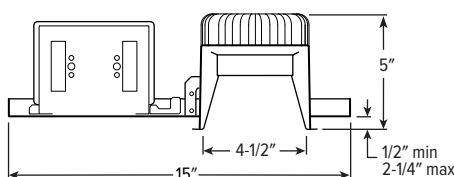
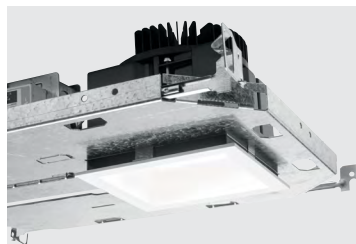


# 4DS tunable WHITE

## 4.5" Downlight – Square



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



### NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 4DS - L20/8TW - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

### HOUSING

SERIES	LUMENS <sup>[1]</sup>	COLOR	OPTIONS	CONTROL	DRIVER	VOLTAGE
4DS	L11 1,100lm L20 2,000lm	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) <sup>[2]</sup> F Fuse kit	– None AWNRLutron Athena wireless node integral fixture control, RF only <sup>[3]</sup>	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% <sup>[4]</sup>	UNV 120-277V

### TRIM <sup>[5]</sup>

TRIM TYPE	DISTRIBUTION	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens O Open reflector R Regressed lens A Angled lens <sup>[6]</sup>	See page 2 for BEAM ANGLE. W Wide M Medium N Narrow WW Wall wash <sup>[7]</sup>	OF 1/2" standard flange SF 1/4" mud-in flange <sup>[8]</sup>	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 <sup>[9]</sup>	MWT Smooth matte white trim flange <sup>[10]</sup> IP IP65 rated trim <sup>[11]</sup> AD Diffuse acrylic lens <sup>[12]</sup> PD Diffuse 1/8" polycarbonate lens <sup>[13]</sup> WET/CC Wet location, covered ceiling listed <sup>[14]</sup> AM Anti-microbial <sup>[15]</sup>

### MOUNTING

MOUNTING TYPE <sup>[16]</sup>	MOUNTING HARDWARE <sup>[17]</sup>
N Open pan for new construction I IC-rated enclosure for new construction <sup>[18]</sup> R Remodel kit <sup>[19]</sup>	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[20]</sup> BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[21]</sup> CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[22]</sup>

### NOTES

- Lumen output based on L Trim Type, M 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.
- A Trim Type only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 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 4 for MOUNTING HARDWARE DETAILS.
- 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.





# 4DS tunable WHITE

## 4.5" Downlight – Square

### FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Beam angles ranging from 25° narrow to 60° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Square shape accentuates architectural styles
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Spring clip retention system eliminates trim sag
- Fully room-side accessible
- IP65-rated die-cast trim includes easy-to-clean flush lens
- 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.

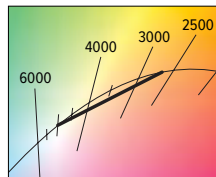
### LISTINGS –

- 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 WE1/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](http://hew.com/buy-american)
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

### FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	FLUSH LENS TRIM TYPE		OPEN REFLECTOR TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L11	W	14.6	1045	72	965	66	1004	69
	M	14.6	1152	79	1065	73	1132	78
	N	14.6	1165	80	1088	75	1152	79
L20	W	24.0	1820	76	1680	70	1749	73
	M	24.0	1973	82	1853	77	1945	81
	N	24.0	1908	80	1782	74	1887	79

- <sup>1</sup> 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, M Distribution, 80 CRI/4000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/- 5%.
  - Beam angle based on CS or WH Reflector Finish.
  - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
  - Use multiplier tables to calculate additional options.



### BEAM ANGLE

	TRIM TYPE <sup>(1)</sup>		
	O	L	R
W	55°	60°	60°
M	45°	35°	35°
N	40°	25°	25°

### MULTIPLIER TABLES

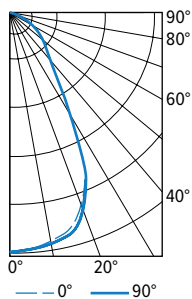
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

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

### PHOTOMETRY

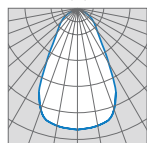
4DS-L20/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1820 lumens; 24 Watts | Efficacy: 75.8 lm/W | 80 CRI; 4000K CCT



