Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

amerlux

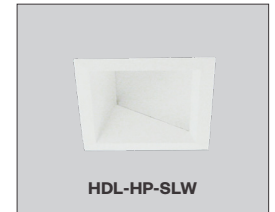| PROJECT:	TYPE:

Features

Add ambiance to any hospitality, residential, retail or commercial space. Amerlux Hornet HP Downlight Dim-To-Warm option offers a lower kelvin temperature as you dim the lights. An adaptable light source in a cost-effective, solid state lighting package. The Dim-To-Warm option can tap into the powerful mediums of light and color to enhance the experience, well-being, and human emotion. Amerlux Dim-To-Warm allows designers to simulate the familiar glow and dimming of incandescent lamps. Available for trimmed, trimless or millwork applications.

HDL-HP-SLD

HDL-HP-SLW

HDL-HP-SLD-TL
(trimless)

HDL-HP-SLD-MWK
(millwork)

Product Overview
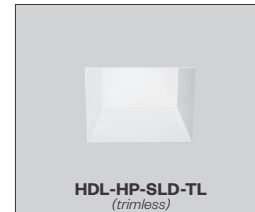
Type: Recessed Round Lensed Downlight/Wall Wash
Wattage: 15W
Color Temp: 3000K to 1800K
                95 typ.
Dimming: **Wired:** TRIAC & ELV, Hi-lume®, 0-10V, DALI
                Wireless: Lutron Athena RF node, BubblyNet Bluetooth

Certifications

CSA c us   5 year limited warranty AMERLUX LED   DTW

Fixture Summary

Fixture Type

New Construction	Remodeler	Trim	Trimless
Yes	Yes	Yes	Yes

Performance Data

	HDL-HP-SLD			HDL-HP-SLW		
Watts	Delivered Lumens	LPW	Color Temp-CRI	Delivered Lumens	LPW	Color Temp-CRI
15	841	55.6	3000K-83	871	59.2	3000K-83

Data is based on 3000K-83 120V IES files available on website.
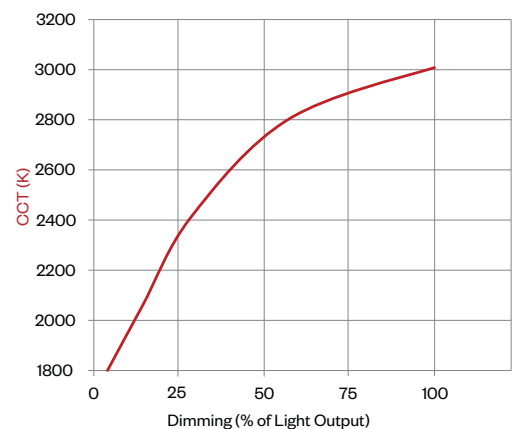*HDL-HP-SLD data is based on 30SOL optic.*
Includes 2W for thermal protector.

Electrical Data

	15W	
Voltage	System Watts	Amps
120V	15	0.13
277V	16	0.06

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

Dim-To-Warm CCT Curve

(Graph: CCT (K) vs Dimming (% of Light Output). Curve rises from ~1800K at low dimming to 3000K at 100% output.)

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PROJECT:	TYPE:

Ordering Information - Housing/Frame

_____ . _____ . _____ . _____ . _____ . _____

[1] **[2]** **[3]** **[4]** **[5]** **[6]**

1	Model
	<u>For New Construction</u>
	HDL-HP-S-NC-DTW-A17 *(New Construction)*
	HDL-HP-S-CP-DTW-A17 *(Chicago Plenum (CCEA) housing)*
	HDL-HP-S-IC-DTW-A17 *(Insulated Ceiling/air tight)*
	<u>For Existing Ceilings</u>
	HDL-HP-R-REM-DTW-A17 *(Remodeler)*

2	Style
	T trimmed
	TL trimless
	MWK^{R ᵀ} millwork *(for 1/2" - 11/16" ceiling thickness)*
	ᴿNot available for use with Remodeler model
	ᵀ Consult factory for use in ceilings thicker than 11/16"

3	Wattage
	15

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

5	Driver *(for non-dimming, select LE/TE option)*
	<u>Wired</u>
	LE/TE TRIAC/ELV dimming
	HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black
	0-10V^{T24} 0-10V dimming, 1% dim
	DALI DALI dimming, 1% dim
	<u>Wireless</u>
	AWNR-010* Lutron Athena wireless node, RF only, 0-10V
	BN-BT-010* BubblyNet Bluetooth node, 0-10V
	* Consult factory for lead time.

