

Hornet® HP Select

Round Adjustable Downlight, Super Narrow Spot



PROJECT:

TYPE:

Features

A tight sub-10° with high Center Beam Candlepower and no spill or secondary beam preventing the light from spreading beyond the intended area, creating a clean and well-defined light pattern. The Super Narrow Spot adjustable downlight allows for precise control over the direction of the light, allowing designers to create dramatic effects or draw attention to specific elements. It's a powerful lighting solution that enhances the visual impact of your space and adds a touch of elegance and sophistication to your decor.

Product Overview

Type: Recessed Round Adjustable Super Narrow Spot
Wattage: 10W
Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K
CRI: 90+ typ.
Dimming: Wired: TRIAC & ELV, 0-10V, DALI
Wireless: Lutron Athena RF node, BubblyNet Bluetooth



Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
10	522	52.24	14,700	3000K-90+

Wattage include 2W for thermal protector.
For photometry, see pg 8.

Electrical Data

Voltage	10W	
	System Watts	Amps
120V	10	0.08
277V	10	0.04

Electronic constant current LED driver.

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Ordering Information - Housing/Frame

1	2	3	4	5	6
1	Model	2	Style	3	Wattage
	For New Construction HSE-R-NC-SNSP (New Construction) HSE-R-CP-SNSP (Chicago Plenum (CCEA) housing) HSE-R-IC-SNSP (Insulated Ceiling/air tight) For Existing Ceilings HSE-R-REM-SNSP (Remodeler)		T trimmed TL trimless MWK^R millwork (for 1/2" - 11/16" ceiling thickness) MWK1^R millwork (for 3/4" - 1-1/2" ceiling thickness) MWK2^R millwork (for 1-1/2" - 2" ceiling thickness) ^R Not available for use with Remodeler model		10
4	Voltage	5	Driver	6	Options/Accessories
	120 277 120/277 (for use with IC housing only)		<u>Wired</u> LE/TE TRIAC/ELV dimming 0-10V 0-10V dimming, 1% dim DALI DALI dimming, 1% dim <u>Wireless</u> AWN-R-010* Lutron Athena wireless node, RF only, 0-10V BN-BT-010* BubblyNet Bluetooth node, 0-10V *Consult factory for lead time.		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	
1	Model	2	Style	3	Finish
	HSE-RA-SNSP <i>(adjustable downlight)</i> HSE-RPA-SNSP <i>(pinhole adjustable)</i>		T trimmed TL trimless MWK millwork		<u>Trimmed:</u> <u>RA Trim</u> MBW matte black, white flange MWW matte white, white flange SLVW matte silver, white flange MBB matte black, black flange SLVS matte silver, silver flange <u>Trimless/Millwork</u> <i>(for both RA & RPA trims)</i> MB matte black MW matte white SLV matte silver
4	Color Temp	5	Options/Accessories		
	249 2400K-90+ 279 2700K-90+ 309 3000K-90+ 359 3500K-90+ 409 4000K-90+		HEX hexcell louver SOL solite beam softening lens		

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Specifications

Application

Retail and commercial accent lighting
Ideal for museums and galleries

Construction

20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets (*not for Remodeler version*)
Cast aluminum plaster frame with perforated face (*for trimless version only*)
Die-cast optical housing and trim
Die-cast heat sink

Optical

Beam Spreads: Super Narrow Spot, 9.6°

LED

Color Temp Options: 2400K, 2700K, 3000K, 3500K, 4000K
CRI: 90+ typ.
R9 Values: 55 (92 CRI)
Binning: 3 MacAdam (SDCM)
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Electrical

Wattage: 10W
Electronic constant current LED driver, 120/277VAC input
This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.
Note: Drivers are universal but thermal protector is voltage specific

Drivers

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase
0-10V, Lutron and DALI systems available
See pages 10-12 for more dimming information

Finish

Powder coat paint/wet paint
Consult factory for custom finishes

Mounting

26" Hanger bars included (*except for Remodeler versions*)
Optional **HB49** - hanger bars from min 29" to max 49" available
Trimmed Fixture:
For use in grid or sheetrock ceilings, 5/8" - 2" 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
CP - Chicago Plenum (CCEA) option
IC/AT rated
Damp location

