# Hornet® HP
## Round Downlights

amerlux
Passion. Power. Performance.

Downlight

Adjustable *(Trimless version shown)*

## Features

Small in size but big on performance. The Hornet® downlights deliver the output of the 20W ceramic metal halide, but with the control and crisp color of the MR16 halogen. 3.5" round trim available as a fixed downlight, adjustable, pinhole adjustable or pinhole adjustable slot aperture. Remodeler and Trimless options available.

## Product Overview

| | |
|---|---|
| Type: | Recessed Round Downlight |
| Wattage: | 13, 18, 20 |
| Lumen Output: | 1,323 max; 66 Lm/W (spot optic) |
| CBCP: | 12,508 max (spot optic) |
| Color Temp: | 2200K, 2700K, 3000K, 3500K, 4000K |
| CRI: | 83 typ. (2700K, 3000K, 3500K, 4000K)<br>90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)<br>CrispWhite (18W max) & 3K Class A available |
| Dimming: | TRIAC & ELV (120V/277V) - 5% Dim<br>Lutron Hi-lume® A-Series (120V/277V) - 1% Dim<br>0-10V (120V/277V) - 1% Dim<br>DALI (120V/277V) - 1% Dim |

*International version available, see website for spec sheet.*

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

Pinhole Adjustable

Pinhole Adjustable Shower

Pinhole Adjustable Slot

## Fixture Type

| Round/Square | New Construction | Remodeler | Trim | Trimless |
|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes |

## Performance Chart

| Watts | Delivered Lumens | LPW | CBCP | Color Temp |
|---|---|---|---|---|
| 13 | 794 | 61 | 8,756 | 3000K-83 |
| 18 | 1,191 | 66 | 11,507 | 3000K-83 |
| 20 | 1,323 | 66 | 12,508 | 3000K-83 |

*Data is based on 3000K-83 IES files available on website*
*Data is based on Spot optic. See pages 6-9 for other beam spreads*
*All wattage and LPW includes 2W thermal protector*

## Electrical Data

| | 13W | | 18W | | 20W | |
|---|---|---|---|---|---|---|
| | System Watts | Amps | System Watts | Amps | System Watts | Amps |
| 120V | 13 | 0.11 | 18 | 0.15 | 20 | 0.17 |
| 277V | 13 | 0.05 | 18 | 0.06 | 20 | 0.07 |

*Electronic constant current LED driver*

C US Title 24 Compliant 5 year limited warranty AMERLUX LED



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

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

## Ordering Information

Frame/Housing: _____ . _____ . _____ . _____ . _____ . _____ . _____
1 2 3 4 5 6

Trim: _____ . _____ . _____ . _____ . _____ . _____ . _____
7 8 9 10 11 12

## Frame/Housing

**1** Model
**HDL-HP-R-NC-A17†** (New Construction)
**HDL-HP-R-REM-A17†** (Remodeler, for existing ceilings)
**HDL-HP-R-CP-A17†** (Chicago Plenum (CCEA) housing)
**HDL-HP-R-IC-A17†*** (Insulated Ceiling/Air Tight, 13W & 18W only)

**2** Style
**T** - trimmed
**TL** - trimless

**3** Wattage
**13***
**18***
**20** (not available for use with IC/AT housing)

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

**5** Driver
**LE/TE*** - TRIAC/ELV dimming
**HILUME-A** - Lutron Hi-lume® A Series dimming driver
**HILUME-H** - Lutron Hi-lume® H Series dimming driver
**0-10V*** - 0-10V dimming; 1% dim
**DALI** - DALI dimming, 1% dim

**6** Options/Accessories
**EM** - emergency battery pack (not available for use with REM, CP or IC/AT options)

## Trim

**7** Model
**HDL-HP-RD-A17†** (downlight)
**HDL-HP-RA-A17†** (adjustable)
**HDL-HP-RPA-A17†** (pinhole)
**HDL-HP-RPAS-A17†** (pinhole adjustable slot)
**HDL-HP-RPASHW-A17†** (shower, not available in trimless)

**8** Style
**T** - trimmed
**TL** - trimless (not for use with RPASHW trim)

**9** Finish
RD/RA Aperture:

| Trimmed | Trimless |
|---|---|
| **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 | |

Finish (continued)
RPA/RPAS/RPASHW Aperture:
Trimmed or Trimless
**MB** - matte black
**MW** - matte white
**SLV** - matte silver
**PC** - polished chrome
**BN** - brushed nickel

**10** Beam Spreads *(see additional details below)*

| RD/RA | RPA/RPAS/RPASHW |
|---|---|
| **SP*** | **SP*** |
| **NF*** | **NF*** |
| **MFL*** | **MFL*** |
| **FL*** | **FL*** |
| **WF*** | |
| **VWF*** | |
| **LS** | |

**11** Color Temp

| 83 CRI | 90+ CRI | |
|---|---|---|
| **27** - 2700K-83 | **229** - 2200K-90+ | **CRISP** - CrispWhite (18W max) |
| **30** - 3000K-83 | **279*** - 2700K-90+ | |
| **35** - 3500K-83 | **309*** - 3000K-90+ | **3CLA** - 3K Class A |
| **40** - 4000K-83 | **359** - 3500K-90+ | |
| | **409** - 4000K-90+ | |

**12** Options/Accessories
**HEX** - hexcell louver (not available for use with RPASHW trim)
**SOL** - solite beam softening lens (not available for use with RPASHW trim)

Additional details:
Beam Spreads:
**SP**- spot 15º, **NF**- narrow flood 22º, **MFL**- medium flood 25º, **FL**- flood 28º, **WF**- wide flood 45º, **VWF**- very wide flood 60º, **LS**- linear spread lens 60º x 10º

* Title 24 Compliant

† 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.



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.



