

Hornet® 2.5

2.5" Round Adjustable, 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 Hornet 2.5 Super Narrow Spot 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
 Wattage: 6W, 9W
 CBCP: 11,572
 Color Temp: 2400K, 2700K, 3000K, 3500K
 CRI: 90+ typ.
 Dimming: Wired: TRIAC & ELV, Hi-lume®, 0-10V, DALI
 Wireless: Lutron Athena RF node, Bluetooth SIG 5.0

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp, CRI
6	337	48.1	9026	3000K, 90+
9	432	49.1	11,572	3000K, 90+

Data is based on 3000K-90+ IES files available on website.

Fixture Type

Round/Square	New Construction	Trim	Trimless	Millwork
Yes	Yes	Yes	Yes	Yes

See separate spec sheet for Square trims

Electrical Data

Voltage	6W		9W	
	System Watts	Amps	System Watts	Amps
120V	6	0.05	9	0.08
277V	6	0.02	9	0.03

Electronic constant current LED driver.

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Ordering Information - Housing/Frame

HDL2.5-R-NC-SNSP

1
2
3
4
5

1 Model	2 Style	3 Wattage
HDL2.5-R-NC-SNSP <i>(New Construction)</i>	T trimmed TL trimless (<i>patent pending screwless mud-ring</i>) MWK millwork (<i>for 1/2" - 1/16" ceiling thickness</i>) MWK1 millwork (<i>for 3/4" - 1-1/2" ceiling thickness</i>)	6 9
4 Driver <i>(for non-dimming, select LE/TE option)</i>	5 Options/Accessories	
Wired LE/TE TRIAC/ELV dimming HILUME-P-ECO - Lutron Hi-lume® EcoSystem Premier 0.1% dim with soft on and fade to black 0-10V 0-10V dimming, 1% dim 0-10V-DD* 0-10V dimming, 0.1% deep dimming DALI DALI dimming, 1% dim DALI-DD* DALI dimming, 0.1% deep dimming Wireless <i>(New Construction only)</i> AWN-R-010* Lutron Athena wireless node, RF only, 0-10V BN-BT-010* BubblyNet Bluetooth node, 0-10V DBT* Delta Bluetooth SIG 5.0 compatible, 1% dimming, 120-277VAC, flying lead antenna * Consult factory for lead time.	HB49 - hanger bars from min 29" to max 49" <i>Note: 26" hanger bars are included as standard.</i> Choose HB49 option above for larger mounting spaces only.	

Ordering Information - Trim

HDL2.5-RA-SNSP

1
2
3
4
5

1 Model	2 Style	3 Finish													
HDL2.5-RA-SNSP <i>(adjustable)</i>	T trimmed TL trimless MWK millwork	<table style="width: 100%; border: none;"> <tr> <td style="border: none;"><u>Trimmed</u></td> <td style="border: none;"><u>Trimless/Millwork</u></td> </tr> <tr> <td style="border: none;">MWW matte white, white flange</td> <td style="border: none;">MB matte black</td> </tr> <tr> <td style="border: none;">MBW matte black, white flange</td> <td style="border: none;">MW matte white</td> </tr> <tr> <td style="border: none;">SLVW matte silver, white flange</td> <td style="border: none;">SLV matte silver</td> </tr> <tr> <td style="border: none;">MBB matte black, black flange</td> <td></td> </tr> <tr> <td style="border: none;">SLVS matte silver, silver flange</td> <td></td> </tr> </table>		<u>Trimmed</u>	<u>Trimless/Millwork</u>	MWW matte white, white flange	MB matte black	MBW matte black, white flange	MW matte white	SLVW matte silver, white flange	SLV matte silver	MBB matte black, black flange		SLVS matte silver, silver flange	
<u>Trimmed</u>	<u>Trimless/Millwork</u>														
MWW matte white, white flange	MB matte black														
MBW matte black, white flange	MW matte white														
SLVW matte silver, white flange	SLV matte silver														
MBB matte black, black flange															
SLVS matte silver, silver flange															
4 Color Temp	5 Options/Accessories														
249 2400K-90+ 279 2700K-90+ 309 3000K-90+ 359 3500K-90+	HEX hexcell louver SOL solite beam softening														

Hornet® 2.5

2.5" Round Adjustable, Super Narrow Spot



PROJECT:

TYPE:

Specifications

Application

Retail and commercial ambient, hospitality lighting

Optical

Beam spreads: Super Narrow Spot 9.6°

Tilt: 40° max

LED

Color Temp Options: 2400K, 2700K, 3000K, 3500K

CRI: 90+ typ.

