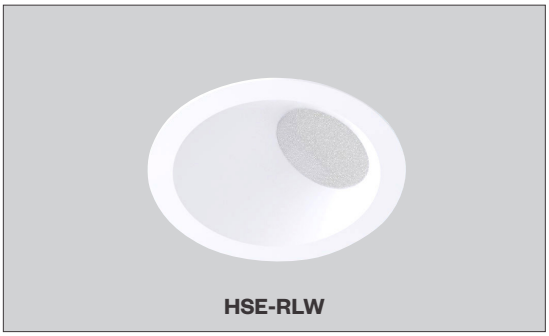
Hornet® HP Select

Round Lensed Wall Wash

PROJECT:	TYPE:

Features

The Hornet HP Select round wall wash series provides high impact smooth wash of light for retail and commercial walls without compromising on budget or design. It delivers over 1180 lumens but exceeds performance on the wall of products. The Hornet HP Select offers trimmed, trimless, or millwork trim options and is perfect for both retrofit and new construction projects.



HSE-RLW

Product Overview

Type:	Recessed Round Lensed Wall Wash
Wattage:	10W, 12W, 16W, 21W
Color Temp:	2700K, 3000K, 3500K, 4000K Signature LED options in 2700K & 3000K
CRI:	90+ typ.
Dimming:	**Wired:** TRIAC & ELV, Hi-lume®, 0-10V, DALI **Wireless:** Lutron Athena RF node, BubblyNet Bluetooth

Certifications

5 year limited warranty AMERLUX LED

Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	Color Temp-CRI
10	556	55.6	3000K-90+
12	686	57.2	3000K-90+
16	946	59.2	3000K-90+
21	1183	57.3	3000K-90+

Data is based on 3000K-90+ 120V IES files available on website.
All wattages and LPW's include 2W for thermal protector.

Electrical Data

	10W		12W		16W		21W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	10	0.08	12	0.10	16	0.13	21	0.18
277V	10	0.04	12	0.04	16	0.06	21	0.08

Electronic constant current LED driver.
Includes themal protector, 2W power consumption.

Hornet® HP Select

Round Lensed Wall Wash

amerlux

PROJECT:	TYPE:

Ordering Information - Housing/Frame

_____ . _____ . _____ . _____ . _____ . _____

1 2 3 4 5 6

1	Model
	For New Construction
	HSE-R-NC *(New Construction)*
	HSE-R-CP *(Chicago Plenum (CCEA) housing)*
	HSE-R-IC *(Insulated Ceiling/air tight, 16W max)*
	For Existing Ceilings
	HSE-R-REM *(Remodeler)*

2	Style
	T trimmed
	TL trimless
	MWK[R] millwork *(for 1/2" - 11/16" ceiling thickness)*
	MWK1[R] millwork *(for 3/4" - 1-1/2" ceiling thickness)*
	MWK2[R] millwork *(for 1-1/2" - 2" ceiling thickness)*
	[R]Not available for use with Remodeler model

3	Wattage
	10
	12
	16
	21*
	**** Not available for use with IC housing***

4	Voltage
	120
	277
	120/277 *(for use with IC housing only)*

5	Driver *(for non-dimming, select LE/TE option)*
	Wired
	LE/TE TRIAC/ELV dimming
	HILUME-H-ECO - Lutron LDE1 Hi-lume®, 1% dim, Soft-On/Fade-to-Black
	0-10V[T24] 0-10V dimming, 1% dim
	DALI DALI dimming, 1% dim
	Wireless
	AWNR-010* Lutron Athena wireless node, RF only, 0-10V
	BN-BT-010* BubblyNet Bluetooth node, 0-10V
	**** Consult factory for lead time.***

6	Options/Accessories
	HB49 - hanger bars from min 29" to max 49" *(not available for use with REM options)*
	Note: 26" hanger bars are included as standard. Choose HB49 option above for larger mounting spaces only.