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

## Specifications

### Application

Retail and commercial ambient, accent & display 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 spreads:** Spot, 15°; Narrow Flood, 22°; Medium Flood, 25°; Flood, 28°; Wide Flood, 45°; Very Wide Flood, 60°; Linear Spread, 60° x 10°

### 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, 120V/277V 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 also available
*See pages 10-11 for more dimming information*

### Finish

Powder coat paint/wet paint
*Consult factory for custom finishes*

### Mounting

26" Hanger bars included (except for Remodeler versions)
Consult factory for hanger bars greater than 26"
**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"

### Certifications

CSA damp as tested to UL 1598 standards
IC/AT rated (optional, 13W & 18W only)
Title 24 Compliant (see ordering page for options that apply)
Damp location

### Warranty

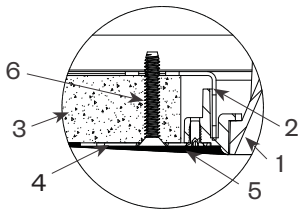
5 year limited warranty

### 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)

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

1. Reflector Trim
2. Aperture plate
3. Ceiling ⅝"
4. Cast Aluminum Plaster Frame
5. Plaster Skim Coat (by others)
6. 6-32 Type F Thread Cutting Screw




## Accessories (diagrams show installation order)



Hexcell, optical film, solite lens



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

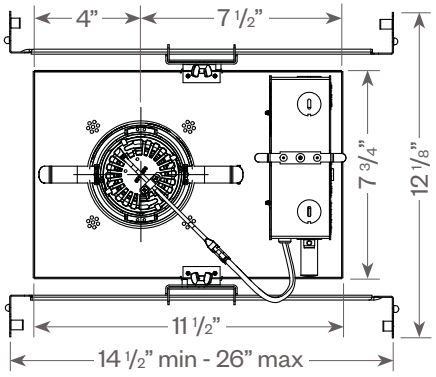
# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

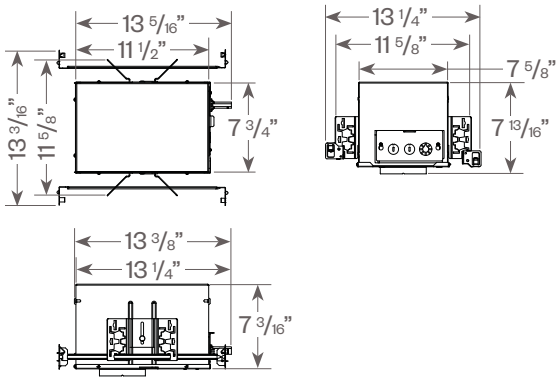
**PROJECT:** **TYPE:**

## Hornet HP Downlight: Round

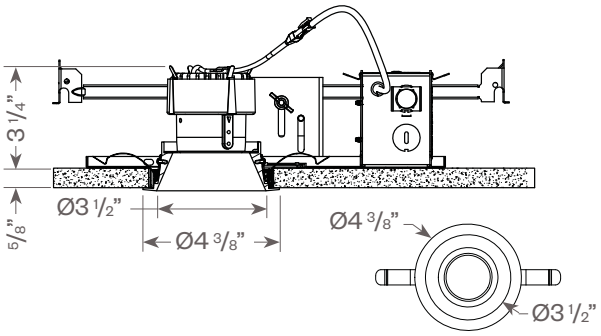



**Ceiling cut out:** 4” dia.

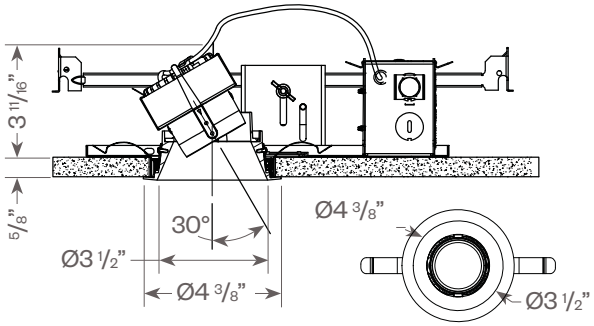
### Optional CP or IC/AT housing



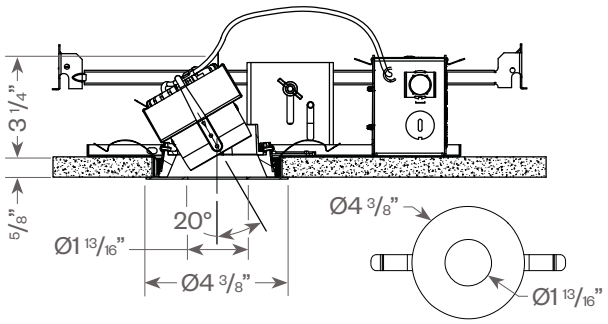

### Downlight



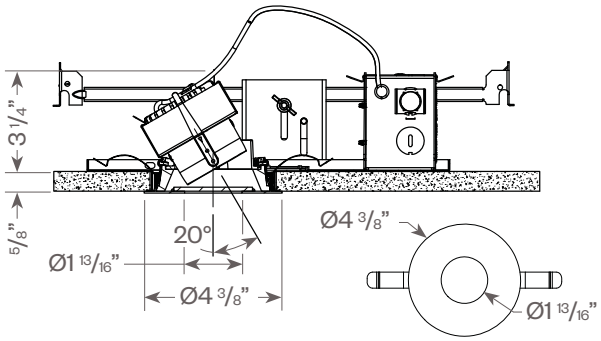

### Adjustable



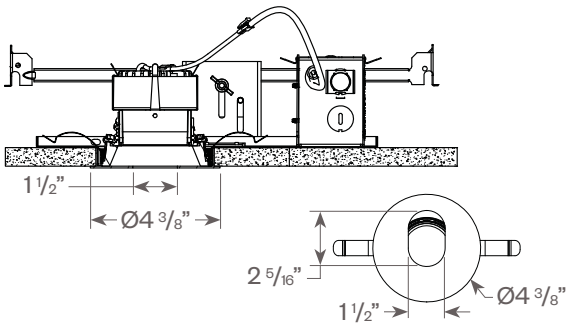

### Pinhole Adjustable

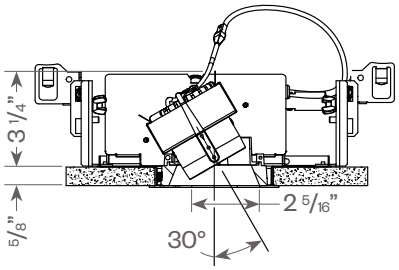



### Pinhole Adjustable Shower




### Pinhole Adjustable Slot






Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

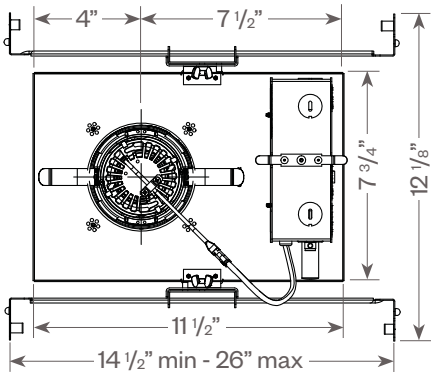
# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

