

Features

The Hornet 3.5" Square Glass Downlight helps define architectural spaces with a decorative, satin opal, etched glass cylinder that breaks the ceiling plane, providing a warm glow ideal for ambient and task lighting.

Product Overview

| Type: Wattage: Color Temp: CRI: | Recessed Square Downlight 13, 18, 20 2200K, 2700K, 3000K, 3500K, 4000K, CRISP 83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K) CrispWhite (18W max) & 3K Class A available |
|--|--|
| Dimming: | TRIAC & ELV (120/277VAC) - 5% Dim Lutron Hi-lume® H Series/EcoSystem - 1% dim with soft on, fade to black, 120/277VAC 0-10V (120/277VAC) - 1% Dim DALI (120/277VAC) - 1% Dim |

PROJECT:

TYPE:

Fixture Type

| Round/Square | New Construction | Trim | | |
|--|------------------|------|--|--|
| Yes | Yes | Yes | | |
| See separate spec sheet for Round trim | | | | |

See separate spec sheet for Round trim

Electrical Data

| | 13 | w | 18\ | N | 20W | |
|------|-----------------|------|-----------------|------|-----------------|------|
| | System Watts | Amps | System Watts | Amps | System Watts | Amps |
| 120V | 13 | O.11 | 18 | 0.15 | 20 | 0.17 |
| 277V | 13 | 0.05 | 18 | 0.06 | 20 | 0.07 |

Electronic constant current LED driver



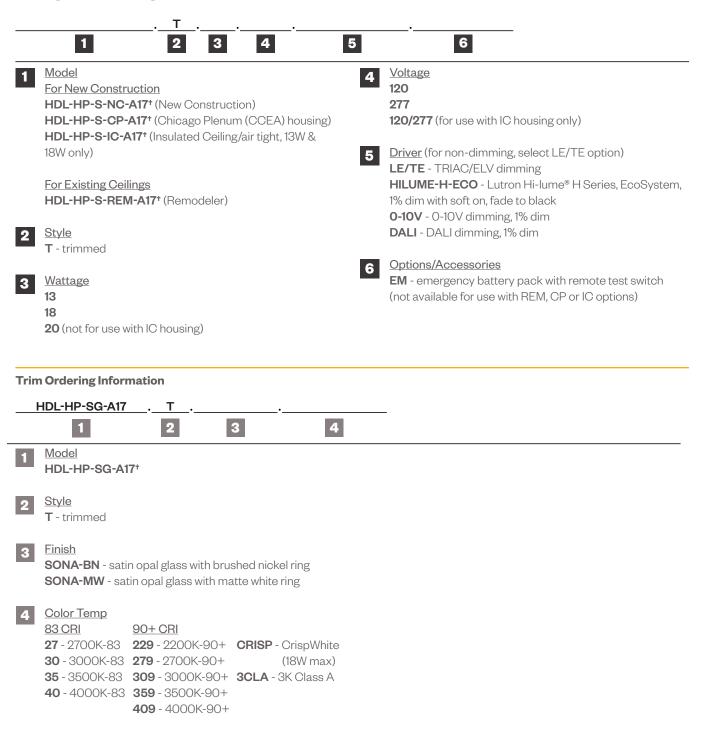


PROJECT:



TYPF:

Housing/Frame Ordering Information



* 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:

Specifications

Application

Retail and commercial decorative ambient lighting

Construction

20 ga. galvanized steel frame 18 ga. galvanized steel splice housing and hanger brackets (not for Remodeler version) Die-cast optical housing Laser cut steel trim Extruded aluminum and die-cast heat sink Blow molded satin opal etched glass

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K CRI: 83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K) CrispWhite* LED available, 18W max Class A** 3000K (high CRI, high gamut)

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: 13, 18, 20

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

TYPF

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase O-10V, Lutron and DALI systems also available See pages 6-8 for more dimming information

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Finish

Powder coat paint/wet paint Consult factory for custom finishes

Mounting

For use in T-grid or sheetrock ceilings, 5/8" - 2" standard 26" Hanger bars included (except for Remodeler versions) Consult factory for hanger bars greater than 26"

Certifications

CSA damp as tested to UL 1598 standards IC/AT rated (optional) Damp location

Warranty

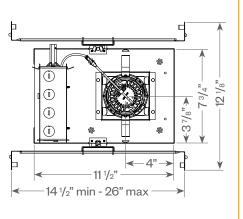
5 year limited warranty

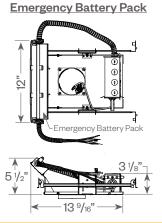
Emergency Battery Pack (EM)

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

PROJECT:



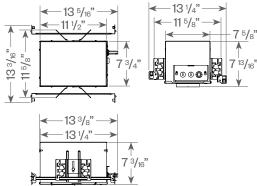




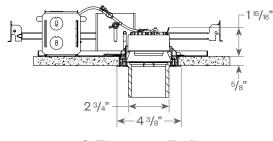
2⁹/16'