Ordering Information - Trim

HSE-RLW _____ . _____ . _____ . _____

1 2 3 4

1	Model
	HSE-RLW *(lensed wall wash)*

2	Style
	T trimmed
	TL trimless
	MWK millwork

3	Finish	
	Trimmed	Trimless/Millwork
	MBW matte black, white flange	**MB** matte black
	MWW matte white, white flange	**MW** matte white
	SLVW matte silver, white flange	**SLV** matte silver
	MBB matte black, black flange	
	SLVS matte silver, silver flange	

4	Color Temp	
	279 2700K-90+	**SA27** Signature Ambiance 2700K-90+
	309 3000K-90+	**SA30** Signature Ambiance 3000K-90+
	359 3500K-90+	**SW30** Signature White 3000K-90+
	409 4000K-90+	**SC30** Signature Color 3000K-90+

Hornet® HP Select

Round Lensed Wall Wash

PROJECT:	TYPE:

Specifications

Application

Retail and commercial wall wash lighting

Construction

20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets *(not for Remodeler version)*
Cast aluminum plaster frame with perforated face *(for trimless version only)*
Die-cast optical housing and trim
Die-cast heat sink

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K
Signature Ambiance, White, and Color options available *(see below)*
CRI: 90+ typ.
R9 Values: 55 *(92 CRI)*
Binning: 3 MacAdam *(SDCM)*
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Signature Ambiance *(2700K & 3000K): A refined, warm light recipe ideal for hospitality, residential-style commercial spaces, and retail. It accentuates woods, textiles, bronze, and darker finishes, creating a relaxed and inviting luxury environment.*

Signature White *(3000K): A premium white option built for crisp displays, clean architectural finishes, and retail settings. It enhances white surfaces and visual clarity, ensuring whites read brighter without sacrificing refinement.*

Signature Color *(3000K): A vibrant, color-enhancing option designed for spaces where merchandise, fabrics, and finishes need to stand out. It heightens the contrast between colors and whites, delivering deeper, richer presentations for dynamic retail and hospitality experiences.*

Electrical

Wattage: 10W, 12W, 16W, 21W
Electronic constant current LED driver, 120/277VAC input
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.
Note: *Drivers are universal but thermal protector is voltage specific*

Drivers

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase
0-10V, Lutron and DALI systems available
See pages 10-12 for more dimming information

Finish

Powder coat paint/wet paint
Consult factory for custom finishes

Mounting

26" Hanger bars included *(except for Remodeler versions)*
Optional **HB49** - hanger bars from min 29" to max 49" available
Trimmed Fixture:
For use in grid or sheetrock ceilings, 5/8" - 2" standard
Trimless Fixture ***(not available with Shower trim)***:
For use in sheetrock ceilings, max ceiling thickness 5/8"
Millwork Fixture:
Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. Max thickness 2"
Not available for use with Remodeler model

Certifications

CSA damp as tested to UL 1598 standards
CP - Chicago Plenum *(CCEA)* option
IC/AT rated *(16W max)*
Damp location

Warranty

5 year limited warranty

Optional 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, the most advanced digital wireless communication available today. Integrated into Amerlux products.

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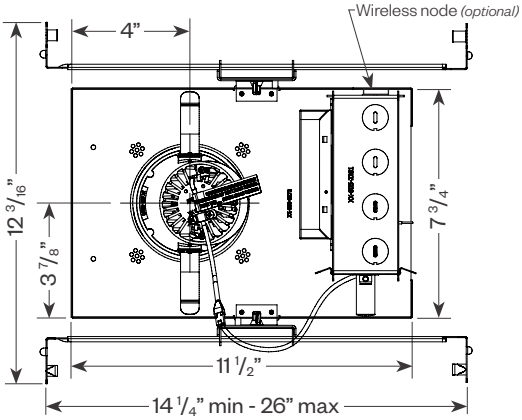
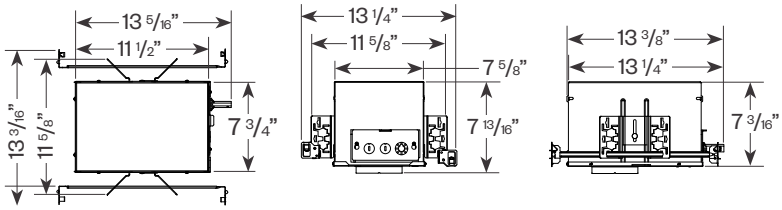
Round Lensed Wall Wash

PROJECT:	TYPE:

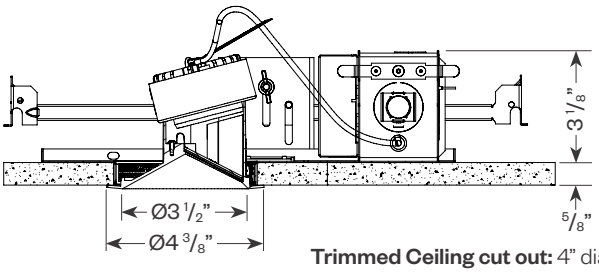
Product Details

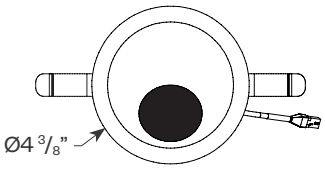


Optional CP or IC/AT housing



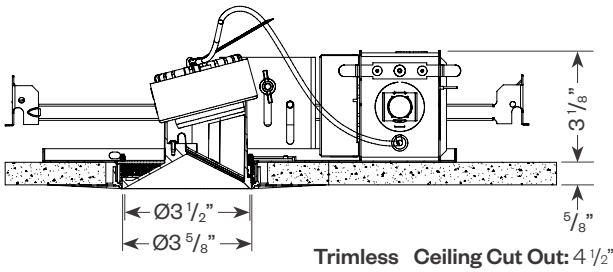
Trimmed

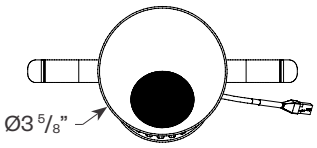




Trimmed Ceiling cut out: 4” dia.

Trimless

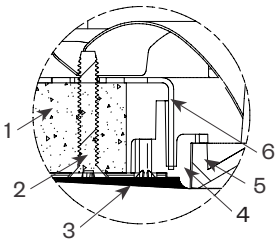




Trimless Ceiling Cut Out: 4 1/2” dia.

Plaster Frame Installation Detail *(for trimless fixture only)*

1. Ceiling 5/8”
2. 6-32 Type F Thread Cutting Screw
3. Plaster Skim Coat *(by others)*
4. Cast Aluminum Plaster Frame
5. Reflector Trim
6. Aperture plate

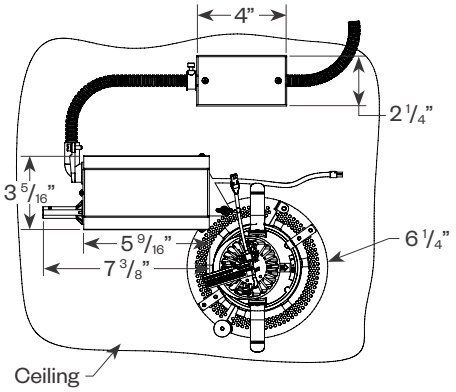


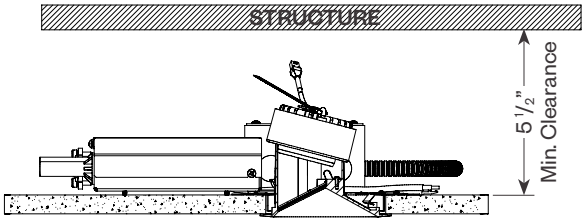
Hornet® HP Select

Round Lensed Wall Wash

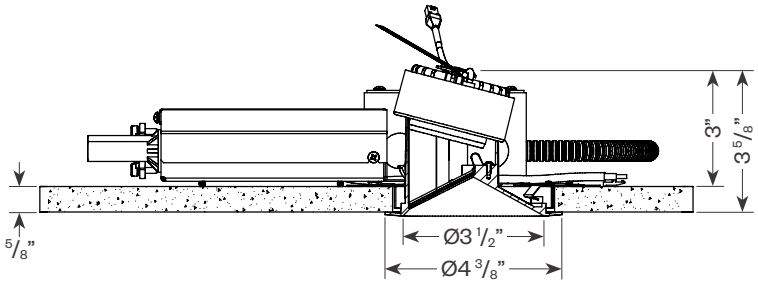
PROJECT:	TYPE:

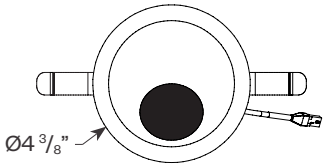
Product Details - Remodeler





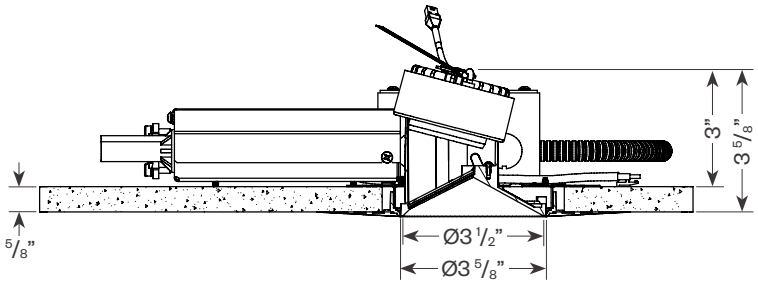
Trimmed

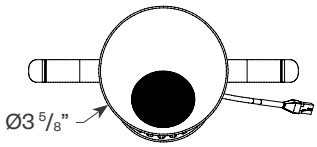




Trimmed Ceiling cut out: 4” dia.

Trimless

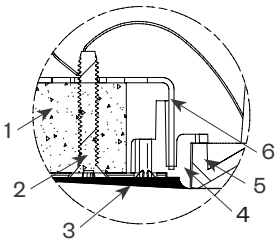




Trimless Ceiling Cut Out: 4 1/2” dia.

Plaster Frame Installation Detail *(for trimless fixture only)*

1. Ceiling 5/8”
2. 6-32 Type F Thread Cutting Screw
3. Plaster Skim Coat *(by others)*
4. Cast Aluminum Plaster Frame
5. Reflector Trim
6. Aperture plate



Hornet® HP Select

Round Lensed Wall Wash

PROJECT:	TYPE:

Performance Data

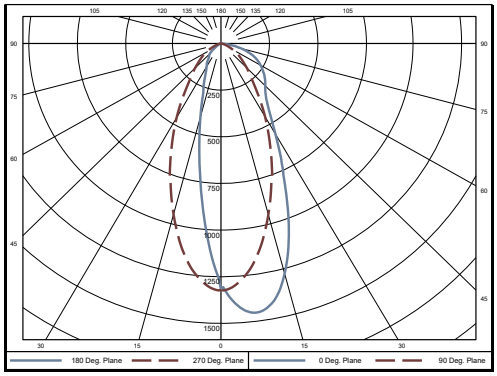
Multiplying Factors: *(Multiplying Factor is based on 3000K-90+ 120V IES file on website)*

Wattage:	10W	12W	16W	21W
Factor:	0.47	0.58	0.80	1.0

CCT:	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	1.005	1.000	1.016	1.029

21W LED, 3000K-90+

HSE-HP-RLW
LTL # 15519638.02
Lumens: 1183 lm



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	799	67.5
0-60	1060	89.6
0-90	1183	100.0
90-180	0	0.0

Luminaire Efficacy: 57.3 lm/W

Application Data

Footcandles on Wall

Footcandles are average and rounded off. Data for multiple units are based on a minimum of five units.

1.5 Feet from Wall (1.5′ 1.5′)

Distance from ceiling					
0.5′	62	64	64	64	61
1.5′	87	92	93	92	87
2.5′	67	72	73	71	67
3.5′	52	56	57	56	53
4.5′	39	42	44	43	39
5.5′	29	32	33	32	29
6.5′	22	24	25	24	22
7.5′	17	19	19	19	17

1.5 Feet from Wall (2′ 2′)

Distance from ceiling							
0.5′	46	51	46	51	45	51	45
1.5′	66	72	69	73	69	71	66
2.5′	52	56	56	57	56	56	52
3.5′	41	44	45	46	45	44	41
4.5′	31	34	35	35	35	34	32
5.5′	23	26	26	27	26	26	24
6.5′	18	20	21	21	21	20	18
7.5′	14	16	16	17	16	16	15

2 Feet from Wall (2′ 2′)

Distance from ceiling							
0.5′	28	31	30	31	30	31	29
1.5′	51	55	55	56	55	55	51
2.5′	44	47	48	49	48	47	44
3.5′	36	39	40	41	40	39	36
4.5′	30	33	34	34	34	33	30
5.5′	25	27	28	28	28	27	25
6.5′	20	22	23	23	23	22	20
7.5′	17	18	19	19	19	18	17