6	Options/Accessories
	EM - emergency battery pack with remote test switch *(not available for use with REM, CP or IC options)*
	HB49 - hanger bars from min 29" to max 49" *(not available for use with REM options)*
	Note: 26" hanger bars are included as standard. Choose HB49 option above for larger mounting spaces only.

Ordering Information - Trim

_____ . _____ . _____ . _____ . _____ . _____

[1] **[2]** **[3]** **[4]** **[5]** **[6]**

1	Model
	HDL-HP-SLD-DTW-A17 *(lensed downlight)*
	HDL-HP-SLW-DTW-A17 *(lensed wall wash)*

2	Style
	T trimmed
	TL trimless
	MWK millwork

3	Finish	
	<u>Trimmed</u>	<u>Trimless/Millwork</u>
	MBW matte black, white flange	**MB** matte black
	MWW matte white, white flange	**MW** matte white
	SLVW matte silver, white flange	**SLV** matte silver
	MBB matte black, black flange	
	SLVS matte silver, silver flange	

4	Beam Spread *(not required for SLW fixture)*
	30SOL 30° beam with solite lens
	50SOL 50° beam with solite lens
	65SOL 65° beam with solite lens

5	Color Temp
	<u>95 CRI</u>
	309 3000K-95

6	Options/Accessories
	WET wet location *(only available for use with trimmed style)*

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Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

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PROJECT:	TYPE:

Specifications

Application
Hospitality and commercial ambient or wall wash 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
Lens Options *(for SLD version)*:
Solite lens for maximum efficacy and a visually quieter aperture. 30º, 50º and 65º beam spread options. Visually best with SLV reflector finish.
Beam Spreads *(for SLD version)*:
30SOL - 30º beam with solite lens
50SOL - 50º beam with solite lens
65SOL - 65º beam with solite lens
Wall Wash *(for SLW version)*:
Engineered nano technology lens provides high transmission while concealing LED image

LED
Color Temp Options: 3000K *(dims to 1800K)*
CRI: 95 typ.
R9 Values: 85 *(95 CRI)*
Binning: 3 MacAdam *(SDCM)*
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Electrical
Wattage: 15W
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 10-12 for more dimming information

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

Mounting
26" Hanger bars included *(except for Remodeler versions)*
Optional **HB49** - hanger bars from min 29" to max 49" available
Trimmed Fixture:
For use in grid or sheetrock ceilings, 5/8" - 2" max *(1" max for SLW trims)* standard
Trimless Fixture:
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. Ceiling thickness 1/2"-11/16". Consult factory for use in ceilings thicker than 11/16".
Not available for use with Remodeler model.

Certifications
CSA damp as tested to UL 1598 standards
CP - Chicago Plenum *(CCEA)* option
IC/AT rated (optional)
Damp location
Wet location option
JA10 compliant for Title 24 per UL Test 13005791.01A *(available upon reuquest)*

Warranty
5 year limited warranty

Emergency Battery Pack *(EM)*
Powers fixture at 5.1 watts *(approx. 300 lm)* for 90 minutes *(not for use with REM, CP or IC versions)*

Optional RF Node
Amerlux® has partnered with control companies to create building environments that are safer, and smarter, than ever before. At the heart of our partnership is intelligent RF nodes, the most advanced digital wireless communication available today. Integrated into Amerlux products.
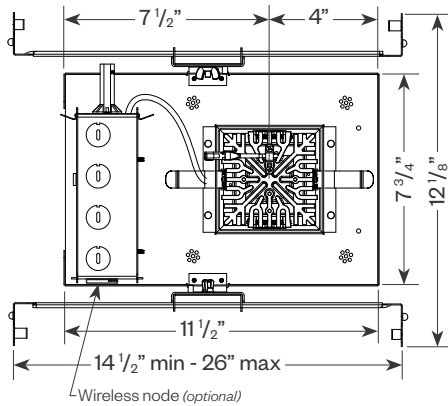
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Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

