

# Hornet® HP

## Round Downlights



Downlight



Adjustable (Trimless version shown)

### PROJECT:



Pinhole Adjustable



Pinhole Adjustable Shower



Pinhole Adjustable Slot

### 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                                                                                                                                                     |
| ORI:          | 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 (120/277VAC) - 5% Dim<br>Lutron Hi-lume® H Series/EcoSystem - 1% dim with soft on, fade to black, 120/277VAC<br>0-10V (120/277VAC) - 1% Dim<br>DALI (120/277VAC) - 1% Dim |

### TYPE:

#### 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



5 year limited warranty  
AMERLUX LED

Title 24 Compliant

## PROJECT:

## TYPE:

### Housing/Frame Ordering Information

| 1                                                                                                                                                                                                                                                                                                                   | 2                                                                   | 3                                                                                                        | 4                                                                                                    | 5                                                                                                                                                                                                                                                                                  | 6                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> <u>Model</u><br><b>For New Construction</b><br><b>HDL-HP-R-NC-A17*</b> (New Construction)<br><b>HDL-HP-R-CP-A17*</b> (Chicago Plenum (COEA) housing)<br><b>HDL-HP-R-IC-A17**</b> (Insulated Ceiling/air tight, 13W & 18W only)<br><br><b>For Existing Ceilings</b><br><b>HDL-HP-R-REM-A17*</b> (Remodeler) | <b>2</b> <u>Style</u><br><b>T</b> - trimmed<br><b>TL</b> - trimless | <b>3</b> <u>Wattage</u><br><b>13*</b><br><b>18*</b><br><b>20</b> (not available for use with IC housing) | <b>4</b> <u>Voltage</u><br><b>120</b><br><b>277</b><br><b>120/277</b> (for use with IC housing only) | <b>5</b> <u>Driver</u> (for non-dimming, select LE/TE option)<br><b>LE/TE*</b> - TRIAC/ELV dimming<br><b>HILUME-H-ECO</b> - Lutron Hi-lume® H Series, EcoSystem, 1% dim with soft on, fade to black<br><b>0-10V*</b> - 0-10V dimming, 1% dim<br><b>DALI</b> - DALI dimming, 1% dim | <b>6</b> <u>Options/Accessories</u><br><b>EM</b> - emergency battery pack with remote test switch (not available for use with REM, CP or IC options) |

### Trim Ordering Information

| 1                                                                                                                                                                                                                                                                              | 2                                                                                                                   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                                                                                                                                                                                                                                                                                                                                                                                                             | 6                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1</div> <div><u>Model</u><br/><b>HDL-HP-RD-A17*</b> (downlight)<br/><b>HDL-HP-RA-A17*</b> (adjustable)<br/><b>HDL-HP-RPA-A17*</b> (pinhole)<br/><b>HDL-HP-RPAS-A17*</b> (pinhole adjustable slot)<br/><b>HDL-HP-RPASHW-A17*</b> (shower, not available in trimless)</div> | <div>2</div> <div><u>Style</u><br/><b>T</b> - trimmed<br/><b>TL</b> - trimless (not for use with RPASHW trim)</div> | <div>3</div> <div><u>Finish</u><br/><u>RD/RA Trims:</u><br/><u>Trimmed</u><br/><b>MBW</b> - matte black, white flange<br/><b>MWW</b> - matte white, white flange<br/><b>SLVW</b> - matte silver, white flange<br/><b>MBB</b> - matte black, black flange<br/><b>SLVS</b> - matte silver, silver flange<br/><br/><u>RPAS/RPAS/RPASHW Trims (Trimmed or Trimless):</u><br/><b>MB</b> - matte black<br/><b>MW</b> - matte white<br/><b>SLV</b> - matte silver<br/><b>PC</b> - polished chrome<br/><b>BN</b> - brushed nickel</div> | <div>4</div> <div><u>Beam Spreads</u><br/><u>RD/RA</u>      <u>RPA/RPAS/RPASHW</u><br/><b>SP*</b>      <b>SP*</b><br/><b>NF*</b>      <b>NF*</b><br/><b>MFL*</b>      <b>MFL*</b><br/><b>FL*</b>      <b>FL*</b><br/><b>WF*</b><br/><b>VWF*</b><br/><b>LS</b><br/><br/><b>SP</b>- spot 15°, <b>NF</b>- narrow flood 22°, <b>MFL</b>- medium flood 25°,<br/><b>FL</b>- flood 28°, <b>WF</b>- wide flood 45°, <b>VWF</b>- very wide flood 60°,<br/><b>LS</b>- linear spread lens 60° x 10°</div> | <div>5</div> <div><u>Color Temp</u><br/><u>83 CRI</u>      <u>90+ CRI</u><br/><b>27</b> - 2700K-83      <b>229</b> - 2200K-90+      <b>CRISP</b> - CrispWhite (18W max)<br/><b>30</b> - 3000K-83      <b>279*</b> - 2700K-90+<br/><b>35</b> - 3500K-83      <b>309*</b> - 3000K-90+      <b>3CLA</b> - 3K Class A<br/><b>40</b> - 4000K-83      <b>359</b> - 3500K-90+<br/>      <b>409</b> - 4000K-90+</div> | <div>6</div> <div><u>Options/Accessories</u><br/><b>HEX</b> - hexcell louver (not available for use with RPASHW trim)<br/><b>SOL</b> - solite beam softening lens (comes standard with RPASHW trim)</div> |

\* 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.

