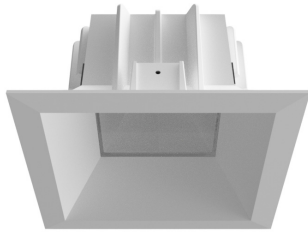


Hornet® HP Select

Square Lensed Downlight



HSE-S-LD.T (trimmed)

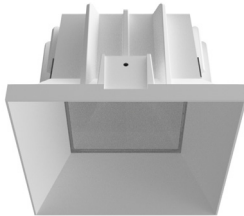
Features

The Hornet HP Select square downlight series provides powerful yet comfortable ambient lighting for retail and commercial spaces without compromising on budget or design. It delivers over 2,300 lumens in a 75-degree distribution and features Solite lensing for visually pleasing aesthetics. The Hornet HP Select offers trimmed, trimless, or millwork trim options and can easily integrate into current Hornet downlight platforms, making it perfect for both retrofit and new construction projects.

Product Overview

- Type: Recessed Round Lensed Downlight
- Wattage: 9, 12, 16, 23
- Color Temp: 2700K, 3000K, 3500K, 4000K
- CRI: 83 typ. or 90+ typ.
- Dimming: TRIAC & ELV (120/277VAC) - 5% Dim
Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black (120/277VAC)
0-10V (120/277VAC) - 1% Dim
DALI (120/277VAC) - 1% Dim

PROJECT:



HSE-S-LD.TL (trimless)

TYPE:



HSE-S-LD.MWK (millwork)

Performance Chart

| Watts | Delivered Lumens | LPW | CBCP | Color Temp |
|-------|------------------|-------|------|------------|
| 9 | 924 | 102.6 | 560 | 3000K-83 |
| 12 | 1232 | 102.6 | 747 | 3000K-83 |
| 16 | 1635 | 102.2 | 992 | 3000K-83 |
| 23 | 2369 | 109.3 | 1437 | 3000K-83 |

*Data is based on 3000K-83 IES files available on website
All wattage and LPW includes 2W thermal protector*

Electrical Data

| | 9W | | 12W | | 16W | | 23W | |
|------|--------------|------|--------------|------|--------------|------|--------------|------|
| | System Watts | Amps | System Watts | Amps | System Watts | Amps | System Watts | Amps |
| 120V | 9.8 | 0.08 | 11.9 | 0.10 | 15.2 | 0.13 | 22.8 | 0.19 |
| 277V | 9.8 | 0.04 | 11.9 | 0.04 | 15.2 | 0.06 | 22.8 | 0.08 |

*Electronic constant current LED driver
Includes thermal protector, 2W power consumption*



Hornet® HP Select

Square Lensed Downlight



PROJECT:

TYPE:

Housing/Frame Ordering Information

| 1 | 2 | 3 | 4 | 5 | 6 |
|--|---|---|--|--|---|
| 1 Model <u>For New Construction</u> HDL-HP-S-NC-A17 (New Construction) HDL-HP-S-CP-A17 (Chicago Plenum (CCEA) housing) HDL-HP-S-IC-A17 (Insulated Ceiling/air tight, 16W max) <u>For Existing Ceilings</u> HDL-HP-S-REM-A17 (Remodeler) | 2 Style T trimmed TL trimless MWK ^{R†} millwork (for 1/2"-11/16" ceiling thickness) ^R Not available for use with Remodeler model [‡] Consult factory for use in ceilings thicker than 11/16" | 3 Wattage 9 12 16 23* * Not available for use with IC housing | 4 Voltage 120 277 120/277 (for use with IC housing only) | 5 Driver LE/TE TRIAC/ELV dimming 0-10V 0-10V dimming, 1% dim DALI DALI dimming, 1% dim HILUME-H-ECO Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black | 6 Options/Accessories EM emergency battery pack with remote test switch (not available for use with CP or IC options) HB49 hanger bars from min 29" to max 49" |