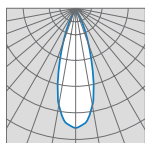
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1354	1354	1354	
5	1341	1341	1342	127
15	1265	1283	1291	359
25	982	1111	985	467
35	444	676	436	343
45	281	305	279	229
55	170	175	169	157
65	90	87	88	90
75	37	36	37	40
85	4	4	5	8
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	954	52
	0 - 40	1296	71
	0 - 60	1682	92
	0 - 90	1820	100
	0 - 180	1820	100

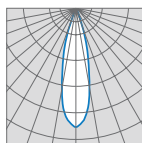
### FLUSH (L)



60° Wide

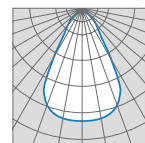


35° Medium

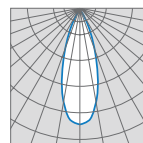


25° Narrow

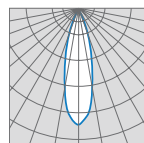
### REGRESSED (R)



60° Wide

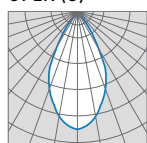


35° Medium

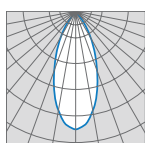


25° Narrow

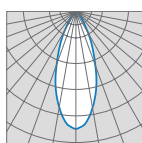
### OPEN (O)



55° Wide

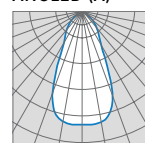


45° Medium



40° Narrow

### ANGLED (A)



Wall Wash



H.E. Williams, Inc.

Carthage, Missouri

[www.hew.com](http://www.hew.com)

417-358-4065

Designed and Manufactured in the USA

Information contained herein is subject to change without notice.

REV.01/10/25.JL

Downlights  
Page 2 of 4



# 4DS tunable WHITE

## 4.5" 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 <sup>[1]</sup>
EM/7W/RTS	7-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch <sup>[3]</sup>
EM/10W	10-watt emergency battery <sup>[1]</sup>
EM/10W/RTS	10-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch <sup>[3]</sup>

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

### MOUNTING DETAILS

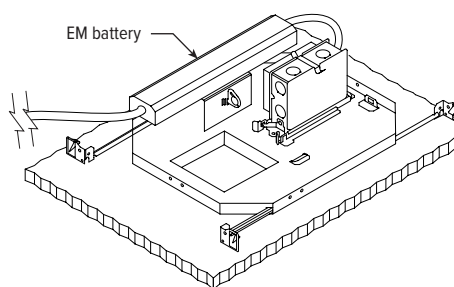
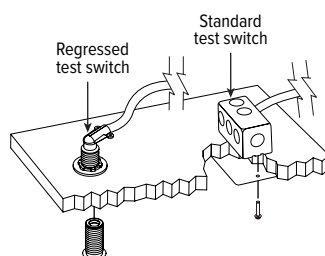


Regressed test switch  
ø1-3/4"



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

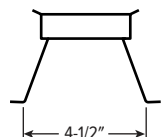
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

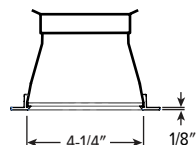
For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

### TRIM TYPE DETAILS

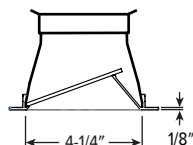
#### OPEN



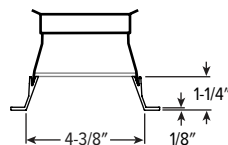
#### FLUSH



#### ANGLED

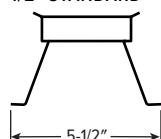


#### REGRESSED



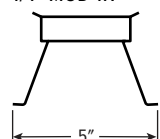
### FLANGE TYPE DETAILS

#### 1/2" STANDARD



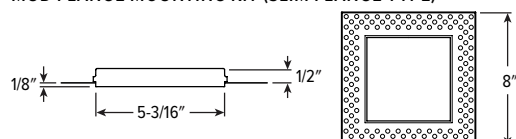
Ceiling Cutout: 5"

#### 1/4" MUD-IN



Ceiling cutout: 5-1/2"

#### MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)








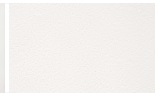





# 4DS tunable WHITE

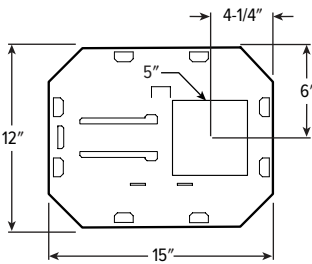
## 4.5" Downlight – Square

### REFLECTOR FINISH DETAILS

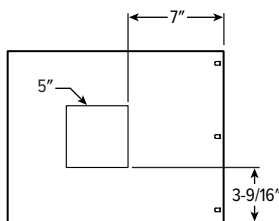
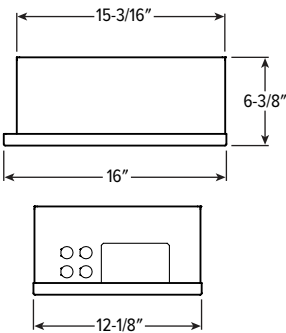
SPC	SG	PW	GD	CG	RG	CS	WH	BL
Clear specular	Satin glow	Pewter	Gold	Champagne gold	Rose gold	Clear semi-specular	White	Black
								

### MOUNTING TYPE DETAILS

#### NEW CONSTRUCTION

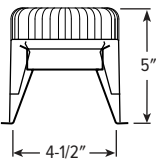


#### IC-RATED

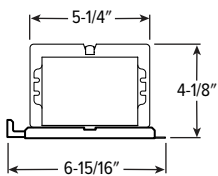


#### REMODEL

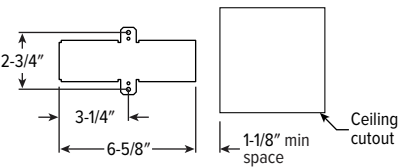
##### CROSS SECTION



##### DRIVER & JUNCTION BOX

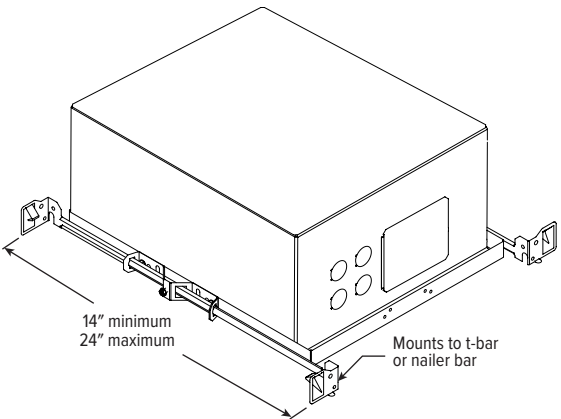
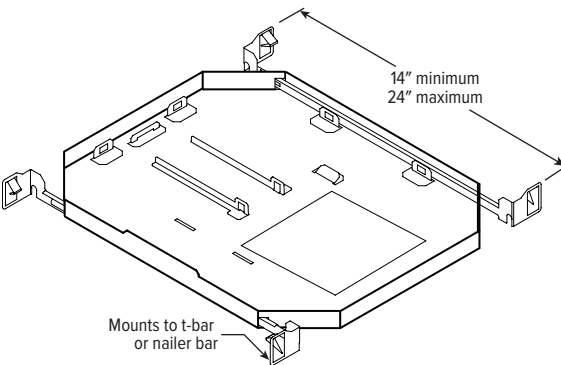


##### RECEIVER BRACKET



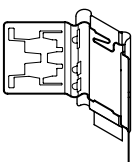
### MOUNTING HARDWARE DETAILS

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

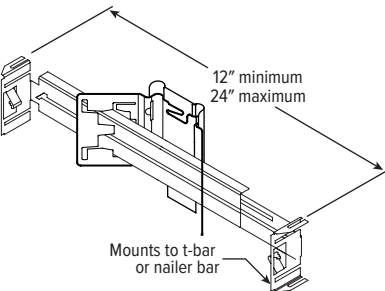


F1 with I Mounting Type

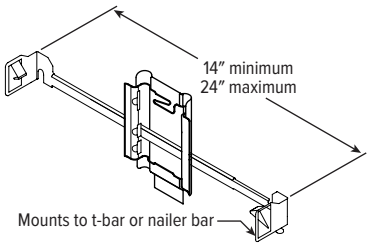
#### BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



#### 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)

