

Hornet® HP Select

Square Lensed Wall Wash



PROJECT:

TYPE:

Features

The Hornet HP Select round wall wash series provides high impact smooth wash of light for retail and commercial walls without compromising on budget or design. It delivers over 1180 lumens but exceeds performance on the wall of products. The Hornet HP Select offers trimmed, trimless, or millwork trim options and is perfect for both retrofit and new construction projects.



Product Overview

Type: Recessed Square Lensed Wall Wash
Wattage: 10W, 12W, 16W, 21W
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 90+ typ.
Dimming: Wired: TRIAC & ELV, Hi-lume®, 0-10V, DALI
Wireless: Lutron Athena RF node, BubblyNet Bluetooth

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	Color Temp-CRI
10	550	55	3000K-90+
12	679	56.6	3000K-90+
16	936	58.5	3000K-90+
21	1170	56.6	3000K-90+

Data is based on 3000K-90+ 120V IES files available on website.
All wattages and LPW's include 2W for thermal protector.

Electrical Data

	10W		12W		16W		21W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	10	0.08	12	0.10	16	0.13	21	0.18
277V	10	0.04	12	0.04	16	0.06	21	0.08

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

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Ordering Information - Housing/Frame

1	2	3	4	5	6
1 Model	2 Style	3 Wattage			
For New Construction	T trimmed	10			
HSE-S-NC (New Construction)	TL trimless	12			
HSE-S-CP (Chicago Plenum (CCEA) housing)	MWK ^R millwork (for 1/2" - 11/16" ceiling thickness)	16			
HSE-S-IC (Insulated Ceiling/air tight, 16W max)	MWK1 ^R millwork (for 3/4" - 1-1/2" ceiling thickness)	21*			
	MWK2 ^R millwork (for 1-1/2" - 2" ceiling thickness)				
For Existing Ceilings	^R Not available for use with Remodeler model	* Not available for use with IC housing			
HSE-S-REM (Remodeler)					
4 Voltage	5 Driver (for non-dimming, select LE/TE option)	6 Options/Accessories			
120	Wired	HB49 - hanger bars from min 29" to max 49"			
277	LE/TE TRIAC/ELV dimming	(not available for use with REM options)			
120/277 (for use with IC housing only)	HILUME-H-ECO - Lutron LDE1 Hi-lume®, 1% dim, Soft-On/Fade-to-Black	Note: 26" hanger bars are included as standard. Choose HB49 option above for larger mounting spaces only.			
	0-10V ^{T24} 0-10V dimming, 1% dim				
	DALI DALI dimming, 1% dim				
	Wireless				
	AWN-010* Lutron Athena wireless node, RF only, 0-10V				
	BN-BT-010* BubblyNet Bluetooth node, 0-10V				
	* Consult factory for lead time.				

Ordering Information - Trim

HSE-SLW	1	2	3	4
1 Model	2 Style	3 Finish	4 Color Temp	
HSE-SLW (lensed wall wash)	T trimmed	Trimmed	279 2700K-90+	
	TL trimless	Trimless/Millwork	309 3000K-90+	
	MWK millwork	MBW matte black, white flange	359 3500K-90+	
		MWW matte white, white flange	409 4000K-90+	
		SLVW matte silver, white flange		
		MBB matte black, black flange		
		SLVS matte silver, silver flange		