## 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

- Tilt: 0-30° (RA/RPAS trims), 0-20° (RPA/RPASHW trims)
- 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, 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 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

Wet location (RPASHW trim only)

#### Warranty

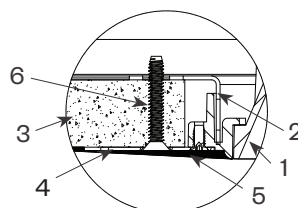
5 year limited warranty

#### Emergency Battery Pack (EM)

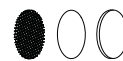
Powers fixture at 5.1 watts (approx. 400 Lm) for 90 minutes (not for use with REM, CP or IC/AT versions)

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

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



### Accessories (diagrams show installation order)

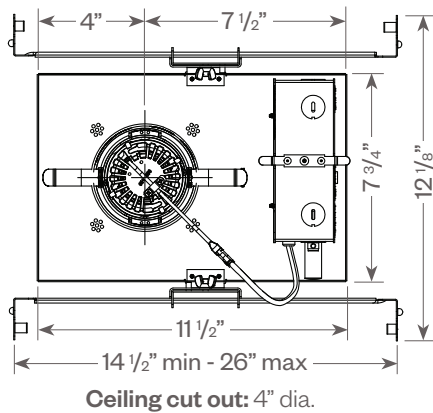


Hexcell, optical film, solite lens

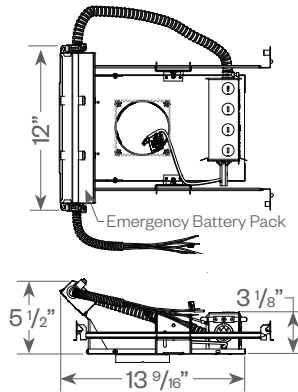
## PROJECT:

## TYPE:

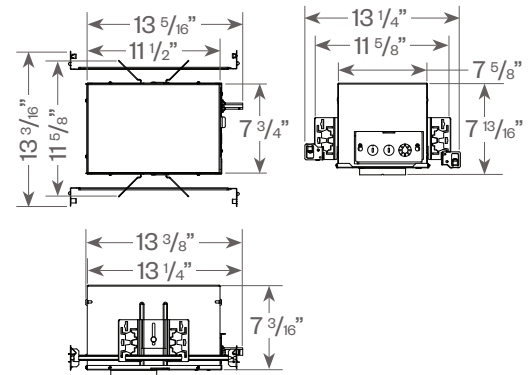
### Hornet HP Downlight: Round



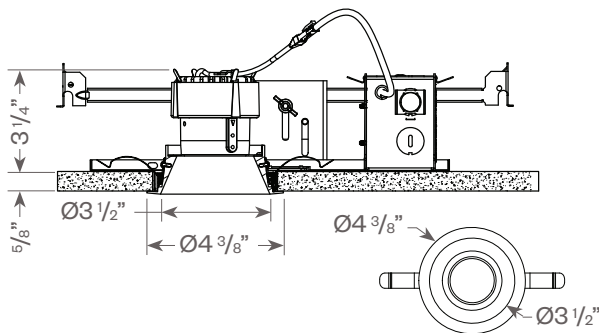
### Frame with Emergency Battery Pack



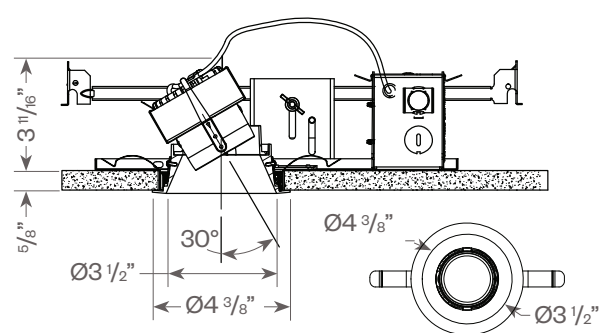
### Optional CP or IC/AT housing



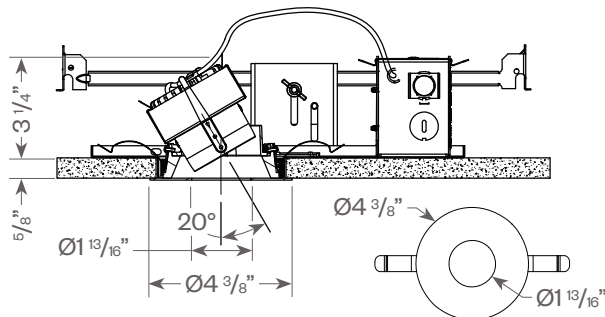
### Downlight



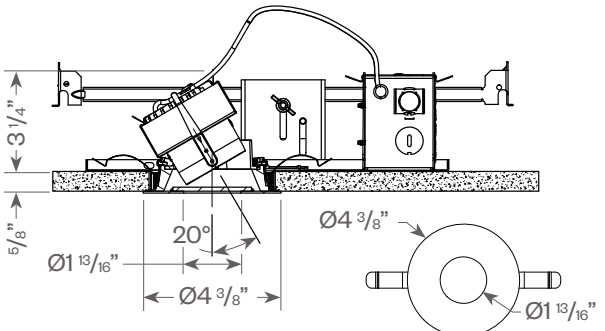
### Adjustable



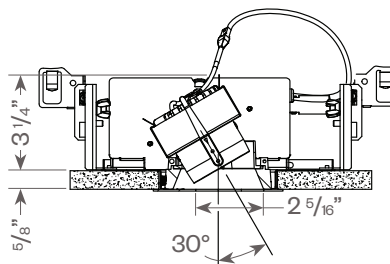
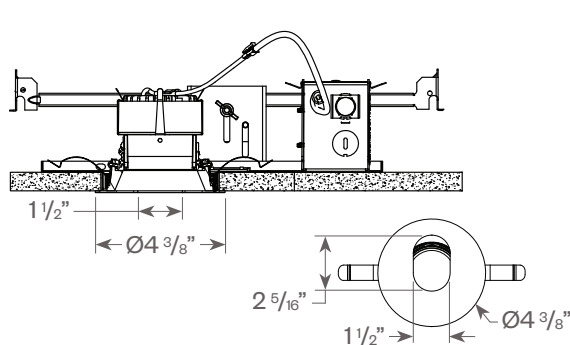
### Pinhole Adjustable



