

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

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

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



**NEW CONSTRUCTION AND REMODEL**

**ORDERING EXAMPLE:** 4DR - TL - L31/RGB940 - OPTIONS - DMX - UNV - FW - OF - CS - TRIM OPTIONS - N - F1  
 HOUSING TRIM MOUNT

**HOUSING**

SERIES	LUMENS <sup>[1]</sup>	COLOR/CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE
4DR - TL TrimLock	L31 3,100lm	RGB9 90	27 2700K 30 3000K 35 3500K 40 4000K	EM/10W 10-watt emergency battery <sup>[3]</sup> EM/10W/RTS 10-watt emergency battery with regressed test switch <sup>[4]</sup> EM/10W/IPRTS 10-watt emergency battery with IP65 rated regressed test switch <sup>[5]</sup> ATH Airtight construction	DMX DMX512/RDM	UNV 120-277V

**TRIM <sup>[6]</sup>**

TRIM TYPE	DISTRIBUTION <sup>[7]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
F Open reflector with frosted top diffuser <sup>[8]</sup> L Flush lens <sup>[9]</sup> R Regressed lens <sup>[10]</sup>	W Wide 60° Open 50° Flush 50° Regressed M Medium 50° Open N Narrow 25° Open	OF 1/2" standard flange SF 1/4" mud-in flange <sup>[11]</sup>	CS Clear semi-specular powder coat WH White texture powder coat <sup>[12]</sup> BL Black texture powder coat	MWT Smooth matte white trim flange <sup>[13]</sup> IP IP65 rated trim <sup>[14]</sup> AD Diffuse acrylic lens <sup>[15]</sup> PD Diffuse 1/8" polycarbonate lens <sup>[16]</sup> WET/CC Wet location, covered ceiling listed AM Anti-microbial <sup>[17]</sup>

**MOUNTING**

MOUNTING TYPE <sup>[18]</sup>	MOUNTING HARDWARE <sup>[19]</sup>
N Open pan for new construction R Remodel kit <sup>[20]</sup>	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[21]</sup> BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[22]</sup> CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[23]</sup>

**NOTES**

- <sup>1</sup> Lumen output based on F Trim Type, W Distribution, CS Reflector Finish, 90 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> See page 3 for CONTROL DETAILS.
- <sup>3</sup> Not available with IP Option. Specify CEC in the option code when California Energy Commission regulations are required. White output only in emergency mode.
- <sup>4</sup> 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.
- <sup>5</sup> 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.
- <sup>6</sup> Trim ships separately.
- <sup>7</sup> Beam angle based on CS or WH Reflector Finish.
- <sup>8</sup> WET/CC standard unless ordered with EM/RTS.
- <sup>9</sup> W Distribution only.
- <sup>10</sup> W Distribution only.
- <sup>11</sup> 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.
- <sup>12</sup> W Distribution only.
- <sup>13</sup> Not available with WH Reflector Finish or L Trim Type.
- <sup>14</sup> L and R Trim Types only.
- <sup>15</sup> L and R Trim Types only. W Distribution only.
- <sup>16</sup> L and R Trim Types only. W Distribution only.
- <sup>17</sup> WH and BL Reflector Finishes only.
- <sup>18</sup> Mounting Hardware required for N Mounting Type, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- <sup>19</sup> Additional Mounting Hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- <sup>20</sup> Also used in new construction sheetrock ceilings. Pan-less installation.
- <sup>21</sup> N Mounting Type only.
- <sup>22</sup> N Mounting Type only.
- <sup>23</sup> N Mounting Type only.

# 4DR tunable **RGBW** 4.5" Downlight – Round

## FEATURES

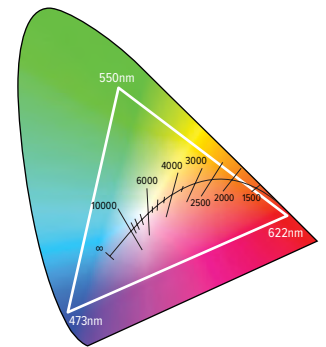
- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Create rich, vibrant designs with lasting visual impact using the full visible light spectrum
- 4 inch aperture is unobtrusive in small scale spaces
- Beam angles ranging from 25° narrow to 60° wide for tailored performance
- New construction mounting pan or pan-less remodel kit available
- Fully room-side accessible
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- 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".
- **TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- **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. 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 or F trim type.
  - 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](http://hew.com/buy-american)
- **WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