PROJECT: **TYPE:**
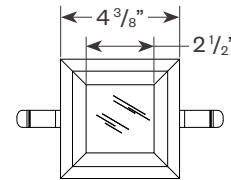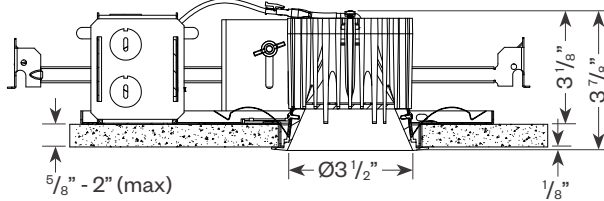
Product Details - Trimmed

7 1/2" | 4" | 7 3/4" | 12 1/8"
11 1/2"
14 1/2" min - 26" max
Wireless node *(optional)*

Optional CP or IC/AT housing

13 5/16" | 11 1/2" | 13 3/8" | 11 5/8" | 7 3/4"
13 1/4" | 11 5/8" | 7 5/8" | 7 13/16"
13 3/8" | 13 1/4" | 7 3/16"
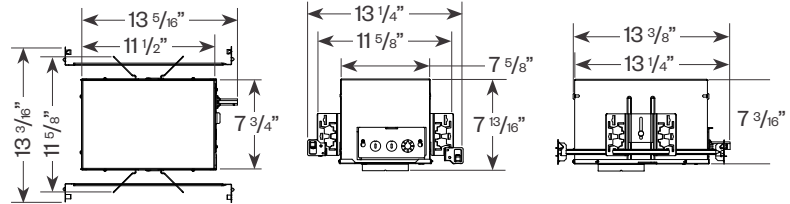
Emergency Battery Pack *(EM)* **option**

12 5/16" | 6"

Hornet HP Round Lensed Downlight *(HDL-HP-SLD)*

3 1/8" | 3 7/8"
5/8" - 2" (max) | Ø3 1/2" | 1/8"

4 3/8" | 2 1/2"
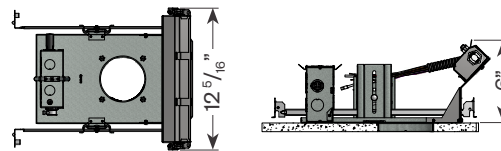
Ceiling Cut Out: 4" sq.

Hornet HP Round Lensed Wall Wash *(HDL-HP-SLW)*
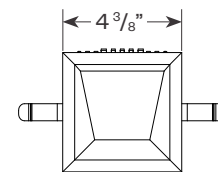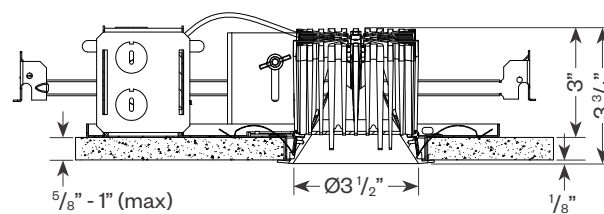
3" | 3 3/4"
5/8" - 1" (max) | Ø3 1/2" | 1/8"

4 3/8"

Ceiling Cut Out: 4" sq.

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Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

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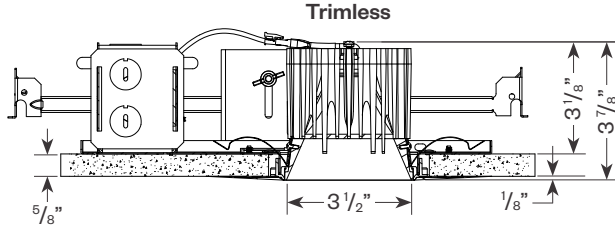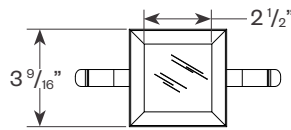
PROJECT:	TYPE:

Product Details - Trimless & Millwork

Hornet HP Square Lensed Downlight *(HDL-HP-SLD-TL or HDL-HP-SLD-MWK)*
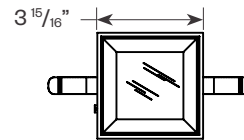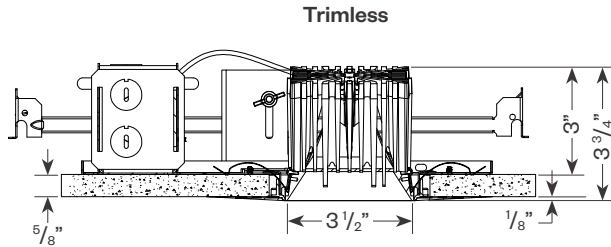
Trimless
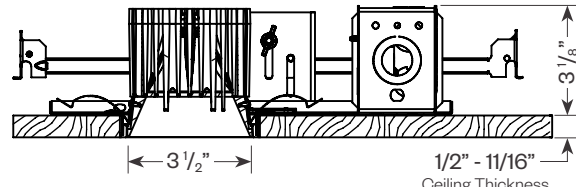
Trimless Ceiling Cut Out: $4\frac{1}{2}$" sq.

