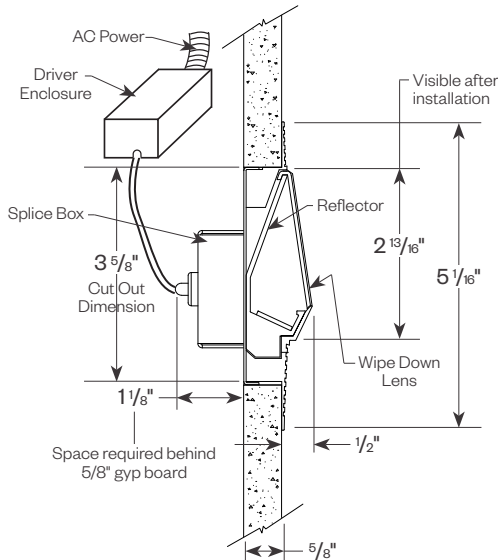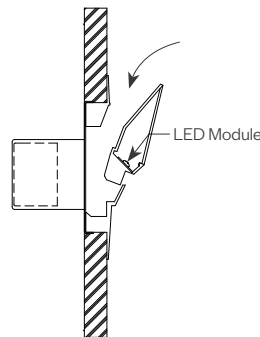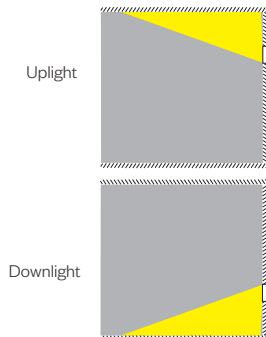**PROJECT:**   **TYPE:**

Product Details *(continued)*

FINO-FLG-A16 *(FINO FLANGE)*
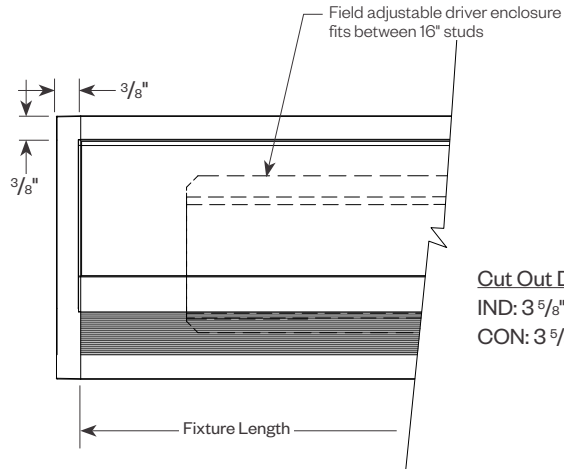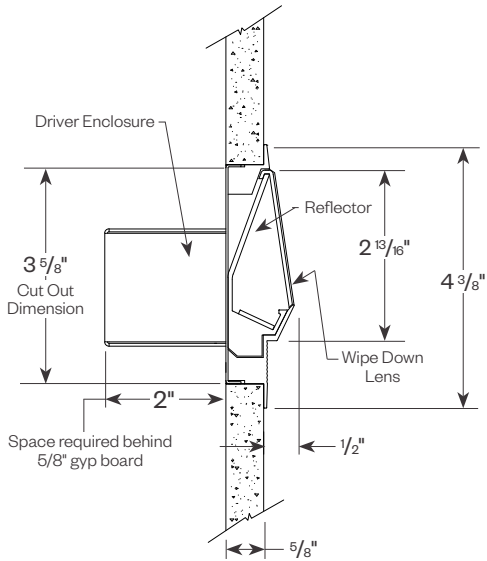
Driver Enclosure

Field adjustable driver enclosure fits between 16" studs

Reflector

2 ¹³/₁₆"

4 ³/₈"

3 ⁵/₈"
Cut Out
Dimension

Wipe Down Lens

2"

Space required behind 5/8" gyp board

½"

⁵/₈"

3/8"

Cut Out Dimensions:
IND: 3 ⁵/₈" x fixture length + ³/₁₆"
CON: 3 ⁵/₈" x fixture length + ³/₈"