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PROJECT:	TYPE:

Dimming Compatibility

Amerlux® Hornet® 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 ---

TRIAC *(Forward Phase)* DIMMING *(Standard)*

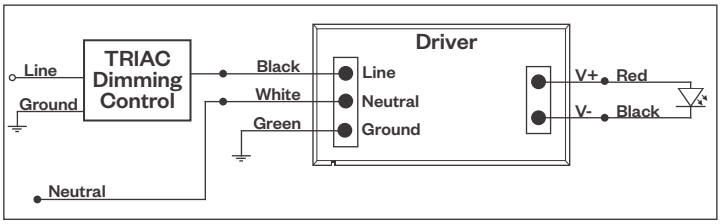
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers†:	
Wall Box *(TRIAC 120VAC)*	**Central System**
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

TRIAC Wiring Diagram



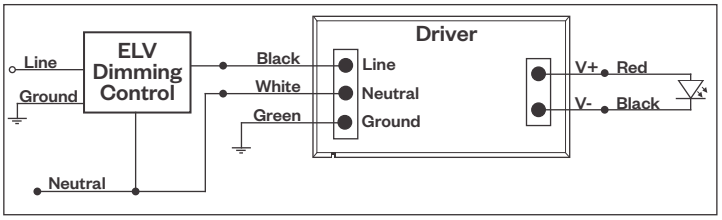
ELV - Electronic Low Voltage *(Reverse Phase)* DIMMING *(Standard)*

Utilizes specialized "ELV" dimmers.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

ELV Wiring Diagram



Compatible Dimmers†:		
Wall Box *(ELV 120VAC)*	**Wall Box** *(ELV 277VAC)*	**Central System**
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

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.

Hornet® HP Select

Round Lensed Wall Wash

PROJECT:	TYPE:

Dimming Compatibility *(continued)*

Amerlux® Hornet® 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 ---

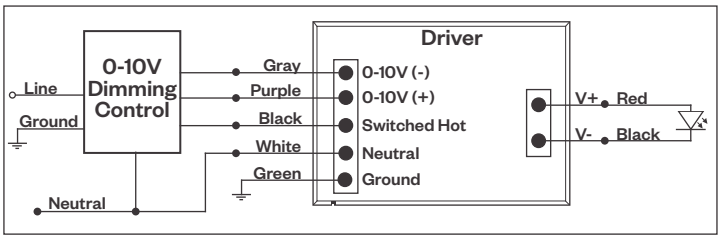
0-10V DIMMING

Integrates into a variety of building management and daylighting controls

Notes:

- 120VAC or 277VAC*
- 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 "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

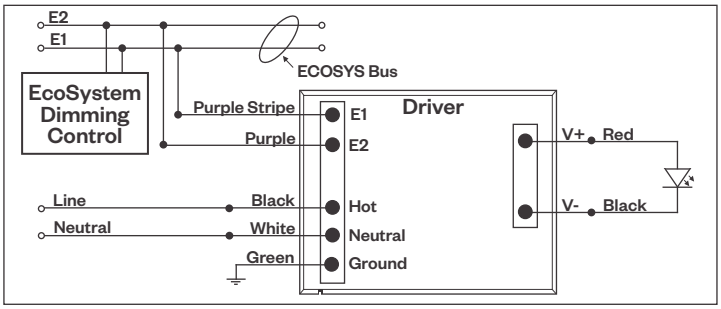
LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- 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	

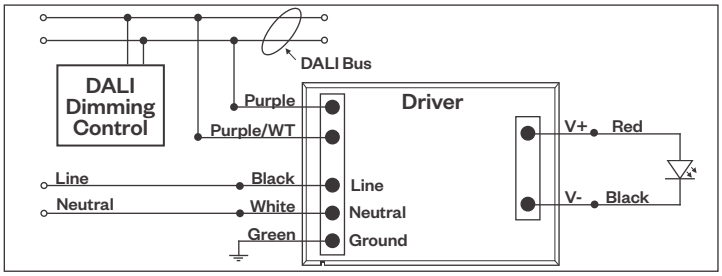
DALI DIMMING

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 *(3-Wire Fluorescent)*	**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.