Millwork

1/2" - 11/16"
Ceiling Thickness
*(Consult factory
for thicker ceilings)*

Millwork Ceiling Cut Out: 4" sq.

Hornet HP Square Lensed Wall Wash *(HDL-HP-SLW-TL or HDL-HP-SLW-MWK)*

Trimless
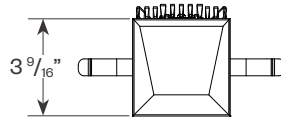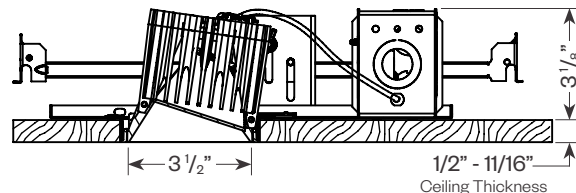
Trimless Ceiling Cut Out: $4\frac{1}{2}$" sq.

Millwork

1/2" - 11/16"
Ceiling Thickness

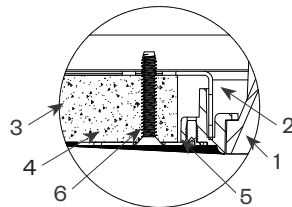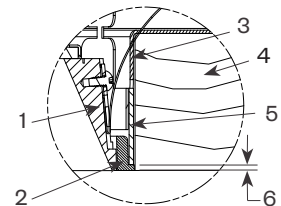**Millwork Ceiling Cut Out:** 4" sq.
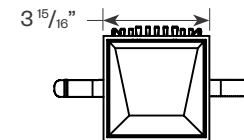
Plaster Frame Installation Detail *(for trimless fixture only)*

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

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

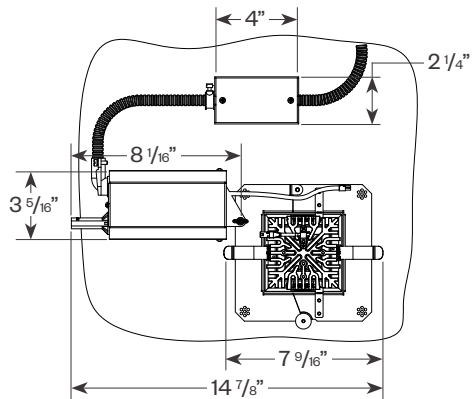**Delta Intelligent Building Technologies**

Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

PROJECT: **TYPE:**

Product Details - Remodeler Trimmed

4"
2 1/4"
8 1/16"
3 5/16"
7 9/16"
14 7/8"

Hornet HP Square Lensed Downlight *(HDL-HP-SLD)*

STRUCTURE

5 1/2" Min. Clearance
3 1/8"
3 7/8"
5/8" - 2" (max)
3 1/2"
4 3/8"
1/8"

4 3/8"
2 1/2"

Ceiling Cut Out: 4" sq.

Hornet HP Square Lensed Wall Wash *(HDL-HP-SLW)*

STRUCTURE

5 1/2" Min. Clearance
3"
3 3/4"
5/8" - 1" (max)
3 1/2"
4 3/8"
1/8"

4 3/8"

Ceiling Cut Out: 4" sq.

