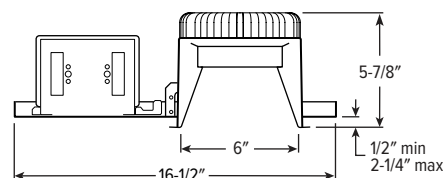
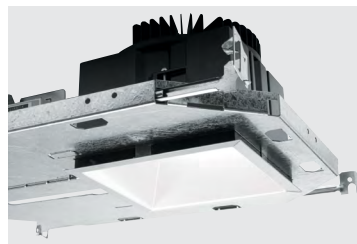


6DS tunable WHITE 6" Downlight – Square



L11 – L20 Lumens shown

CATALOG #: _____

TYPE: _____

PROJECT: _____



NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6DS - L20/8TW - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[1]	COLOR	OPTIONS	CONTROL	DRIVER	VOLTAGE
6DS	L11 1,100lm L20 2,000lm L36 3,600lm	8TW Tunable white (80 CRI, 2700K-5000K)	See page 3 for EMERGENCY BATTERY OPTIONS. See page 3 for APERTURE ADAPTOR ORDERING INFO. ATH Airtight construction CP Chicago plenum (CCEA) ^[2] F Fuse kit	– None AWNRLutron Athena wireless node integral fixture control, RF only ^[3]	See page 3 for DRIVER DETAILS. DALIDriver prewired for DALI applications DIMDimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT DMXDriver prewired for DMX applications LD2Lutron DALI-2 digital driver, 1% ^[4]	UNV 120-277V

TRIM ^[5]

TRIM TYPE	DISTRIBUTION	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector L Flush lens R Regressed lens A Angled lens ^[6]	See page 2 for BEAM ANGLE. W Wide M Medium ^[7] N Narrow ^[8] WW Wall wash ^[9]	OF 1/2" standard flange SF 1/4" mud-in flange ^[10]	Open trim types CS Clear semi-specular anodize SG Satin-glow anodize GD Gold anodize CG Champagne gold anodize PW Pewter anodize SPC Clear specular anodize RG Rose gold anodize Lens trim types CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat MB Black texture splay with white flange ^[11]	MWT Smooth matte white trim flange ^[12] IP IP65 rated trim ^[13] AD Diffuse acrylic lens ^[14] PD Diffuse 1/8" polycarbonate lens ^[15] WET/CC Wet location, covered ceiling listed ^[16] AM Anti-microbial ^[17]

MOUNTING

MOUNTING TYPE ^[18]	MOUNTING HARDWARE ^[19]
N Open pan for new construction I IC-rated enclosure for new construction ^[20] R Remodel kit ^[21]	F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[22] BA1 Adjustable butterfly pan bracket, bar hanger not included ^[23] CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[24]

NOTES

- Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- I Mounting Type required.
- LD2 Driver only.
- Not available with I Mounting Type.
- Trim ships separately.
- Available with WW Distribution only.
- Not available with L36 lumen package.
- Not available with L36 lumen package.
- A Trim Type only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP Options.
- R Trim Type only. Not available with MWT.
- Not available with WH Reflector Finish or L Trim Type.
- L and R Trim Types only.
- Not available with O Trim Type. W and WW Distributions only.
- Not available with O Trim Type. W and WW Distributions only.
- Not available with O Trim Type.
- WH and BL Reflector Finishes only.
- Mounting Hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- L11 and L20 lumen packages only. Not available with EM batteries.
- Also used in new construction sheetrock ceilings. Pan-less installation.
- N and I Mounting Types only. I Mounting Type requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



6DS tunable WHITE

6" Downlight – Square

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Beam angles ranging from 25° narrow to 65° wide for tailored performance
- Square shape accentuates architectural styles
- Open reflector with seven finishes complements any interior style
- Die-cast trim choices include flush, regressed or angled lens
- Spring clip retention system eliminates trim sag
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