Fixture Length

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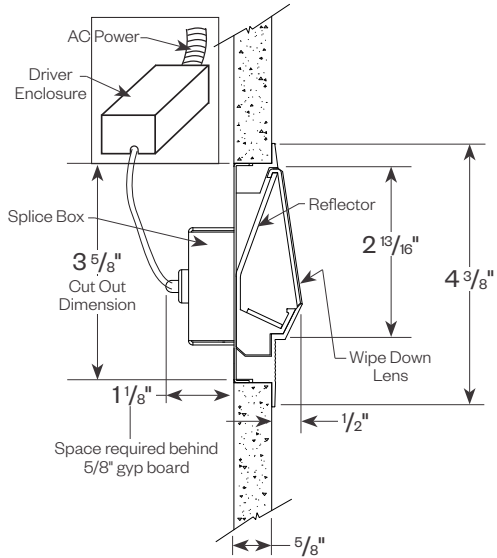
AC Power

Driver Enclosure

Splice Box

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

Field adjustable splice box

Reflector

2 ¹³/₁₆"

4 ³/₈"

3 ⁵/₈"
Cut Out
Dimension

Wipe Down Lens

1 ¹/₈"

Space required behind 5/8" gyp board

½"

⁵/₈"

3/8"

3/8"

Cut Out Dimensions:
IND: 3 ⁵/₈" x fixture length + ³/₁₆"
CON: 3 ⁵/₈" x fixture length + ³/₈"

Fixture Length

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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.

Table 1

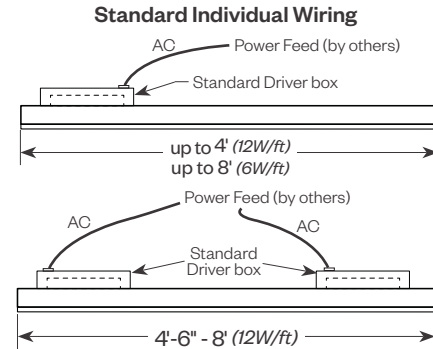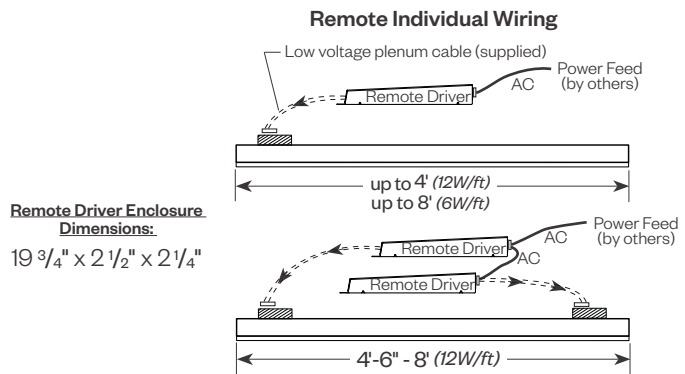| Driver	W/ft	Min. Length	Max. Driver 1	Max. Driver 2
0-10V	6W	1'-6"	8'	x
	12W	1'-6"	4'	8'
Lutron	6W	2'-6"	8'	x
	12W	1'-6"	4'	8'
DALI	6W	1'-6"	8'	x
	12W	1'-6"	4'	8'

Standard Individual Wiring

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.

Table 2

Driver	W/ft	Min. Length	Max. Driver 1	Max. Driver 2	Max.Remote 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'

Remote Individual Wiring

Remote Driver Enclosure Dimensions:
19 3/4" x 2 1/2" x 2 1/4"

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 divisable by 6". *(see Table 3)*

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
		1'-6"	1	1	1
DALI	6W	2'-6"	1	1	2
	12W	1'-6"	1	3	0
		1'-6"	1	1	1
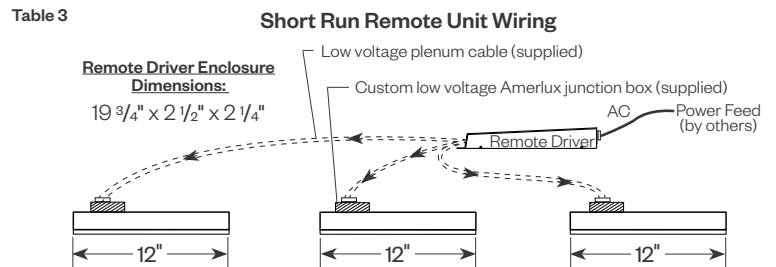
Note: Consult factory for additional remote driver requirements not shown.