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Specifications

Application

Retail and commercial 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

LED

Color Temp Options: 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, 12W, 16W, 21W
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 (*16W max*)
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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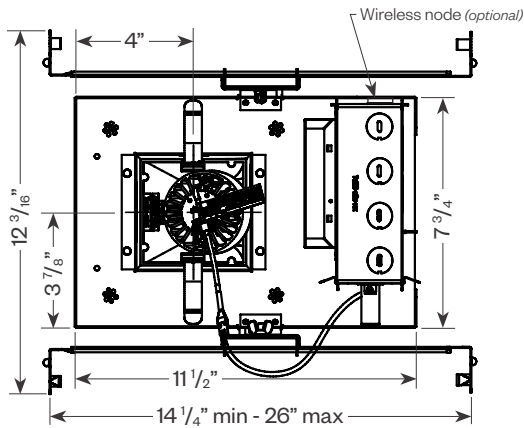
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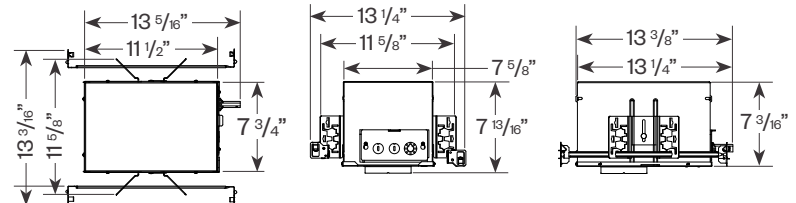
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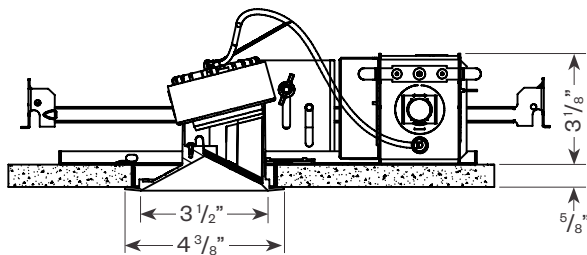
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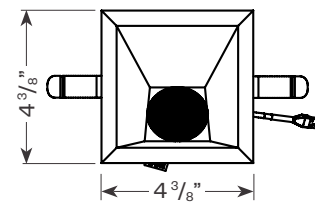
Optional CP or IC/AT housing



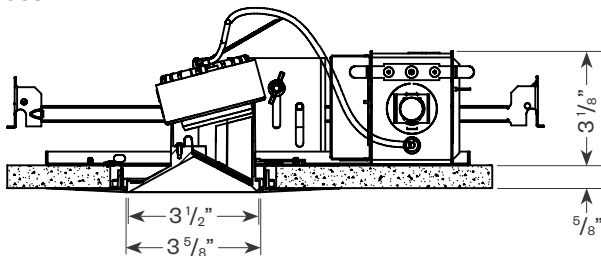
Trimmed



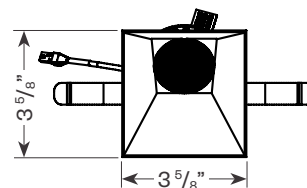
Trimmed Ceiling cut out: 4" dia.



Trimless

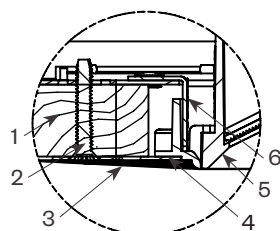


Trimless Ceiling Cut Out: 4 1/2" dia.



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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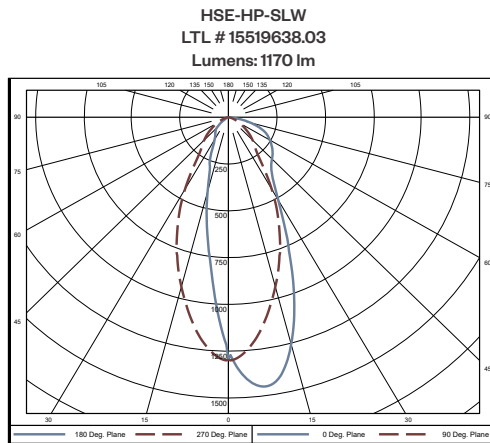
Performance Data

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

Wattage:	10W	12W	16W	21W
Factor:	0.47	0.58	0.80	1.0

CCT:	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	1.005	1.000	1.016	1.029

21W LED, 3000K-90+



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fxt
0-40	780	66.7
0-60	1038	88.7
0-90	1170	100.0
90-180	0	0.0

Luminaire Efficacy: 56.6 lm/W

Application Data

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'	66	68	69	68	66
	1.5'	87	92	93	92	88
	2.5'	63	68	69	68	64
	3.5'	49	54	55	54	50
	4.5'	38	41	42	41	38
	5.5'	28	31	32	31	28
	6.5'	21	24	24	24	22
	7.5'	17	19	19	19	17

1.5 Feet from Wall

			← 2' →	← 2' →		
Distance from ceiling	0.5'	49	54	49	54	48
	1.5'	67	72	70	73	69
	2.5'	50	53	53	54	53
	3.5'	39	42	43	44	43
	4.5'	30	32	33	34	33
	5.5'	23	25	26	26	25
	6.5'	18	19	20	20	19
	7.5'	14	15	16	16	14

