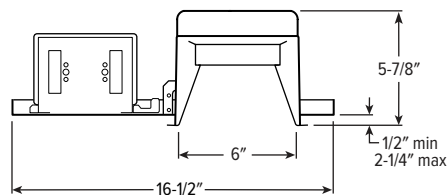


6DS dim to **WARM** 6" Downlight – Square



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: **6DS - L21/9DW - OPTIONS - DIM1 - UNV - LW - OF - WH - TRIM OPTIONS - N - F1**



HOUSING

SERIES	LUMENS ^[1]	COLOR	OPTIONS	CONTROL	VOLTAGE
6DS	L7 700lm L13 1,300lm L21 2,100lm	9DW Dim to warm (95 CRI, 1800K – 3000K)	See page 3 for EMERGENCY BATTERY OPTIONS . ATH Airtight construction CP Chicago plenum (CCEA) ^[2] F Fuse kit SDT Stepdown transformer ^[3]	DIM1 1% dimming driver (0-10V signal to control dimming and CCT) LUT Lutron Ecosystem enabled ^[4]	UNV 120-277V 347 347V ^[5]

TRIM ^[6]

TRIM TYPE	DISTRIBUTION ^[7]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector L Flush lens R Regressed lens A Angled lens ^[8]	W Wide 55° Open 65° Flush 65° Regressed M Medium 50° Open 35° Flush 35° Regressed N Narrow 45° Open 25° Flush 25° Regressed 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 Textured 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 full light output, L trim type, W distribution and WH finish, 3000K/95CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- I Mounting Type required.
- May be required for 347V, see product builder at hew.com/product-builder.
- Not available with I Mounting Type.
- Not available with EM batteries.
- Trim ships separately.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- O and A Trim Types 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. Not available with PD trim option.
- WH and BL Reflector Finishes only.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only. Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- L7 and L13 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 requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



6DS dim to WARM

6" Downlight – Square

FEATURES

- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- 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

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 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- 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.
 - 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/baa.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

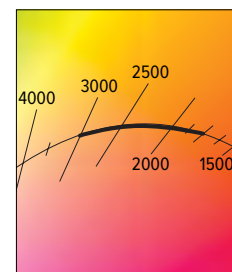
FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	715	3000K	1800K	14.0	51
	M	581			14.0	42
	N	573			14.0	41
L13	W	1253			23.4	54
	M	1019			23.4	44
	N	1005			23.4	43
L21	W	2052			37.7	54
	M	1668			37.7	44
	N	1648			37.7	44

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	761	3000K	1800K	14.0	54
	M	779			14.0	56
	N	759			14.0	54
L13	W	1334			23.4	57
	M	1366			23.4	58
	N	1331			23.4	57
L21	W	2194			37.7	58
	M	2234			37.7	59
	N	2181			37.7	58



REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	731	3000K	1800K	14.0	52
	M	759			14.0	54
	N	755			14.0	54
L13	W	1282			23.4	55
	M	1330			23.4	57
	N	1324			23.4	57
L21	W	2099			37.7	56
	M	2171			37.7	58
	N	2168			37.7	58

MULTIPLIER TABLES

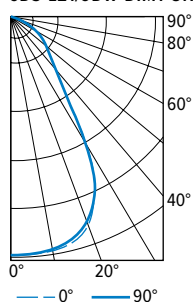
OPEN REFLECTOR FINISH		
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3000K, 95 CRI, full output, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

6DS-L21/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 2194 lumens; 37.7 Watts | Efficacy: 58.2 lm/W | 95.0 CRI; 3000K CCT