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Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**
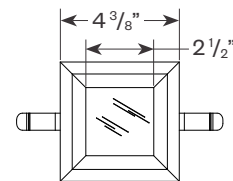
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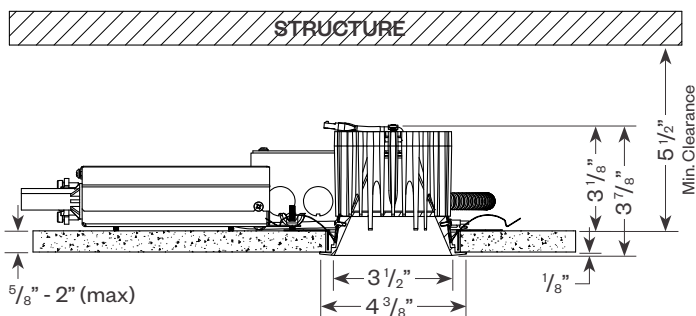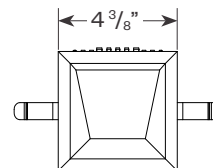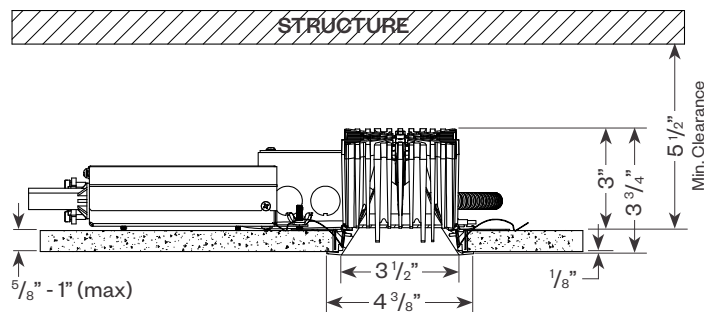
PROJECT:	TYPE:

Product Details - Remodeler Trimless

Hornet HP Square Lensed Downlight *(HDL-HP-SLD-TL)*
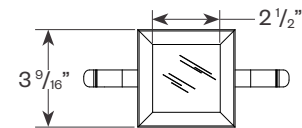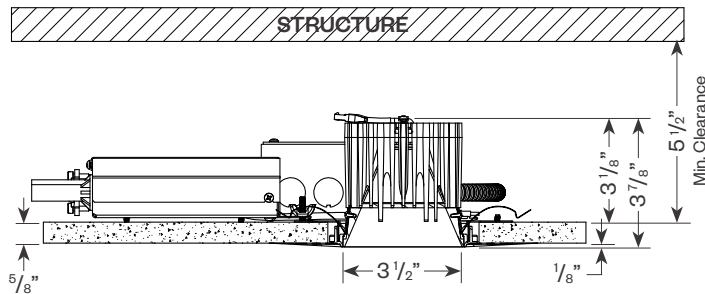
Trimless Ceiling Cut Out: 4 $1/2$" sq.

Hornet HP Square Lensed Wall Wash *(HDL-HP-SLW-TL)*
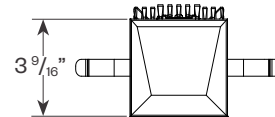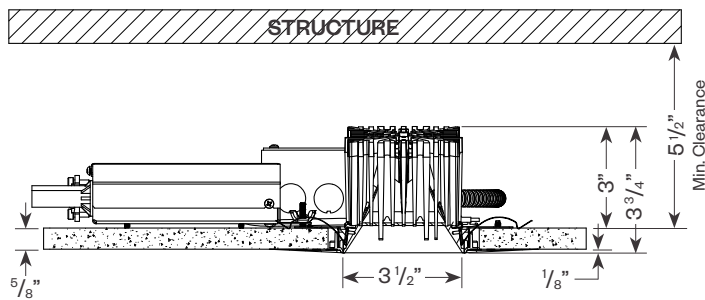
Trimless Ceiling Cut Out: 4 $1/2$" sq.

Plaster Frame Installation Detail *(for remodeler trimless fixture only)*

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

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Hornet® HP

Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

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PROJECT:	TYPE:

Performance Data - Square Lensed Downlight *(HDL-HP-SLD-DTW)*

(Complete photometric data (.ies format) available on website)

15W LED, 3000K-95

30° Solite Lens
LTL # 11919582.27
Lumens: 841

Candelas at Nadir

Deg	Candela
0	2380
5	2209
15	923
25	387
35	57
45	21

50° Solite Lens
LTL # 11919582.28
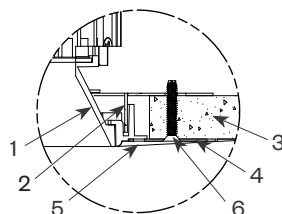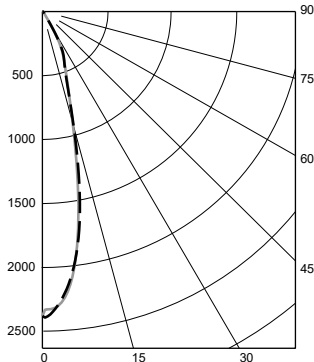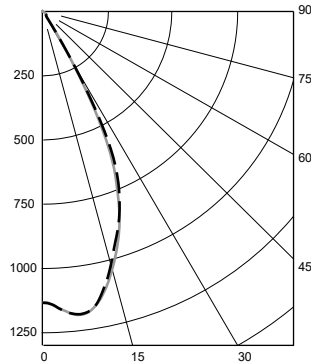Lumens: 834