## FIXTURE PERFORMANCE DATA

		F TRIM TYPE (CS REFLECTOR FINISH)								
		WHITE LED ONLY			RED ONLY		GREEN ONLY		BLUE ONLY	
L31	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	WATTAGE	MAX COLOR LUMENS	WATTAGE	MAX COLOR LUMENS	WATTAGE	MAX COLOR LUMENS
	W	55.4	3098	56	17.9	206	14.4	1090	18.2	327
	M	55.4	3219	58	17.9	214	14.4	1132	18.2	340
N	55.4	2907	53	17.9	201	14.4	1063	18.2	319	



## MULTIPLIER TABLES

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

F TRIM	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
	CS	1.00
WH <sup>(1)</sup>	0.89	
BL <sup>(1)</sup>	0.47	

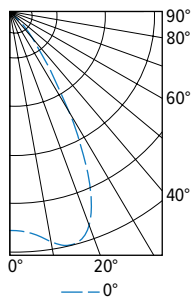
R TRIM	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
	WH	1.00
CS	0.98	
BL	0.79	

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	1.00
L	0.76
R	0.74
AD	0.94
PD	0.94

- Distribution will also be affected, consult factory.
  - Photometrics tested in accordance with IESNA LM-79. Results based on F 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

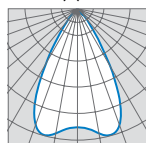
4DR-TL-L31/RGB940-DMX-UNV-FW-OF-CS (White Only) Total Luminaire Output: 3098 lumens; 55.4 Watts | Efficacy: 56 lm/W | 90 CRI; 4000K CCT



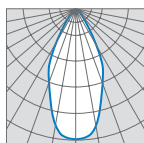
VERTICAL ANGLE	HORIZONTAL ANGLE	
	0°	ZONAL LUMENS
0	2942	
5	2993	291
15	3248	906
25	2499	1107
35	864	563
45	250	196
55	23	28
65	6	6
75	1	1
85	0	0
90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2866	93
	0 - 60	3090	100
	0 - 90	3098	100
	0-180	3098	100

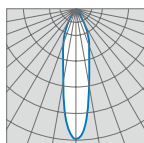
### OPEN (F)



60° Wide

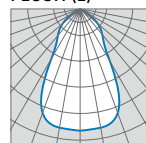


50° Medium



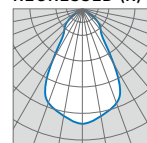
25° Narrow

### FLUSH (L)



50° Wide

### REGRESSED (R)

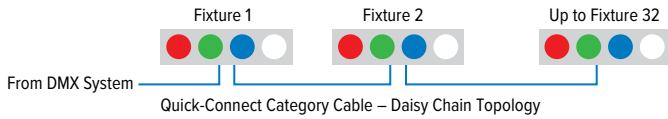


50° Wide



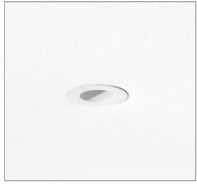
# 4DR tunable **RGBW** 4.5" Downlight – Round

## 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

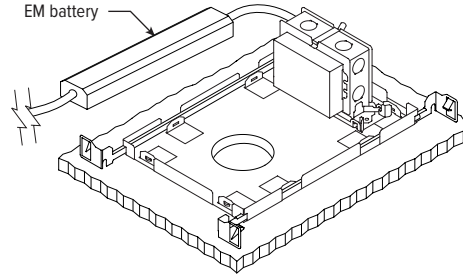
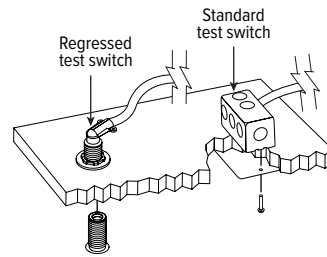


Regressed test switch  
ø1-3/4"



Standard test switch  
2-3/4" x 4-1/2"

Max remote distance is 50', connection by others.



