Hornet® HP
3.5" Round Surface Canopy

amerlux

PROJECT:	TYPE:

HDL-HP-RSC

Product Overview

Type:	Round Surface Accent & Display
Wattage:	13W, 18W, 20W, 22W
Color Temp:	2200K, 2700K, 3000K, 3500K, 4000K
CRI:	83 typ. *(2700K, 3000K, 3500K, 4000K)*
	90+ typ. *(2200K, 2700K, 3000K, 3500K, 4000K)*
	CrispWhite & 3K Class A LED's available
Dimming:	TRIAC & ELV 5% Dim, 120/277VAC
	Lutron LDE1 Hi-lume®, % Dim Soft-On/Fade-to-Black, 120/277VAC
	0-10V, 1% Dim, 120/277VAC
	DALI, 1% Dim, 120/277VAC

Certifications

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

Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
13	1030	79.2	8,243	3000K-83
18	1451	89.6	11,610	3000K-83
20	1640	86.3	13,119	3000K-83
22	1785	80.4	14,280	3000K-83

Data is based on 3000K-83 120V IES files available on website.
Data is based on Spot optic. See pg 6 for other beam spreads.

Electrical Data

Voltage	13W		18W		20W		20W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	13	0.11	16.2	0.14	19	0.16	22.2	0.19
277V	13	0.05	16.2	0.06	19	0.07	22.2	0.08

Electronic constant current LED driver.

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LIT-2095 • 12/20/24 • Page 1 of 8

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PROJECT:	TYPE:

Ordering Information - Housing/Frame

_____ . T . _____ . _____ . _____ . _____
   1   **2**   **3**   **4**   **5**   **6**

1 Model

For New Construction

HDL-HP-R-NC-A17 *(New Construction)*

HDL-HP-R-CP-A17 *(Chicago Plenum (CCEA) housing)*

HDL-HP-R-IC-A17 *(Insulated Ceiling/air tight, 13W & 18W only)*

For Existing Ceilings

HDL-HP-R-REM-A17 *(Remodeler)*

2 Style

T trimmed

3 Wattage

13

18

20 *(not available for use with IC housing)*

22 *(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)*

LE/TE TRIAC/ELV dimming

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

0-10V 0-10V dimming, 1% dim

DALI DALI dimming, 1% dim

6 Options/Accessories

EM emergency battery pack with remote test switch *(not available for use with REM, CP or IC options)*

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

HDL-HP-RSC-A17 . __T__ . _____ . _____ . _____ . _____
   1   **2**   **3**   **4**   **5**   **6**

1 Model

HDL-HP-RSC-A17

2 Style

T trimmed

3 Finish

WT white texture

BT black texture

ST silver texture

Other finishes, consult factory

4 Beam Spread

SP spot, 15°

NF narrow flood, 22°

MFL medium flood, 25°

FL flood, 28°

WF wide flood, 40°

VWF very wide flood, 60°

LS linear spread lens, 60° x 10°

5 Color Temp

83 CRI	90+ CRI	
27 2700K-83	**229*** 2200K-90+	**CRISP*** CrispWhite
30 3000K-83	**279** 2700K-90+	**3CLA*** 3K Class A
35 3500K-83	**309** 3000K-90+	
40 4000K-83	**359** 3500K-90+	
	409 4000K-90+	

***Not available for 20W or 22W**

6 Options/Accessories

SNAH snoot accessory holder, 1" length, matte black interior, exterior finish matches fixture finish, accepts cross blade plus 2 additional forms of media

AH accessory holder, finish matches fixture finish, accepts 2 forms of media

HEX hexcell louver, 1/8"x1/8" *(requires SNAH or AH)*

SOL solite beam softening lens *(requires SNAH or AH)*

CB cross blade, matte black finish *(requires SNAH)*

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LIT-2095 • 12/20/24 • Page 2 of 8

Hornet® HP
3.5" Round Surface Canopy

PROJECT:	TYPE:

Specifications

Application
Retail and commercial accent and display lighting

Construction
20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets *(not for Remodeler version)*
Die-cast optical housing
Extruded aluminum and die-cast heat sink

Optical
0-180º tilt, 360º rotation
Beam Spreads: Spot, 15º; Narrow Flood, 22º; Medium Flood, 25°;
Flood, 28º; Wide Flood, 40º; Very Wide Flood, 60º;
Linear Spread, 60° x 10°