R9 Values: 55 (92 CRI)

Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Electrical

Wattage: 6W, 9W

Electronic constant current LED driver, universal operating voltage 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.

Drivers

Universal Operating Voltage 120/277VAC.

Smooth linear dimming curve to minimum dim of 1% or 0.1%.

UL8750 with Class 2 output.

Complies with FCC Part 15, Class A.

UL Listed Class P.

Built-in protection feature (short circuit, overload, Thermal, 2.5kV surge).

See dimming compatibility page for additional information.

Finish

Powder coat paint/wet paint

Consult factory for custom finishes

Mounting

26" Hanger bars included.

Optional **HB49** - hanger bars from min 29" to max 49" available.

Trimmed Fixture:

For use in grid or sheetrock ceilings, 1/2" to 1-1/2" standard.

Trimless Fixture:

For use in sheetrock ceilings, max ceiling thickness 1-1/2".

Patent pending screwless mud-ring.

Millwork Fixture:

Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. Max thickness 1-1/2".

Ceilings thicker than 3/4" will require an extension collar.

Consult factory for ceilings above 1-1/2" thickness (downlight & wall wash only).

Certifications

CSA damp as tested to UL 1598 standards

IC/AT rated (optional, 12W max)

Damp location

Warranty

5 year limited warranty (see Amerlux website for details)

Accessories



Hexcell Louver, Solite Lens

Hornet® 2.5

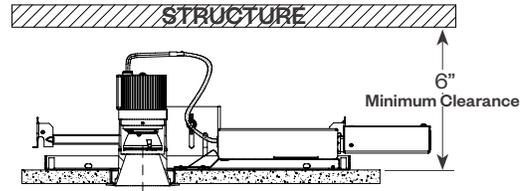
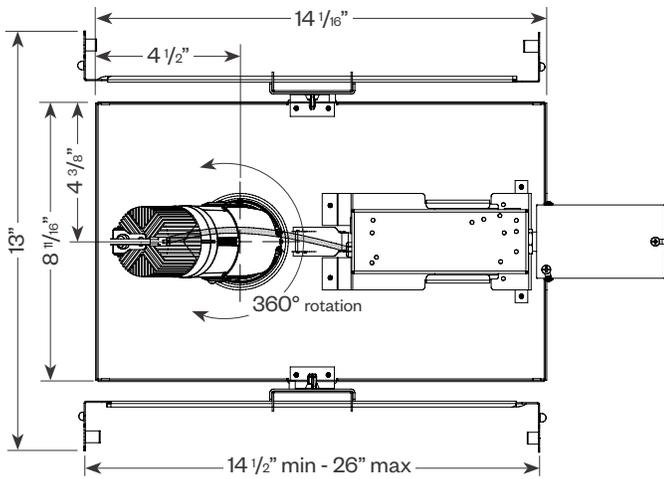
2.5" Round Adjustable, Super Narrow Spot



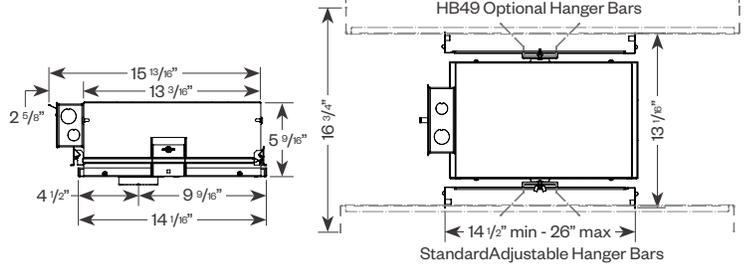
PROJECT:

TYPE:

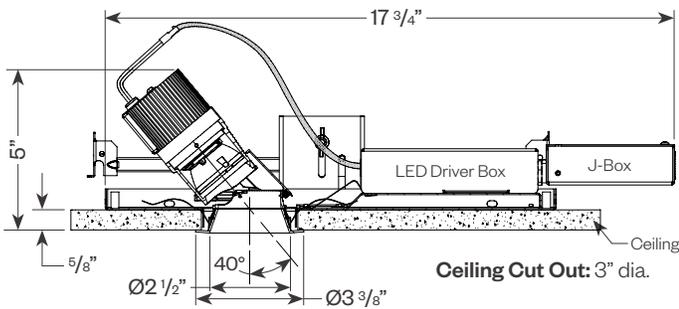
Product Details - Adjustable



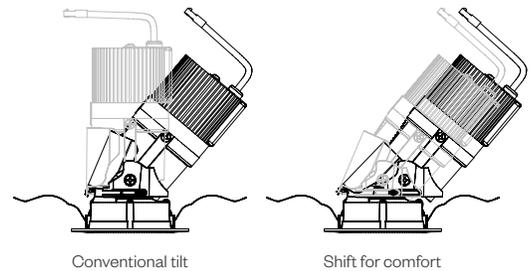
IC/AT & CP Housing



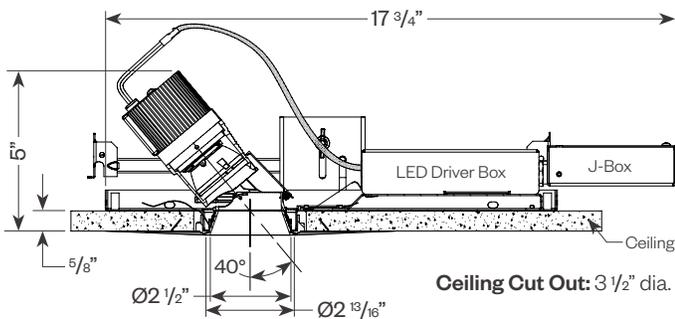
Adjustable Trimmed



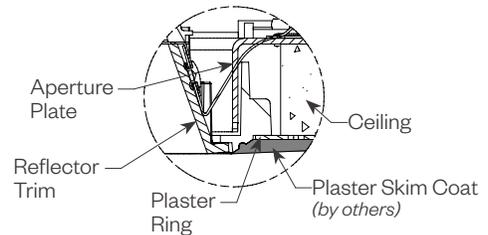
Note: 3/4" maximum ceiling thickness recommended for optimal adjustability.



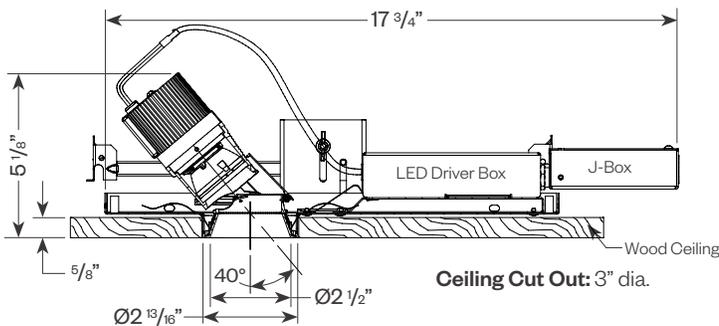
Adjustable Trimless



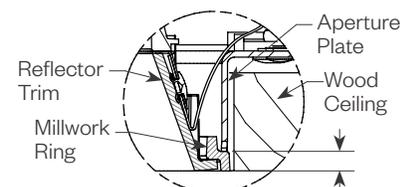
Trimless Detail



Adjustable Millwork



Millwork Detail



1/8" gap required between edge of aperture & ceiling plane for the trim to be flush with ceiling.