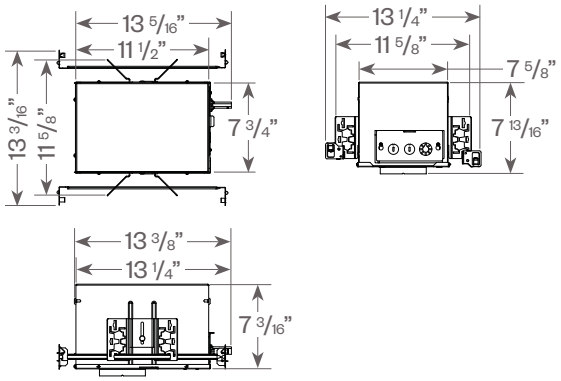
**PROJECT:** **TYPE:**

## Hornet HP Downlight: Round Trimless

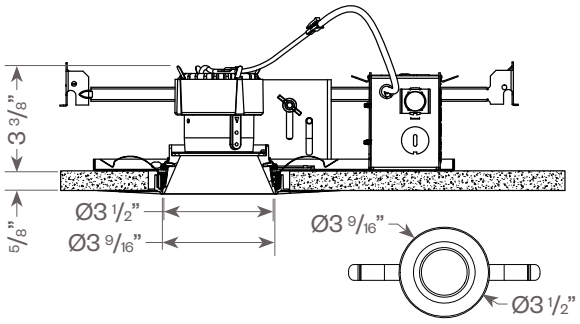



**Ceiling cut out:** 4 1/2” dia.

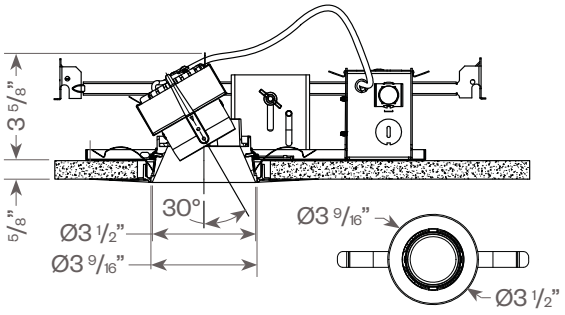
### Optional CP or IC/AT housing



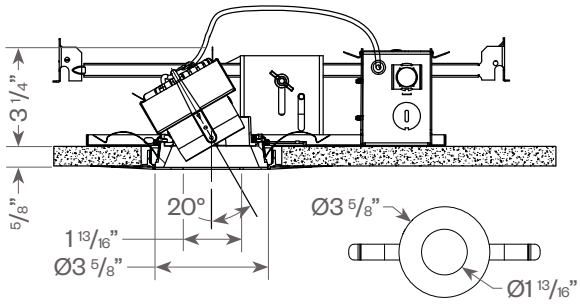

### Downlight Trimless



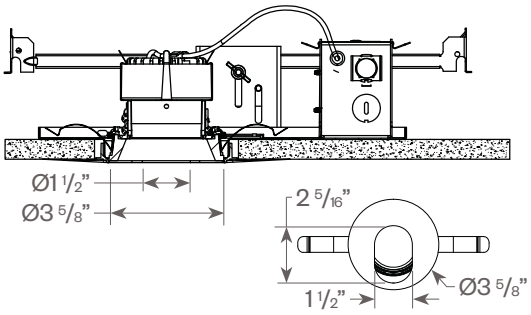

### Adjustable Trimless

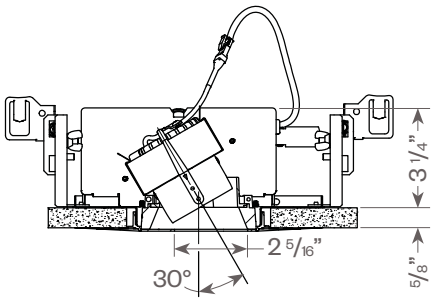



### Pinhole Adjustable Trimless




### Pinhole Adjustable Slot Trimless






Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

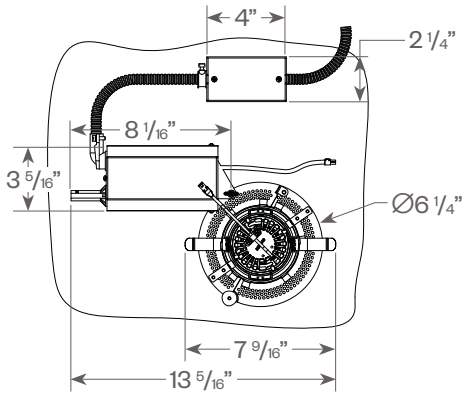
# Hornet® HP

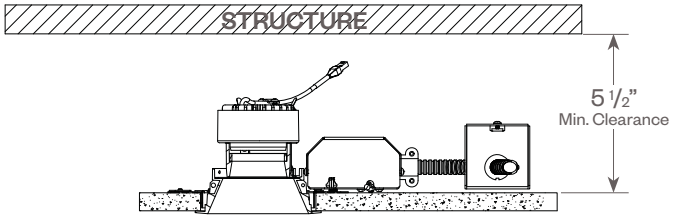
Round Downlights

amerlux
Passion. Power. Performance.