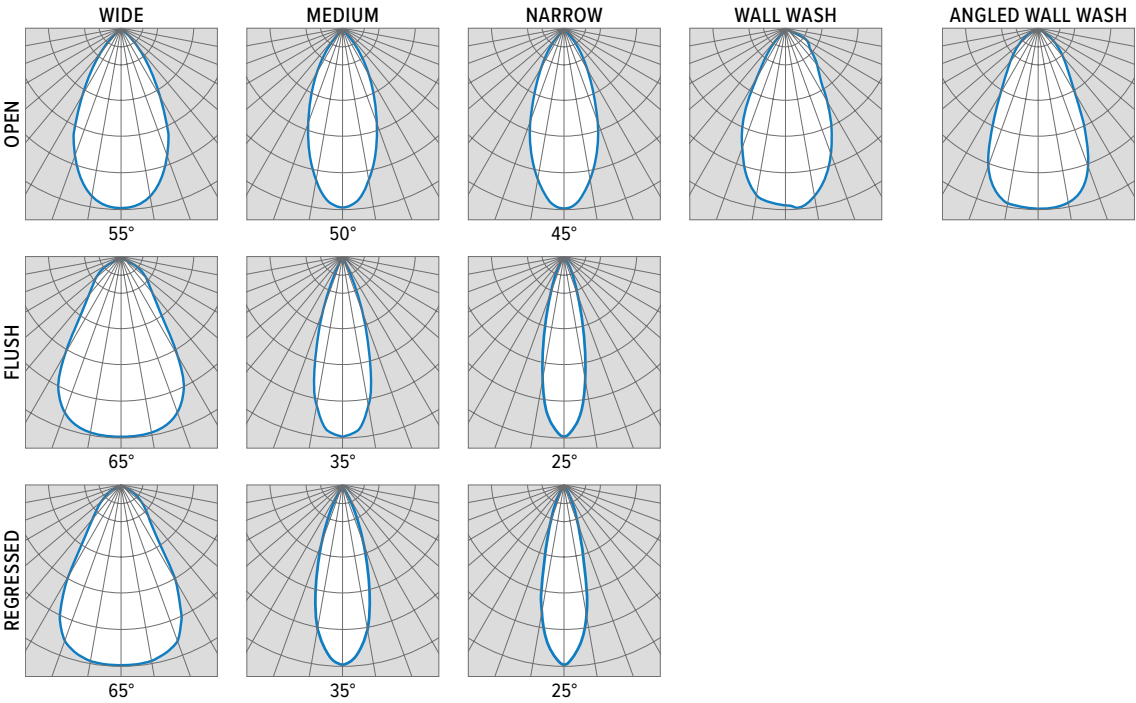


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1482	1482	1482	
5	1486	1478	1481	141
15	1452	1433	1433	405
25	1209	1334	1214	566
35	553	892	556	445
45	336	388	328	283
55	212	218	210	192
65	109	109	106	109
75	42	41	40	45
85	3	2	4	7
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1112	51
	0 - 40	1557	71
	0 - 60	2032	93
	0 - 90	2194	100
	0 - 180	2194	100



6DS dim to **WARM** 6" Downlight – Square



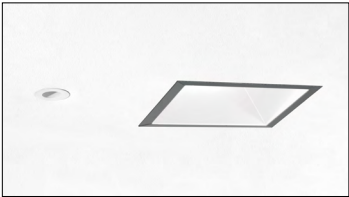
EMERGENCY BATTERY OPTIONS

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

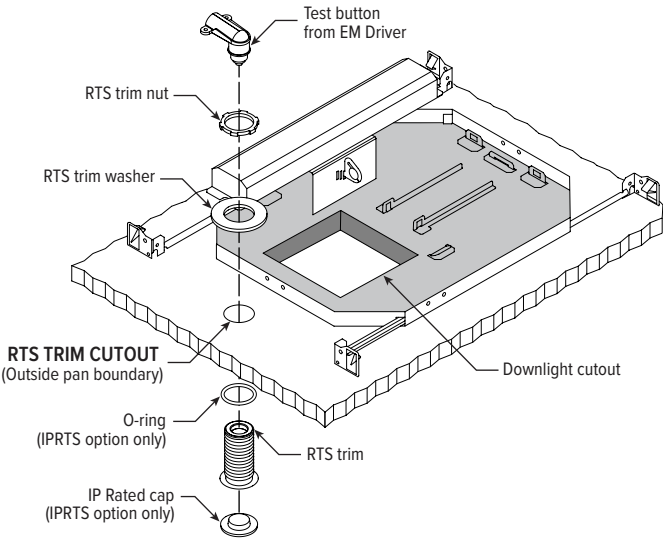
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery ^[1]
EM/7W/RTS	7-watt emergency battery with regressed test switch ^[2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery ^[1]
EM/10W/RTS	10-watt emergency battery with regressed test switch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