### Pinhole Adjustable Shower



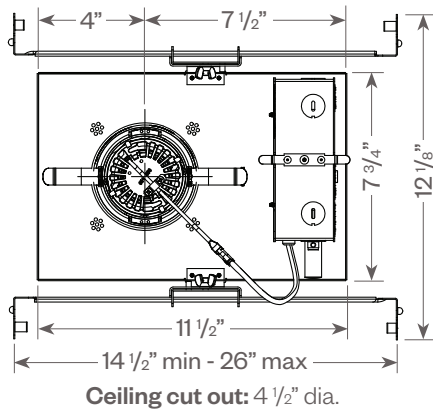
### Pinhole Adjustable Slot



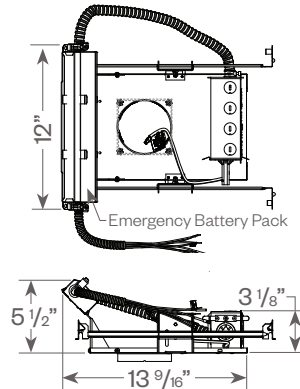
## PROJECT:

## TYPE:

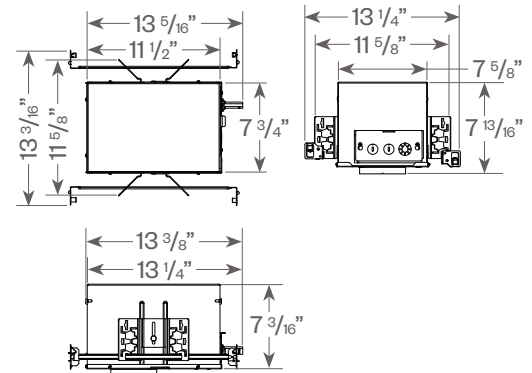
### Hornet HP Downlight: Round Trimless



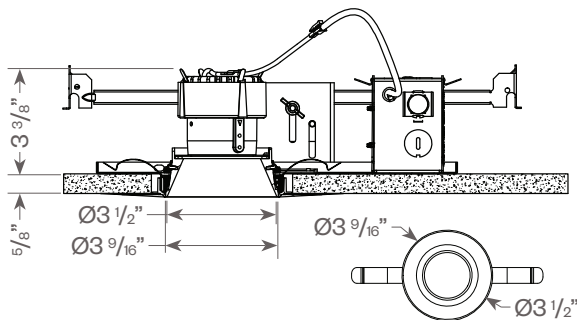
#### Frame with Emergency Battery Pack



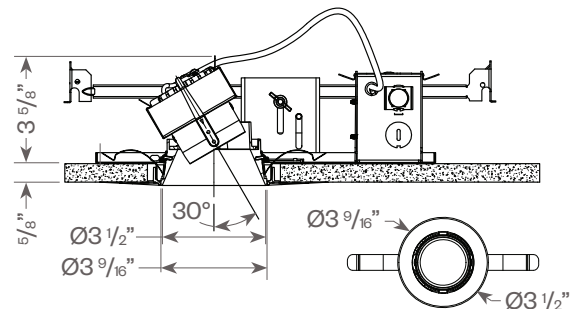
#### Optional CP or IC/AT housing



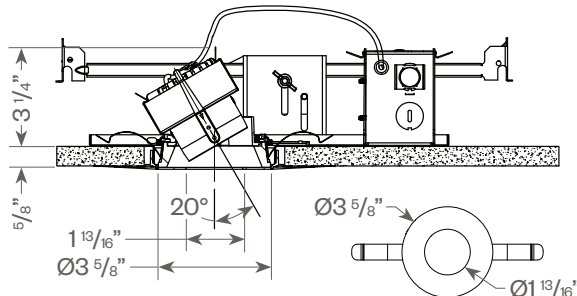
### Downlight Trimless



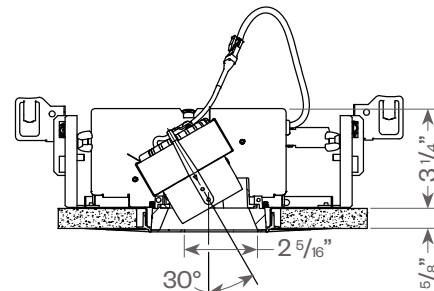
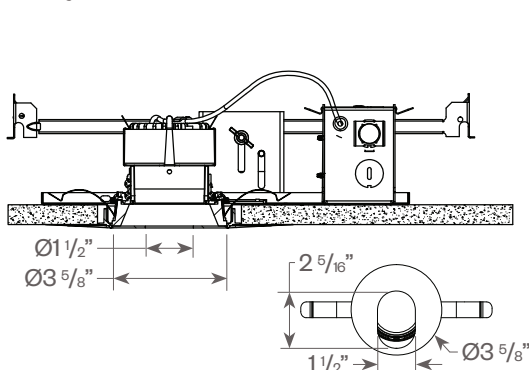
### Adjustable Trimless