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

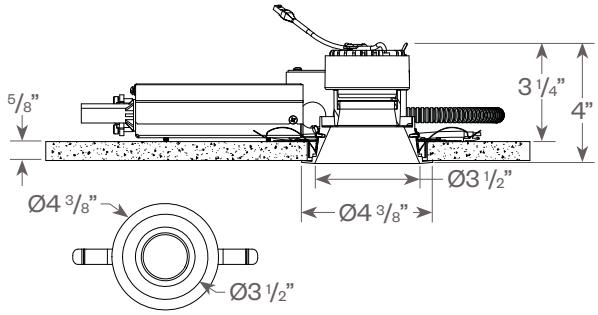
## Hornet HP Downlight: Remodeler



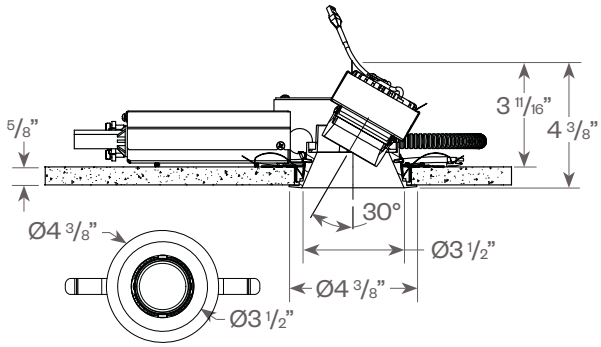




**Ceiling cut out:** 4” dia.

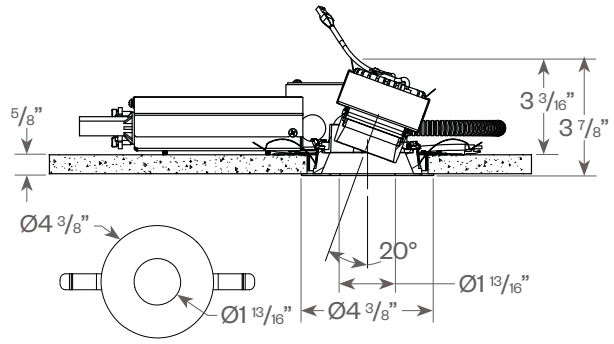
### Downlight



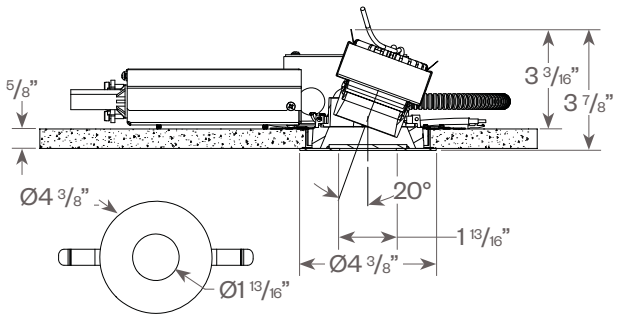

### Adjustable



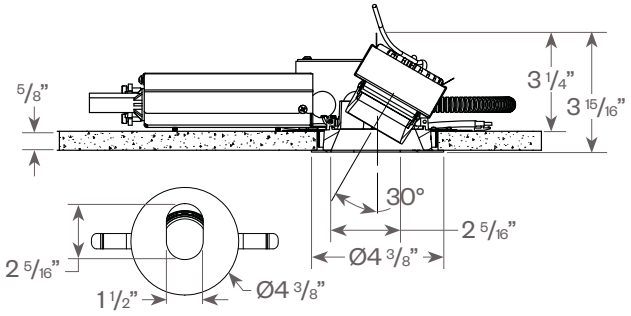

### Pinhole Adjustable

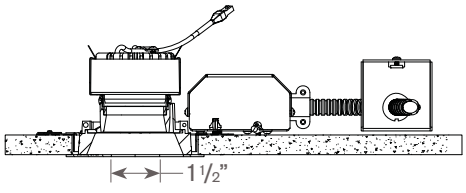



### Pinhole Adjustable Shower




### Pinhole Adjustable Slot






Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

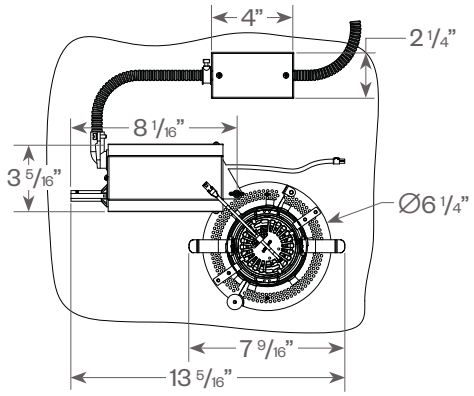
# Hornet® HP

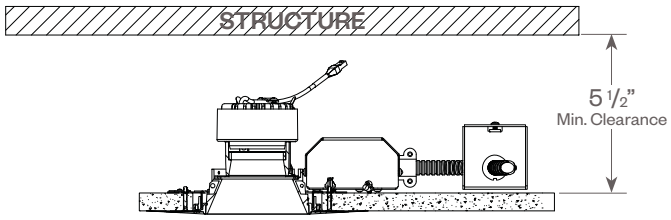
Round Downlights

amerlux
Passion. Power. Performance.

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

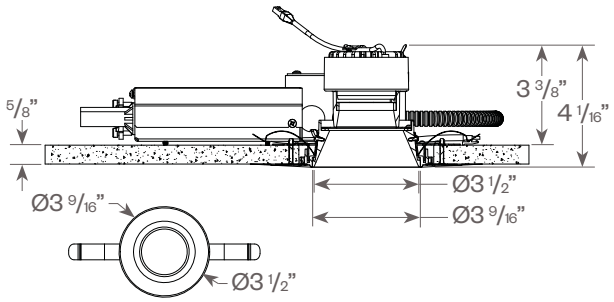
## Hornet HP Downlight: Remodeler Trimless



