

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

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

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



**NEW CONSTRUCTION AND REMODEL**

ORDERING EXAMPLE: **6DS - L25/RGB940 - OPTIONS - DMX - UNV - OW - OF - CS - TRIM OPTIONS - N - F1**  
 HOUSING TRIM MOUNT

**HOUSING**

SERIES	LUMENS <sup>[1]</sup>	COLOR/CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE
6DS	L25 2,500lm	RGB990	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
O Open reflector	W Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	MWT Smooth matte white trim flange <sup>[9]</sup>
L Flush lens	55° Open	SF 1/4" mud-in flange <sup>[8]</sup>	WH White texture powder coat	IP IP65 rated trim <sup>[10]</sup>
R Regressed lens	65° Flush 65° Regressed		BL Black texture powder coat	AD Diffuse acrylic lens <sup>[11]</sup> PD Diffuse 1/8" polycarbonate lens <sup>[12]</sup> WET/CC Wet location, covered ceiling listed <sup>[13]</sup> AM Anti-microbial <sup>[14]</sup>

**MOUNTING**

MOUNTING TYPE <sup>[15]</sup>	MOUNTING HARDWARE <sup>[16]</sup>
N Open pan for new construction	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[18]</sup>
R Remodel kit <sup>[17]</sup>	BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[19]</sup> CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[20]</sup>

**NOTES**

- <sup>1</sup> Lumen output based on O 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> 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>9</sup> Not available with WH Reflector Finish or L Trim Type.
- <sup>10</sup> L and R Trim Types only.
- <sup>11</sup> L and R Trim Types only.
- <sup>12</sup> L and R Trim Types only.
- <sup>13</sup> L and R Trim Types only.
- <sup>14</sup> WH and BL Reflector Finishes only.
- <sup>15</sup> Mounting Hardware required for N Mounting Type, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- <sup>16</sup> Additional Mounting Hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- <sup>17</sup> Also used in new construction sheetrock ceilings. Pan-less installation.
- <sup>18</sup> N Mounting Type only.
- <sup>19</sup> N Mounting Type only.
- <sup>20</sup> N Mounting Type only.

### FEATURES

- Create rich, vibrant designs with lasting visual impact using the full visible light spectrum
- Square shape accentuates architectural styles
- New construction mounting pan or pan-less remodel kit available
- Spring clip retention system eliminates trim sag
- 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
- 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.
- **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.
  - IP65 rated when specified with IP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.mmm
  - 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

	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
L25	55.1	2451	44	17.8	133	14.3	603	18.1	246

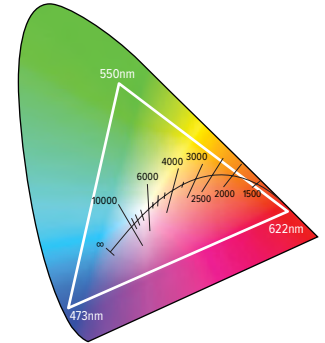
### MULTIPLIER TABLES

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

O TRIM	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
	CS	1.00
WH	0.89	
BL	0.79	

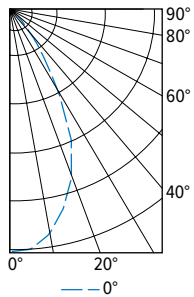
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
O	1.00
L	1.07
R	1.03
AD	0.85
PD	0.85

- 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

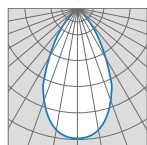
6DS-L25/RGB940-DMX-UNV-LW-OF-CS (White Only) Total Luminaire Output: 2451 lumens; 55.1 Watts | Efficacy: 44 lm/W | 90 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2823	2823	2823	
5	2803	2785	2774	262	
15	2407	2412	2389	671	
25	1680	1743	1655	771	
35	691	948	675	509	
45	197	306	192	200	
55	23	41	23	37	
65	0	0	0	1	
75	0	0	0	0	
85	0	0	0	0	
90	0	0	0	0	

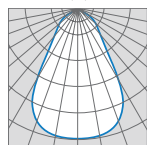
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1704	70
	0 - 40	2213	90
	0 - 60	2450	100
	0 - 90	2451	100
	0 - 180	2451	100

#### OPEN (F)



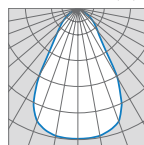
55° Wide

#### FLUSH (L)



65° Wide

#### REGRESSED (R)

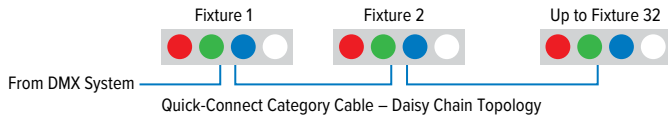


65° Wide



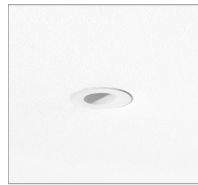
# 6DS tunable **RGBW** 6" Downlight – Square

