

# Hornet® HP

## Square Downlights

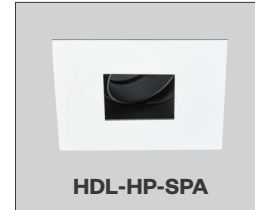


**PROJECT:**

**TYPE:**

### 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" square trim available as a fixed downlight, adjustable or pinhole adjustable aperture. Remodeler, Trimless and Millwork options available.



### Product Overview

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

### Certifications



**5** year limited warranty  
 AMERLUX LED



### Fixture Summary

#### Fixture Type

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

See separate spec sheet for Round trims.

#### Performance Data

| Watts | Delivered Lumens | LPW | CBCP   | Color Temp-CRI |
|-------|------------------|-----|--------|----------------|
| 13    | 848              | 65  | 8,127  | 3000K-83       |
| 18    | 1175             | 65  | 11,253 | 3000K-83       |
| 20    | 1305             | 65  | 12,503 | 3000K-83       |

Data is based on 3000K-83 120V IES files available on website.

Data is based on Spot optics, See pg 8-11 for other performance data.

All wattages and LPW's include 2W for thermal protector.

#### Electrical Data

| Voltage | 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.

# Hornet® HP

## Square Downlights



|          |       |
|----------|-------|
| PROJECT: | TYPE: |
|----------|-------|

### Ordering Information - Housing/Frame

|          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
| <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> |
|----------|----------|----------|----------|----------|----------|

| 1 Model                                                                                                                                                                                                                                                                                                                | 2 Style                                                                                                                                                                                                                                                                                                                                              | 3 Wattage                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>For New Construction</b><br/> <b>HDL-HP-S-NC-A17</b> (New Construction)<br/> <b>HDL-HP-S-CP-A17</b> (Chicago Plenum (CCEA) housing)<br/> <b>HDL-HP-S-IC-A17</b><sup>T24</sup> (Insulated Ceiling/air tight, 13W &amp; 18W only)</p> <p><b>For Existing Ceilings</b><br/> <b>HDL-HP-S-REM-A17</b> (Remodeler)</p> | <p><b>T</b> trimmed<br/> <b>TL</b> trimless<br/> <b>MWK<sup>R</sup></b> millwork (for 1/2" - 11/16" ceiling thickness)<br/> <b>MWK1<sup>R</sup></b> millwork (for 3/4" - 1-1/2" ceiling thickness)<br/> <b>MWK2<sup>R</sup></b> millwork (for 1-1/2" - 2" ceiling thickness)<br/> <sup>R</sup> <b>Not available for use with Remodeler model</b></p> | <p><b>13</b><sup>T24</sup><br/> <b>18</b><sup>T24</sup><br/> <b>20</b> (not available for use with IC housing)</p>                                                                                                                                                                                                                                               |
| 4 Voltage                                                                                                                                                                                                                                                                                                              | 5 Driver (for non-dimming, select LE/TE option)                                                                                                                                                                                                                                                                                                      | 6 Options/Accessories                                                                                                                                                                                                                                                                                                                                            |
| <p><b>120</b><br/> <b>277</b><br/> <b>120/277</b> (for use with IC housing only)</p>                                                                                                                                                                                                                                   | <p><b>LE/TE</b><sup>T24</sup> TRIAC/ELV dimming<br/> <b>HILUME-H-ECO</b> - Lutron LDE1 Hi-lume®<br/>           1% dim Soft-On/Fade-to-Black<br/> <b>0-10V</b><sup>T24</sup> 0-10V dimming, 1% dim<br/> <b>DALI</b> DALI dimming, 1% dim</p>                                                                                                          | <p><b>EM</b> - emergency battery pack with remote test switch (not available for use with REM, CP or IC options)<br/> <b>HB49</b> - hanger bars from min 29" to max 49" (not available for use with REM options)<br/> <i>Note: 26" hanger bars are included as standard.</i><br/>           Choose <b>HB49</b> option above for larger mounting spaces only.</p> |

### Ordering Information - Trim

|          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
| <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> |
|----------|----------|----------|----------|----------|----------|

