Hornet[®] HP 3.5" Round Surface Canopy





Features

The Hornet® HP Downlight Round Surface Canopy is a high performing alternative for designers, utilizing the Hornet® HP Downlight frame. The LED module sits on the canopy plate with a single arm yoke, allowing for aiming flexibility. Small and compact, this fixture delivers the power of the 20W CMH, but surpasses it with enhanced control, instant on, dimmability and long lifespan. The Hornet® HP's quality, energy efficient light source provides better maintained and more secure lumens, and consistent color rendering.

Product Overview

Type: Round Surface Accent & Display

Wattage: 13, 18, 20

Lumen Output: 1,369 max; 76 Lm/W (spot optic)

CBCP: 12,215 max (spot optic)

Color Temp: 2200K, 2700K, 3000K, 3500K, 4000K, CRISP

CRI: 83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2200K, 2700K, 3000K)

CrispWhite (18W max) & 3K Class A available

Dimming: TRIAC & ELV (120/277VAC) - 5% Dim

Lutron Hi-lume® H Series/EcoSystem - 1% dim with

soft on, fade to black, 120/277VAC

0-10V dimming, 1% Dim DALI (120/277VAC) - 1% Dim



PROJECT:

TYPE:

Fixture Summary (see following pages for more information)

Performance Chart

Watts	Delivered Lumens	LPW	СВСР	Color Temp
13	972	88	8,673	3000K
18	1,205	75	10,749	3000K
20	1,369	76	12,215	3000K

Data is based on 3000K-80, 120V IES files available on website

Data is based on Spot optic

See pg 5 for other beam spreads

Electrical Data

	13\	N	18\	N	20W		
	System Watts Amps		System Watts	•		Amps	
120V	13	O.11	18	0.15	20	0.17	
277V	13	0.05	18	0.06	20	0.07	

Electronic constant current LED driver All wattages include 2W thermal protector







PROJECT: Housing/Frame Ordering Information 4 1 3 5 6 Model <u>Voltage</u> 1 4 For New Construction 120 HDL-HP-R-NC-A17[†] (New Construction) 277 HDL-HP-R-CP-A17[†] (Chicago Plenum (CCEA) housing) 120/277 (for use with IC housing only) HDL-HP-R-IC-A17[†] (Insulated Ceiling/air tight, 13W & 18W only) **Driver** (for non-dimming, select LE/TE option) **LE/TE** - TRIAC/ELV dimming For Existing Ceilings HILUME-H-ECO - Lutron Hi-lume® H Series, EcoSystem, HDL-HP-R-REM-A17[†] (Remodeler) 1% dim with soft on, fade to black **0-10V** - 0-10V dimming, 1% dim DALI - DALI dimming, 1% dim T - trimmed Options/Accessories EM - emergency battery pack with remote test switch (not **Wattage** 13 available for use with REM, CP or IC options) 18 20 (not available for use with IC housing) **Trim Ordering Information** HDL-HP-RSC-A17 Т 4 2 3 5 6 Model Color Temp 5 HDL-HP-RSC-A17[†] 83 CRI 90+ CRI **27** - 2700K-83 **229** - 2200K-90+ **CRISP** - CrispWhite **30** - 3000K-83 **279** - 2700K-90+ (18W max) T - trimmed 35 - 3500K-83 309 - 3000K-90+ 3CLA - 3K Class A 40 - 4000K-83 359 - 3500K-90+ 409 - 4000K-90+ Finish 3 WT - white texture BT - black texture Options/Accessories ST - silver texture **SNAH** - snoot accessory holder, 1" length, matte black in Other finishes, consult factory terior, exterior finish matches fixture finish, accepts cross blade plus 2 additional forms of media Beam Spreads AH - accessory holder, finish matches fixture finish, **SP -** spot. 15° accepts 2 forms of media NF - narrow flood, 20° **HEX** - hexcell louver, 1/8" x 1/8" (requires SNAH or AH) MFL - medium flood, 24° **SOL** - solite lens (requires SNAH or AH) FL - flood, 28° **CB** - cross blade, matte black finish (requires SNAH) WF - wide flood, 45° VWF - very wide flood, 60° LS - linear spread, 60° x 10°

[†] The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.