Warranty

5 year limited warranty

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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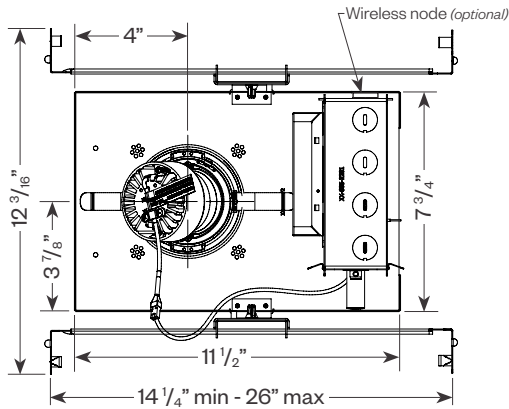
Round Adjustable Downlight, Super Narrow Spot



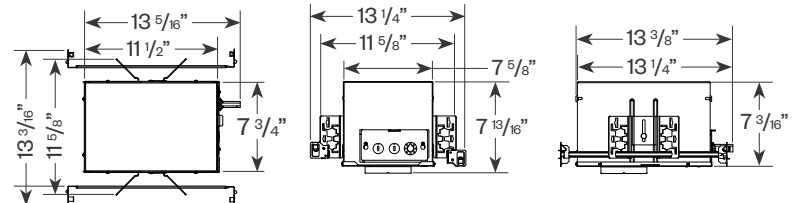
PROJECT:

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Product Details

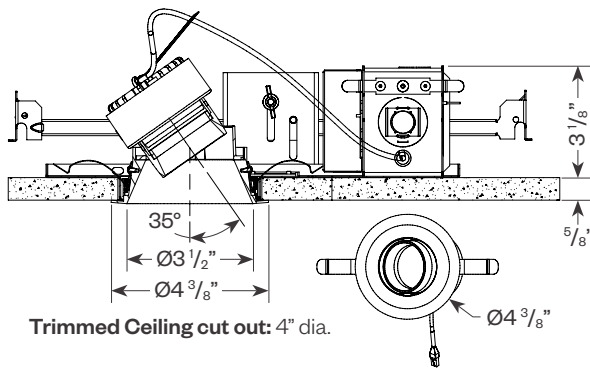


Optional CP or IC/AT housing

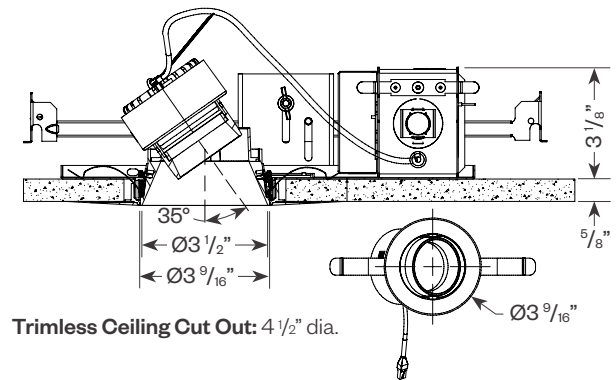


Trimmed

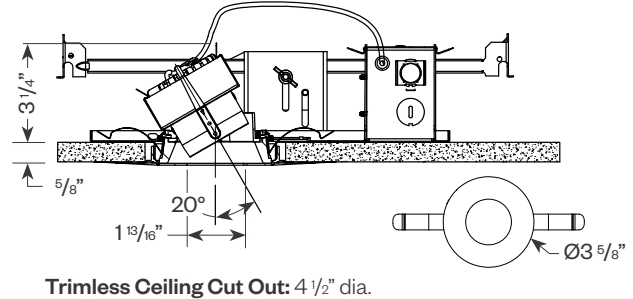
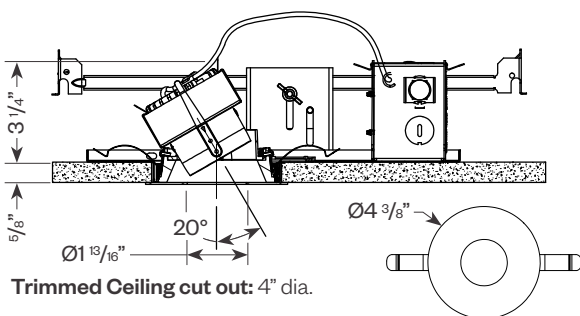
Adjustable



Trimless

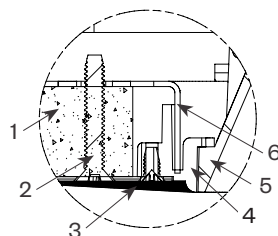


Pinhole Adjustable



Plaster Frame Installation Detail (for trimless fixture only)