### Pinhole Adjustable Trimless



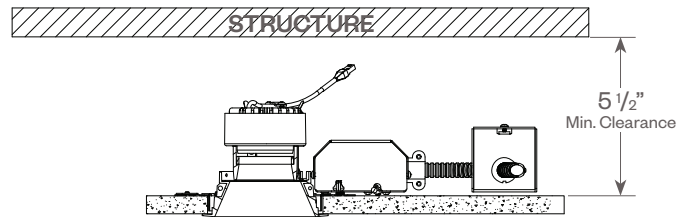
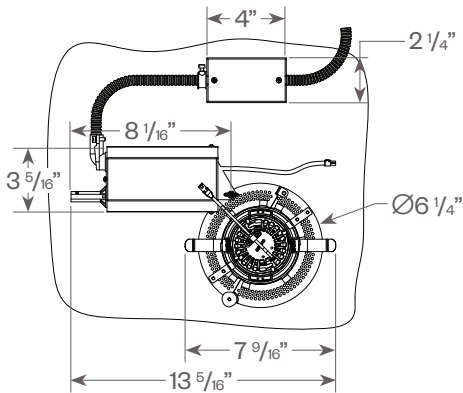
### Pinhole Adjustable Slot Trimless



## PROJECT:

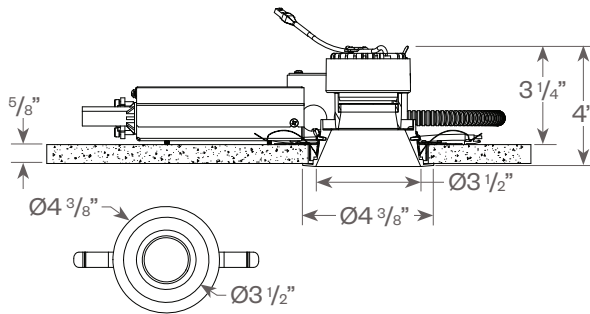
## TYPE:

### Hornet HP Downlight: Remodeler

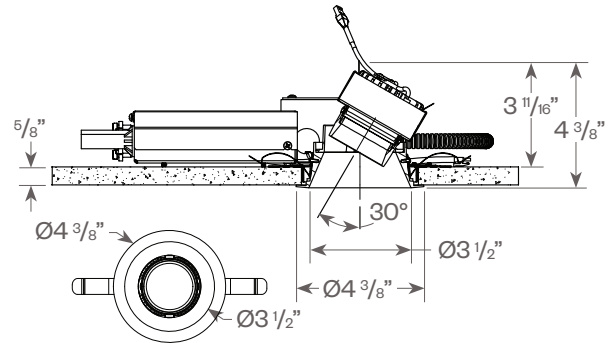


Ceiling cut out: 4" dia.

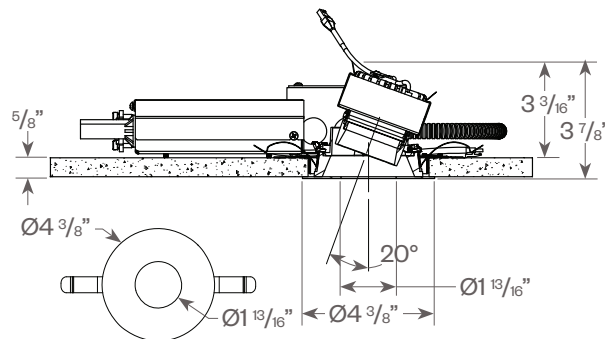
### Downlight



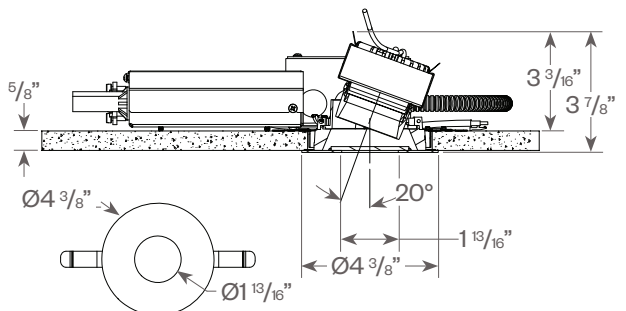
### Adjustable



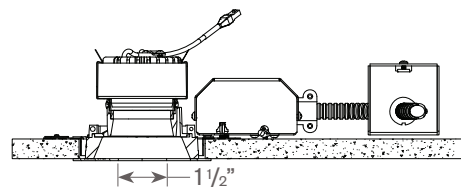
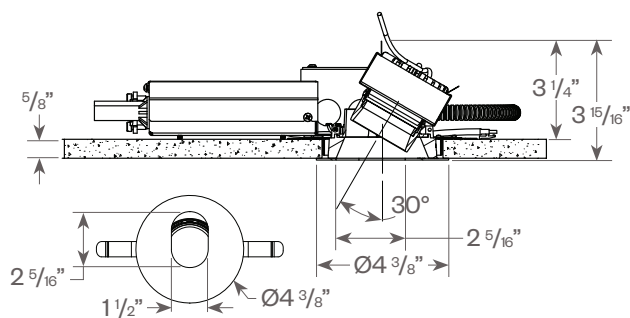
### Pinhole Adjustable