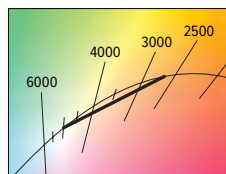
SPECIFICATIONS

- HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-1/4".
- OPEN REFLECTOR** – Low-iridescent anodized aluminum with top diffuser.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL** – High-performance Class 2 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
 - Suitable for wet location under covered ceiling when specified with WET/CC option.
 - IP65 rated trim when specified with IP option.
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/buy-american
- WARRANTY** – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L11	W	14.6	1097	75	1168	80	1122	77
	M	14.6	892	61	1196	82	1165	80
	N	14.6	880	60	1165	80	1159	79
L20	W	24.0	1863	78	1990	83	1906	79
	M	24.0	1513	63	2027	85	1969	82
	N	24.0	1455	61	1929	80	1916	80
L36	W	44.9	3474	77	3698	82	3553	79

- ¹ Beam angle based on CS or WH Reflector Finish.
- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, WH Reflector Finish, W Distribution, 80 CRI/4000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
 - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 - Use multiplier tables to calculate additional options.



MULTIPLIER TABLES

COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

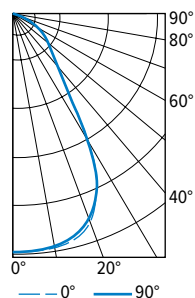
OPEN REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
SG	0.92
GD	0.93
CG	0.96
PW	0.86
SPC	1.02
RG	0.88
WH	0.89
BL	0.79

BEAM ANGLE

	TRIM TYPE ⁽¹⁾		
	O	L	R
W	55°	65°	65°
M	50°	35°	35°
N	45°	25°	25°

PHOTOMETRY

6DS-L20/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1990 lumens; 24.0 Watts | Efficacy: 82.9 lm/W | 80.0 CRI; 4051K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1344	1344	1344	
5	1348	1341	1343	128
15	1317	1300	1300	367
25	1097	1210	1102	514
35	502	810	504	404
45	305	352	298	257
55	193	197	191	174
65	99	99	96	99
75	38	37	36	41
85	3	2	4	7
90	0	0	0	

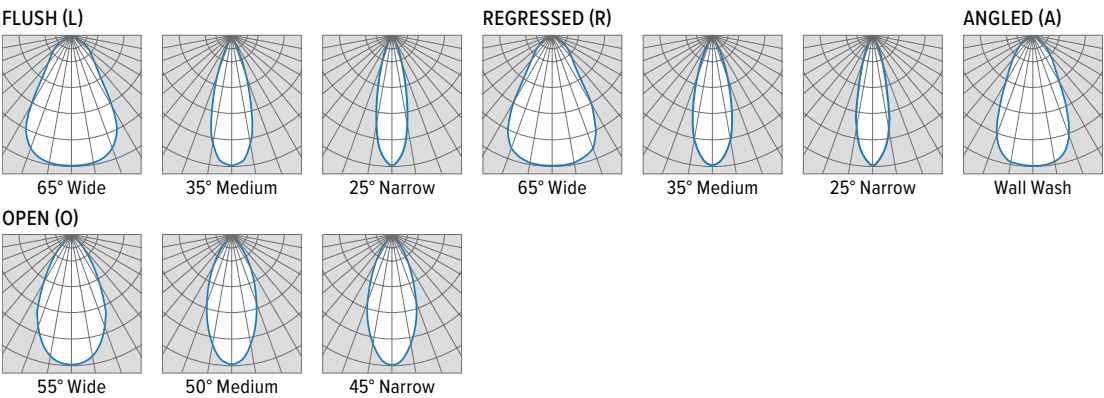
LUMEN SUMMARY	LUMENS		% FIXTURE
	ZONE	LUMENS	
	0 - 30	1009	51
	0 - 40	1413	71
	0 - 60	1844	93
	0 - 90	1990	100
	0 - 180	1990	100

PHOTOMETRY CONTINUED ON NEXT PAGE

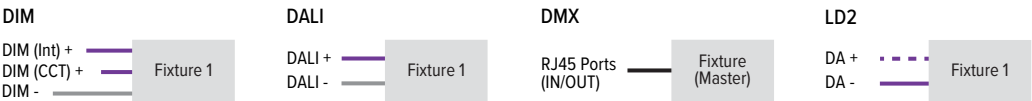


6DS tunable WHITE

6" Downlight – Square



DRIVER DETAILS



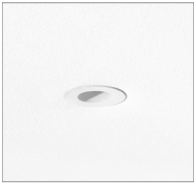
EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery ^[1]
EM/7W/RTS	7-watt emergency battery with regressed test switch ^[2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch ^[3]
EM/10W	10-watt emergency battery ^[1]
EM/10W/RTS	10-watt emergency battery with regressed test switch ^[2]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch ^[3]

- 1 Not available with IP Trim Option.
2 Not available with IP or WET/CC Trim Options.
3 Must specify IP Trim Option.