PROJECT: TYPE:

Specifications

Application

Retail and commercial accent and display lighting

Construction

20 ga. galvanized steel frame

18 ga. galvanized steel splice housing and hanger brackets

(not for Remodeler version) Die-cast optical housing

Extruded aluminum and die-cast heat sink

Optical

0-180° tilt. 360° rotation

Beam spreads: Spot, 15°; Narrow Flood, 20°;

Medium Flood, 24°; Flood, 28°; Wide Flood, 45° Very Wide Flood, 60°; Linear Spread, 60° x 10°

LED

Color Temp Options:

2200K, 2700K, 3000K, 3500K, 4000K

CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)

90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)

CrispWhite* LED available, 18W max Class A** 3000K (high CRI, high gamut)

R9 Values: 11 (83 CRI), 55 (92 CRI) Binning: 3 MacAdam (SDCM)

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

*CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.

**Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.

Electrical

Wattage: 13, 18, 20

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.

Driver

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase

0-10V, Lutron and DALI systems also available See pages 8-9 for more dimming information

Finish

Powder coat paint

Consult factory for custom finishes

Mounting

For use in T-Grid or GB ceilings; max ceiling thickness 1" Adjustable hanger bars included, 14 $\frac{1}{2}$ " - 26" std. (except for Remodeler versions)

(32"-48" Adjustable hanger bars available) Consult Factory for thicker ceilings

Certifications

CSA damp as tested to UL 1598 standards IC/AT rated (optional, not for Remodeler version)

Warranty

5 year limited warranty

Emergency Battery Pack (EM)

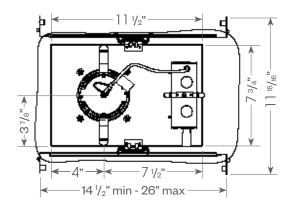
Powers fixture at 5.1 watts (approx. 400 Lm) for 90 minutes (not for use with REM, CP or IC/AT versions)





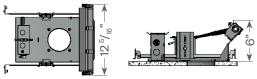
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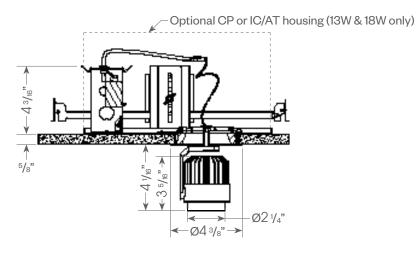
Hornet HP Round Surface Canopy:

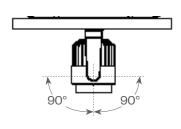


Ceiling cut out: 4" dia.

Emergency Battery Pack (EM) option







Accessories





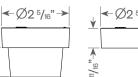








Snoot Accessory Holder



Snoot Accessory Holder



Accessory Holder

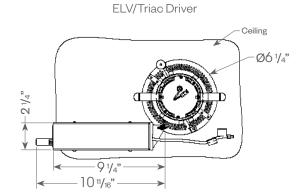


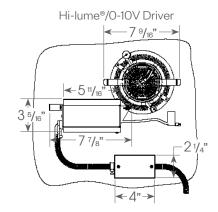
Bezel (standard)



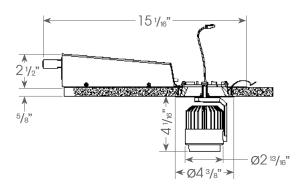
PROJECT: TYPE:

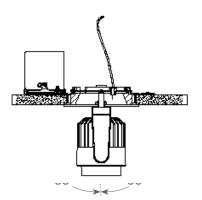
Hornet HP Round Surface Canopy Remodeler:





Ceiling cut out: 4" dia.