### Pinhole Adjustable Shower



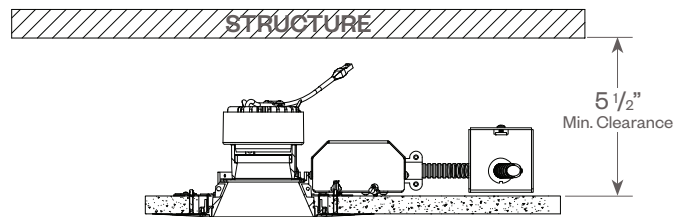
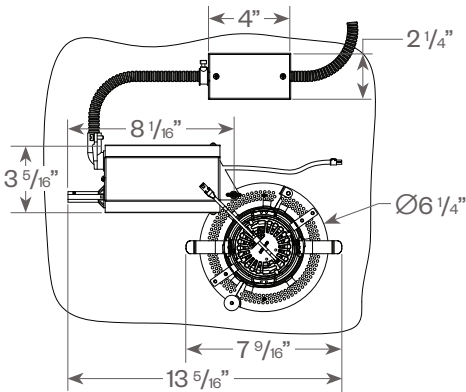
### Pinhole Adjustable Slot



## PROJECT:

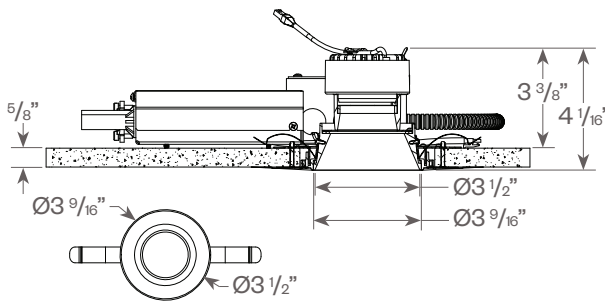
## TYPE:

### Hornet HP Downlight: Remodeler Trimless

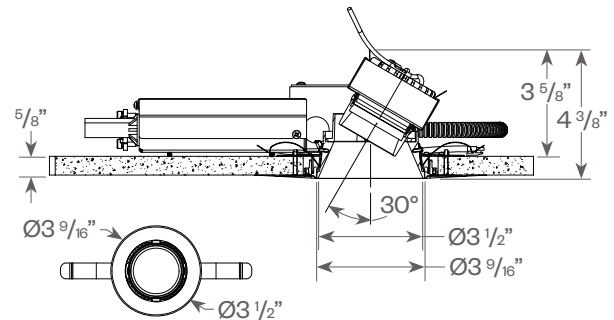


Ceiling cut out: 4 1/2" dia.

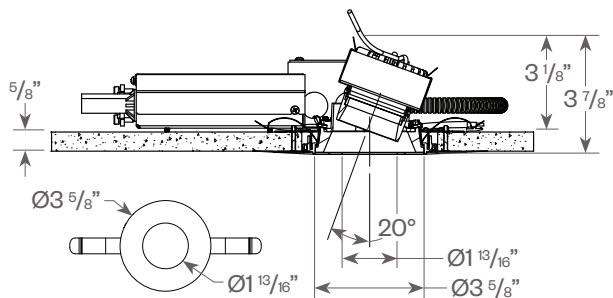
### Downlight



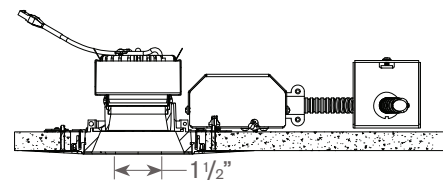
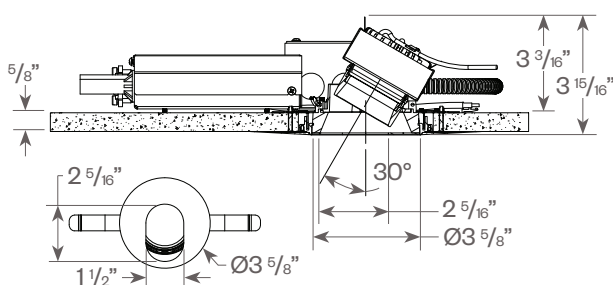
### Adjustable



### Pinhole Adjustable



### Pinhole Adjustable Slot



## 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)

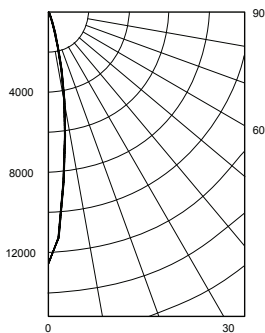
| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.70 | 0.92 | 1.0 |

| 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

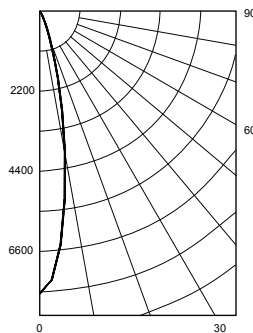
**Spot (SP) Distribution, 15°**  
LTL #818231  
Lumens: 1,323



**Candelas at Nadir**

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

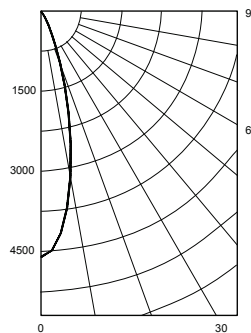
**Narrow Flood (NF) Distribution, 22°**  
LTL #818232  
Lumens: 1,236



**Candelas at Nadir**

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

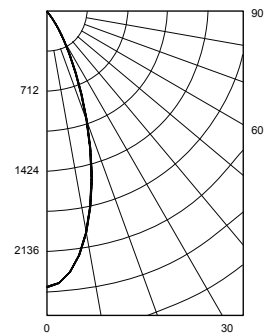
**Flood (FL) Distribution, 28°**  
LTL # 818234  
Lumens: 1,185