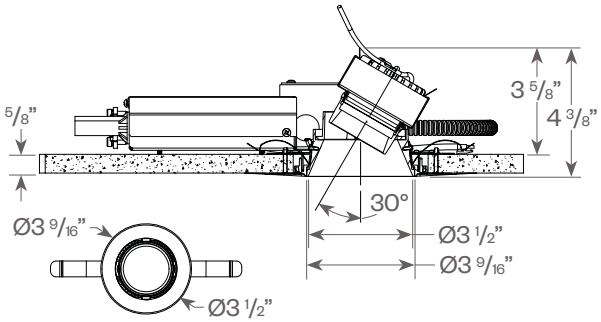




**Ceiling cut out:** 4 1/2" dia.

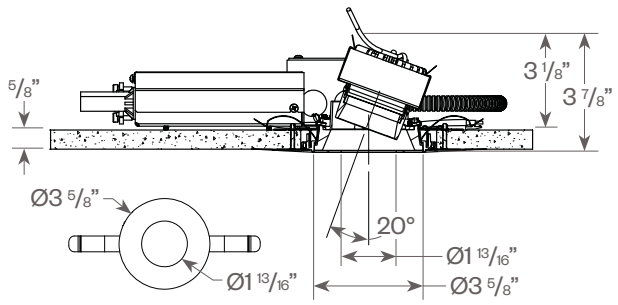
### Downlight



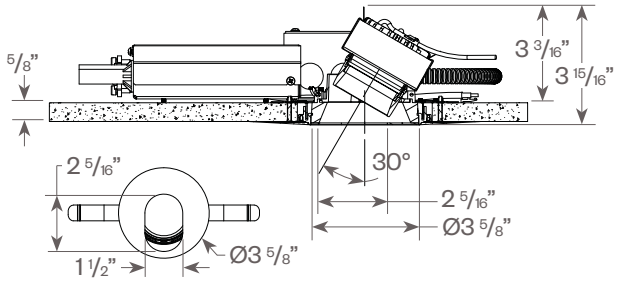

### Adjustable

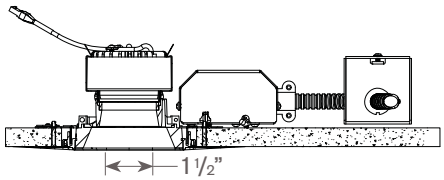



### Pinhole Adjustable




### Pinhole Adjustable Slot






Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

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

## Hornet HP Round Downlight:

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

**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

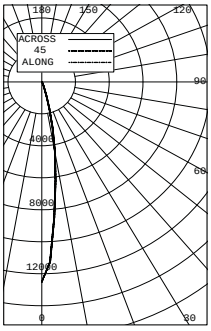
| Wattage: | 13W | 18W | 20W |
|---|---|---|---|
| Factor: | 0.70 | 0.92 | 1.0 |

| 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: | 0.71 | 0.80 | 0.83 | 0.87 | 0.90 | 0.65 | 0.75 |

### 20W LED, 3000K

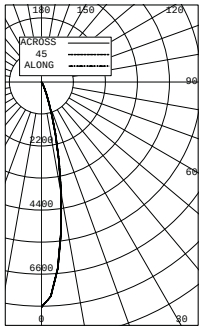
**Spot (SP) Distribution, 15°**
**LTL #818231**
**Lumens: 1,323**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 12508 |
| 5 | 8495 |
| 15 | 1754 |
| 25 | 190 |
| 35 | 32 |
| 45 | 3 |

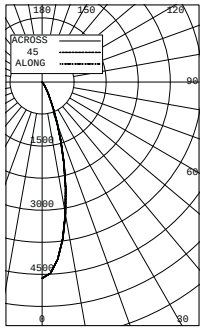
**Narrow Flood (NF) Distribution, 22°**
**LTL#818232**
**Lumens: 1,236**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 7734 |
| 5 | 6428 |
| 15 | 1866 |
| 25 | 277 |
| 35 | 45 |
| 45 | 4 |

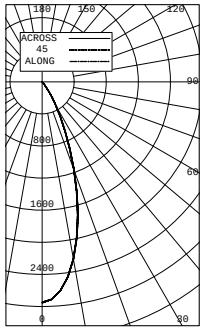
**Flood (FL) Distribution, 28°**
**LTL # 818234**
**Lumens: 1,185**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 4591 |
| 5 | 4168 |
| 15 | 1966 |
| 25 | 470 |
| 35 | 72 |
| 45 | 4 |

**Wide Flood (WF) Distribution, 45°**
**LTL # 818235**
**Lumens: 1,123**



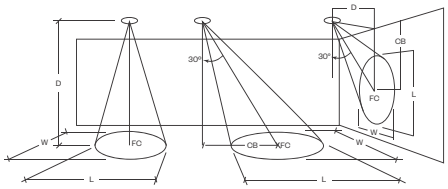

Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 2751 |
| 5 | 2614 |
| 15 | 1719 |
| 25 | 676 |
| 35 | 141 |
| 45 | 7 |

### Application Data:

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| Spot | 5.0' | 292 | 1.9 | 1.9 |
| | 7.5' | 163 | 2.6 | 2.6 |
| | 10.0' | 102 | 3.2 | 3.2 |
| | 12.5' | 69 | 3.7 | 3.7 |
| Narrow Flood | 5.0' | 231 | 2.1 | 2.1 |
| | 7.5' | 120 | 2.9 | 2.9 |
| | 10.0' | 71 | 3.7 | 3.7 |
| | 12.5' | 47 | 4.6 | 4.6 |
| Flood | 5.0' | 150 | 2.7 | 2.7 |
| | 7.5' | 74 | 3.6 | 3.6 |
| | 10.0' | 43 | 4.8 | 4.8 |
| | 12.5' | 28 | 5.8 | 5.8 |
| Wide Flood | 5.0' | 97 | 3.2 | 3.2 |
| | 7.5' | 46 | 4.6 | 4.6 |
| | 10.0' | 27 | 6.1 | 6.1 |
| | 12.5' | 17 | 7.5 | 7.5 |




**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.



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

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

## Hornet HP Round Adjustable:

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

**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

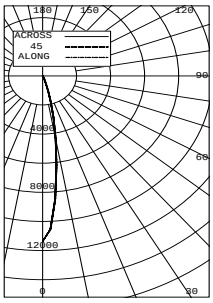
| Wattage: | 13W | 18W | 20W |
|---|---|---|---|
| Factor: | 0.70 | 0.92 | 1.0 |

| 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: | 0.71 | 0.80 | 0.83 | 0.87 | 0.90 | 0.65 | 0.75 |

