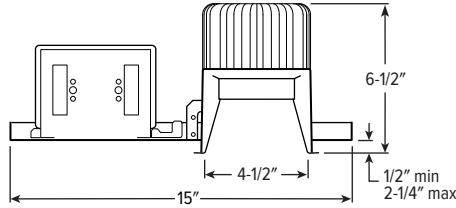
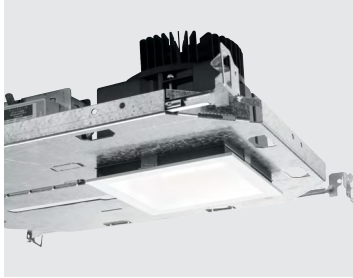


4DS tunable **RGBW** 4.5" Downlight – Square



CATALOG #: _____

TYPE: _____

PROJECT: _____



NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: **4DS - L22/RGB940 - OPTIONS - DMX - UNV - OW - OF - CS - TRIM OPTIONS - N - F1**

HOUSING
TRIM
MOUNT

HOUSING

SERIES	LUMENS ^[1]	COLOR/CRI	CCT	OPTIONS	CONTROL ^[2]	VOLTAGE
4DS	L22 2,200lm	RGB9 Red, green, blue, and 90 CRI white	27 2700K 30 3000K 35 3500K 40 4000K	EM/10W 10-watt emergency battery ^[3] 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] ATH Airtight construction	DMX DMX512/RDM	UNV 120-277V

TRIM ^[6]

TRIM TYPE	DISTRIBUTION ^[7]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	MWT Smooth matte white trim flange ^[11]
L Flush lens	55° Open	SF 1/4" mud-in flange ^[10]	WH White texture powder coat	IP IP65 rated trim ^[12]
R Regressed lens	60° Flush		BL Black texture powder coat	AD Diffuse acrylic lens ^[13]
A Angled lens ^[8]	60° Regressed			PD Diffuse 1/8" polycarbonate lens ^[14]
	WW Wall Wash ^[9]			WET/CC Wet location, covered ceiling listed ^[15]
				AM Anti-microbial ^[16]

MOUNTING

MOUNTING TYPE ^[17]	MOUNTING HARDWARE ^[18]
N Open pan for new construction	F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[20]
R Remodel kit ^[19]	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, CS Reflector Finish, 90CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- ² See page 3 for CONTROL DETAILS.
- ³ Not available with IP Option. Specify CEC in the option code when California Energy Commission regulations are required. White output only in emergency mode.
- ⁴ Not available with IP or WET/CC Options. Specify CEC in the option code when California Energy Commission regulations are required. White output only in emergency mode.
- ⁵ Must specify IP or WET/CC Trim Options. Specify CEC in the option code when California Energy Commission regulations are required. White output only in emergency mode.
- ⁶ Trim ships separately.
- ⁷ Beam angle based on CS or WH Reflector Finish.
- ⁸ Available with WW Distribution only.
- ⁹ A Trim Type only.
- ¹⁰ 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.
- ¹¹ Not available with WH Reflector Finish or L Trim Type.
- ¹² L and R Trim Types only.
- ¹³ Not available with F Trim Type. W and WW Distributions only.
- ¹⁴ Not available with F Trim Type. W and WW Distributions only.
- ¹⁵ L and R Trim Types only.
- ¹⁶ WH and BL Reflector Finishes only.
- ¹⁷ Mounting Hardware required for N Mounting Type, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- ¹⁸ Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- ¹⁹ Also used in new construction sheetrock ceilings. Pan-less installation.
- ²⁰ N Mounting Type only.
- ²¹ N Mounting Type only.
- ²² N Mounting Type only.



4DS tunable RGBW 4.5" Downlight – Square

FEATURES

- Create rich, vibrant designs with lasting visual impact using the full visible light spectrum
- Square shape accentuates architectural styles
- 4 inch aperture is unobtrusive in small scale spaces
- New construction mounting pan or pan-less remodel kit available
- Spring clip retention system eliminates trim sag
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Fully room-side accessible
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- Die-cast trim includes flush, regressed or angled lens.
- Low UGR meets LEED and WELL requirements
- 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. Clear semi-specular finish standard.
- **LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- **ELECTRICAL** – High-performance Class 2 CSP RGBW LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>60,000 hours (all colors). Reported L90: Red: >23,000 hours, Green: >44,000 hours, Blue: >60,000 hours, White: >48,000 hours
- **CONTROL** – DMX enabled; controllers provided by others.
- **MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required.
- **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 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