**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

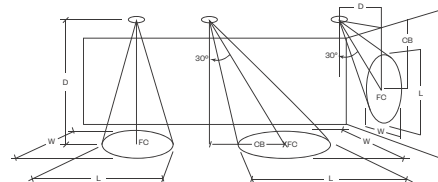


**Candelas at Nadir**

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

### Application Data:

| 0° Aiming Angle<br>Horizontal<br>Footcandles |       |     |     |     |
|----------------------------------------------|-------|-----|-----|-----|
| Spot                                         | D     | FC  | L   | W   |
|                                              | 5.0'  | 292 | 1.9 | 1.9 |
|                                              | 7.5'  | 163 | 2.6 | 2.6 |
|                                              | 10.0' | 102 | 3.2 | 3.2 |
| Narrow Flood                                 | D     | FC  | L   | W   |
|                                              | 5.0'  | 231 | 2.1 | 2.1 |
|                                              | 7.5'  | 120 | 2.9 | 2.9 |
|                                              | 10.0' | 71  | 3.7 | 3.7 |
| Flood                                        | D     | FC  | L   | W   |
|                                              | 5.0'  | 150 | 2.7 | 2.7 |
|                                              | 7.5'  | 74  | 3.6 | 3.6 |
|                                              | 10.0' | 43  | 4.8 | 4.8 |
| Wide Flood                                   | D     | FC  | L   | W   |
|                                              | 5.0'  | 97  | 3.2 | 3.2 |
|                                              | 7.5'  | 46  | 4.6 | 4.6 |
|                                              | 10.0' | 27  | 6.1 | 6.1 |
|                                              | D     | FC  | L   | W   |
|                                              | 5.0'  | 97  | 3.2 | 3.2 |
|                                              | 7.5'  | 46  | 4.6 | 4.6 |
|                                              | 10.0' | 27  | 6.1 | 6.1 |



#### Notes and Definitions:

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

**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:

### 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)

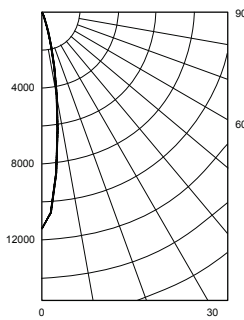
| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.70 | 0.92 | 1.0 |

| 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 |

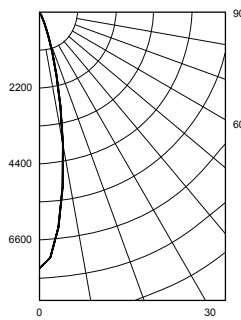
### 20W LED, 3000K

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



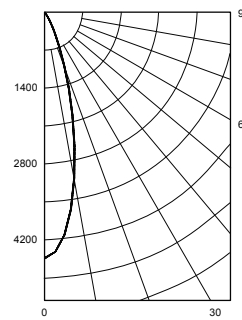
| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 11367   |
| 5                 | 8488    |
| 15                | 1846    |
| 25                | 199     |
| 35                | 38      |
| 45                | 3       |

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



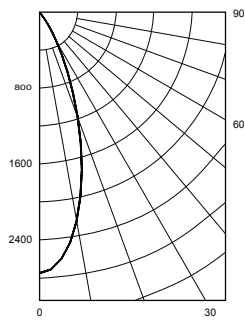
| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 7412    |
| 5                 | 6254    |
| 15                | 1895    |
| 25                | 288     |
| 35                | 49      |
| 45                | 4       |

**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       |

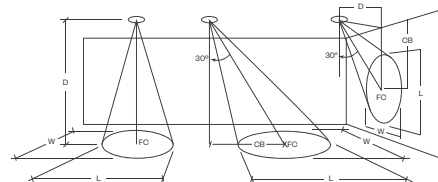
**Wide Flood (WF) Distribution, 45°**  
LTL # 818228  
Lumens: 1,138



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

### Application Data:

| 0° Aiming Angle<br>Horizontal<br>Footcandles |       |     |     |     |
|----------------------------------------------|-------|-----|-----|-----|
| Spot                                         | D     | FC  | L   | W   |
|                                              | 5.0'  | 286 | 1.9 | 1.9 |
|                                              | 7.5'  | 157 | 2.7 | 2.7 |
|                                              | 10.0' | 97  | 3.3 | 3.3 |
| Narrow Flood                                 | D     | FC  | L   | W   |
|                                              | 5.0'  | 215 | 2.2 | 2.2 |
|                                              | 7.5'  | 112 | 3.0 | 3.0 |
|                                              | 10.0' | 67  | 3.8 | 3.8 |
| Flood                                        | D     | FC  | L   | W   |
|                                              | 5.0'  | 148 | 2.7 | 2.7 |
|                                              | 7.5'  | 73  | 3.7 | 3.7 |
|                                              | 10.0' | 43  | 4.8 | 4.8 |
| Wide Flood                                   | D     | FC  | L   | W   |
|                                              | 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.