Frame with



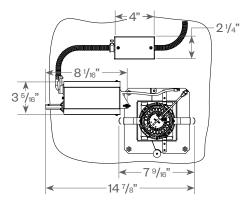


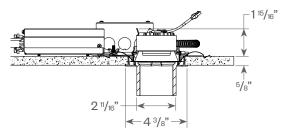
2 1/8"



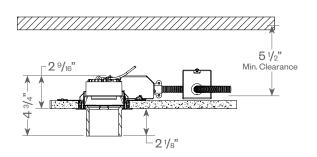








Ceiling cut out: 4" sq.





PROJECT:

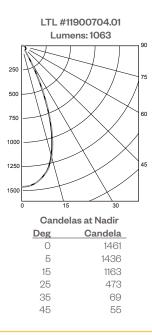


TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

| MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website) | | | | | | | | | | | |
|---|----------|------|----------|----|--------|------|-----------|----------|----|-------|------|
| Wattag | e: 13W | 180 | V 20W | | | | | | | | |
| Factor | : 0.72 | 1.0 | 1.11 | | | | | | | | |
| CCT: | 2700K-8 | 83 3 | 3000K-83 | 35 | DOK-83 | 4000 | DK-83 | | | | |
| Factor: | 0.96 | | 1.0 | | 1.02 | 1.(| 04 | | | | |
| CCT: | 2200K- | 90+ | 2700K-9 | 0+ | 3000K | -90+ | 3500K-90+ | 4000K-90 |)+ | CRISP | 3CLA |
| Factor: | 0.71 | | 0.80 | | 0.8 | 3 | 0.87 | 0.90 | | 0.65 | 0.75 |
| | | | | | | | | | | | |

18W LED, 3000K-83

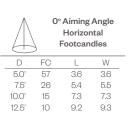


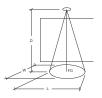
Application Data:

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.





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)

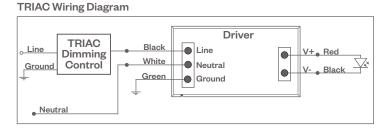
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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 "Vareo" | |
| Lutron "Skylark" | |



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

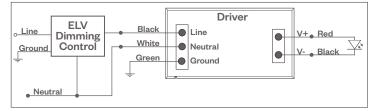
Utilizes specialized "ELV" dimmers.

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

ELV Wiring Diagram



Compatible Dimmers*:

| oompatible birniners . | | |
|------------------------|---------------------------|--|
| 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 "Vareo" | | |
| Lutron "Skylark" | | |
| Leviton "Surslide" | | |
| Leviton "Vizio" | | |

Notes:

* The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

^{*} Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer manufacturer installation instructions for 277VAC wiring diagrams.

PROJECT:

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. Ameriux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

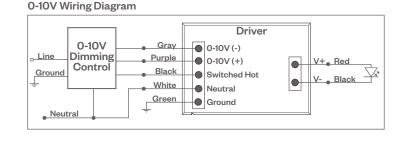
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0-10V DIMMING

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!



Compatible Dimmers⁺:

Wall Box

| Wall Box | | Central System |
|---|-------------------------|--|
| Lutron "Diva" - DVTV with PP-120H Interface | Leviton Renoir II 0-10V | Lutron Grafik Eye with GRX-TVI Interface |

LUTRON H-SERIES / ECOSYSTEM DIMMING

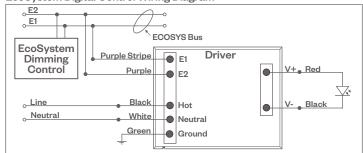
Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

HILUME-H-ECO, HILUME-5-ECO

EcoSystem Digital Control Wiring Diagram



Compatible Dimmers⁺:

| Central System |
|--------------------------------------|
| Lutron EcoSystem compatible controls |
| |
| |
| |
| |
| |
| |

DALI DIMMING

Digital control protocol allows individual fixture control

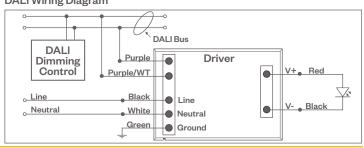
Notes:

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

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 manufacturer 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.

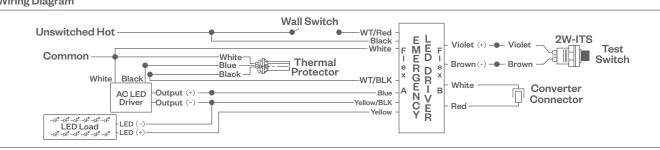


PROJECT:

TYPE:

EMERGENCY DIMMING (-EM OPTION)

Wiring Diagram



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