## APERTURE ADAPTOR ORDERING INFO

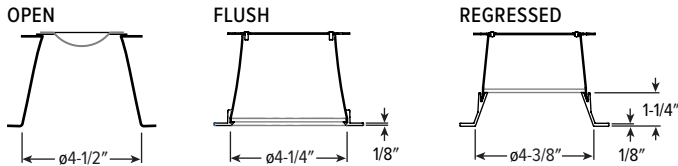
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR	6AR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575  See Kit Components for application limits.	CS Clear semi-specular powder coat
4DR	6DR		WH White texture powder coat
4DS	6DS		BL Black texture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

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

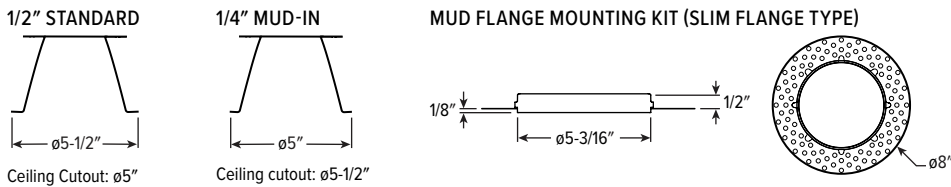
Additional finishes available, consult factory.

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

## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS

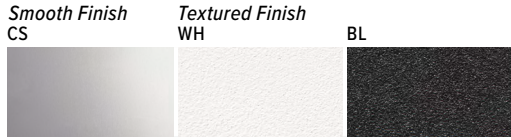


## TRIMLOCK DETAILS



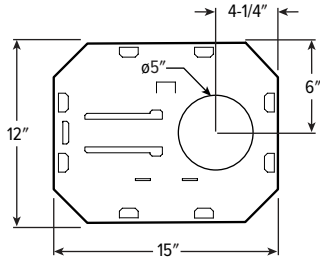
# 4DR tunable **RGBW** 4.5" Downlight – Round

## REFLECTOR FINISH DETAILS

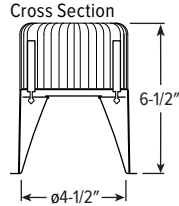


## MOUNTING TYPE DETAILS

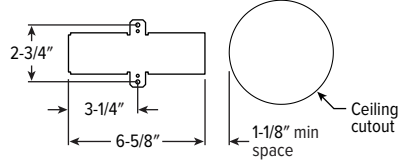
### NEW CONSTRUCTION



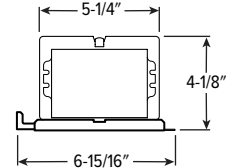
### REMODEL



### Receiver Bracket

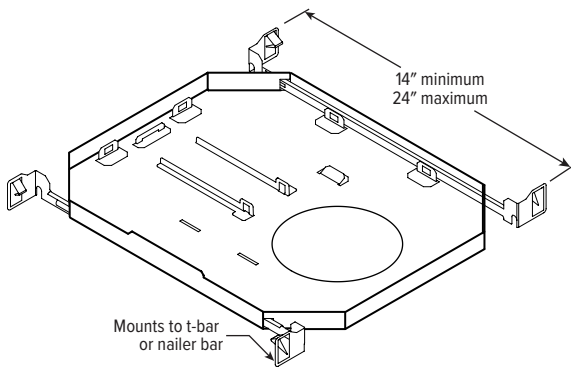


### Driver and Junction Box

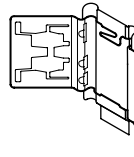


## MOUNTING HARDWARE DETAILS

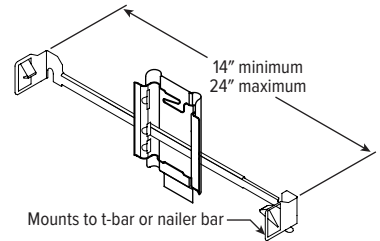
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



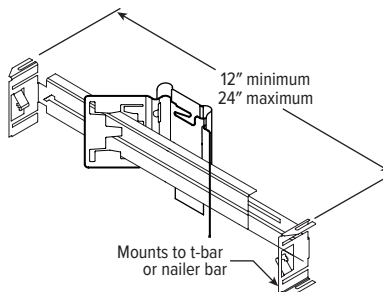
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**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)