| 1 Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 Style                                                                                                                                                    | 3 Finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--|---------------------------|--|-----------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------|--|--------------------|----------------------|----------------------------------------------------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>HDL-HP-SD-A17</b> (downlight)<br/> <b>HDL-HP-SA-A17</b> (adjustable)<br/> <b>HDL-HP-SPA-A17</b> (pinhole adjustable)<br/> <b>HDL-HP-SPASHW-A17</b> (shower, not available in trimless)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>T</b> trimmed<br/> <b>TL</b> trimless (not available for use with SPASHW trim)<br/> <b>MWK</b> millwork (not available for use with SPASHW trim)</p> | <p><b>RD/RA Trims</b><br/> <b>Trimmed</b> <span style="float: right;"><b>Trimless/Millwork</b></span><br/> <b>MBW</b> matte black, white flange <span style="float: right;"><b>MB</b> matte black</span><br/> <b>MWW</b> matte white, white flange <span style="float: right;"><b>MW</b> matte white</span><br/> <b>SLVW</b> matte silver, white flange <span style="float: right;"><b>SLV</b> matte silver</span><br/> <b>MBB</b> matte black, black flange<br/> <b>SLVS</b> matte silver, silver flange</p> <p><b>RPA/RPAS/RPASHW Trims (T/TL/MWK)</b><br/> <b>MB</b> matte black<br/> <b>MW</b> matte white<br/> <b>SLV</b> matte silver<br/> <b>PC</b> polished chrome (not available for use with MWK)<br/> <b>BN</b> brushed nickel (not available for use with MWK)</p> |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| 4 Beam Spread                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 Color Temp                                                                                                                                               | 6 Options/Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>SD/SA</b></td> <td style="width: 50%;"><b>SPA/SPASHW</b></td> </tr> <tr> <td><b>SP</b><sup>T24</sup></td> <td><b>SP</b><sup>T24</sup></td> </tr> <tr> <td><b>NF</b><sup>T24</sup></td> <td><b>NF</b><sup>T24</sup></td> </tr> <tr> <td><b>MFL</b><sup>T24</sup></td> <td><b>MFL</b><sup>T24</sup></td> </tr> <tr> <td><b>FL</b><sup>T24</sup></td> <td><b>FL</b><sup>T24</sup></td> </tr> <tr> <td><b>WF</b><sup>T24</sup></td> <td></td> </tr> <tr> <td><b>VWF</b><sup>T24</sup></td> <td></td> </tr> <tr> <td><b>LS</b></td> <td></td> </tr> </table> <p><i>SP spot 15°, NF narrow flood 22°, MFL medium flood 25°, FL flood 28°, WF wide flood 45°, VWF very wide flood 60°, LS linear spread lens 60°x10°</i></p> | <b>SD/SA</b>                                                                                                                                               | <b>SPA/SPASHW</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>SP</b> <sup>T24</sup> | <b>SP</b> <sup>T24</sup> | <b>NF</b> <sup>T24</sup> | <b>NF</b> <sup>T24</sup> | <b>MFL</b> <sup>T24</sup> | <b>MFL</b> <sup>T24</sup> | <b>FL</b> <sup>T24</sup> | <b>FL</b> <sup>T24</sup> | <b>WF</b> <sup>T24</sup> |  | <b>VWF</b> <sup>T24</sup> |  | <b>LS</b> |  | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%;"><b>83 CRI</b></td> <td style="width: 33.33%;"><b>90+ CRI</b><sup>T24</sup></td> <td style="width: 33.33%;"></td> </tr> <tr> <td><b>27</b> 2700K-83</td> <td><b>229</b> 2200K-90+</td> <td rowspan="5"><b>CRISP</b> CrispWhite (18W max)<br/><b>3CLA</b> 3000K Class A</td> </tr> <tr> <td><b>30</b> 3000K-83</td> <td><b>279</b> 2700K-90+</td> </tr> <tr> <td><b>35</b> 3500K-83</td> <td><b>309</b> 3000K-90+</td> </tr> <tr> <td><b>40</b> 4000K-83</td> <td><b>359</b> 3500K-90+</td> </tr> <tr> <td></td> <td><b>409</b> 4000K-90+</td> </tr> </table> | <b>83 CRI</b> | <b>90+ CRI</b> <sup>T24</sup> |  | <b>27</b> 2700K-83 | <b>229</b> 2200K-90+ | <b>CRISP</b> CrispWhite (18W max)<br><b>3CLA</b> 3000K Class A | <b>30</b> 3000K-83 | <b>279</b> 2700K-90+ | <b>35</b> 3500K-83 | <b>309</b> 3000K-90+ | <b>40</b> 4000K-83 | <b>359</b> 3500K-90+ |  | <b>409</b> 4000K-90+ | <p>(not JA8/Title 24 compliant)<br/> <b>HEX</b> hexcell louver (not available for use with SPASHW trim)<br/> <b>SOL</b> solite beam softening lens (comes standard with SPASHW trim)</p> |
| <b>SD/SA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>SPA/SPASHW</b>                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>SP</b> <sup>T24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>SP</b> <sup>T24</sup>                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>NF</b> <sup>T24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>NF</b> <sup>T24</sup>                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>MFL</b> <sup>T24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>MFL</b> <sup>T24</sup>                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>FL</b> <sup>T24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>FL</b> <sup>T24</sup>                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>WF</b> <sup>T24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>VWF</b> <sup>T24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>LS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>83 CRI</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>90+ CRI</b> <sup>T24</sup>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>27</b> 2700K-83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>229</b> 2200K-90+                                                                                                                                       | <b>CRISP</b> CrispWhite (18W max)<br><b>3CLA</b> 3000K Class A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>30</b> 3000K-83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>279</b> 2700K-90+                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>35</b> 3500K-83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>309</b> 3000K-90+                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
| <b>40</b> 4000K-83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>359</b> 3500K-90+                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>409</b> 4000K-90+                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                           |                           |                          |                          |                          |  |                           |  |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                               |  |                    |                      |                                                                |                    |                      |                    |                      |                    |                      |  |                      |                                                                                                                                                                                          |

<sup>T24</sup> JA8/Title 24 Compliant

# Hornet® HP

## Square Downlights



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° (*SA trim*), 0-20° (*SPA/SPASHW 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 (*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:** 13W, 18W, 20W  
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*) or Trailing Edge (*ELV, Reverse Phase*)  
0-10V, Lutron and DALI systems also available  
*See pages 11-12 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" standard  
**Trimless Fixture (*not available with Shower trim*):**  
For use in sheetrock ceilings, max ceiling thickness 5/8"  
**Millwork Fixture:**  
Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material.  
Max thickness 2"  
**Not available for use with Remodeler model**

#### Certifications

CSA damp as tested to UL 1598 standards  
IC/AT rated (*optional, 13W & 18W only*)  
JAB/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, OP or IC versions*)  
*See wiring schematic on pg 14.*