L22	O TRIM TYPE (CS REFLECTOR FINISH)								
	WHITE LED ONLY			RED ONLY		GREEN ONLY		BLUE ONLY	
	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	WATTAGE	MAX COLOR LUMENS	WATTAGE	MAX COLOR LUMENS	WATTAGE	MAX COLOR LUMENS
	56.3	2195	39.0	18.2	143	14.5	770	19.0	260

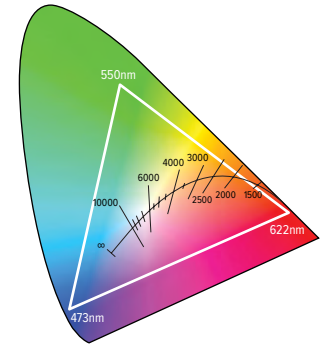
MULTIPLIER TABLES

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
2700K	0.92
3000K	0.94
3500K	0.96
4000K	1.00

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
WH	0.99
BL	0.79

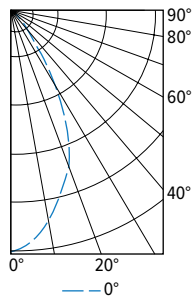
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
O	1.00
L	1.08
R	1.04
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, W Distribution, CS Reflector Finish, 90 CRI/4000K CCT, 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.



PHOTOMETRY

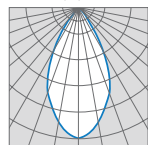
4DS-L22/RGB940-DMX-UNV-OW-OF-CS (White Only) Total Luminaire Output: 2195 lumens; 56.3 Watts | Efficacy: 39 lm/W | 90 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
		0	2822	2822	
5	2742	2716	2702	252	
15	2234	2089	2186	602	
25	1606	1460	1584	688	
35	611	868	576	456	
45	174	225	175	160	
55	29	38	26	36	
65	0	0	0	1	
75	0	0	0	0	
85	0	0	0	0	
90	0	0	0	0	

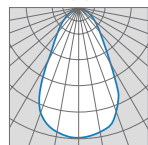
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1541	70
	0 - 40	1997	91
	0 - 60	2194	100
	0 - 90	2195	100
	0 - 180	2195	100

OPEN (F)



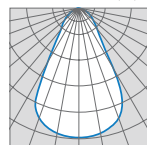
55° Wide

FLUSH (L)



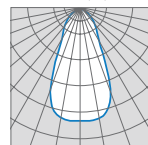
60° Wide

REGRESSED (R)



60° Wide

ANGLED (A)

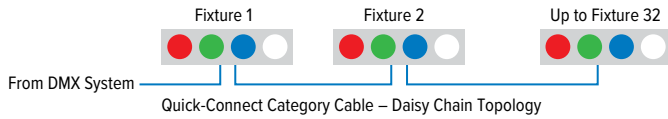


Wall Wash



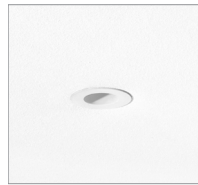
4DS tunable **RGBW** 4.5" Downlight – Square

CONTROL DETAILS



Note: Fixtures ship with DMX starting address of 1. (Red: 1, Green: 2, Blue: 3, White: 4). Terminator resistor (by others) is recommended at the end of each DMX run.

EMERGENCY BATTERY DETAILS

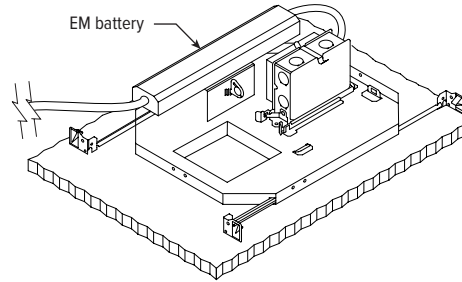
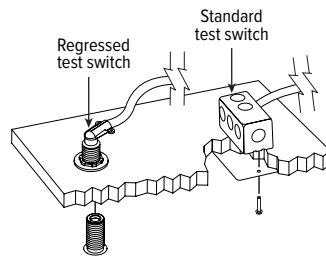


Regressed test switch
ø1-3/4"