Trim Ordering Information

| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | |
|---|--|---|---|--|--------|---------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| HSE-S-LD | 75SOL | | | | | | | | | | | | | |
| 1 Model HSE-S-LD lensed downlight | 2 Style T trimmed TL trimless MWK millwork | 3 Finish <u>Trimmed</u> MBW matte black, white flange MWW matte white, white flange SLVW matte silver, white flange MBB matte black, black flange SLVS matte silver, silver flange | 4 Beam Spread 75SOL 75° beam with solite lens | 5 Color Temp-CRI <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">83 CRI</th> <th style="width: 50%;">90+ CRI</th> </tr> </thead> <tbody> <tr> <td>27 2700K-83</td> <td>279 2700K-90+</td> </tr> <tr> <td>30 3000K-83</td> <td>309 3000K-90+</td> </tr> <tr> <td>35 3500K-83</td> <td>359 3500K-90+</td> </tr> <tr> <td>40 4000K-83</td> <td>409 4000K-90+</td> </tr> </tbody> </table> | 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+ |
| 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+ | | | | | | | | | | | | | |

Hornet® HP Select

Square Lensed Downlight



PROJECT:

TYPE:

Specifications

Application

Retail and commercial ambient 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

Optical

Beam Spread-Lens:
75SOL - 75° beam with solite lens
Visually best with SLV reflector finish.

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. or 90+ typ.
R9 Values: 11 (83 CRI), 55 (92 CRI)
Binning: 3 MacAdam (SDCM)
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Electrical

Wattage: 9, 12, 16, 23
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" max standard

Trimless Fixture:

For use in sheetrock ceilings, max ceiling thickness 5/8" (consult factory for thicker ceilings)

Millwork Fixture:

Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. Ceiling thickness 1/2"-11/16". Consult factory for use in ceilings thicker than 11/16".

Not available for use with Remodeler model

Certifications

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

Hornet[®] HP Select

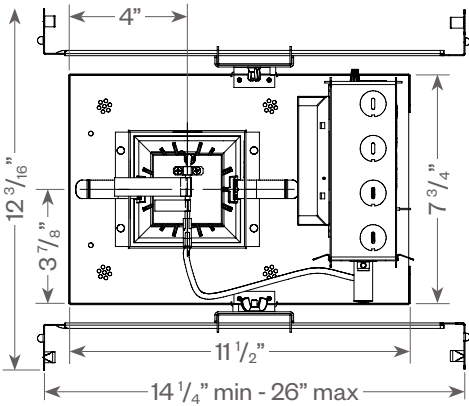
Square Lensed Downlight



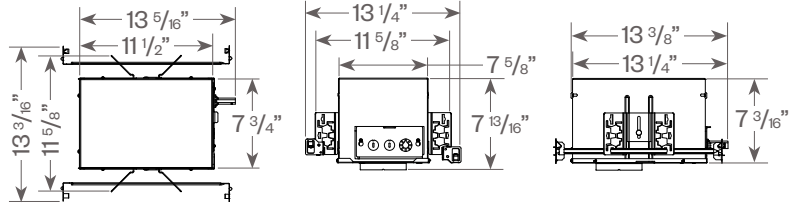
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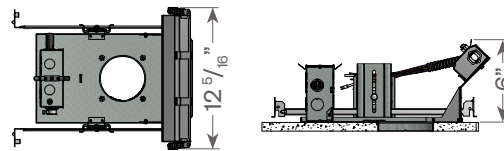
Product Details



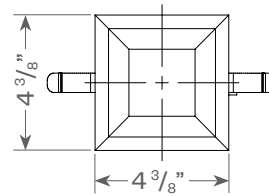
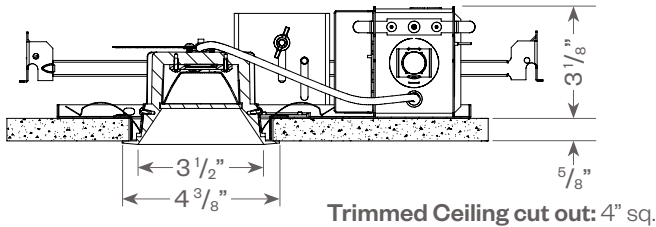
Optional CP or IC/AT housing



