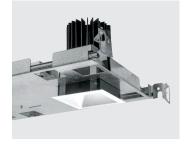
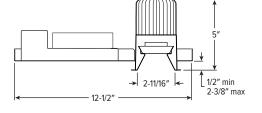
# DS tunable WHITE 2" Downlight – Square







TYPE PROJECT: \_\_\_\_

CATALOG #: \_



#### ORDERING EXAMPLE: 2DS - L15/9TW - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1 \_\_\_\_\_ TRIM \_\_\_\_\_\_ MOUNT. - HOUSING -

## HOUSING

110 0 0 0 11							
SERIES	LUN	IENS <sup>[1]</sup>	COL	OR	OPT	IONS	
2DS	L5 L7	500lm 700lm	m white (90 CRI.		See page 3 for EMERGENCY BATTERY OPTIONS.		
		900lm 1,200lm 1,500lm		2700K-5000K)	ATH F CP	Airtight construction Fuse kit Chicago plenum (CCEA) <sup>[2]</sup>	

DISTRIBUTION

See page 2 for

RFA'M ĂNGI F

### CONTROL None AWNR Lutron A wireless integral control,

	DRIV	ER	VOL	AGE
	See p	UNV		
Athena s node I fixture , RF only <sup>[3]</sup>	DIM DMX	Driver prewired for DALI applications Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT Driver prewired for DMX applications Lutron DALI-2 digital driver, 1% <sup>[4]</sup>		277V

## TRIM [5]

TRIM TYPE L Flush lens

- O Open reflector R Regressed lens
- A Angled lens [6]
- Wide w М Medium Narrow<sup>[7]</sup> Ν WW Wall wash [8]

## FLANGE TYPE OF 1/2" standard flange ZF Zero-flange mud-in [9]

# REFLECTOR FINISH

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
- Rose gold anodize RG
- 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

# MOUNTING

MOUNTING TYPE [16]

N Open pan for new construction [18]

I IC-rated enclosure for new construction [19]

## MOUNTING HARDWARE [17]

- F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[20]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included [21]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included [22]

## NOTES

- 1 Lumen output based on O Trim Type, W Distribution, and WH Reflector Finish, 90 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA...
- I Mounting Type required. 3 LD2 Driver only.
- 4 N Mounting Type only, top access required.
- 5
- Trim ships separately. Available with WW Distribution only. 6
- 7 L12 lumen package max for N Mounting Type. L7 lumen package max for I Mounting Type.
- A Trim Type only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for TRIM TYPE DETAILS. Not available with O Trim Type or ATH
- Option. R Trim Type only. Not available with ZF Flange Type or 10 MWT.
- Not available with L Trim Type, ZF Flange Type or WH Reflector Finish. 12
- W Distribution only. Not available with O Trim Type 13 W and WW Distributions only. Not available with O Trim Type.
- 14 Not available with O Trim Type.
- <sup>16</sup> WH and BL Reflector Finishes only.
  <sup>16</sup> Mounting Hardware required, 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. 17
- <sup>18</sup> Top access required when specified with EM battery.
  <sup>19</sup> L9 lumen package max. Not available with EM batteries.
- <sup>20</sup> I Mounting requires external brackets.
- 21
- <sup>21</sup> N Mounting Type only.
  <sup>22</sup> N Mounting Type only.

H.E. Williams, Inc. Carthage, Missouri www.hew.com 417-358-4065 Information contained herein is subject to change without notice.

Designed and Manufactured in the USA REV 01/10/25 II

TRIM OPTIONS MWT Smooth matte white trim flange [11] Diffuse acrylic lens [12] AD Diffuse 1/8" polycarbonate lens [13] PD

AM

WET/CC Wet location, covered ceiling listed  $^{\rm [14]}$ Anti-microbial <sup>[15]</sup>

# 2DS tunable WHITE 2" Downlight – Square

## FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Beam angles ranging from 20° narrow to 50° wide for tailored performance
- 2" aperture is unobtrusive in small scale spaces
- Square shape accentuates architectural styles
- . Zero-flange trim options for modern ceiling
- Spring clip retention system eliminates trim sag
- New construction mounting pan or IC-rated enclosure available
- Open reflector with seven finishes complements any interior style
- Die-cast trim choices include flush, regressed or angled . lens
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- 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'' - 2-3/8''.
- OPEN REFLECTOR Low-iridescent anodized aluminum with top diffuser.
- LENSED TRIM Die-cast aluminum frame with microprismatic, acrylic lens. Diffuse acrylic lens standard with A Trim Type.
- 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. 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. Top access required for driver maintenance.