MOUNTING DETAILS

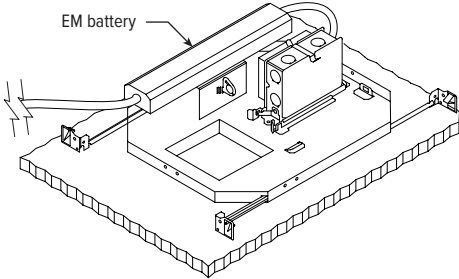
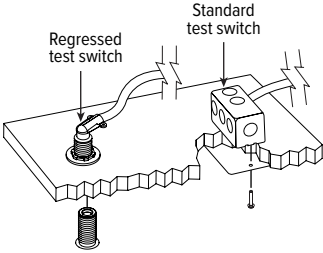


Regressed test switch
ø1-3/4"



Standard test switch
2-3/4" x 4-1/2"

Max remote distance is 50',
connection by others.



APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT				
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH	
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575	CS	Clear semi-specular powder coat
		See Kit Components for application limits.	WH	White texture powder coat
			BL	Black texture powder coat

Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

For limitations and instructions, see hew.com/aperture-adaptor.pdf

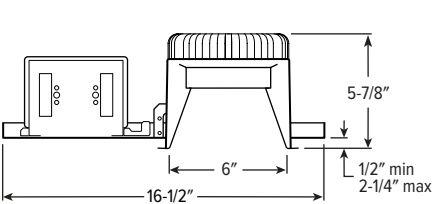


6DS tunable WHITE

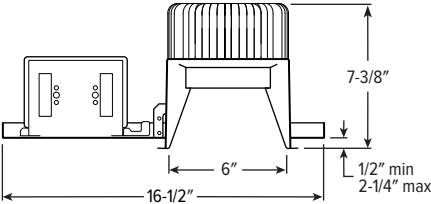
6" Downlight – Square

CROSS SECTIONS

L11 – L20 LUMENS

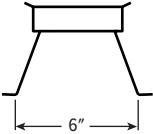


L36 LUMENS

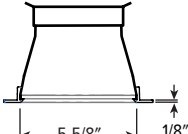


TRIM TYPE DETAILS

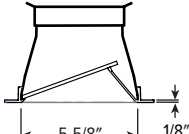
OPEN



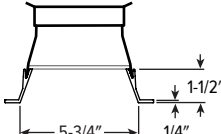
FLUSH



ANGLED

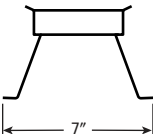


REGRESSED



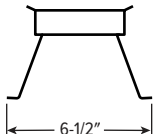
FLANGE TYPE DETAILS

1/2" STANDARD



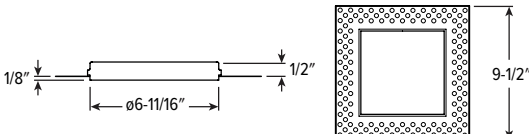
Ceiling Cutout: 6-1/2"

1/4" MUD-IN



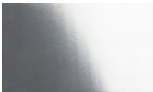
Ceiling cutout: 7"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)