### Accessories (*diagram shows installation order*)



Hexcell, optical film, solite lens

# Hornet® HP

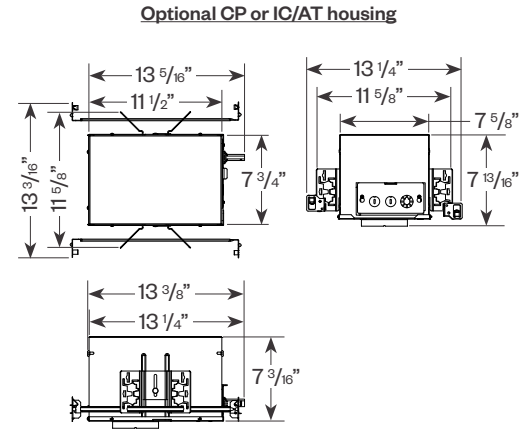
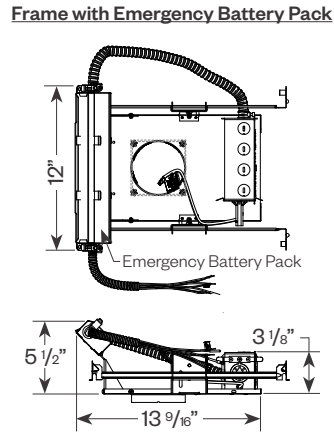
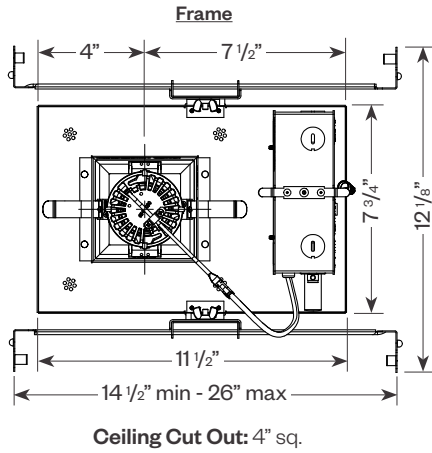
## Square Downlights



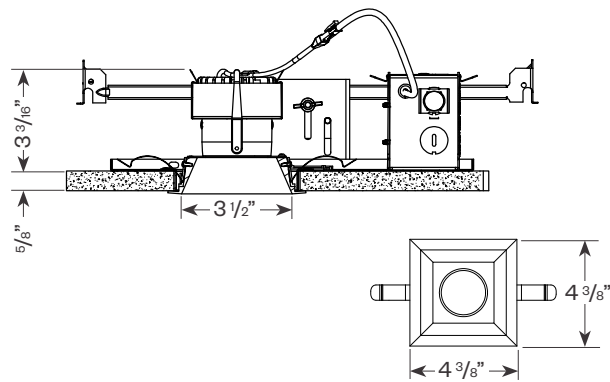
PROJECT:

TYPE:

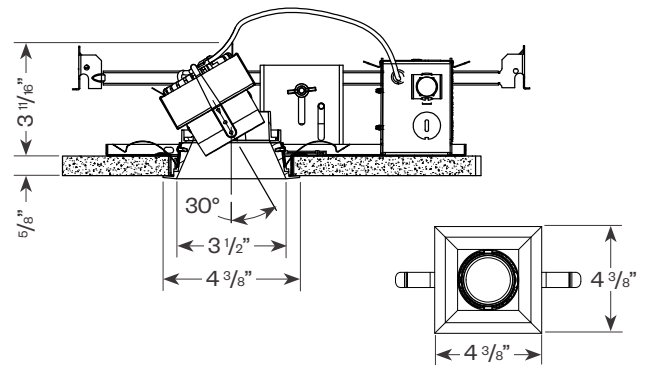
### Product Details - Trimmed



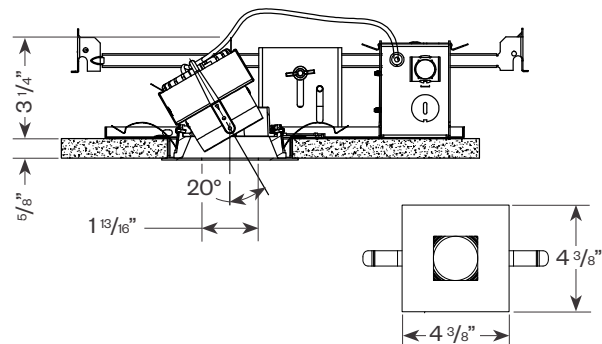
### Downlight



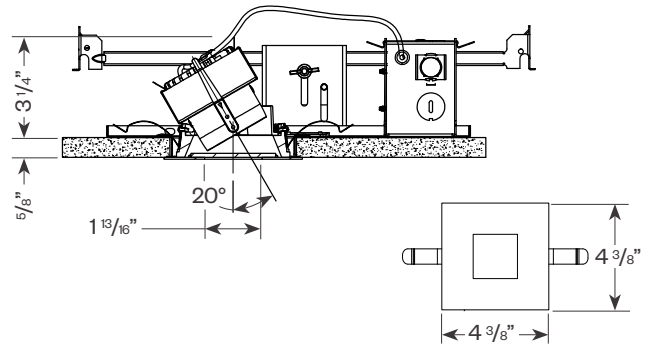
### Adjustable



### Pinhole Adjustable



### Pinhole Adjustable Shower

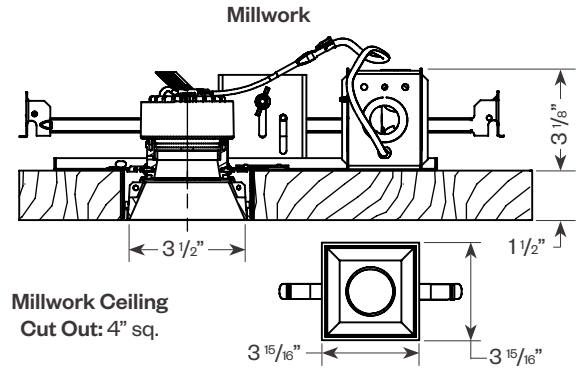
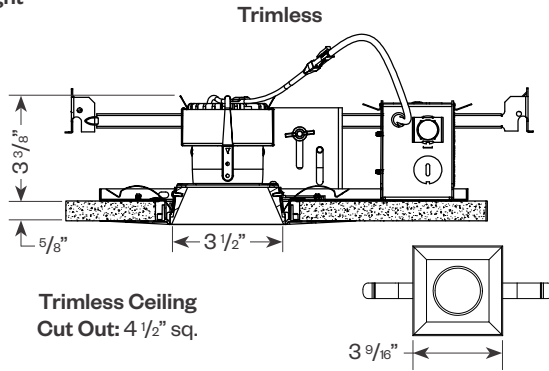


PROJECT:

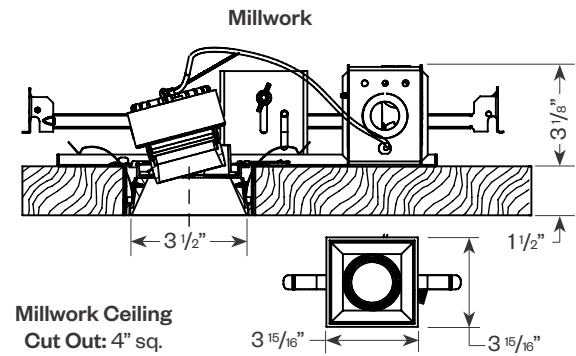
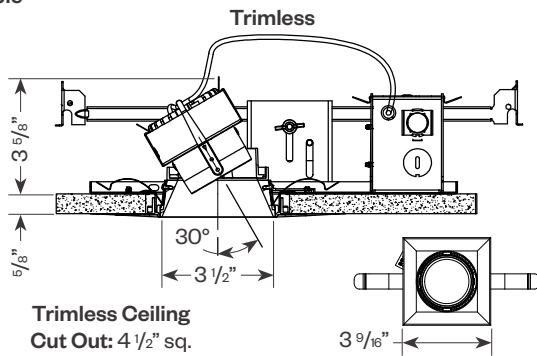
TYPE:

### Product Details - Trimless & Millwork

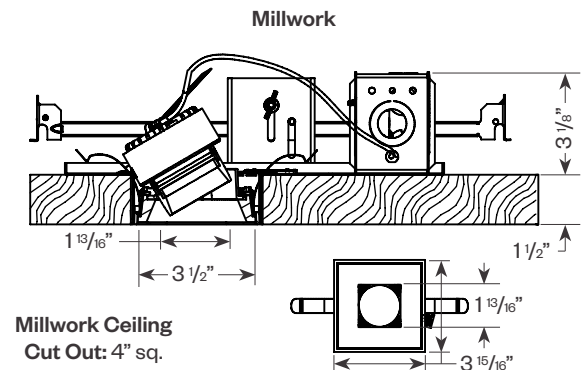
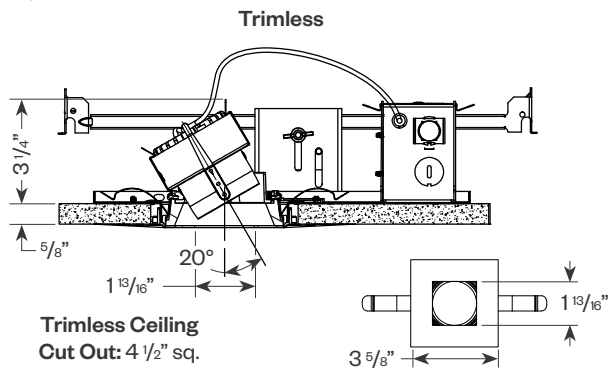
#### Downlight



#### Adjustable

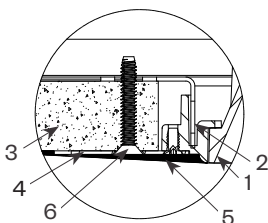


#### Pinhole Adjustable



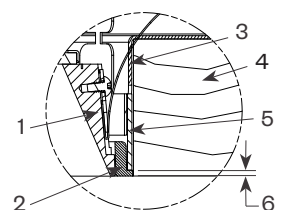
#### Plaster Frame Installation Detail (for trimless fixture only)

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



#### Millwork Detail

1. Reflector Trim
2. Millwork Ring
3. Aperture Plate
4. Wood Ceiling 2" Max
5. Extension collar (see ordering information for ceiling thicknesses)
6. 1/16" required for trim to be flush with ceiling



# Hornet® HP

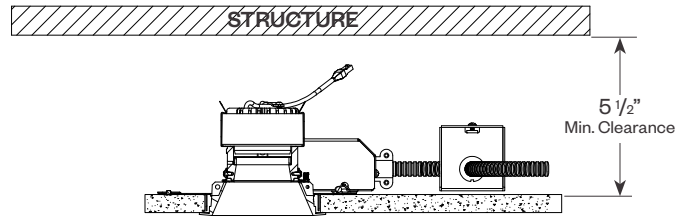
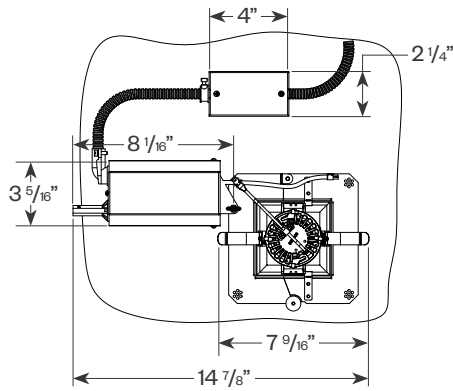
Square Downlights



PROJECT:

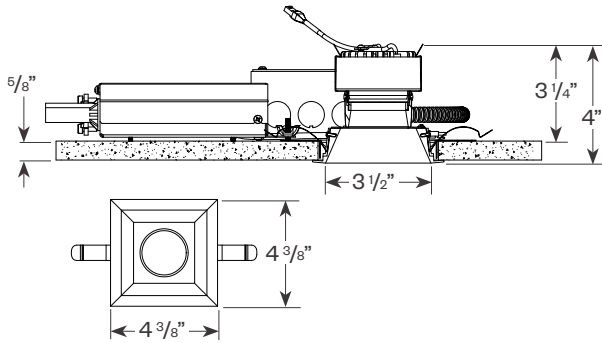
TYPE:

## Product Details - Remodeler Trimmed

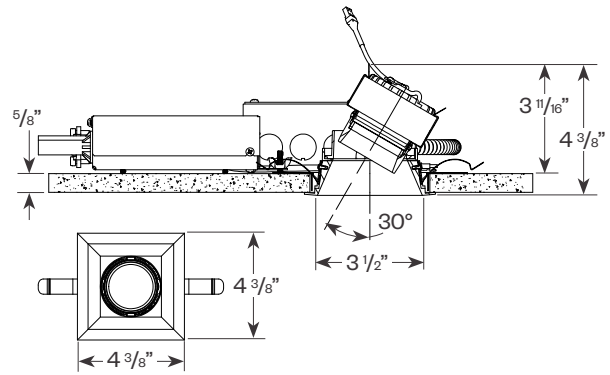


Ceiling Cut Out: 4" sq.