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 See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat
4DR 6DR			
4DS 6DS			
4PR 6PR			
4PS 6PS			
4PS 6PS 8DR			

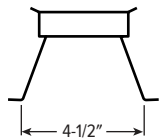
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

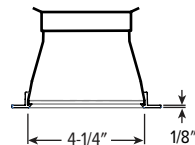
For limitations and instructions, see hew.com/aperture-adaptor.pdf

TRIM TYPE DETAILS

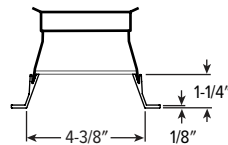
OPEN (F)



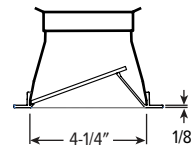
FLUSH



REGRESSED

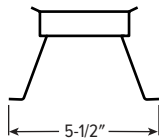


ANGLED



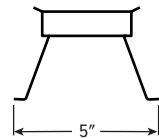
FLANGE TYPE DETAILS

1/2" STANDARD



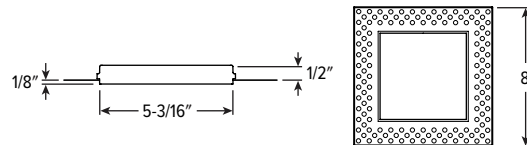
Ceiling Cutout: 5"

1/4" MUD-IN



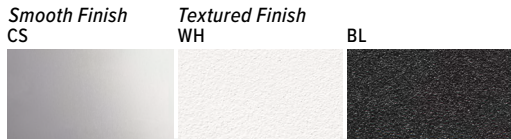
Ceiling cutout: 5-1/2"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



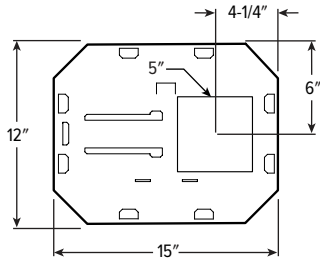
4DS tunable RGBW 4.5" Downlight – Square

REFLECTOR FINISH DETAILS

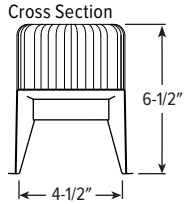


MOUNTING TYPE DETAILS

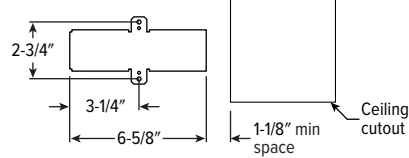
NEW CONSTRUCTION



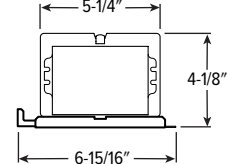
REMODEL



Receiver Bracket

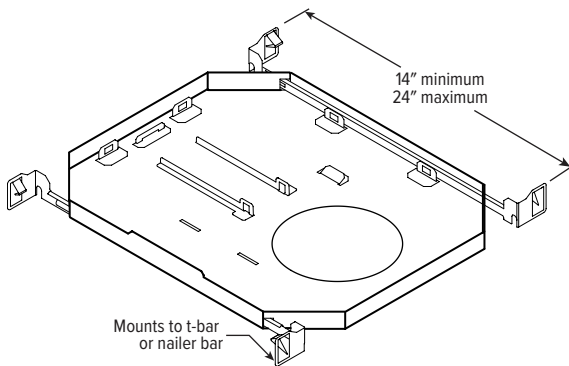


Driver and Junction Box

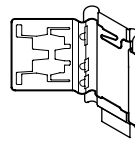


MOUNTING HARDWARE DETAILS

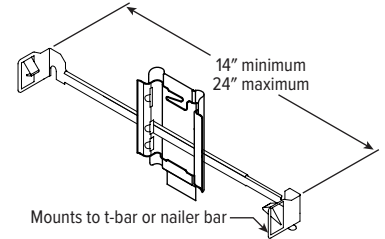
F1 Integral 2-position fixed pan bracket, universal bar hanger included



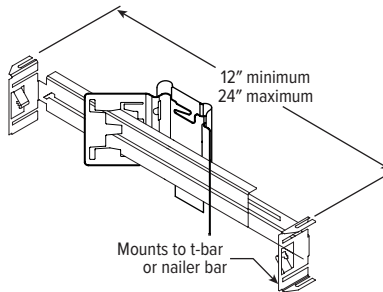
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



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



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

