

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
- 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 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.

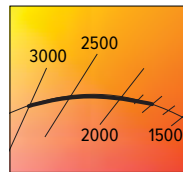
LISTINGS –

- 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.
- IP65 rated trim when specified with IP 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

					OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
CCT AT 100% (FULL OUTPUT)		CCT AT 1% (FULL DIM)	DIST.	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L7	3000K	1800K	W	14.0	715	51	761	54	731	52
			M	14.0	581	42	779	56	759	54
			N	14.0	573	41	759	54	755	54
L13			W	23.4	1253	54	1334	57	1282	55
			M	23.4	1019	44	1366	58	1330	57
			N	23.4	1005	43	1331	57	1324	57
L21			W	37.7	2052	54	2194	58	2099	56
			M	37.7	1668	44	2234	59	2171	58
			N	37.7	1648	44	2181	58	2168	58

- Photometrics tested in accordance with IESNA LM-79. Results based on full light output, L Trim Type, WH Reflector Finish, W Distribution, 95 CRI/3000K 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

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

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

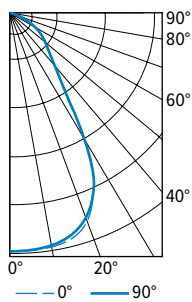
BEAM ANGLE

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

¹ Beam angle based on CS or WH Reflector Finish.

PHOTOMETRY

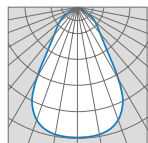
6DS-L21/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 2194 lumens; 37.7 Watts | Efficacy: 58.2 lm/W | 95.0 CRI; 3000K CCT



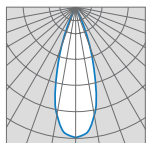
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1482	1482	1482	
5	1486	1478	1481	141
15	1452	1433	1433	405
25	1209	1334	1214	566
35	553	892	556	445
45	336	388	328	283
55	212	218	210	192
65	109	109	106	109
75	42	41	40	45
85	3	2	4	7
90	0	0	0	

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

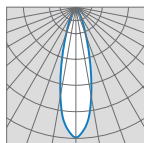
FLUSH (L)



65° Wide

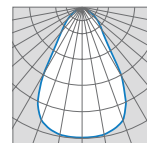


35° Medium

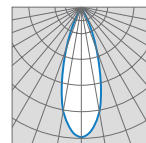


25° Narrow

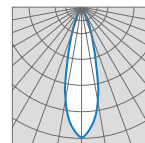
REGRESSED (R)



65° Wide

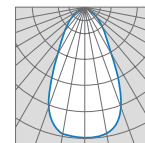


35° Medium



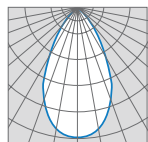
25° Narrow

ANGLED (A)

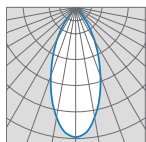


Wall Wash

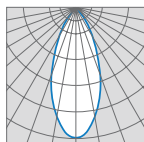
OPEN (O)



55° Wide



50° Medium



45° Narrow



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

417-358-4065

Designed and Manufactured in the USA

REV.01/10/25.JL

Downlights
Page 2 of 4

Information contained herein is subject to change without notice.

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

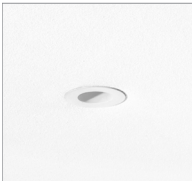
EMERGENCY BATTERY OPTIONS

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 ^[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

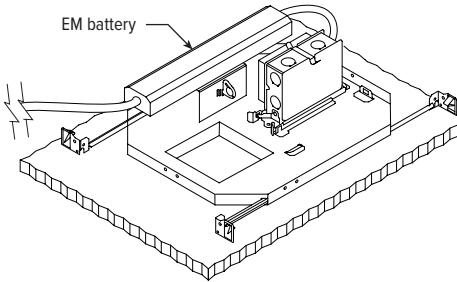
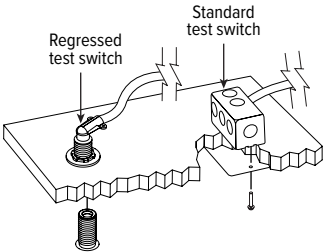


Regressed test switch
ø1-3/4"



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 See Kit Components for application limits.	CS WH BL	Clear semi-specular powder coat White texture powder coat Black texture powder coat

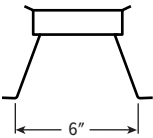
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

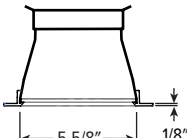
For limitations and instructions, see hew.com/aperture-adaptor.pdf

TRIM TYPE DETAILS

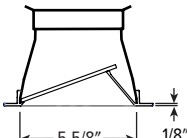
OPEN



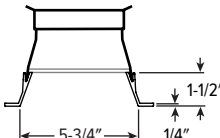
FLUSH



ANGLED

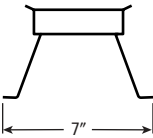


REGRESSED



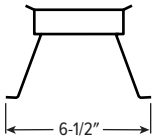
FLANGE TYPE DETAILS

1/2" STANDARD



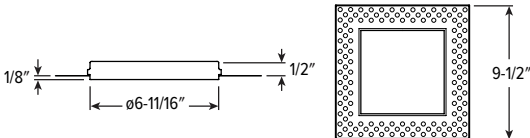
Ceiling Cutout: 6-1/2"