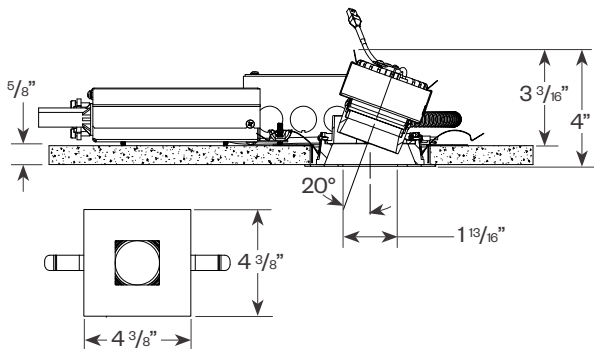
### Downlight



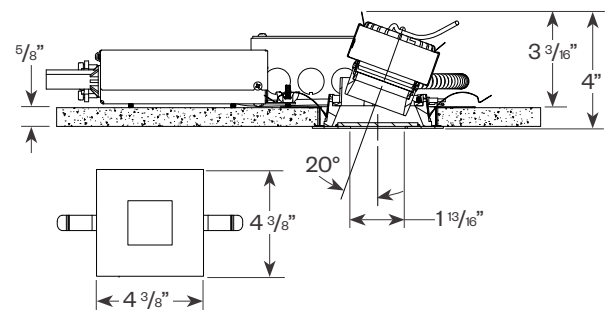
### Adjustable



### Pinhole Adjustable



### Pinhole Adjustable Shower



# Hornet® HP

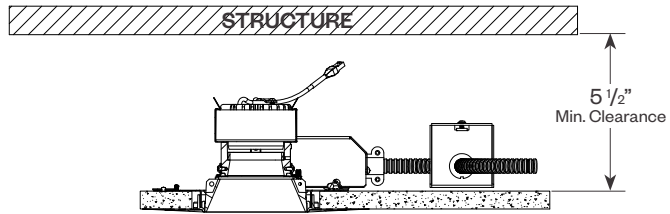
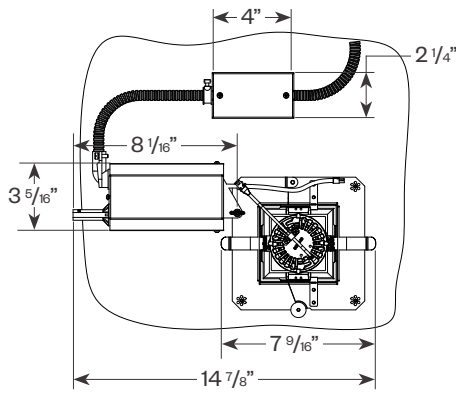
Square Downlights



PROJECT:

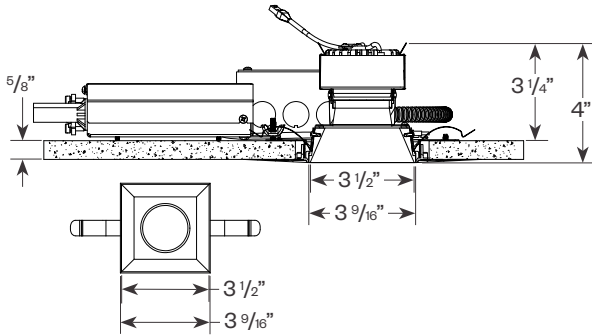
TYPE:

## Product Details - Remodeler Trimless

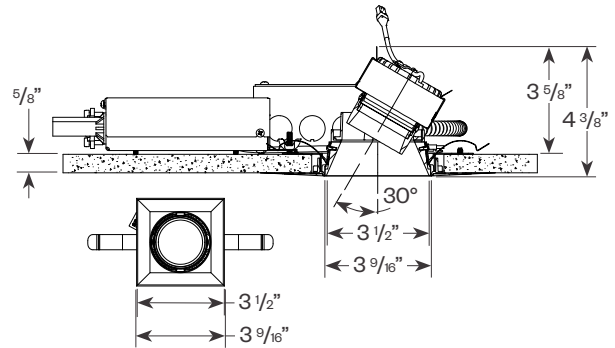


Trimless Ceiling Cut Out: 4 1/2" sq.

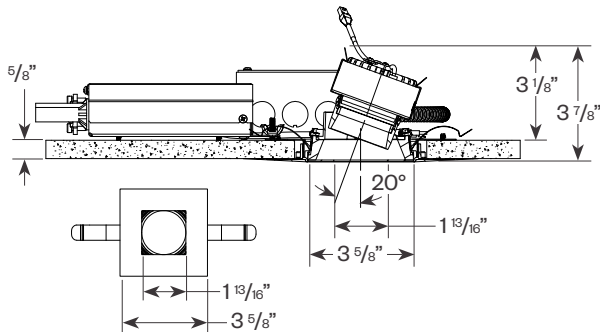
### Downlight



### Adjustable

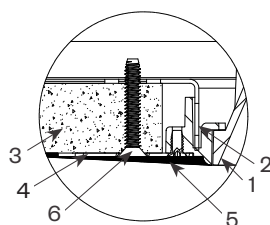


### Pinhole Adjustable



## 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



PROJECT:

TYPE:

### Performance Data - Round Downlight (HDL-HP-SD)

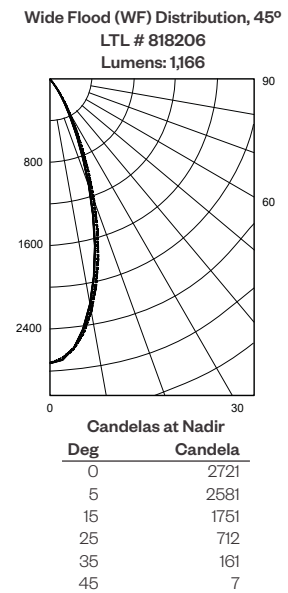
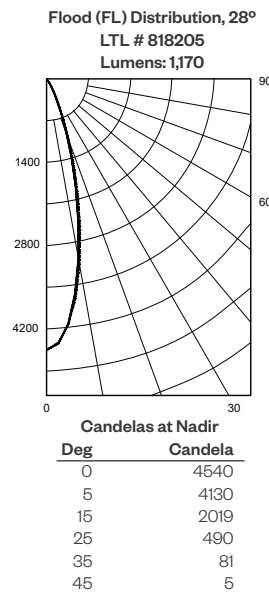
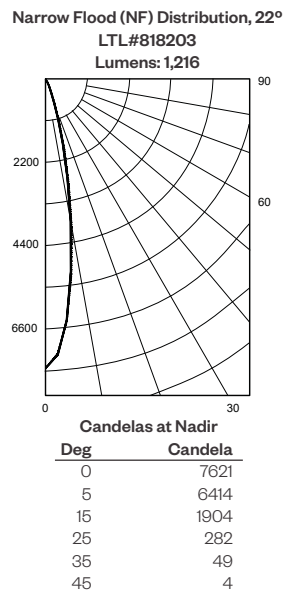
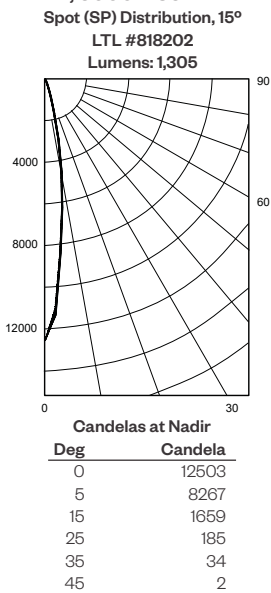
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.65 | 0.90 | 1.0 |

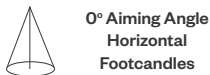
| CCT:    | 2700K-83 | 3000K-83 | 3500K-83 | 4000K-83 |
|---------|----------|----------|----------|----------|
| Factor: | 0.96     | 1.0      | 1.02     | 1.04     |

| 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 |

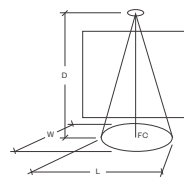
#### 20W LED, 3000K-83



### Application Data - Round Downlight (HDL-HP-SD)



|              |       | 0° Aiming Angle<br>Horizontal<br>Footcandles |     |     |   |
|--------------|-------|----------------------------------------------|-----|-----|---|
|              |       | D                                            | FC  | L   | W |
| Spot         | 5.0'  | 290                                          | 1.9 | 1.9 |   |
|              | 7.5'  | 161                                          | 2.6 | 2.6 |   |
|              | 10.0' | 101                                          | 3.1 | 3.1 |   |
|              | 12.5' | 69                                           | 3.7 | 3.7 |   |
| Narrow Flood | 5.0'  | 219                                          | 2.2 | 2.2 |   |
|              | 7.5'  | 114                                          | 3.0 | 3.0 |   |
|              | 10.0' | 69                                           | 3.8 | 3.8 |   |
|              | 12.5' | 45                                           | 4.7 | 4.7 |   |
| Flood        | 5.0'  | 141                                          | 2.7 | 2.7 |   |
|              | 7.5'  | 70                                           | 3.7 | 3.7 |   |
|              | 10.0' | 42                                           | 4.9 | 4.9 |   |
|              | 12.5' | 27                                           | 6.0 | 6.0 |   |
| Wide Flood   | 5.0'  | 97                                           | 3.3 | 3.3 |   |
|              | 7.5'  | 46                                           | 4.8 | 4.8 |   |
|              | 10.0' | 26                                           | 6.3 | 6.3 |   |
|              | 12.5' | 17                                           | 7.7 | 7.7 |   |



#### 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).



# Hornet® HP

## Square Downlights



PROJECT:

TYPE:

### Performance Data - Round Adjustable (HDL-HP-SA)

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

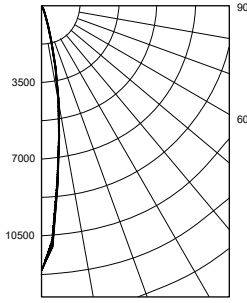
| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.65 | 0.90 | 1.0 |

| 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 |

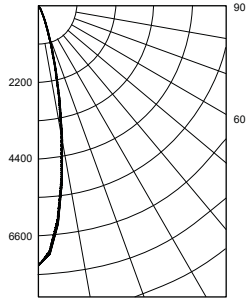
#### 20W LED, 3000K-83

Spot (SP) Distribution, 15°  
LTL #818193  
Lumens: 1,300



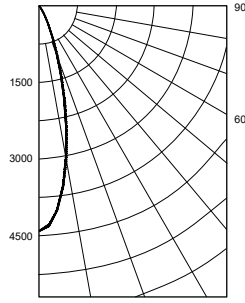
| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 12031   |
| 5                 | 7996    |
| 15                | 1673    |
| 25                | 203     |
| 35                | 40      |
| 45                | 3       |

Narrow Flood (NF) Distribution, 22°  
LTL #818194  
Lumens: 1,239



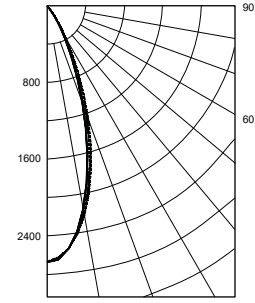
| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 7431    |
| 5                 | 6154    |
| 15                | 1767    |
| 25                | 279     |
| 35                | 53      |
| 45                | 5       |