LED
Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K,
CRISP, Class A
CRI: 83 typ. *(2700K, 3000K, 3500K, 4000K)*
90+ typ. *(2200K, 2700K, 3000K, 3500K, 4000K)*
CrispWhite* LED, 16W max
Class A** 3000K LED *(high CRI, high gamut)*, 16W max
R9 Values: 11 *(83 CRI)*, 55 *(92 CRI)*
Binning: 3 MacAdam *(SDCM)*
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

  * *CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.*

  ** *Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

Electrical
Wattage: 13W, 18W, 20W, 22W
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.

Driver
LE/TE - Leading Edge *(Triac, Forward Phase)* or Trailing Edge *(ELV, Reverse Phase)*
0-10V, Lutron and DALI systems also available
See pages 8-9 for more dimming information

Finish
Powder coat paint
Consult factory for custom finishes

Mounting
For use in T-Grid or GB ceilings; max ceiling thickness 1"
26" Hanger bars included *(except for Remodeler versions)*
Optional **HB49** - hanger bars from min 29" to max 49" available
Consult Factory for thicker ceilings

Certifications
CSA damp as tested to UL 1598 standards
IC/AT rated *(optional, not for Remodeler version)*

Warranty
5 year limited warranty

Emergency Battery Pack *(EM)*
Powers fixture at 5.1 watts *(approx. 400 Lm)* for 90 minutes *(not for use with REM, CP or IC/AT versions)*

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LIT-2095 • 12/20/24 • Page 3 of 8

Hornet® HP

3.5" Round Surface Canopy

PROJECT: **TYPE:**

Product Details

Hornet HP Round Surface Canopy

11 1/2"
3 7/8"
7 3/4"
11 15/16"
4"
7 1/2"
14 1/2" min - 26" max
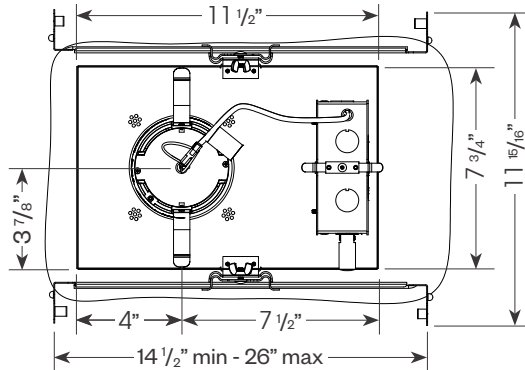
Emergency Battery Pack (EM) option

12 5/16"
6"

Optional CP or IC/AT housing (13W & 18W only)

4 3/16"
5/8"
4 1/8"
3 5/16"
Ø2 1/4"
Ø4 3/8"

Ceiling cut out: 4" dia.

90°   90°
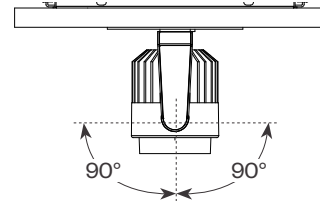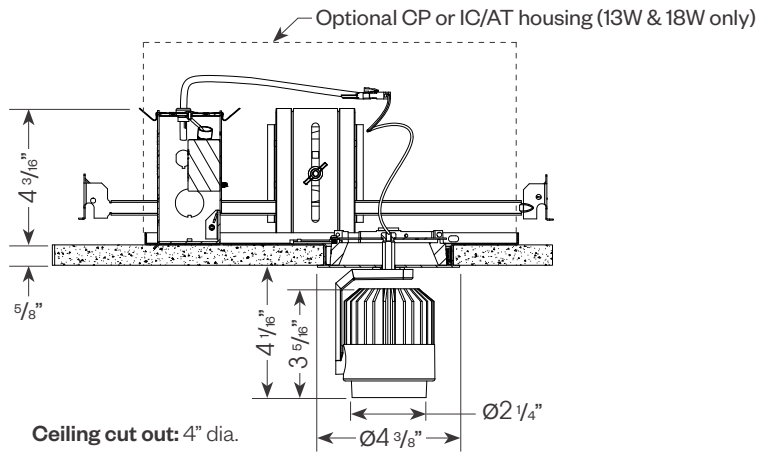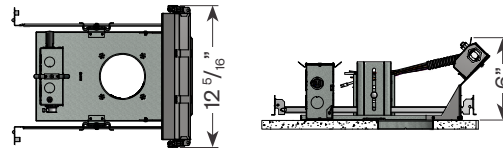
Hornet® HP