## 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)

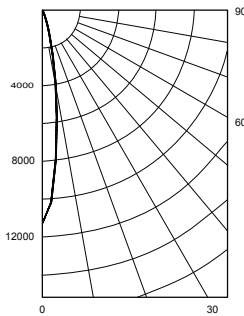
| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.70 | 0.92 | 1.0 |

| 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 |

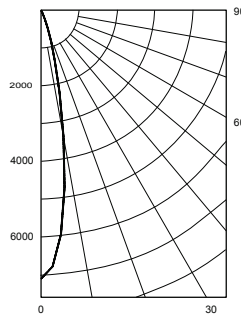
### 20W LED, 3000K

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



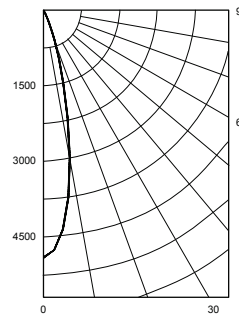
| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 11209   |
| 5                 | 7888    |
| 15                | 1423    |
| 25                | 64      |
| 35                | 6       |
| 45                | 1       |

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



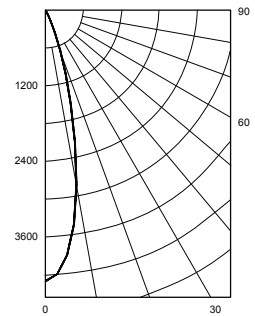
| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 7083    |
| 5                 | 5941    |
| 15                | 1387    |
| 25                | 99      |
| 35                | 8       |
| 45                | 0       |

**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       |

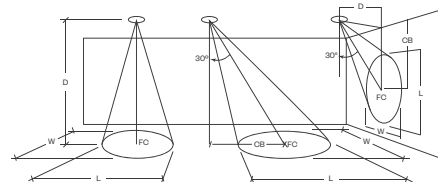
**Flood (FL) Distribution, 45°**  
LTL # 818219  
Lumens: 876



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

### Application Data:

| 0° Aiming Angle<br>Horizontal<br>Footcandles |       |     |     |     |
|----------------------------------------------|-------|-----|-----|-----|
| Spot                                         | D     | FC  | L   | W   |
|                                              | 5.0'  | 265 | 1.8 | 1.8 |
|                                              | 7.5'  | 148 | 2.5 | 2.5 |
|                                              | 10.0' | 92  | 3.1 | 3.1 |
| Narrow Flood                                 | D     | FC  | L   | W   |
|                                              | 5.0'  | 201 | 2.0 | 2.0 |
|                                              | 7.5'  | 106 | 2.8 | 2.8 |
|                                              | 10.0' | 64  | 3.5 | 3.5 |
| Flood                                        | D     | FC  | L   | W   |
|                                              | 5.0'  | 153 | 2.3 | 2.3 |
|                                              | 7.5'  | 77  | 3.2 | 3.2 |
|                                              | 10.0' | 45  | 4.2 | 4.2 |
| Wide Flood                                   | D     | FC  | L   | W   |
|                                              | 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 (OBOP).

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:

### 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)

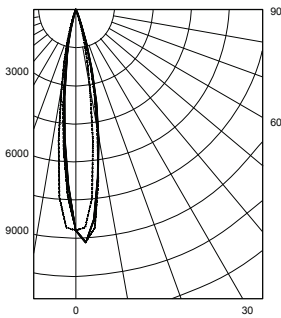
| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.70 | 0.92 | 1.0 |

| 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

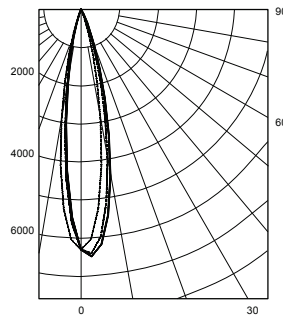
**Spot (SP) Distribution, 15°**  
LTL #818220  
Lumens: 1,016



**Candelas at Nadir**

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

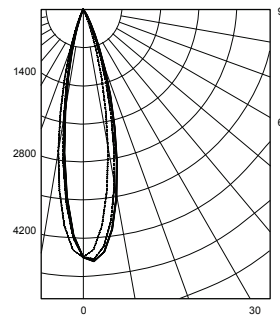
**Narrow Flood (NF) Distribution, 22°**  
LTL #818221  
Lumens: 909



**Candelas at Nadir**

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

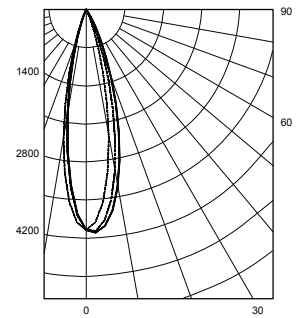
**Medium Flood (MFL) Distribution, 28°**  
LTL # 818222  
Lumens: 851



**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

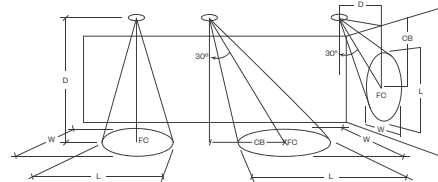


**Candelas at Nadir**

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

### Application Data:

| 0° Aiming Angle<br>Horizontal<br>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 (OBOP).

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

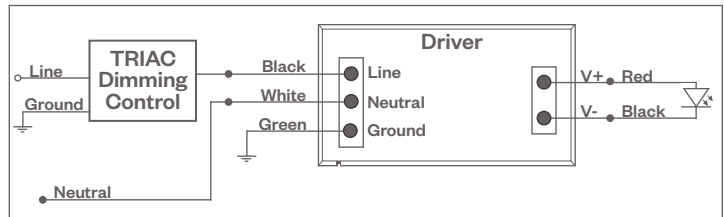
#### Notes:

- 120VAC or 277VAC\*
- Dims down to 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

#### Compatible Dimmers†:

| Wall Box (Incandescent Style, Wattage as required) | Central System       |
|----------------------------------------------------|----------------------|
| Lutron "Diva"                                      | Lutron "GP" Panel    |
| Lutron "Nova-T"                                    | Lutron Grafik Eye QS |
| Lutron "Maestro"                                   |                      |
| Lutron "Vareo"                                     |                      |
| Lutron "Skylark"                                   |                      |

TRIAC Wiring Diagram



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

Utilizes specialized "ELV" dimmers.

