Round Lensed Downlight

PROJECT:

TYPE:



Features

The Hornet HP Select round downlight series provides powerful yet comfortable ambient lighting for retail and commercial spaces without compromising on budget or design. It delivers over 2,200 lumens in a 75-degree distribution and features Solite lensing for visually pleasing aesthetics. The Hornet HP Select offers trimmed, trimless, or millwork trim options and can easily integrate into current Hornet downlight platforms, making it perfect for both retrofit and new construction projects.



Product Overview

letooth
L

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
10	855	95	665	3000K-83
12	1140	95	887	3000K-83
16	1513	94.6	1177	3000K-83
21	1995	95	1552	3000K-83
23	2192	100.2	1706	3000K-83

Data is based on 75SOL optics, 3000K-83120V IES files available on website. All wattages and LPW's include 2W for thermal protector.

Electrical Data

	10W		12W		16W		21W		23W	
Voltage	System Watts	Amps	System Watts	Amps						
120V	9.8	0.08	11.9	0.10	15.2	0.13	21	0.18	22.8	0.19
277V	9.8	0.04	11.9	0.04	15.2	0.06	21	0.008	22.8	0.08

Electronic constant current LED driver.

Includes themal protector, 2W power consumption.



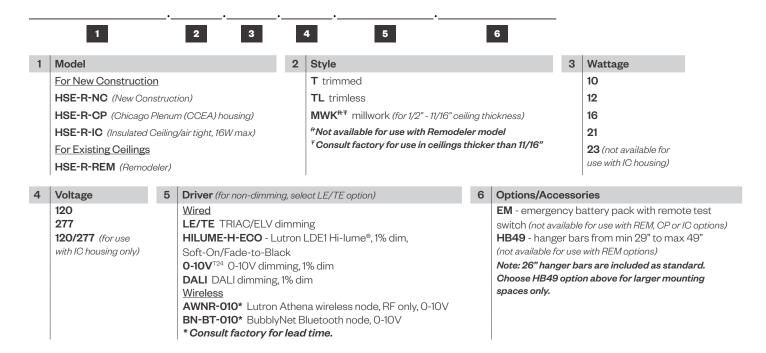
Round Lensed Downlight

PROJECT:

amerlux

TYPE:

Ordering Information - Housing/Frame



Ordering Information - Trim

	HSE-R-LD		•	_•		
	1 2		3 4		5	
1	Model	2	Style	3	Finish	
	HSE-R-LD (lensed downlight)		T trimmed		Trimmed	Trimless/Millwork
			TL trimless		MBW matte black, white flange	MB matte black
			MWK millwork		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		5 Color Temp			
	30SOL 30° beam with solite lens		<u>83 CRI</u>	<u>90+</u>	CR	
	50SOL 50° beam with solite lens		27 2700K-83	279	2700K-90+	
	75SOL 75° beam with solite lens		30 3000K-83	309	3000K-90+	
			35 3500K-83	359	3500K-90+	
			40 4000K-83	409	4000K-90+	

Round Lensed Downlight

PROJECT:

TYPE:



Application

Retail and commercial ambient 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

Beam Spread-Lens: 30SOL - 30° beam with solite lens 50SOL - 50° beam with solite lens 75SOL - 75° beam with solite lens Visually best with SLV reflector finish.

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K CRI: 83 typ. or 90+ typ. R9 Values: 11 *(83 CRI)*, 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, 23W

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 6-7 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 <u>Trimmed Fixture:</u>

For use in grid or sheetrock ceilings, 5/8" - 2" max standard

Trimless Fixture:

For use in sheetrock ceilings, max ceiling thickness 5/8" (consult factory for thicker ceilings)

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 (16W max) Damp location

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, 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.



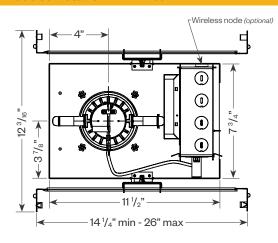
Round Lensed Downlight

PROJECT:

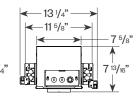
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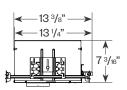