3.5" Round Surface Canopy

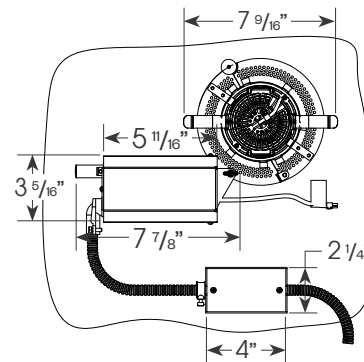**PROJECT:** **TYPE:**

Product Details *(continued)*

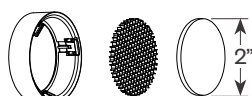**Hornet HP Round Surface Canopy Remodeler**

ELV/Triac Driver

Ceiling

Ø6 1/4"

2 1/4"

9 1/4"

10 11/16"

Hi-lume®/0-10V Driver

7 9/16"

5 11/16"

3 5/16"

7 7/8"

2 1/4"

4"

Ceiling cut out: 4" dia.

15 1/16"

2 1/2"

5/8"

4 1/16"

Ø2 13/16"

Ø4 3/8"

90° 90°
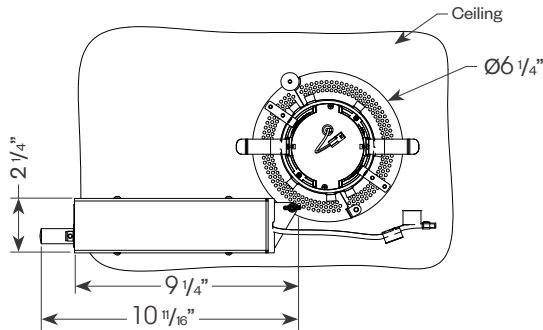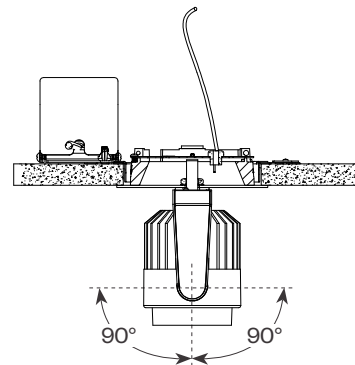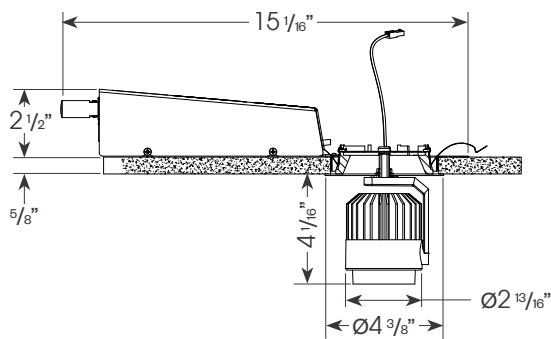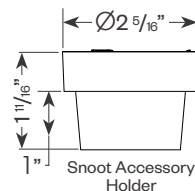
Accessories

Accessory Holder

Hexcell Louver

Solite Lens

2"
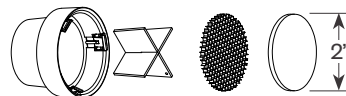
Snoot Accessory Holder

Cross Blade

Hexcell Louver

Solite Lens

2"

Ø2 5/16"

1 11/16"

1"

Snoot Accessory Holder

Ø2 5/16"

11/16"

Accessory Holder

Ø2 5/16"

9/16"

Bezel (standard)

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LIT-2095 • 12/20/24 • Page 5 of 8

Hornet® HP
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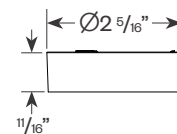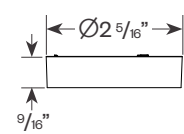
PROJECT:	TYPE:

Performance Data

Multiplying Factors: *(Multiplying Factor is based on 3000K-83 120V IES file on website)*
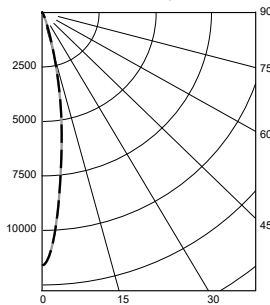
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	13W	18W	20W	22W
Factor:	0.71	1.0	1.13	1.23

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA*
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.70

* Not available for use with 18W or 20W

18W LED, 3000K-83

Spot (SP) Distribution, 15°
LTL #14346087.01
Lumens: 1,451

Candelas at Nadir

Deg	Candela
0	11610
5	8378
15	1825
25	257
35	86
45	31

Narrow Flood (NF) Distribution, 22°
LTL #14346087.02
Lumens: 1,390
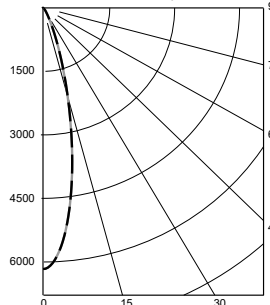
Candelas at Nadir

Deg	Candela
0	6167
5	5391
15	2012
25	426
35	119
45	52

Flood (FL) Distribution, 28°
LTL #14346087.04
Lumens: 1,370
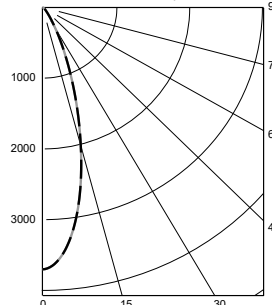
Candelas at Nadir

Deg	Candela
0	3703
5	3440
15	1925
25	651
35	179
45	67

Wide Flood (WF) Distribution, 40°
LTL #14346087.05
Lumens: 1,374
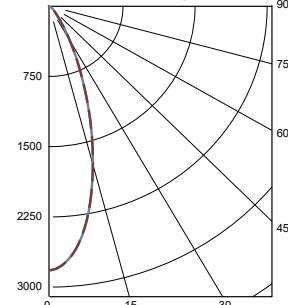
Candelas at Nadir

Deg	Candela
0	2820
5	2674
15	1750
25	763
35	248
45	86

Application Data

Notes and Definitions:

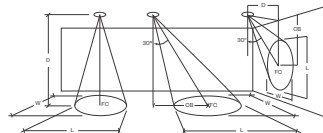Beam spread is to 50% center beam candlepower *(CBCP)*.
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet *(50% of maximum footcandle level)*.
W=Effective Visual Beam width in feet *(50% of maximum footcandle level)*.
CB=Distance across or down to center beam location.

		0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
		D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
Spot		5.0'	463	1.4	1.4	5.0'	213	2.3	2.2	3.0	3.0'	135	3.4	2.2	5.0	3.0'	403	1.8	1.6	2.0
		7.5'	206	2.1	2.1	7.5'	110	3.3	2.9	4.0	4.0'	87	4.2	2.6	6.0	4.0'	295	2.1	1.8	2.0
		10.0'	116	2.9	2.9	10.0'	64	4.3	3.7	5.0	5.0'	58	5.2	3.2	8.0	5.0'	205	2.5	2.2	3.0
		12.5'	74	3.6	3.6	12.5'	44	5.1	4.5	7.0	6.0'	42	6.2	3.6	9.0	6.0'	152	2.8	2.5	3.0
Narrow Flood		5.0'	247	1.9	1.9	5.0'	133	2.9	2.7	3.0	3.0'	97	3.7	2.4	4.0	3.0'	280	2.1	1.8	2.0
		7.5'	110	3.0	3.0	7.5'	67	4.0	3.6	4.0	4.0'	57	4.8	3.1	5.0	4.0'	201	2.4	2.2	2.0
		10.0'	62	3.9	3.9	10.0'	40	5.2	4.6	5.0	5.0'	39	5.7	3.6	7.0	5.0'	131	3.0	2.7	3.0
		12.5'	40	5.0	5.0	12.5'	26	6.4	5.7	6.0	6.0'	28	6.9	4.3	8.0	6.0'	99	3.4	3.0	3.0
Flood		5.0'	168	2.5	2.5	5.0'	86	3.6	3.2	2.0	3.0'	70	3.9	2.9	4.0	3.0'	194	2.4	2.2	2.0
		7.5'	72	3.7	3.7	7.5'	42	5.0	4.6	4.0	4.0'	43	5.1	3.5	5.0	4.0'	138	2.8	2.7	2.0
		10.0'	40	5.0	5.0	10.0'	25	6.5	5.9	5.0	5.0'	28	6.2	4.4	6.0	5.0'	87	3.6	3.2	2.0
		12.5'	25	6.3	6.3	12.5'	16	8.2	7.4	6.0	6.0'	20	7.5	5.2	7.0	6.0'	65	4.0	3.7	3.0
Wide Flood		5.0'	113	3.0	3.0	5.0'	71	3.9	3.5	2.0	3.0'	60	4.1	3.1	3.0	3.0'	156	2.7	2.5	2.0
		7.5'	50	4.5	4.5	7.5'	34	5.5	5.1	2.0	4.0'	36	5.3	3.9	4.0	4.0'	110	3.1	3.0	2.0
		10.0'	28	6.0	6.0	10.0'	19	7.4	6.8	5.0	5.0'	24	6.4	4.8	5.0	5.0'	72	3.9	3.5	2.0
		12.5'	18	7.5	7.5	12.5'	13	9.1	8.4	6.0	6.0'	17	7.7	5.7	7.0	6.0'	52	4.5	4.2	3.0