Flood (FL) Distribution, 28°  
LTL # 818196  
Lumens: 1,160



| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 4396    |
| 5                 | 3992    |
| 15                | 1958    |
| 25                | 503     |
| 35                | 86      |
| 45                | 6       |

Wide Flood (WF) Distribution, 45°  
LTL # 818238  
Lumens: 1,156



| Candelas at Nadir |         |
|-------------------|---------|
| Deg               | Candela |
| 0                 | 2669    |
| 5                 | 2537    |
| 15                | 1759    |
| 25                | 763     |
| 35                | 177     |
| 45                | 9       |

### Application Data - Round Adjustable (HDL-HP-SA)

30° Aiming Angle  
Horizontal  
Footcandles

| Spot  | D    | FC  | L   | W   |
|-------|------|-----|-----|-----|
|       | 5.0' | 281 | 1.9 | 1.9 |
| 7.5'  | 156  | 2.6 | 2.6 |     |
| 10.0' | 98   | 3.2 | 3.2 |     |
| 12.5' | 66   | 3.7 | 3.7 |     |

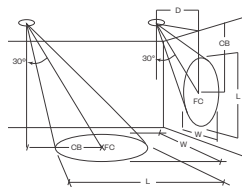
| Narrow Flood | D    | FC  | L   | W   |
|--------------|------|-----|-----|-----|
|              | 5.0' | 215 | 2.2 | 2.2 |
| 7.5'         | 112  | 3.0 | 3.0 |     |
| 10.0'        | 67   | 3.7 | 3.8 |     |
| 12.5'        | 44   | 4.6 | 4.7 |     |

| Flood | D    | FC  | L   | W   |
|-------|------|-----|-----|-----|
|       | 5.0' | 151 | 2.6 | 2.6 |
| 7.5'  | 73   | 3.6 | 3.5 |     |
| 10.0' | 43   | 4.8 | 4.7 |     |
| 12.5' | 28   | 5.9 | 5.8 |     |

| Wide Flood | D    | FC  | L   | W   |
|------------|------|-----|-----|-----|
|            | 5.0' | 95  | 3.3 | 3.3 |
| 7.5'       | 45   | 4.9 | 4.6 |     |
| 10.0'      | 26   | 6.4 | 6.0 |     |
| 12.5'      | 17   | 7.9 | 7.4 |     |



#### 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).

# Hornet® HP

## Square Downlights



PROJECT:

TYPE:

### Performance Data - Round Pinhole Adjustable (HDL-HP-SPA)

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

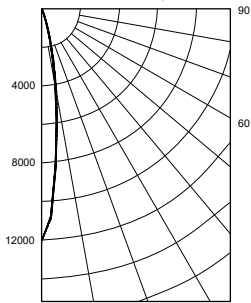
| Wattage: | 13W  | 18W  | 20W |
|----------|------|------|-----|
| Factor:  | 0.65 | 0.90 | 1.0 |

| 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-83

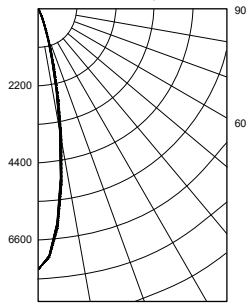
Spot (SP) Distribution, 15°  
LTL #818198  
Lumens: 1,181



Candelas at Nadir

| Deg | Candela |
|-----|---------|
| 0   | 11999   |
| 5   | 8118    |
| 15  | 1462    |
| 25  | 65      |
| 35  | 6       |
| 45  | 0       |

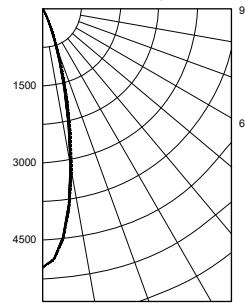
Narrow Flood (NF) Distribution, 22°  
LTL #818199  
Lumens: 1,070



Candelas at Nadir

| Deg | Candela |
|-----|---------|
| 0   | 7421    |
| 5   | 6260    |
| 15  | 1564    |
| 25  | 126     |
| 35  | 11      |
| 45  | 1       |

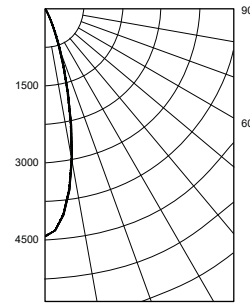
Medium Flood (MFL) Distribution, 25°  
LTL # 818200  
Lumens: 1,010



Candelas at Nadir

| Deg | Candela |
|-----|---------|
| 0   | 5022    |
| 5   | 4486    |
| 15  | 1651    |
| 25  | 210     |
| 35  | 12      |
| 45  | 0       |

Flood (FL) Distribution, 28°  
LTL # 818201  
Lumens: 958



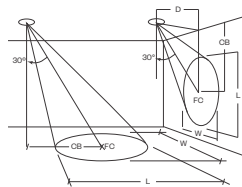
Candelas at Nadir

| Deg | Candela |
|-----|---------|
| 0   | 4416    |
| 5   | 3999    |
| 15  | 1623    |
| 25  | 218     |
| 35  | 12      |
| 45  | 0       |