PROJECT:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83120V IES file on website)

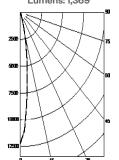
Wattage:	11W	16W	18W
Factor:	0.71	0.88	1.0

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:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

18W LED, 3000K (For FL & WF data see page 6)

Spot (SP) Distribution, 15° LTL #855377 Lumens: 1,369

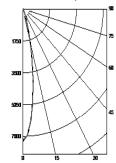


Candelas at Nadir

Deg	Candela
0	12215
5	8436
15	1705
25	204
35	77
45	26

Narrow Flood (NF) Distribution, 22° LTL#860527





Candelas at Nadir

Deg	Candela
0	7252
5	6128
15	1841
25	309
35	93
45	41

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.



	\triangle		Aiming Horizon Footcan	ntal	30°		Но	ming A prizonta tcandle	ıl	30°		30° Air Vertical	ming Ar Footcai	_	60°	B	60° Ai Vertical	ming A Footca	
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	СВ	D	FC	L	W	CB
	5.0'	484	1.4	1.4	5.0'	313	1.8	1.5	3.0	3.0'	178	3.0	1.6	5.0	3.0'	630	1.6	1.1	2.0
pot	7.5'	216	2.0	2.0	7.5'	136	2.8	2.4	4.0	4.0'	105	3.8	2.1	6.0	4.0 '	450	1.6	1.3	2.0
S	10.0'	122	2.7	2.7	10.0'	76	3.7	3.2	6.0	5.0'	67	4.8	2.7	8.0	5.0'	298	2.0	1.6	3.0
	12.5'	78	3.4	3.4	12.5'	46	4.8	4.2	7.0	6.0'	47	5.9	3.2	9.0	6.0'	200	2.4	1.9	3.0
р	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	СВ	D	FC	L	W	CB
00	5.0'	289	1.7	1.7	5.0'	187	2.4	2.1	3.0	3.0'	127	3.3	1.8	4.0	3.0'	422	1.9	1.3	2.0
	7.5'	129	2.8	2.8	7.5'	86	3.5	3.1	4.0	4.0'	70	4.4	2.7	6.0	4.0'	298	1.9	1.5	2.0
5	10.0'	73	3.6	3.6	10.0'	47	4.7	4.1	5.0	5.0'	47	5.3	3.2	7.0	5.0'	181	2.5	2.1	3.0
Rai	12.5'	47	4.5	4.5	12.5'	31	5.8	5.2	7.0	6.0'	32	6.7	3.9	8.0	6.0'	133	2.8	2.5	3.0



PROJECT:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83120V IES file on website)

Wa	ittage:	11W	16W	18W
Fa	actor:	0.71	0.88	1.0

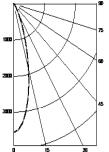
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

18W LED, 3000K (For SP & NF data see page 5)

Flood (FL) Distribution, 28° LTL#860528

Lumens: 1,285

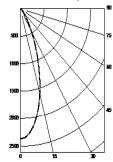


Candelas at Nadir

Deg	Candela
0	3551
5	3304
15	1861
25	612
35	156
45	57

Wide Flood (WF) Distribution, 45° LTL#860529

Lumens: 1,278



Candelas at Nadir

Candela
2369
2268
1592
754
251
82

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.

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

CB=Distance across or down to center beam location.