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3.5" Round Surface Canopy

amerlux

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**
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

TRIAC Wiring Diagram
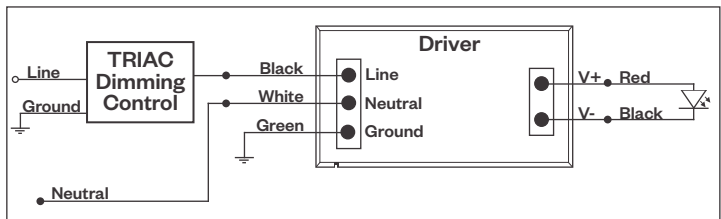
Compatible Dimmers†:

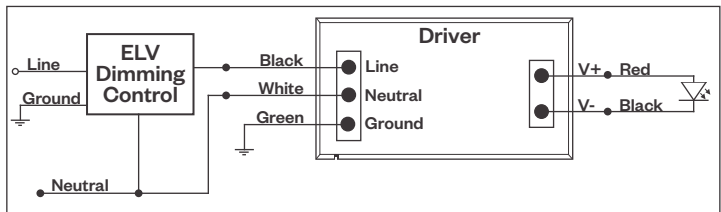| Wall Box *(TRIAC 120VAC)*	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

ELV - Electronic Low Voltage *(Reverse Phase)* **Dimming**
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.

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LIT-2095 • 12/20/24 • Page 7 of 8

Hornet® HP
3.5" Round Surface Canopy

amerlux

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 ---
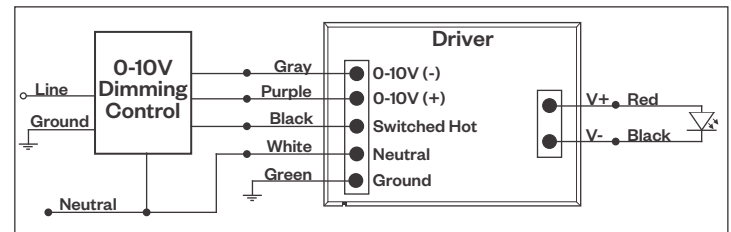
0-10V Dimming
Integrates into a variety of building management and daylighting controls

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% Soft-On/Fade-to-Black
- EcoSystem Control
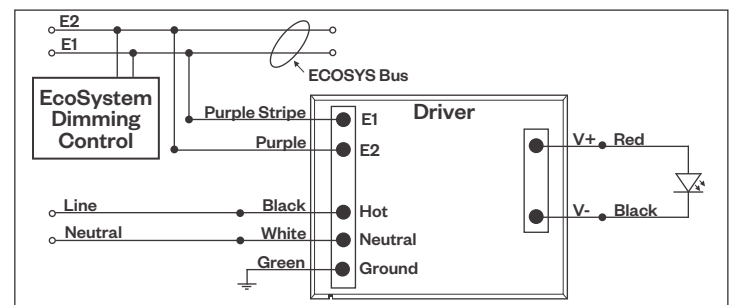- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

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 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.