### 20W LED, 3000K

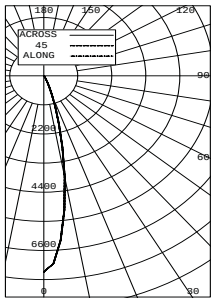
**Spot (SP) Distribution, 15°**
**LTL #818224**
**Lumens: 1,332**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 11367 |
| 5 | 8488 |
| 15 | 1846 |
| 25 | 199 |
| 35 | 38 |
| 45 | 3 |

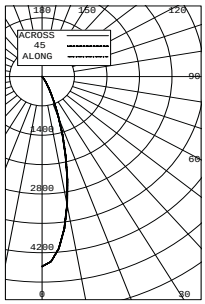
**Narrow Flood (NF) Distribution, 22°**
**LTL#818225**
**Lumens: 1,238**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 7412 |
| 5 | 6254 |
| 15 | 1895 |
| 25 | 288 |
| 35 | 49 |
| 45 | 4 |

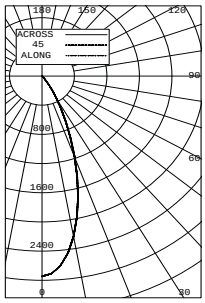
**Flood (FL) Distribution, 28°**
**LTL # 818227**
**Lumens: 1,193**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 4527 |
| 5 | 4117 |
| 15 | 1963 |
| 25 | 488 |
| 35 | 77 |
| 45 | 5 |

**Wide Flood (WF) Distribution, 45°**
**LTL # 818228**
**Lumens: 1,138**



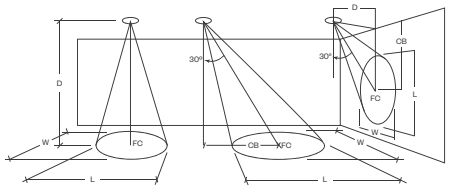

Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 2747 |
| 5 | 2609 |
| 15 | 1715 |
| 25 | 693 |
| 35 | 149 |
| 45 | 8 |

### Application Data:

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| Spot | 5.0' | 286 | 1.9 | 1.9 |
| | 7.5' | 157 | 2.7 | 2.7 |
| | 10.0' | 97 | 3.3 | 3.3 |
| | 12.5' | 65 | 3.9 | 3.9 |
| Narrow Flood | 5.0' | 215 | 2.2 | 2.2 |
| | 7.5' | 112 | 3.0 | 3.0 |
| | 10.0' | 67 | 3.8 | 3.8 |
| | 12.5' | 44 | 4.7 | 4.7 |
| Flood | 5.0' | 148 | 2.7 | 2.7 |
| | 7.5' | 73 | 3.7 | 3.7 |
| | 10.0' | 43 | 4.8 | 4.8 |
| | 12.5' | 28 | 5.9 | 5.9 |
| Wide Flood | 5.0' | 97 | 3.2 | 3.2 |
| | 7.5' | 46 | 4.6 | 4.6 |
| | 10.0' | 26 | 6.1 | 6.1 |
| | 12.5' | 17 | 7.6 | 7.6 |




**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.



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

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

## Hornet HP Round Pinhole Adjustable:

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

**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

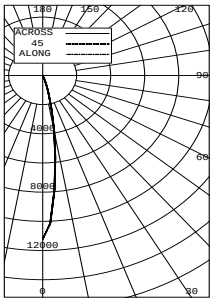
| Wattage: | 13W | 18W | 20W |
|---|---|---|---|
| Factor: | 0.70 | 0.92 | 1.0 |

| 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: | 0.71 | 0.80 | 0.83 | 0.87 | 0.90 | 0.65 | 0.75 |

### 20W LED, 3000K

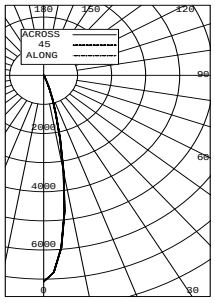
**Spot (SP) Distribution, 15°**
**LTL #818216**
**Lumens: 1,099**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 11209 |
| 5 | 7888 |
| 15 | 1423 |
| 25 | 64 |
| 35 | 6 |
| 45 | 1 |

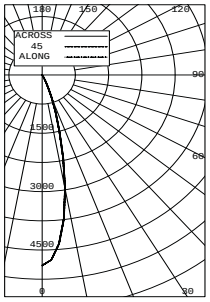
**Narrow Flood (NF) Distribution, 22°**
**LTL#818217**
**Lumens: 959**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 7083 |
| 5 | 5941 |
| 15 | 1387 |
| 25 | 99 |
| 35 | 8 |
| 45 | 0 |

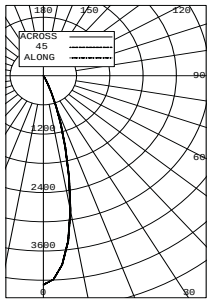
**Medium Flood (MFL) Distribution, 28°**
**LTL # 818218**
**Lumens: 899**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 4898 |
| 5 | 4358 |
| 15 | 1508 |
| 25 | 176 |
| 35 | 10 |
| 45 | 0 |

**Flood (FL) Distribution, 45°**
**LTL # 818219**
**Lumens: 876**



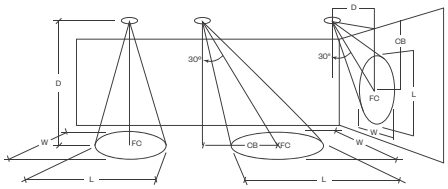

Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 4293 |
| 5 | 3897 |
| 15 | 1526 |
| 25 | 198 |
| 35 | 11 |
| 45 | 0 |