- ¹ Not available with IP Option.
- ² Not available with IP or WET/CC Options.

REGRESSED TEST SWITCH DETAILS

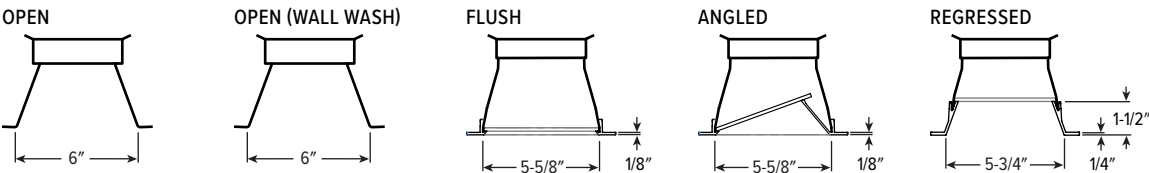


Shown Installed

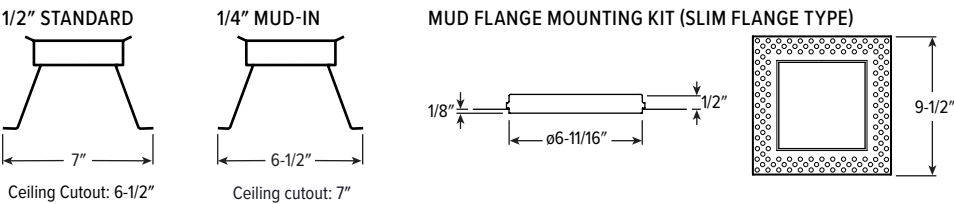


6DS dim to **WARM** 6" Downlight – Square

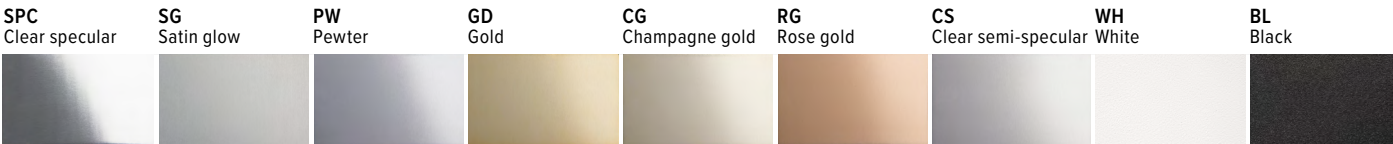
TRIM TYPE DETAILS



FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS



APERTURE ADAPTOR ORDERING INFO

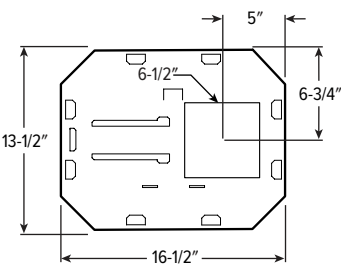
ORDERING EXAMPLE: 4DR - GR - 0575 - WH			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder coat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

For use with remodel downlights. Additional finishes available, consult factory.
For limitations and instructions, see hew.com/aperture-adaptor.pdf