Short Run Remote Unit Wiring

Remote Driver Enclosure Dimensions:
19 3/4" x 2 1/2" x 2 1/4"

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PROJECT:	TYPE:

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

LTL# 14626239.30
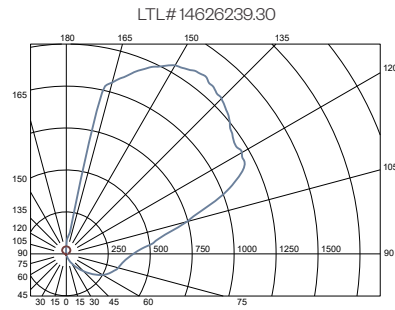
ZONAL LUMEN SUMMARY

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

Efficacy = 120.7 lumens /Watt

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
Effective Floor Cavity Reflectance 20%

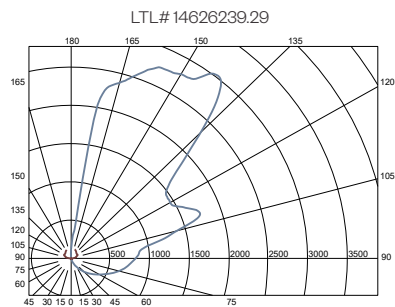| RC		80		
RW	70	50	30	10
RCR				
0	99	99	99	99
1	88	83	78	74
2	79	71	64	59
3	71	62	54	48
4	65	54	46	40
5	59	48	39	33
6	54	42	34	28
7	50	38	30	24
8	46	34	26	21
9	43	31	23	18
10	40	28	21	16

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

LTL# 14626239.29

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 = 111.8 lumens /Watt

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
Effective Floor Cavity Reflectance 20%

RC		80		
RW	70	50	30	10
RCR				
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
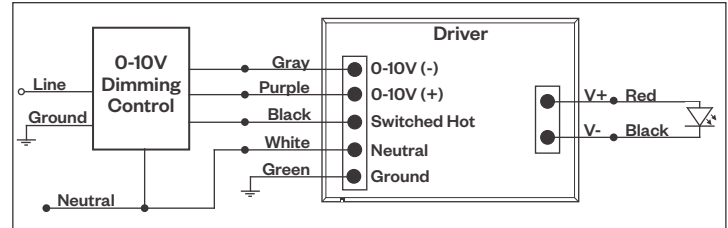
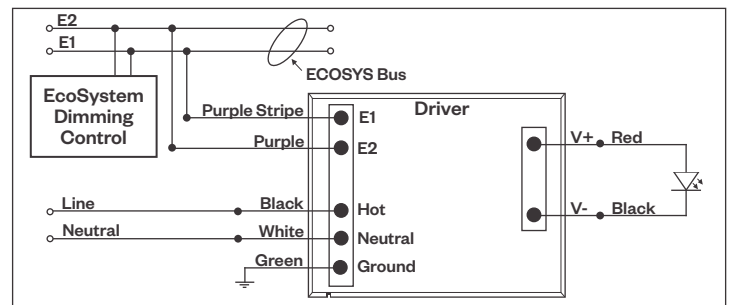| Compatible Dimmers†:			
Wall Box			**Central System**
Lutron:	Wattstopper:	Leviton:	Lutron Grafixk Eye with GRX-TV1 Interface
Diva - DVSTV	ADF-120277	Renoir II	
Maestro - MS-Z101			
Nova-T - NTSTV-DV			

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!**

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

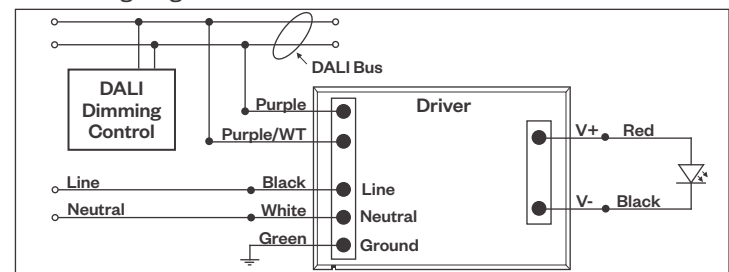| Compatible Dimmers†:	
Lutron ECO System	**Central System**
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

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

Compatible Dimmers†:	
Wall Box	**Central System**
Leviton CD250 Controller	Dynalite
	Fifth Light

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.