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Performance Data

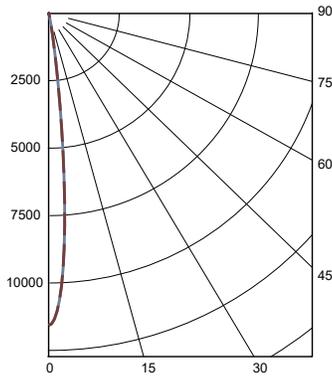
Multiplying Factors: (Multiplying Factor is based on 3000K-90+ 120V IES file on website)

Wattage:	6W	9W
Factor:	0.78	1.0

CCT:	2400K-90+	2700K-90+	3000K-90+	3500K-90+
Factor:	0.83	0.96	1.0	1.05

9W LED, 3000K-90+

Super Narrow Spot (SNSP), 9.6°
LTL # 15657122.13
Lumens: 432



Candelas at Nadir

Deg	Candela
0	11570
5	6071
15	114
25	20
35	4
45	1

Application Data

Notes and Definitions:

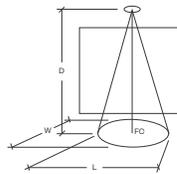
Beam spread is to 50% center beam candlepower (CBOP).

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'	181	1.3	1.3
	7.5'	126	1.6	1.6
	10.0'	87	2.0	2.0
	12.5'	62	2.5	2.5

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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 ---

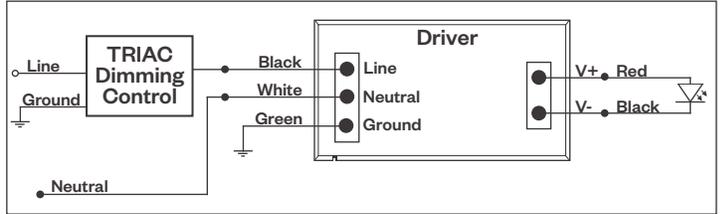
TRIAC (Forward Phase) DIMMING (Standard)

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"	

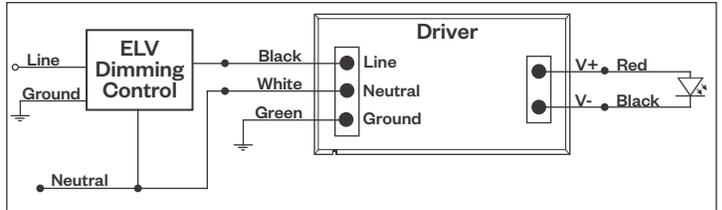
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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)

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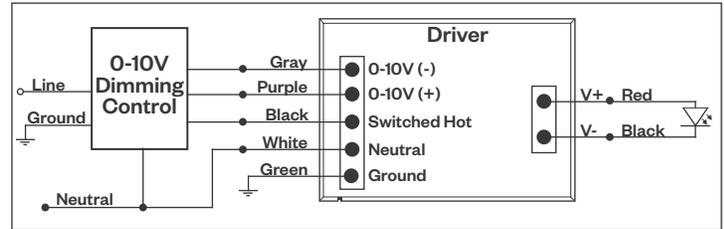
0-10V DIMMING

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-TV1 Interface

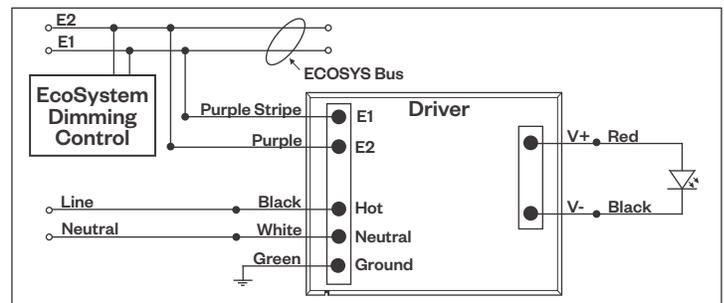
LUTRON LDE1 DIMMING

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

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

Central System

Lutron EcoSystem compatible controls

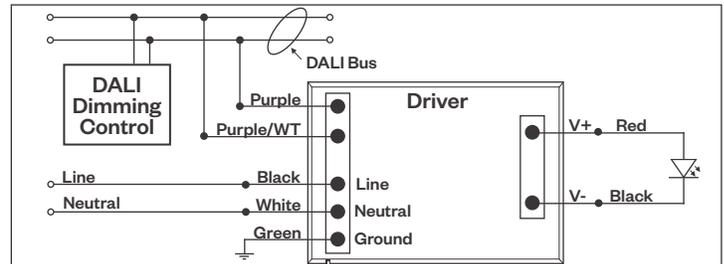
DALI DIMMING

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.