### Application Data - Round Pinhole Adjustable (HDL-HP-SPA)

30° Aiming Angle  
Horizontal  
Footcandles

|              | D     | FC  | L   | W   |
|--------------|-------|-----|-----|-----|
| Spot         | 5.0'  | 278 | 1.8 | 1.8 |
|              | 7.5'  | 156 | 2.5 | 2.5 |
|              | 10.0' | 97  | 3.1 | 3.1 |
|              | 12.5' | 66  | 3.6 | 3.6 |
| Narrow Flood | 5.0'  | 212 | 2.1 | 2.1 |
|              | 7.5'  | 111 | 2.9 | 2.9 |
|              | 10.0' | 67  | 3.6 | 3.6 |
|              | 12.5' | 44  | 4.5 | 4.4 |
| Flood        | 5.0'  | 167 | 2.4 | 2.3 |
|              | 7.5'  | 82  | 3.3 | 3.2 |
|              | 10.0' | 48  | 4.3 | 4.2 |
|              | 12.5' | 31  | 5.3 | 5.2 |
| Wide Flood   | 5.0'  | 143 | 2.5 | 2.5 |
|              | 7.5'  | 71  | 3.4 | 3.5 |
|              | 10.0' | 41  | 4.5 | 4.6 |
|              | 12.5' | 27  | 5.5 | 5.6 |



#### 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).

# Hornet® HP

## Square Downlights



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 ---

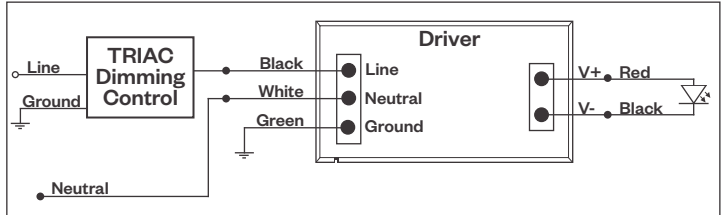
#### TRIAC (Forward Phase) DIMMING (Standard)

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"        |                      |

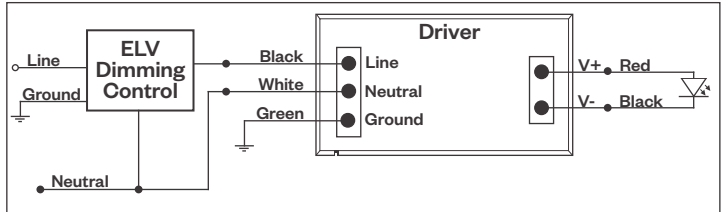
#### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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 per dimming manufacturer

#### ELV Wiring Diagram



| Compatible Dimmers†:  |                           |                                              |
|-----------------------|---------------------------|----------------------------------------------|
| Wall Box (ELV 120VAC) | Wall Box (ELV 277VAC)     | Central System                               |
| Lutron "Diva"         | Leviton Revoir II AWSMT-E | Lutron "GP" Panel with PHPM-PA 120/277VAC    |
| Lutron "Nova-T"       |                           | Lutron Grafik Eye QS with PHPM-PA 120/277VAC |
| Lutron "Maestro"      |                           |                                              |
| Lutron "Skylark"      |                           |                                              |
| Leviton "Surslide"    |                           |                                              |
| Leviton "Vizio"       |                           |                                              |

**Notes:**  
 \* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.  
 † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

# Hornet® HP

## Square Downlights



PROJECT:

TYPE:

### Dimming Compatibility (continued)

Amerlux® Hornet® fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

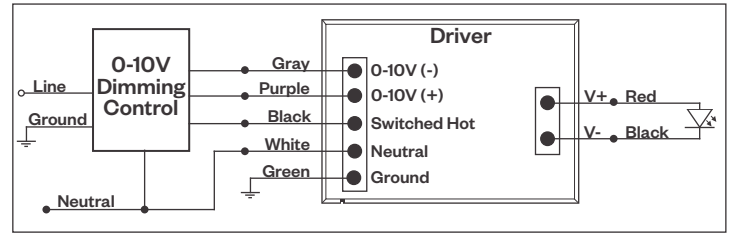
#### 0-10V DIMMING

Integrates into a variety of building management and daylighting controls

**Notes:**

- 120VAC or 277VAC\*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

#### 0-10V Wiring Diagram



**Compatible Dimmers\*:**

| Wall Box              | Central System                           |
|-----------------------|------------------------------------------|
| Lutron "Diva" - DVSTV | Lutron Grafik Eye with GRX-TV1 Interface |

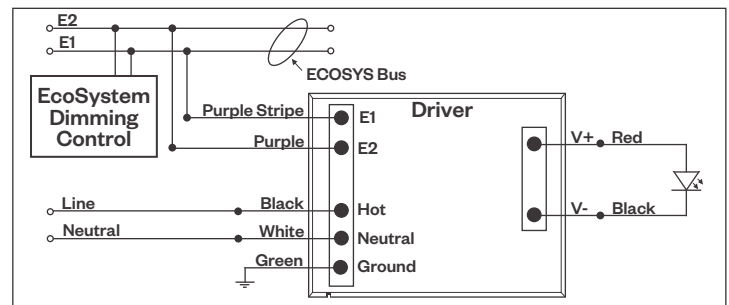
#### LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

**Notes:**

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

#### LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



**Compatible Dimmers\*:**

| Lutron ECO System       | Central System                       |
|-------------------------|--------------------------------------|
| Pow Pak Dimming Modules | Lutron EcoSystem compatible controls |
| Energj Savr Node        |                                      |
| Grafik Eye QS/Homeworks |                                      |
| QS Control Unit         |                                      |
| Quantum Hub             |                                      |
| Homeworks QS/My Room    |                                      |

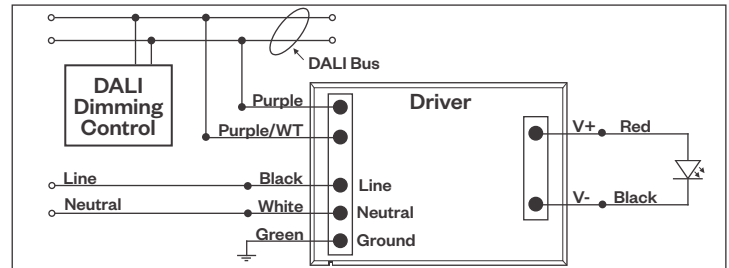
#### DALI DIMMING

Digital control protocol allows individual fixture control

**Notes:**

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

#### DALI Wiring Diagram



**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:

### Emergency Battery Pack

#### Wiring Diagram