### Application Data:

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| Spot | 5.0' | 265 | 1.8 | 1.8 |
| | 7.5' | 148 | 2.5 | 2.5 |
| | 10.0' | 92 | 3.1 | 3.1 |
| | 12.5' | 63 | 3.7 | 3.7 |
| Narrow Flood | 5.0' | 201 | 2.0 | 2.0 |
| | 7.5' | 106 | 2.8 | 2.8 |
| | 10.0' | 64 | 3.5 | 3.5 |
| | 12.5' | 42 | 4.4 | 4.4 |
| Flood | 5.0' | 153 | 2.3 | 2.3 |
| | 7.5' | 77 | 3.2 | 3.2 |
| | 10.0' | 45 | 4.2 | 4.2 |
| | 12.5' | 30 | 5.1 | 5.1 |
| Wide Flood | 5.0' | 138 | 2.4 | 2.4 |
| | 7.5' | 69 | 3.4 | 3.4 |
| | 10.0' | 40 | 4.4 | 4.4 |
| | 12.5' | 26 | 5.4 | 5.4 |




**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.



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

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

## Hornet HP Round Pinhole Adjustable Slot:

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

**MULTIPLYING FACTORS:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

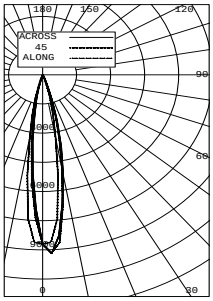
| Wattage: | 13W | 18W | 20W |
|---|---|---|---|
| Factor: | 0.70 | 0.92 | 1.0 |

| 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: | 0.71 | 0.80 | 0.83 | 0.87 | 0.90 | 0.65 | 0.75 |

### 20W LED, 3000K

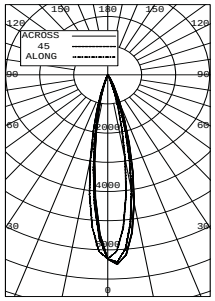
**Spot (SP) Distribution, 15°**
**LTL #818220**
**Lumens: 1,016**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 8708 |
| 5 | 7439 |
| 15 | 1282 |
| 25 | 33 |
| 35 | 5 |
| 45 | 0 |

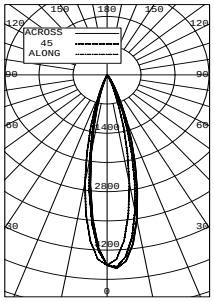
**Narrow Flood (NF) Distribution, 22°**
**LTL#818221**
**Lumens: 909**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 6311 |
| 5 | 5258 |
| 15 | 1202 |
| 25 | 62 |
| 35 | 7 |
| 45 | 0 |

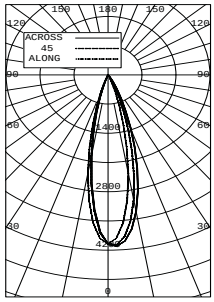
**Medium Flood (MFL) Distribution, 28°**
**LTL # 818222**
**Lumens: 851**




Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 4560 |
| 5 | 3994 |
| 15 | 1320 |
| 25 | 116 |
| 35 | 8 |
| 45 | 0 |

**Flood (FL) Distribution, 45°**
**LTL # 818223**
**Lumens: 833**



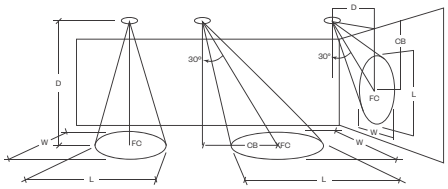

Candelas at Nadir

| Deg | Candela |
|---|---|
| 0 | 4055 |
| 5 | 3556 |
| 15 | 1218 |
| 25 | 113 |
| 35 | 8 |
| 45 | 0 |

### Application Data:

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| Spot | 5.0' | 233 | 2.0 | 1.9 |
| | 7.5' | 127 | 2.6 | 2.6 |
| | 10.0' | 77 | 3.3 | 3.3 |
| | 12.5' | 52 | 4.0 | 4.0 |
| Narrow Flood | 5.0' | 180 | 2.2 | 2.0 |
| | 7.5' | 94 | 2.9 | 2.8 |
| | 10.0' | 57 | 3.8 | 3.6 |
| | 12.5' | 38 | 4.6 | 4.5 |
| Flood | 5.0' | 140 | 2.3 | 2.3 |
| | 7.5' | 71 | 3.3 | 3.1 |
| | 10.0' | 42 | 4.3 | 4.1 |
| | 12.5' | 28 | 5.2 | 5.2 |
| Wide Flood | 5.0' | 127 | 2.5 | 2.3 |
| | 7.5' | 64 | 3.6 | 3.2 |
| | 10.0' | 38 | 4.6 | 4.2 |
| | 12.5' | 25 | 5.8 | 5.4 |




**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.



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

**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.

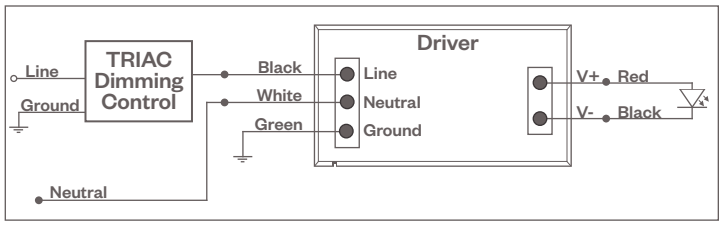
## TRIAC (Forward Phase) DIMMING (Standard)

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

**Notes:**

- 120V or 277V*
- Dims down to less than 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** (Incandescent Style, Wattage as required) | | **Central System** | |
|---|---|---|---|
| Lutron "Diva" | Lutron "Vareo" | ETC "SR" Rack w/D20 Module | Lutron Grafik Eye QS |
| Lutron "Nova-T" | Lutron "Skylark" | Lutron "GP" Panel | |
| Lutron "Maestro" | | ETC "DRD" Rack w/D20 Module | |

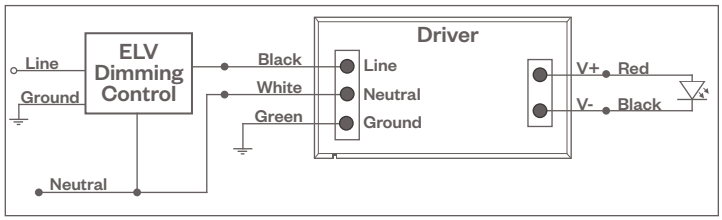
## ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Utilizes specialized "ELV" dimmers. Best for New Construction applications