2 Feet from Wall

			← 2' →	← 2' →		
Distance from ceiling	0.5'	31	33	32	33	32
	1.5'	53	57	57	58	57
	2.5'	43	46	47	48	46
	3.5'	34	37	38	39	37
	4.5'	29	31	32	33	32
	5.5'	24	26	27	27	26
	6.5'	20	21	22	23	22
	7.5'	16	18	19	19	18

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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)

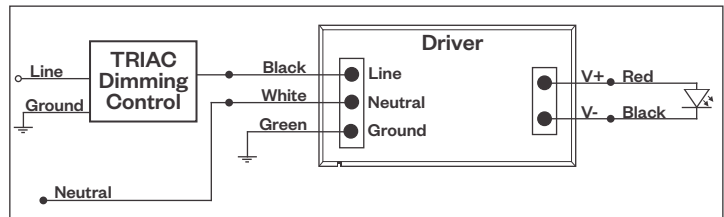
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

Compatible Dimmers†:	
Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

TRIAC Wiring Diagram



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

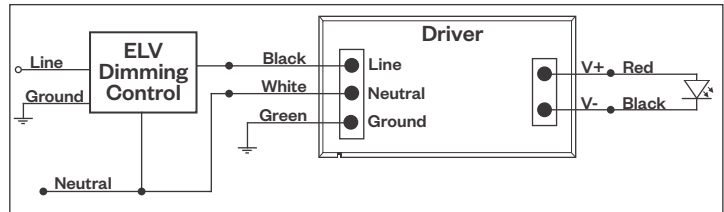
Utilizes specialized "ELV" dimmers.

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

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"		

ELV 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.

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Dimming Compatibility *(continued)*

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

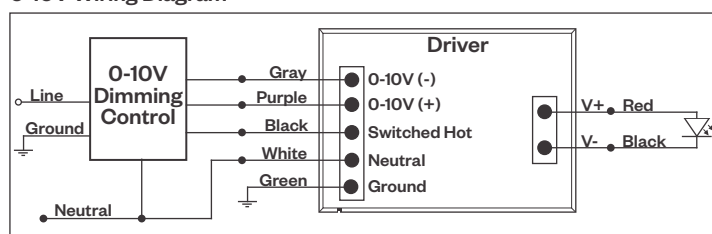
0-10V DIMMING

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

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

Central System

Lutron Grafik Eye with GRX-TVI Interface

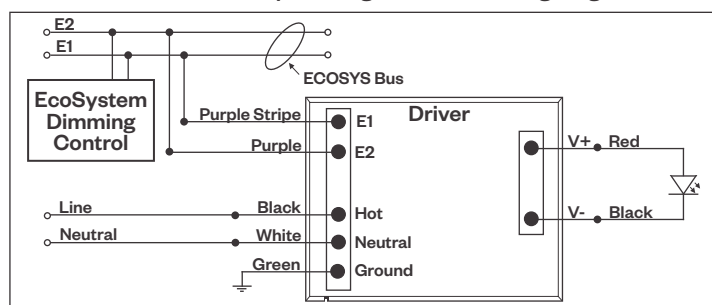
LUTRON LDE1 DIMMING

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

Pow Pak Dimming Modules

Central System

Lutron EcoSystem compatible controls

Energj Savr Node

Grafik Eye QS/Homeworks

QS Control Unit

Quantum Hub

Homeworks QS/My Room

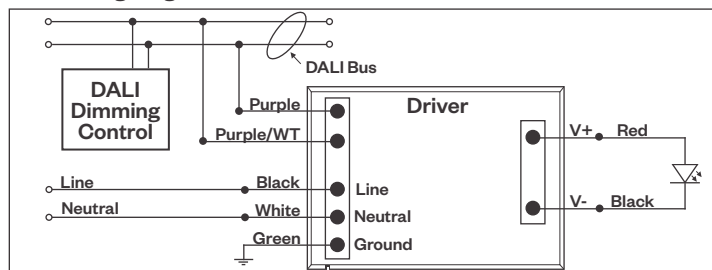
DALI DIMMING

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.