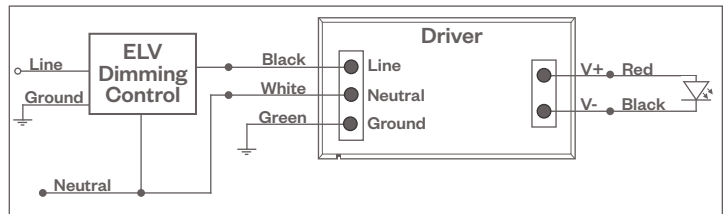
#### Notes:

- 120VAC or 277VAC\*
- 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

#### Compatible Dimmers†:

| Wall Box (ELV Style) | Central System                              |
|----------------------|---------------------------------------------|
| Lutron "Diva"        | Lutron "GP" Panel with PHPM-PA Interface    |
| Lutron "Nova-T"      | Lutron Grafik Eye QS with PHPM-PA Interface |
| Lutron "Maestro"     |                                             |
| Lutron "Vareo"       |                                             |
| Lutron "Skylark"     |                                             |
| Leviton "Surslide"   |                                             |
| Leviton "Vizio"      |                                             |

ELV Wiring Diagram



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

Integrates into a variety of building management and daylighting controls

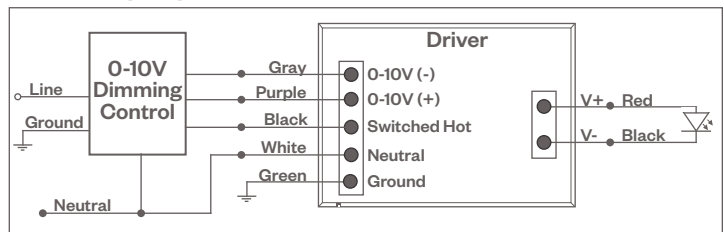
#### Notes:

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

0-10V Wiring Diagram



#### 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.

## 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 ---**

### LUTRON H-SERIES / ECOSYSTEM (-HILUME-H-ECO Option)

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!

#### Compatible Dimmers†:

##### Lutron ECO System

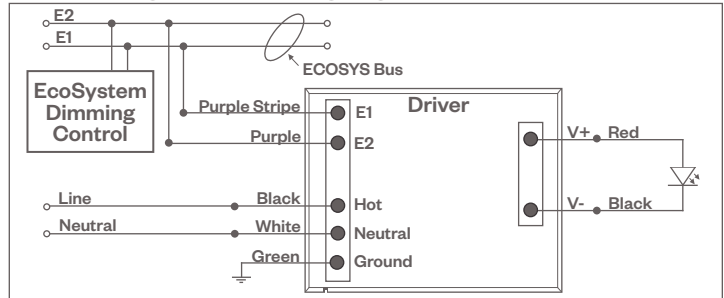
Pow Pak Dimming Modules  
Energi Savr Node  
Grafik Eye QS/Homeworks  
QS Control Unit  
Quantum Hub  
Homeworks QS/My Room

##### Central System

Lutron EcoSystem compatible controls

### HILUME-H-ECO, HILUME-5-ECO

#### 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†:

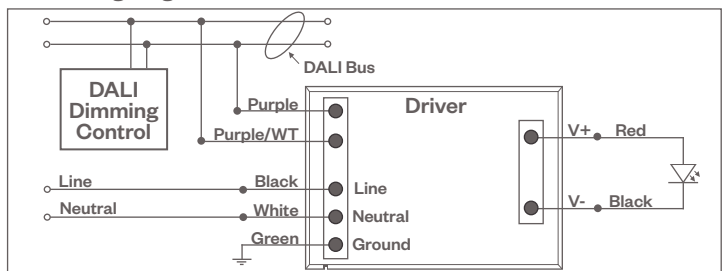
##### Wall Box (3-Wire Fluorescent)

Leviton CD250 Controller

##### Central System

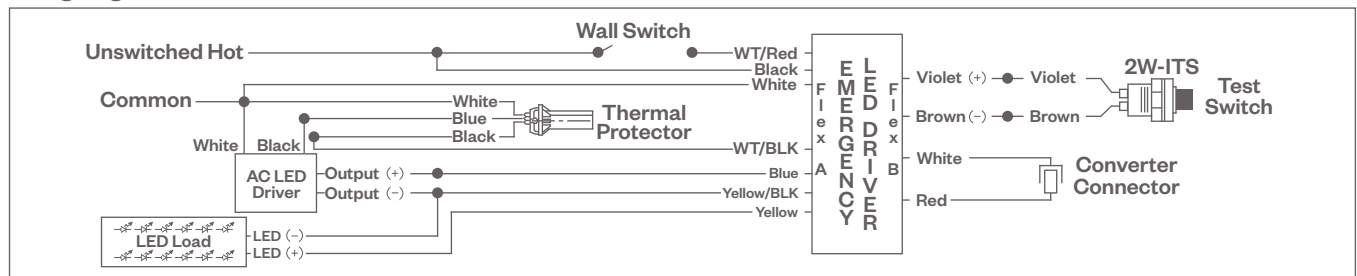
Dynalite  
Fifth Light

#### DALI Wiring Diagram



### EMERGENCY DIMMING (-EM OPTION)

#### Wiring Diagram



#### Notes:

- \* Driver is 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.