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



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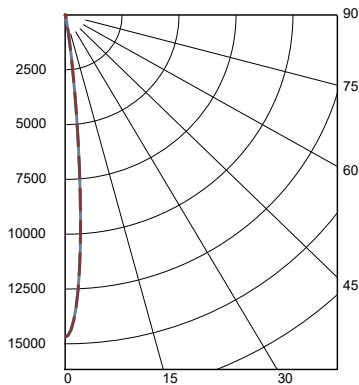
Performance Data

Multiplying Factors: (Multiplying Factor is based on 3000K-90+ 120V IES file on website)

CCT:	2400K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.87	0.96	1.0	1.05	1.07

10W LED, 3000K-90+

Super Narrow Spot (SNSP), 9.6°
LTL # 15175288.01
Lumens: 522



Candelas at Nadir

Deg	Candela
0	14700
5	6914
15	173
25	46
35	9
45	3

Application Data

Notes and Definitions:

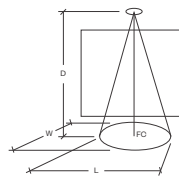
Beam spread is to 50% center beam candlepower (CBOP).

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).



0° Aiming Angle
Horizontal
Footcandles

	D	FC	L	W
SUPER NARROW SPOT	5.0'	210	1.3	1.3
	7.5'	151	1.5	1.5
	10.0'	106	1.9	1.9
	12.5'	76	2.4	2.4



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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 ---

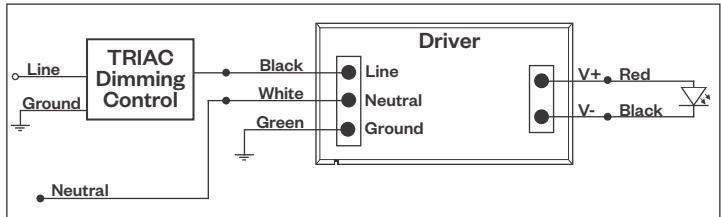
TRIAC (Forward Phase) DIMMING (Standard)

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"	

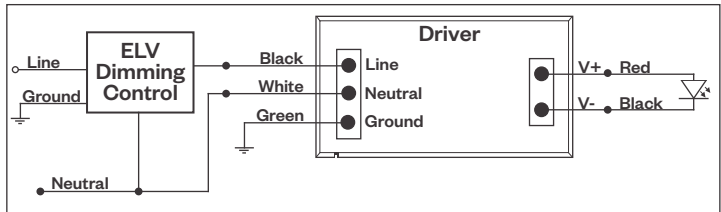
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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.



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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.

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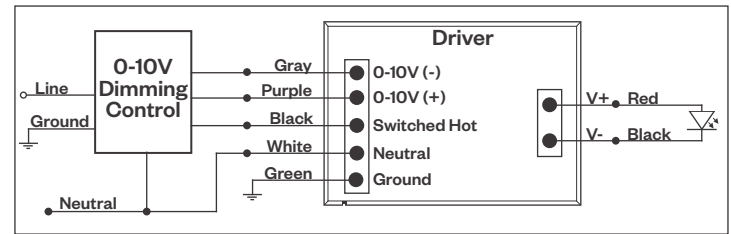
0-10V DIMMING

Integrates into a variety of building management and daylighting controls

Notes:

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

0-10V Wiring Diagram



Compatible Dimmers†:

Wall Box

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

Central System

Lutron Grafik Eye with GRX-TVI Interface

DALI DIMMING

Digital control protocol allows individual fixture control

Notes:

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

Compatible Dimmers†:

Wall Box (3-Wire Fluorescent)

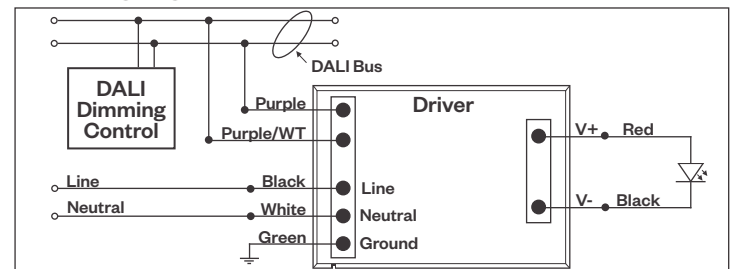
Leviton CD250 Controller

Central System

Dynalite

Fifth Light

DALI Wiring Diagram



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.

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