Product Details - Trimmed

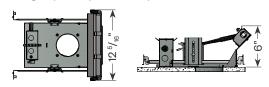


Optional CP or IC/AT housing

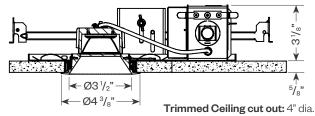


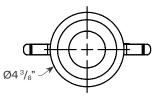


Emergency Battery Pack (EM) option

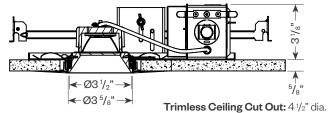


Trimmed

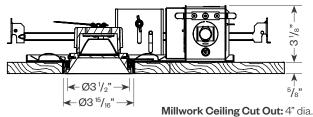




Trimless



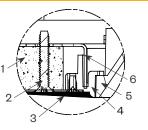
Millwork

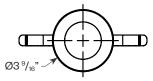


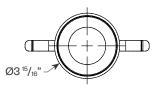
Plaster Frame Installation Detail (for trimless fixture only)

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

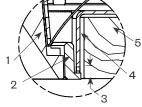






Millwork Detail

- 1. Reflector Trim
- Millwork Ring
 1/16" required for trim to be flush with ceiling
- 4. Aperture Plate
- 5. Wood Ceiling



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Delta Intelligent Building Technologies

Round Lensed Downlight

PROJECT:

TYPE:

Performance Data

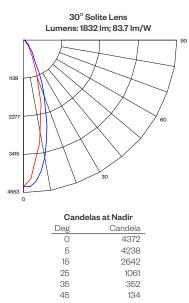
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

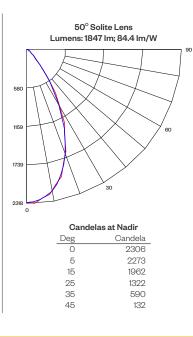
		21W	23W
Factor: 0.39 0.	52 0.69	0.91	1.0

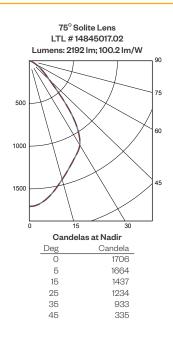
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.65	0.70

23W LED, 3000K-83







Application Data

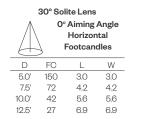
Notes and Definitions:

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).

 \mathbf{W} =Effective Visual Beam width in feet (50% of maximum footcandle level).





	50° Sol	ite Lens	
\bigwedge		Aiming Horizor Footcan	ntal
D	FC	L	W
5.0'	87	4.3	4.3
7.5'	40	6.3	6.3
10.0'	23	8.4	8.4
12.5'	15	10.7	10.7

\bigwedge	0	ite Lens Aiming Horizor Footcan	ntal
D	FC	L	W
5.0'	64	5.4	5.4
7.5'	30	7.9	7.9
10.0'	17	10.6	10.6
12.5'	11	13.6	13.6



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Round Lensed Downlight

PROJECT:

TYPE:

TRIAC Wiring Diagram

TRIAC

Dimming

Control

Bl<u>ack</u>

White

Green

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 ---

Line

Ground

Neutral

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:

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

Compatible Dimmers*:

Utilizes specialized "ELV" dimmers.

• 120VAC or 277VAC*

dimming manufacturer

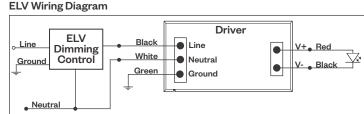
Central System
Lutron "GP" Panel
Lutron Grafik Eye QS

• 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

ELV



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.





Red

Black

 \sum

Driver

Line

Ground

• Neutral

Round Lensed Downlight

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.

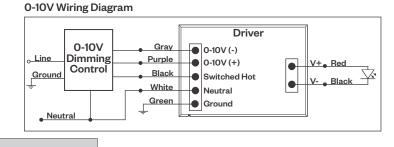
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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!



amerlu

Wall Box		Central System
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

LUTRON LDE1 DIMMING

Compatible Dimmers[†]:

Integrates into Lutron EcoSystem building management

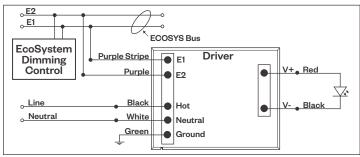
Notes:

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

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	

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



DALI DIMMING

Digital control protocol allows individual fixture control

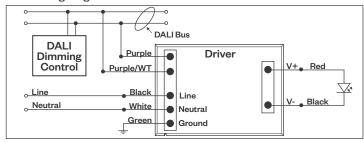
Notes:

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

Compatible Dimmers⁺:

Wall Box (3-Wire Fluorescent)	Central System
Leviton CD250 Controller	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.
- * The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.



Round Lensed Downlight

PROJECT:

TYPE:

Emergency Battery Pack

Wiring Diagram