## 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

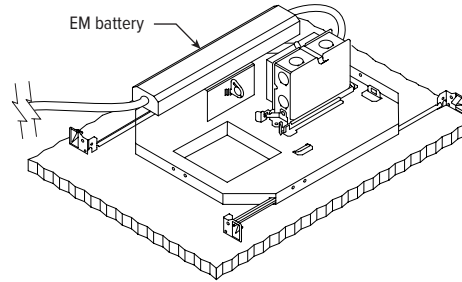
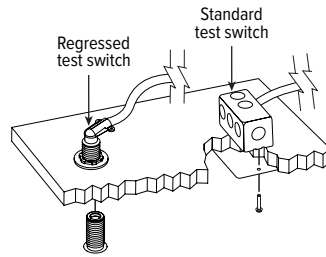


Regressed test switch  
ø1-3/4"



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

Max remote distance is 50',  
connection by others.



## APERTURE ADAPTOR ORDERING INFO

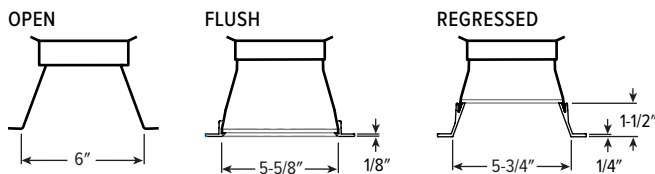
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat
4DR 6DR			WH White texture powder coat
4DS 6DS			BL Black texture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

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

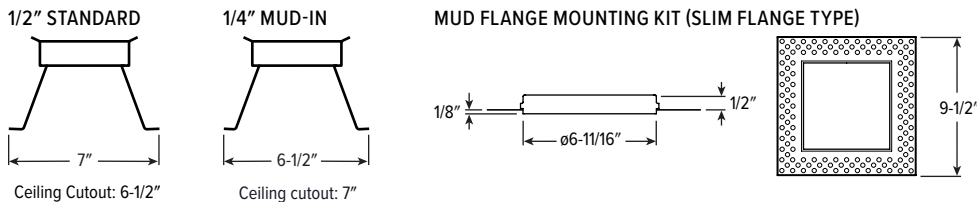
Additional finishes available, consult factory.

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

## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS

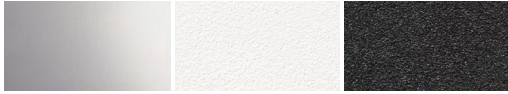


## REFLECTOR FINISH DETAILS

Smooth Finish  
CS

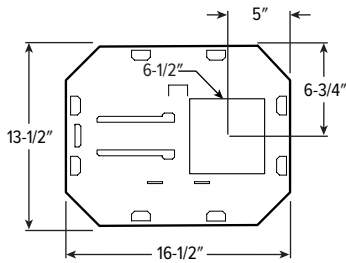
Textured Finish  
WH

BL

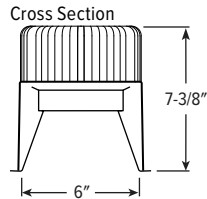


## MOUNTING TYPE DETAILS

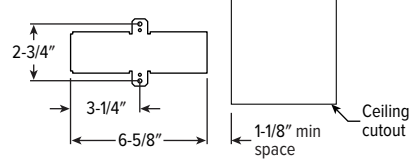
### NEW CONSTRUCTION



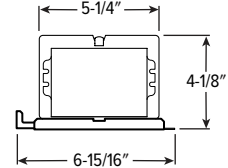
### REMODEL



### Receiver Bracket

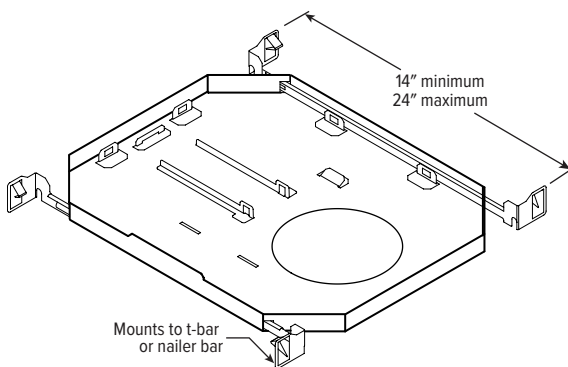


### Driver and Junction Box

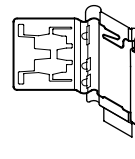


## MOUNTING HARDWARE DETAILS

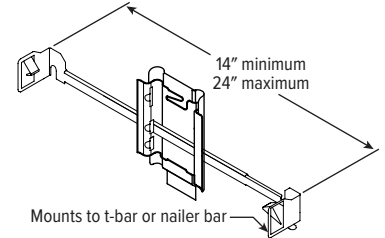
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



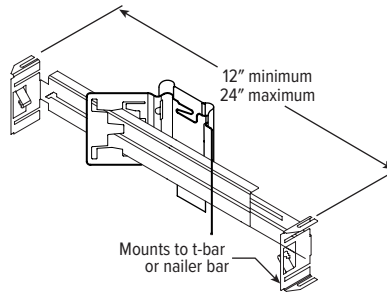
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**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)