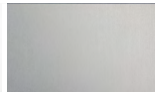


REFLECTOR FINISH DETAILS

SPC
Clear specular



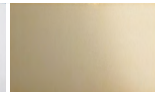
SG
Satin glow



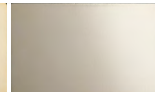
PW
Pewter



GD
Gold



CG
Champagne gold



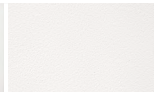
RG
Rose gold



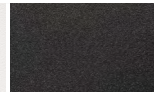
CS
Clear semi-specular



WH
White

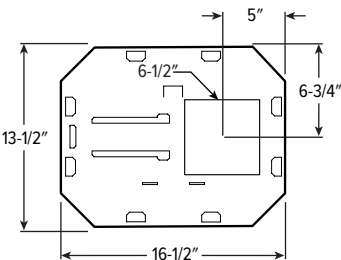


BL
Black

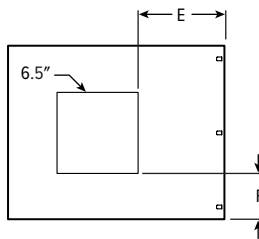
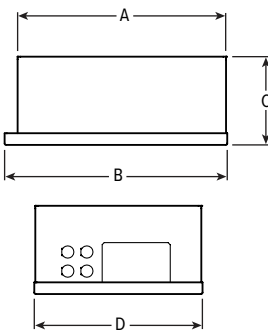


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

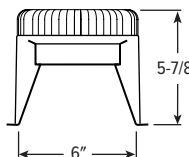


IC-RATED

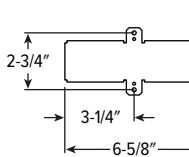


REMODEL

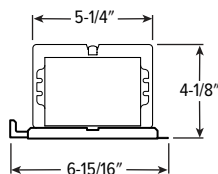
CROSS SECTION
L11 – L20 lumens shown



RECEIVER BRACKET



DRIVER & JUNCTION BOX



LUMENS	LENGTH					
	A	B	C	D	E	F
L11 - L20	15-3/16"	16"	6-3/8"	12-1/8"	6-1/4"	2-7/8"

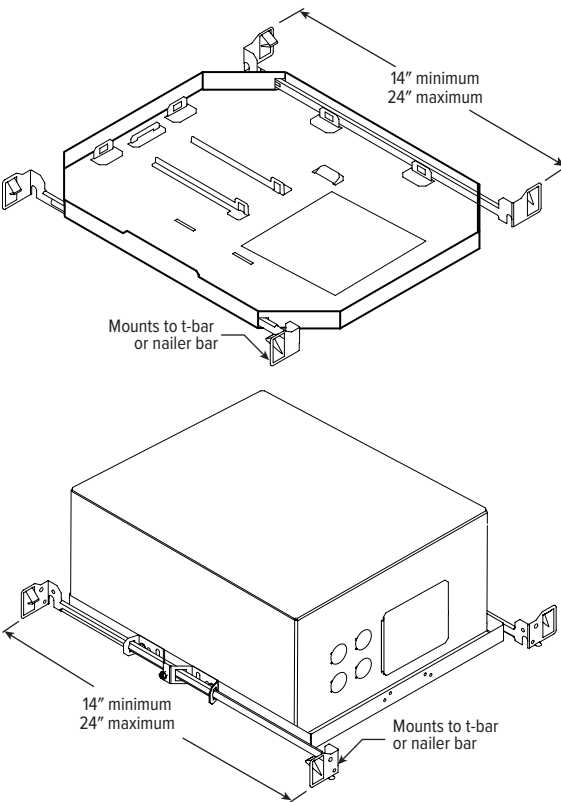


6DS tunable WHITE

6" Downlight – Square

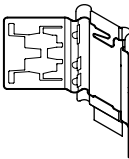
MOUNTING HARDWARE DETAILS

F1 Integral 2-position fixed pan bracket, universal bar hanger included

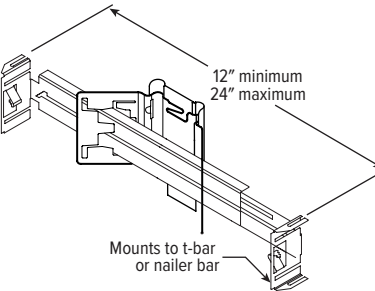


F1 with I Mounting Type

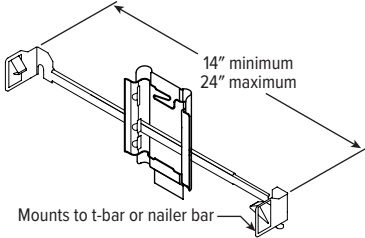
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