## LISTINGS -

- cCSAus conforms to UL STD 1598; Certified to CAN/ CSA STD C22.2 No. 250.0 for 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/buy-american
- WARRANTY 5-year limited warranty, see

hew.com/warranty

# FIXTURE PERFORMANCE DATA

[		FLUSH LENS	S TRIM TYPE	OPEN REFLECT	FOR TRIM TYPE	REGRESSED LE	REGRESSED LENS TRIM TYPE		S TRIM TYPE	M	
	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)	
	W	10.5	581	55	421	40	586	56	_	_	
പ	M	10.5	609	58	416	40	600	57	_	_	1 L
	N	10.5	552	53	402	38	553	53	_	-	] [:
	WW	10.5	-	_	_	-	_	_	450	43	] [:
	W	13.5	776	57	562	42	782	58	_	-	
~	М	13.5	813	60	556	41	801	59	_	-	] [!
	N	13.5	737	55	537	40	738	55	_	-	
	WW	13.5	-	_	_	-	_	_	601	44	
	W	18.3	1083	59	784	43	1091	60	_	-	
ച	М	18.3	1134	62	776	42	1117	61	_	-	l r
	N	18.3	1029	56	750	41	1030	56	_	-	
	WW	18.3	-	-	-	-	-	-	838	46	
	W	22.5	1332	59	964	43	1342	60	-	-	
12	М	22.5	1395	62	954	42	1374	61	_	-	
1	N	22.5	1265	56	922	41	1266	56	_	-	
	WW	22.5	-	_	_	-	_	_	1031	46	
	W	28.4	1570	55	1137	40	1582	56	_	-	
L15	M	28.4	1645	58	1125	40	1620	57	_	-	
12	N	-	-	_	_	-	_	_	_	-	
	WW	28.4	-	_	-	-	-	_	1216	43	4

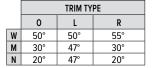
# MULTIPLIER TABLES

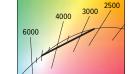
COLOR TEMPERATURE					
ССТ	LUMENS	WATTS			
2700K	0.87	1.05			
3000K	0.96	1.11			
3500K	1.02	1.06			
4000K	1.00	1.00			
5000K	1.02	1.06			

	REFLECTOR FINISH				
	CATALOG NUMBER	CONVERSION FACTOR			
	CS	1.00			
	SG <sup>[1]</sup>	0.92			
Σ	GD	0.93			
O TRIM	CG	0.96			
0	PW	0.86			
	SPC	1.02			
	RG	0.88			
	WH	1.00			
R TRIM	CS	0.98			
RT	BL	0.58			

TRIM OPTIONS					
CATALOG NUMBER	CONVERSION FACTOR				
AD	0.85				
PD	0.85				

## **BEAM ANGLE**





Distribution will also be affected, consult factory. 1

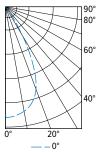
Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L, R and A Trim Types) Reflector Finish, 90 CRI/4000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5% Beam angle based on L Trim Type and WH Reflector Finish.

To calculate lumen output in emergency mode, multiply the battery wattage

by the efficacy. Use multiplier tables to calculate additional options.

## PHOTOMETRY

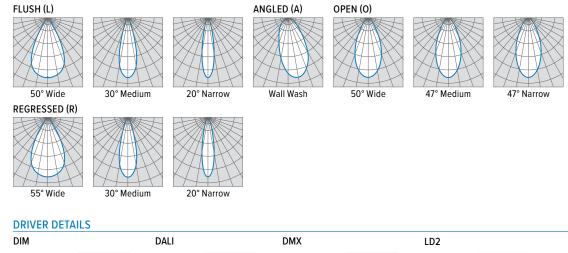
2DS-L15/9TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1570 lumens: 28.4 Watts | Efficacv: 55 lm/W | 90 CRI: 4000K CCT