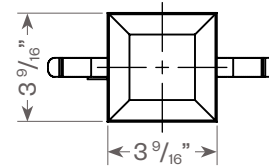
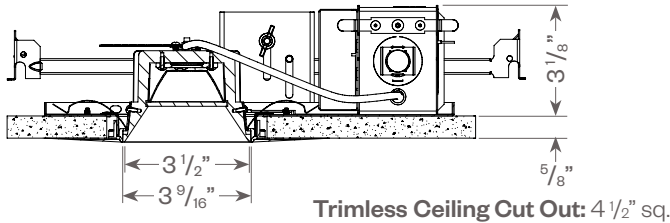
Emergency Battery Pack (EM) option



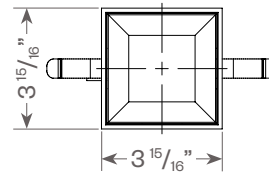
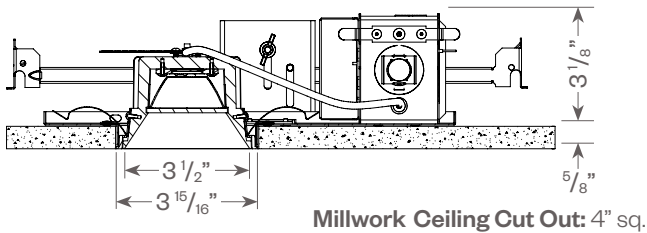
Trimmed



Trimless

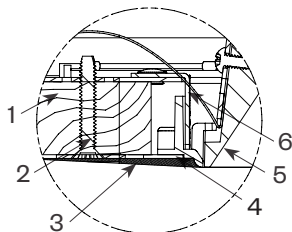


Millwork



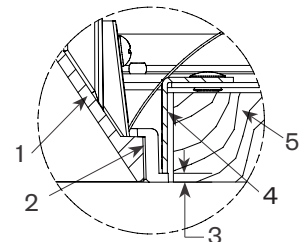
Plaster Frame Installation Detail (for trimless fixture only)

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



Millwork Detail

1. Reflector Trim
2. Millwork Ring
3. 1/16" required for trim to be flush with ceiling
4. Aperture Plate
5. Wood Ceiling



Hornet® HP Select

Square Lensed Downlight



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)

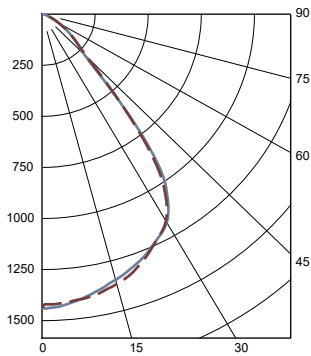
| Wattage: | 9W | 12W | 16W | 23W |
|----------|------|------|------|-----|
| Factor: | 0.39 | 0.52 | 0.69 | 1.0 |

| CCT: | 2700K-83 | 3000K-83 | 3500K-83 | 4000K-83 |
|---------|----------|----------|----------|----------|
| Factor: | 0.96 | 1.0 | 1.02 | 1.04 |

| CCT: | 2200K-90+ | 2700K-90+ | 3000K-90+ | 3500K-90+ | 4000K-90+ | CRISP | 3CLA |
|---------|-----------|-----------|-----------|-----------|-----------|-------|------|
| Factor: | 0.66 | 0.83 | 0.86 | 0.90 | 0.93 | 0.65 | 0.70 |

23W LED, 3000K-83

75° Solite Lens
LTL # 14845017.01
Lumens: 2369 lm; 109.3 lm/W



Candelas at Nadir

| Deg | Candela |
|-----|---------|
| 0 | 1437 |
| 5 | 1422 |
| 15 | 1344 |
| 25 | 1239 |
| 35 | 1000 |
| 45 | 281 |

Application Data

75° Solite Lens

0° Aiming Angle
Horizontal
Footcandles

| D | FC | L | W |
|-------|----|------|------|
| 5.0' | 56 | 6.2 | 6.1 |
| 7.5' | 25 | 9.2 | 9.2 |
| 10.0' | 15 | 12.4 | 12.4 |
| 12.5' | 10 | 16.0 | 16.0 |

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

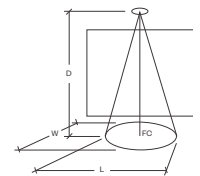
D=Distance to floor or wall.

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.