1/4" MUD-IN



Ceiling cutout: 7"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



REFLECTOR FINISH DETAILS

SPC

Clear specular



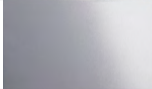
SG

Satin glow



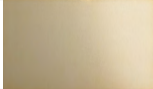
PW

Pewter



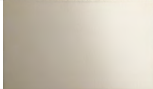
GD

Gold



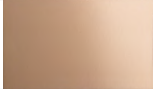
CG

Champagne gold



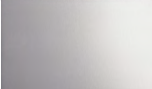
RG

Rose gold



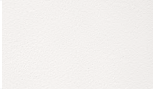
CS

Clear semi-specular



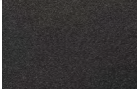
WH

White



BL

Black



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

417-358-4065

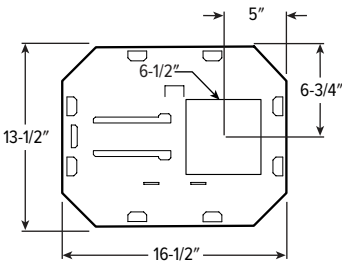
Designed and Manufactured in the USA

REV.01/10/25.JL

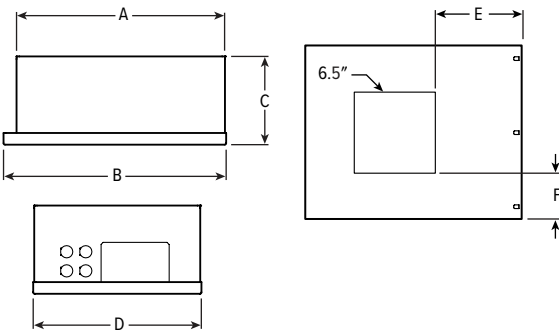
6DS dim to **WARM** 6" Downlight – Square

MOUNTING TYPE DETAILS

NEW CONSTRUCTION



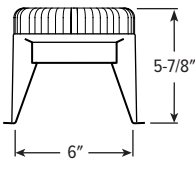
IC-RATED



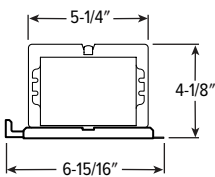
LUMENS	LENGTH					
	A	B	C	D	E	F
L7 - L13	15-3/16"	16"	6-3/8"	12-1/8"	6-1/4"	2-7/8"

REMODEL

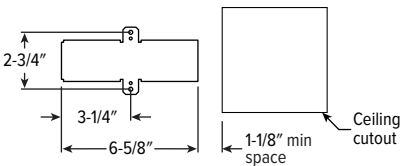
CROSS SECTION



DRIVER & JUNCTION BOX

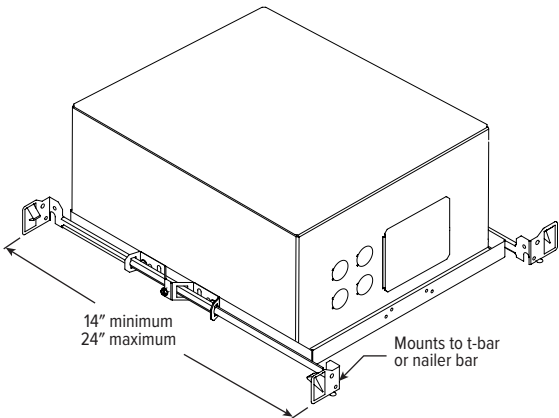
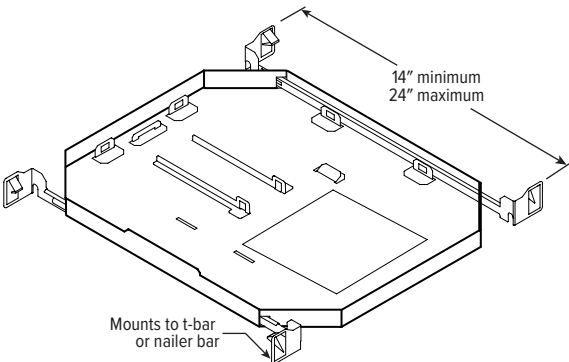


RECEIVER BRACKET



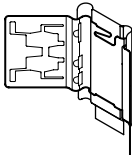
MOUNTING HARDWARE DETAILS

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

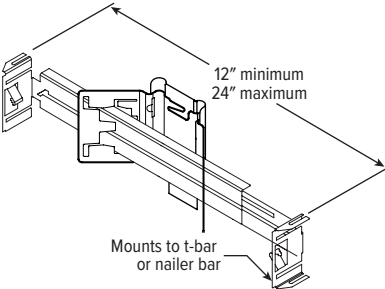


F1 with I Mounting Type

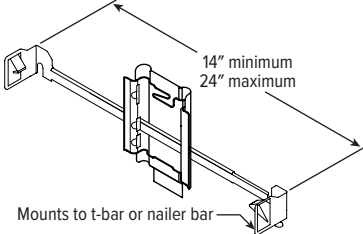
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