Candelas at Nadir

Deg	Candela
0	1133
5	1176
15	1043
25	644
35	54
45	21

65° Solite Lens
LTL # 11919582.29
Lumens: 823
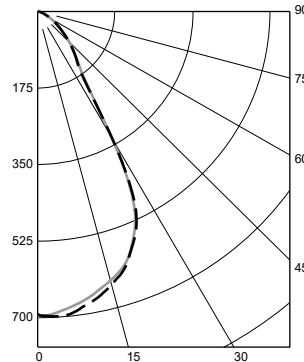
Candelas at Nadir

Deg	Candela
0	692
5	685
15	636
25	521
35	179
45	104

Application Data - Square Lensed Downlight *(HDL-HP-SLD-DTW)*

0° Aiming Angle Horizontal Footcandles

	D	FC	L	W
30° Solite Lens	5.0'	96	2.3	2.4
	7.5'	43	3.3	3.4
	10.0'	24	4.4	4.6
	12.5'	15	5.5	5.6
50° Solite Lens	5.0'	46	4.3	4.3
	7.5'	21	6.4	6.4
	10.0'	12	8.4	8.4
	12.5'	8	10.5	10.6
65° Solite Lens	5.0'	28	4.8	4.8
	7.5'	13	7.4	7.4
	10.0'	7	10.1	10.1
	12.5'	5	12.7	12.7
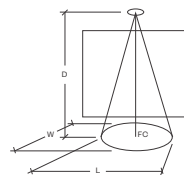
Notes and Definitions:
Beam spread is to 50% center beam candlepower (CBCP).
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level).
W=Effective Visual Beam width in feet (50% of maximum footcandle level).

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Square Lensed Downlight/Wall Wash, Dim-To-Warm

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PROJECT:	TYPE:

Performance Data - Round Lensed Wall Wash *(HDL-HP-SLW-DTW)*

(Complete photometric data (.ies format) available on website)

15W LED, 3000K-95

LTL# 11919582.31
Lumens: 871

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	540	62.0
0-60	795	91.2
0-90	871	100.0
90-180	0	0.0

Luminaire Efficacy: 59.2 lm/W
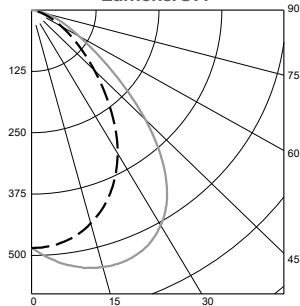

Application Data - Round Lensed Wall Wash *(HDL-HP-SLW-DTW)*

Footcandles on Wall

Footcandles are average and rounded off.
Data for multiple units are based
on a minimum of five units.

1.5 Feet from Wall ← 1.5' → ← 1.5' →

Distance from ceiling					
0.5'	29	30	30	30	29
1.5'	68	71	72	71	68
2.5'	62	66	67	66	62
3.5'	38	72	73	72	39
4.5'	24	26	27	27	24
5.5'	16	18	18	18	16
6.5'	12	13	13	13	12
7.5'	9	10	10	10	9

1.5 Feet from Wall ← 2' → ← 2' →

Distance from ceiling						
0.5'	22	24	22	24	21	24	21
1.5'	52	56	54	56	53	55	52
2.5'	48	51	51	52	51	51	48
3.5'	30	33	34	34	34	33	31
4.5'	19	21	22	22	22	21	20
5.5'	13	15	15	16	15	15	14
6.5'	10	11	11	11	11	11	10
7.5'	8	8	9	9	9	8	8

2 Feet from Wall ← 2' → ← 2' →

Distance from ceiling						
0.5'	11	12	12	13	12	12	12
1.5'	33	35	35	35	35	35	33
2.5'	42	44	45	45	45	44	42
3.5'	32	35	36	36	36	35	32
4.5'	22	25	26	26	26	25	23
5.5'	16	18	18	19	18	18	16
6.5'	12	13	14	14	14	13	12
7.5'	9	10	10	11	10	10	9

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Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