Hornet[®] HP Select

Square Lensed Downlight



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 ---

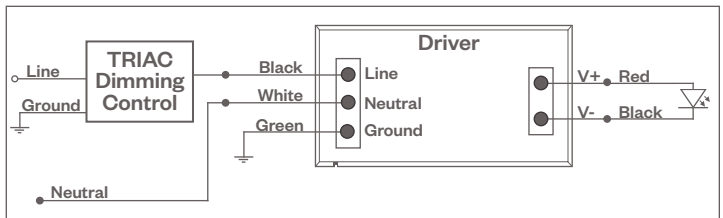
TRIAC (Forward Phase) DIMMING (Standard)

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

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" | |

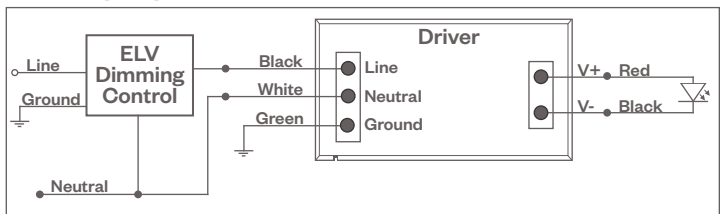
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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†:

| 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 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.

Hornet[®] HP Select

Square Lensed Downlight



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 ---

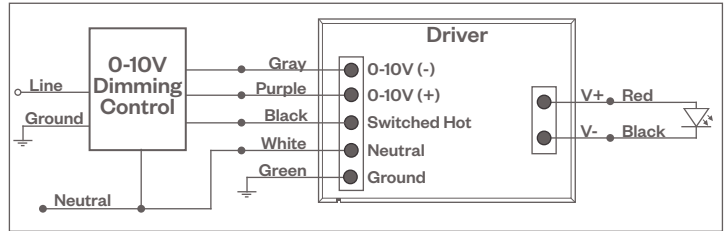
0-10V DIMMING

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

Lutron "Diva" - DVSTV | Leviton Renoir II 0-10V

Central System

Lutron Grafik Eye with GRX-TVI Interface

LUTRON LDE1 DIMMING

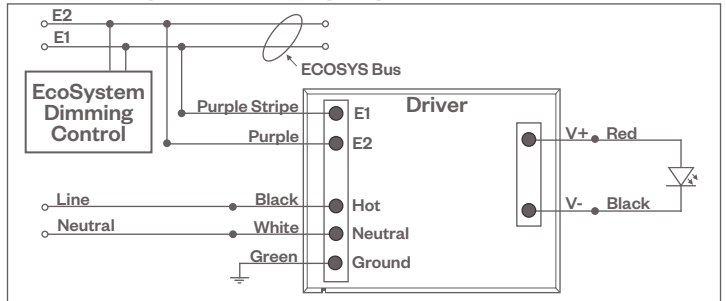
Integrates into Lutron EcoSystem building management

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!

Lutron LDE1 (HILUME-H-ECO)

EcoSystem Digital Control Wiring Diagram



Compatible Dimmers*:

Lutron ECO System

Pow Pak Dimming Modules
Energj Savr Node
Grafik Eye QS/Homeworks
QS Control Unit
Quantum Hub
Homeworks QS/My Room

Central System

Lutron EcoSystem compatible controls

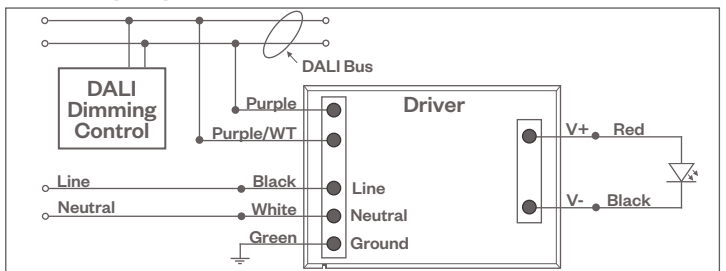
DALI DIMMING

Digital control protocol allows individual fixture control

Notes:

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

DALI Wiring Diagram



Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)

Leviton CD250 Controller

Central System

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.

Hornet[®] HP Select

Square Lensed Downlight



PROJECT:

TYPE:

Emergency Battery Pack

Wiring Diagram