	\triangle		^o Aiming Horizoi Footcan	ntal	30°		Н	iming A orizonta otcandl	al	30°		30° Aii Vertical	ming Ai Footca	_	60°	D	60° A	iming A I Footca	_
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	СВ	D	FC	L	W	CB
0	5.0'	142	2.7	2.7	5.0'	92	3.4	3.1	3.0	3.0'	75	3.8	2.7	4.0	3.0'	232	2.3	1.7	2.0
00	7.5'	63	3.9	3.9	7.5'	43	4.9	4.4	4.0	4.0'	44	4.9	3.3	5.0	4.0'	154	2.7	2.4	2.0
ŭ	10.0'	36	5.2	5.2	10.0'	25	6.4	5.8	5.0	5.0'	29	6.1	4.1	6.0	5.0'	95	3.4	3.0	2.0
	12.5'	23	6.5	6.5	12.5'	16	8.0	7.2	6.0	6.0'	20	7.4	5.1	7.0	6.0'	69	3.8	3.5	3.0
_	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	СВ
90	5.0'	95	3.2	3.2	5.0'	67	3.9	3.4	2.0	3.0'	63	3.7	2.8	3.0	3.0'	180	2.4	2.0	1.0
Ĕ	7.5'	42	4.8	4.8	7.5'	30	5.7	5.3	3.0	4.0'	36	4.9	3.7	4.0	4.0'	105	3.2	2.9	2.0
ide	10.0'	24	6.4	6.4	10.0'	17	7.6	7.1	4.0	5.0'	23	6.1	4.8	5.0	5.0'	69	3.8	3.5	2.0
≥	12.5'	15	8.0	8.0	12.5'	11	9.6	8.9	5.0	6.0'	16	7.5	5.7	6.0	6.0'	47	4.7	4.3	3.0



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 ---

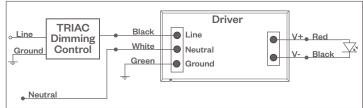
TRIAC (Forward Phase) DIMMING (Standard)

Utilizes "Standard" incandescent 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 (Incandescent Sty	Ill Box (Incandescent Style, Wattage as required)				
Lutron "Diva"	Lutron "Vareo"	Lutron "GP" Panel			
Lutron "Nova-T"	Lutron "Skylark"	Lutron Grafik Eye QS			
Lutron "Maestro"					

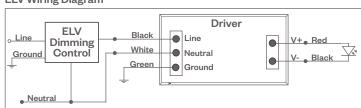
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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

ELV Wiring Diagram



Compatible Dimmers[†]:

Wall Box (ELV Style)		Central System
Lutron "Diva"	Leviton "Surslide"	Lutron "GP" Panel with PHPM-PA Interface
Lutron "Nova-T"	Leviton "Vizio"	Lutron Grafik Eye QS with PHPM-PA Interface
Lutron "Maestro"		
Lutron "Vareo"		
Lutron "Skylark"		

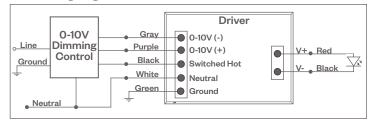
0-10V - DIMMING (-0-10V Option)

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" - DVTV with PP-120H Interface	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface			

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.



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 ---

LUTRON H-SERIES / ECOSYSTEM (-HILUME-H-ECO Option)

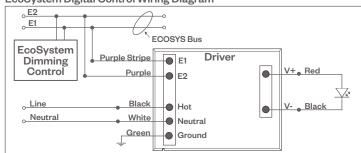
Integrates into Lutron EcoSystem building management

Notes:

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

HILUME-H-ECO, HILUME-5-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 (-DALI OPTION)

Digital control protocol allows individual fixture control

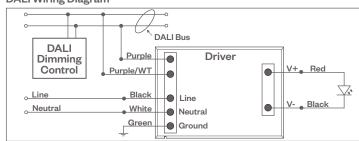
Notes

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

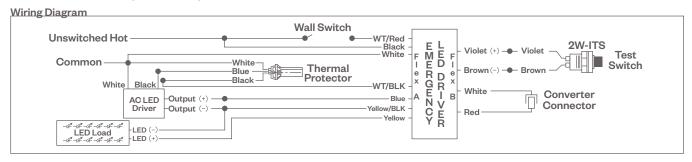
Compatible Dimmers[†]:

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

DALI Wiring Diagram



EMERGENCY DIMMING (-EM OPTION)



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.