F-WH Total Luminaire Output: 1570 lumens; 28.4 watts   Efficacy: 5						
	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS			
S	0	1815				
CANDLEPOWER DISTRIBUTION	5	1832	170			
	15	1656	454			
S	25	1044	487			
E I	35	264	223			
8	45	107	95			
Ē.	55	70	67			
릴	65	45	46			
8	75	22	23			
	85	4	5			
	90	0				

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
N	0 - 40	1333	85
NS	0 - 60	1495	95
W	0 - 90	1570	100
Ц	0-180	1570	100

# 2DS tunable WHITE 2" Downlight – Square



DIM	DALI	DMX	LD2
DIM (Int) + DIM (CCT) + Fixture 1 DIM	DALI + Fixture 1	RJ45 Ports Fixture (IN/OUT) (Master)	DA + Fixture 1

# **EMERGENCY BATTERY OPTIONS**

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

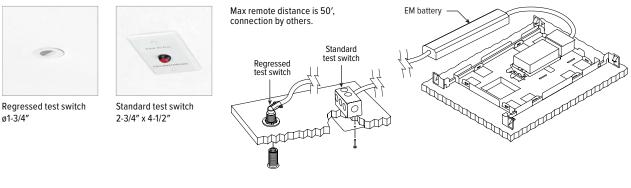
CATALOG NUMBER	DESCRIPTION
EM/5W	5-watt emergency battery
EM/7W	7-watt emergency battery
EM/7W/RTS	7-watt emergency battery with regressed test switch [1]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch [2]
EM/10W	10-watt emergency battery <sup>[3]</sup>
EM/10W/RTS	10-watt emergency battery with regressed test switch [4]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch [5]

1 2

- 3
- Not available with WET/CC Trim Option. N Mounting Type only. Top access required. Must specify IP Trim Option. N Mounting Type only. Top access required. Not available with L5 lumen package. Not available with L5 lumen package or WET/CC Trim Option. N Mounting Type only. Δ 5

Top access required. Not available with L5 lumen package. Must specify IP Trim Option. N Mounting Type only. Top access required.

## MOUNTING DETAILS



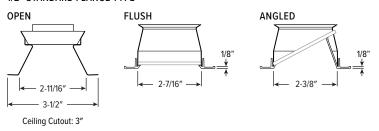
# **REFLECTOR FINISH DETAILS**

<b>SPC</b> Clear specular	<b>SG</b> Satin glow	<b>PW</b> Pewter	<b>GD</b> Gold	<b>CG</b> Champagne gold	<b>RG</b> Rose gold	<b>CS</b> Clear semi-specular	WH White	<b>BL</b> Black
		1.000						

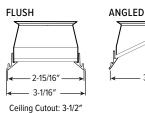
# 2DS tunable WHITE 2" Downlight – Square

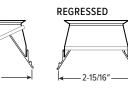
# TRIM TYPE DETAILS

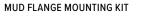




## ZERO-FLANGE MUD-IN



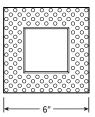




0

REGRESSED

2-11/16"



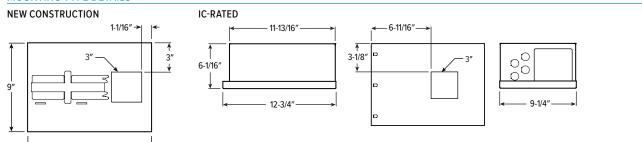
<u>↓ 9/1</u>6″ <u>↓</u> ↑ 1/8″

♦

5/8″

₹

# MOUNTING TYPE DETAILS



¥

3/4″

•

1/8″

SEE NEXT PAGE FOR MOUNTING DETAILS

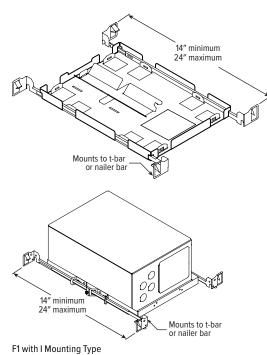
12-1/2"



# 2DS tunable WHITE 2" Downlight – Square

# MOUNTING HARDWARE DETAILS

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



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

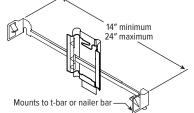
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)

> Mounts to t-bar or nailer bar

12" minimum

24″ maximum

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)