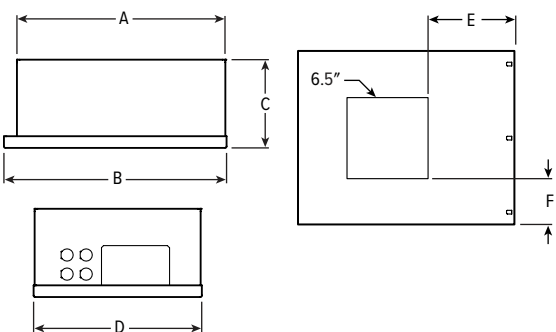


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

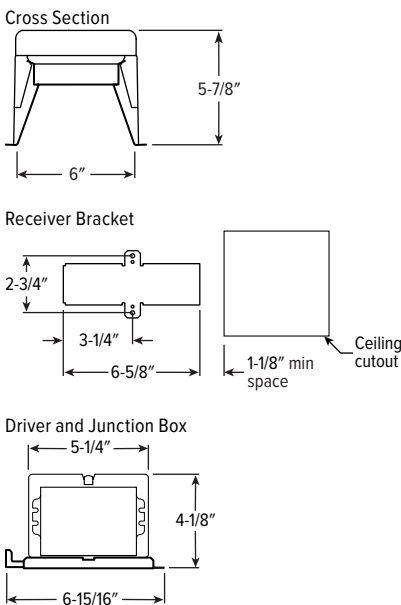


IC-RATED



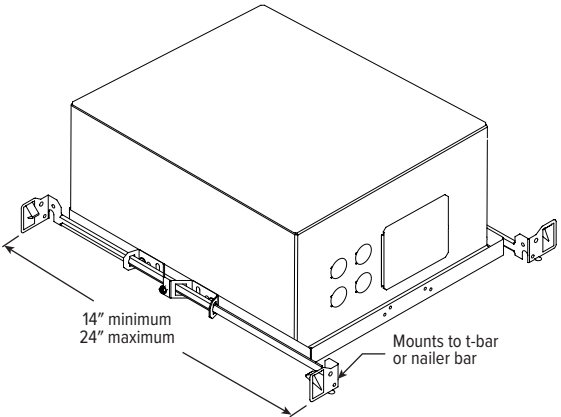
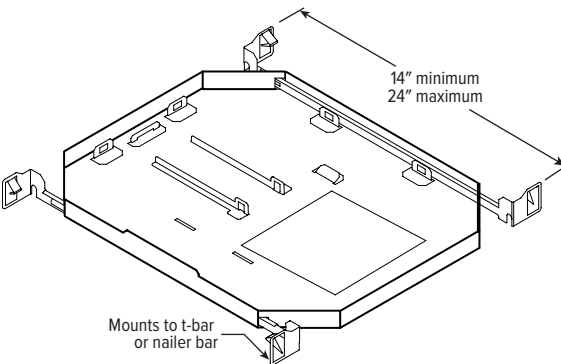
	LENGTH					
LUMENS	A	B	C	D	E	F
L7 - L13	15-3/16"	16"	6-3/8"	12-1/8"	6-1/4"	2-7/8"

REMODEL



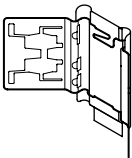
MOUNTING HARDWARE DETAILS

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

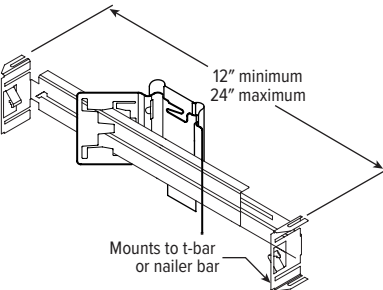


F1 with I Mounting Type

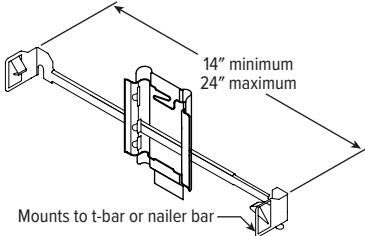
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