**Notes:**

- 120V or 277V*
- Dims down to less than 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 Style) | | **Central System** | |
|---|---|---|---|
| Lutron "Diva" | Lutron "Vareo" | ETC "SR" Rack w/ELV10 Module | Lutron Grafik Eye QS with |
| Lutron "Nova-T" | Lutron "Skylark" | Lutron "GP" Panel with PHPM-PA Interface | PHPM-PA Interface |
| Lutron "Maestro" | | | |
| Leviton "Surslide" | Leviton "Vizio" | ETC "DRD" Rack w/ELV10 Module | |

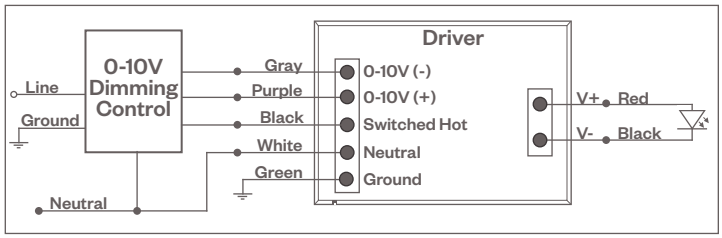
## 0-10V - DIMMING (-0-10V Option)

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 "Diva" - DVTV with PP-120H Interface | Leviton Renoir II 0-10v | Lutron Grafik Eye with GRX-TVI Interface | |

**Notes:**

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



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

# Hornet® HP

Round Downlights

amerlux
Passion. Power. Performance.

**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.

## LUTRON A-SERIES HI-LUME / ECOSYSTEM (-DIM-HILUME Option)

Integrates into Lutron EcoSystem building management

**Notes:**

- 120V or 277V*
- Dims down to less than 5% light output
- May use 3-Wire or EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

### Compatible Dimmers

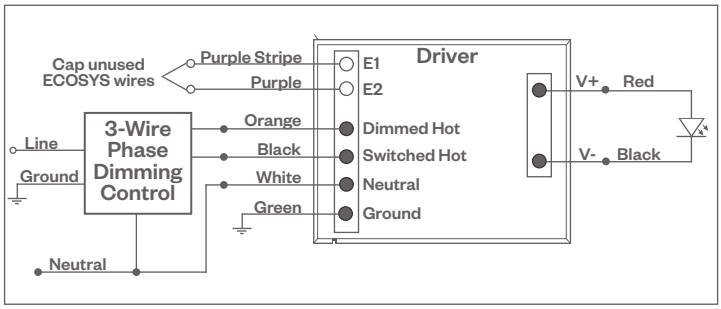
**Wall Box (3-Wire Fluorescent)**

DIVA
Maestro
Nova T
Vareo

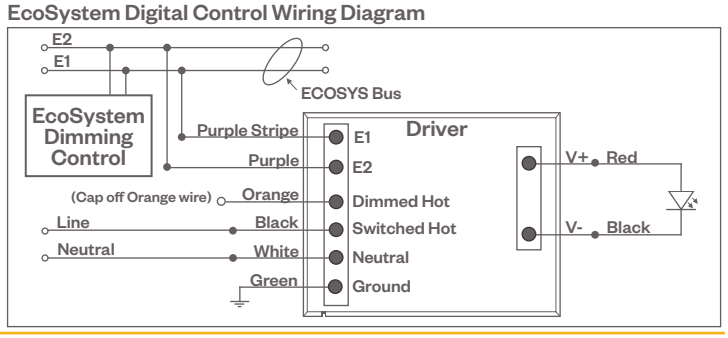
**Central System**

Lutron EcoSystem compatible controls
ETC "SR" Rack w/D20F Module
ETC "DRD" Rack w/D20F Module

### 3-Wire Wiring Diagram




### EcoSystem Digital Control Wiring Diagram




## DALI DIMMING (-DALI OPTION)

Digital control protocol allows individual fixture control

**Notes:**

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

### Compatible Dimmers

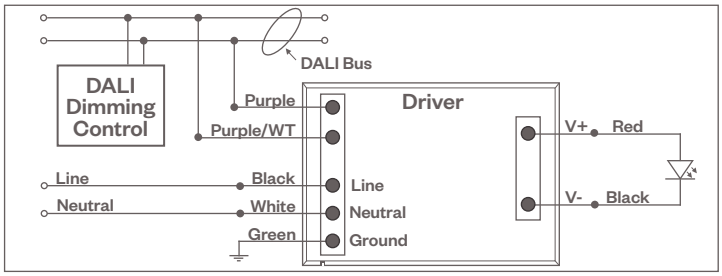
**Wall Box (3-Wire Fluorescent)**

Leviton CD250 Controller

**Central System**

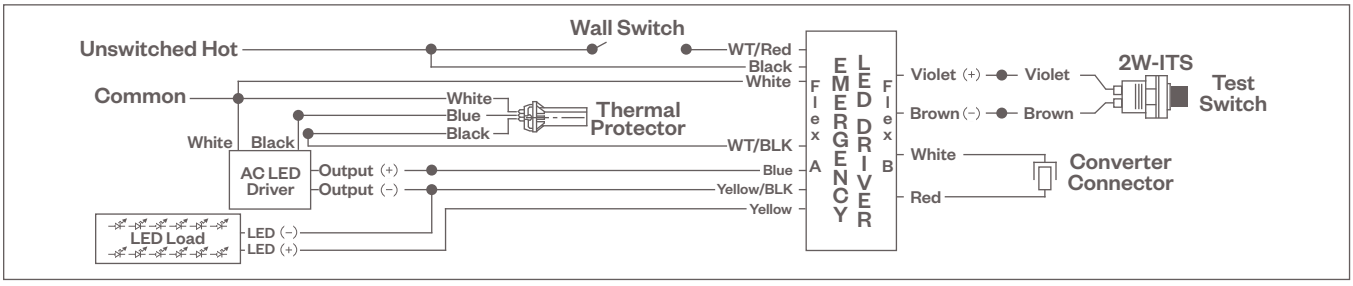
Dynalite
Fifth Light

### DALI Wiring Diagram




## EMERGENCY DIMMING (-EM OPTION)

### Wiring Diagram




**Notes:**

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



Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com