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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 ---
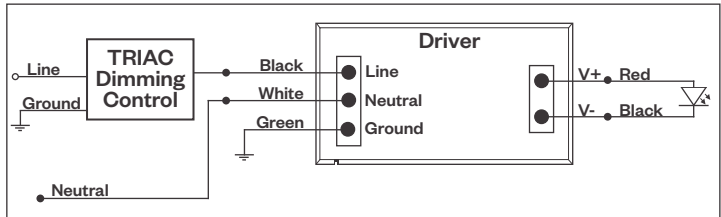
TRIAC *(Forward Phase)* DIMMING *(Standard)*

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†:

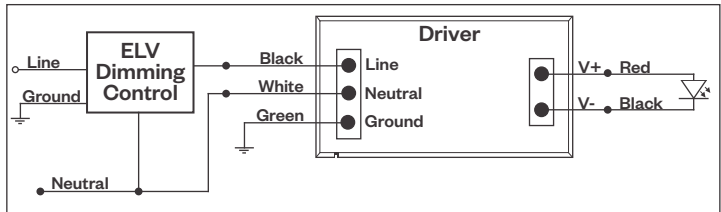| Wall Box *(TRIAC 120VAC)*	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

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.

Delta Intelligent Building Technologies

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Hornet® HP
Square Lensed Downlight/Wall Wash, **Dim-To-Warm**

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 ---
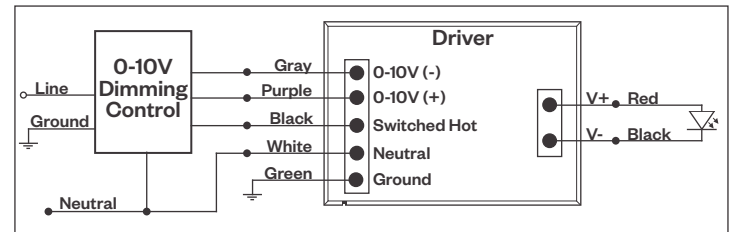
0-10V DIMMING
Integrates into a variety of building management and daylighting controls

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	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI 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**
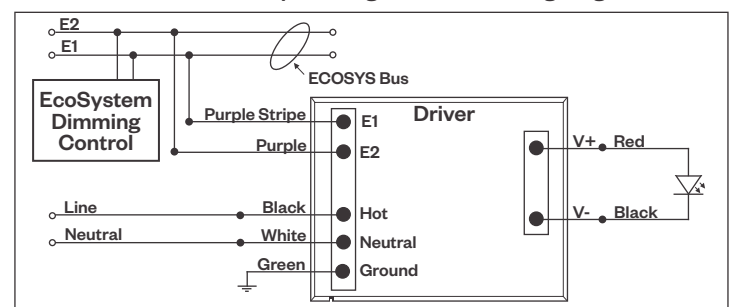
Compatible Dimmers†:

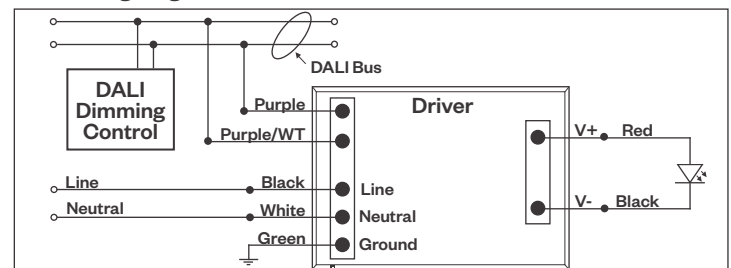| Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

DALI DIMMING
Digital control protocol allows individual fixture control

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

DALI Wiring Diagram

Compatible Dimmers†:

Wall Box *(3-Wire Fluorescent)*	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

Notes:

* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer 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 Lensed Downlight/Wall Wash, **Dim-To-Warm**

amerlux

PROJECT: **TYPE:**

Emergency Battery Pack

Wiring Diagram

Unswitched Hot — Wall Switch — WT/Red / Black / White

Common — White / Blue / Black — **Thermal Protector**

White | Black — WT/BLK

AC LED Driver — Output (+) / Output (−) — Blue / Yellow/BLK / Yellow

LED Load — LED (−) / LED (+)

EMERGENCY LED DRIVER — Flex A / Flex B

Violet (+) — Violet — **2W-ITS** — **Test Switch**
Brown (−) — Brown

White / Red — **Converter Connector**

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