

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

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

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

### NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6DS - L20/8TW - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

TRIM

MOUNT



### HOUSING

SERIES	LUMENS <sup>[1]</sup>	COLOR	OPTIONS	CONTROL	VOLTAGE
6DS	L11 1,100lm L20 2,000lm L36 3,600lm	8TW Tunable white (80 CRI, 2700K-5000K)	See page 3 for EMERGENCY BATTERY OPTIONS. ATH Airtight construction CP Chicago plenum (CCEA) <sup>[2]</sup> F Fuse kit	See page 4 for CONTROL DETAILS. DALI Driver prewired for DALI applications DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT DMX Driver prewired for DMX applications PSQ Lutron T-Series 2-channel tunable white 1%. <sup>[3]</sup>	UNV 120-277V

### TRIM <sup>[4]</sup>

TRIM TYPE	DISTRIBUTION <sup>[5]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector L Flush lens R Regressed lens A Angled lens <sup>[6]</sup>	W Wide 55° Open 65° Flush 65° Regressed M Medium <sup>[7]</sup> 50° Open 35° Flush 35° Regressed N Narrow <sup>[8]</sup> 45° Open 25° Flush 25° Regressed WW Wall wash <sup>[9]</sup>	OF 1/2" standard flange SF 1/4" mud-in flange <sup>[10]</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>[11]</sup>	MWT Textured white trim flange <sup>[12]</sup> IP IP65 rated trim <sup>[13]</sup> AD Diffuse acrylic lens <sup>[14]</sup> PD Diffuse 1/8" polycarbonate lens <sup>[15]</sup> WET/CC Wet location, covered ceiling listed <sup>[16]</sup> AM Anti-microbial <sup>[17]</sup>

### MOUNTING

MOUNTING TYPE <sup>[18]</sup>	MOUNTING HARDWARE <sup>[19]</sup>
N Open pan for new construction I IC-rated enclosure for new construction <sup>[20]</sup> R Remodel kit <sup>[21]</sup>	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[22]</sup> BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[23]</sup> CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[24]</sup>

### NOTES

<sup>1</sup> Lumen output based on L trim type, W distribution and WH finish, 4000K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.

<sup>2</sup> I Mounting Type required.

<sup>3</sup> Not available with I Mounting Type.

<sup>4</sup> Trim ships separately.

<sup>5</sup> Beam angle based on CS or WH reflector finish.

<sup>6</sup> Available with WW Distribution only.

<sup>7</sup> Not available with lumen stop L36.

<sup>8</sup> Not available with lumen stop L36.

<sup>9</sup> O and A Trim Types only.

<sup>10</sup> For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.

<sup>11</sup> R Trim Type only. Not available with MWT.

<sup>12</sup> Not available with WH Reflector Finish or L Trim Type.

<sup>13</sup> L and R Trim Types only.

<sup>14</sup> Not available with O trim type. W and WW distributions only.

<sup>15</sup> Not available with O trim type. W and WW distributions only.

<sup>16</sup> Not available with O Trim Type. Not available with PD trim option.

<sup>17</sup> WH and BL Reflector Finishes only.

<sup>18</sup> Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.

<sup>19</sup> Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.

<sup>20</sup> L11 and L20 lumen packages only. Not available with EM batteries.

<sup>21</sup> Also used in new construction sheetrock ceilings. Pan-less installation.

<sup>22</sup> N and I Mounting Types only. I Mounting requires external brackets.

<sup>23</sup> N Mounting Type only.

<sup>24</sup> N Mounting Type only.



# 6DS tunable WHITE

## 6" Downlight – Square

### FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Beam angles ranging from 25° narrow to 65° wide for tailored performance
- Square shape accentuates architectural styles
- Open reflector with seven finishes complements any interior style
- Die-cast trim choices include flush, regressed or angled lens
- Spring clip retention system eliminates trim sag
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible

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

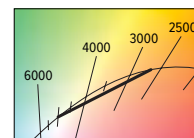
### FIXTURE PERFORMANCE DATA

#### OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	1097	14.6	75
	M	892	14.6	61
	N	880	14.6	60
L20	W	1863	24.0	78
	M	1513	24.0	63
	N	1455	24.0	61
L36	W	3474	44.9	77

#### FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	1168	14.6	80
	M	1196	14.6	82
	N	1165	14.6	80
L20	W	1990	24.0	83
	M	2027	24.0	85
	N	1929	24.0	80
L36	W	3698	44.9	82



#### REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	1122	14.6	77
	M	1165	14.6	80
	N	1159	14.6	79
L20	W	1906	24.0	79
	M	1969	24.0	82
	N	1916	24.0	80
L36	W	3553	44.9	79

#### 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

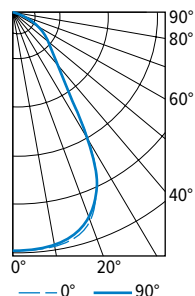
OPEN REFLECTOR FINISH		
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K, 80 CRI, actual lumens 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-L20/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1990 lumens; 24.0 Watts | Efficacy: 82.9 lm/W | 80.0 CRI; 4051K CCT



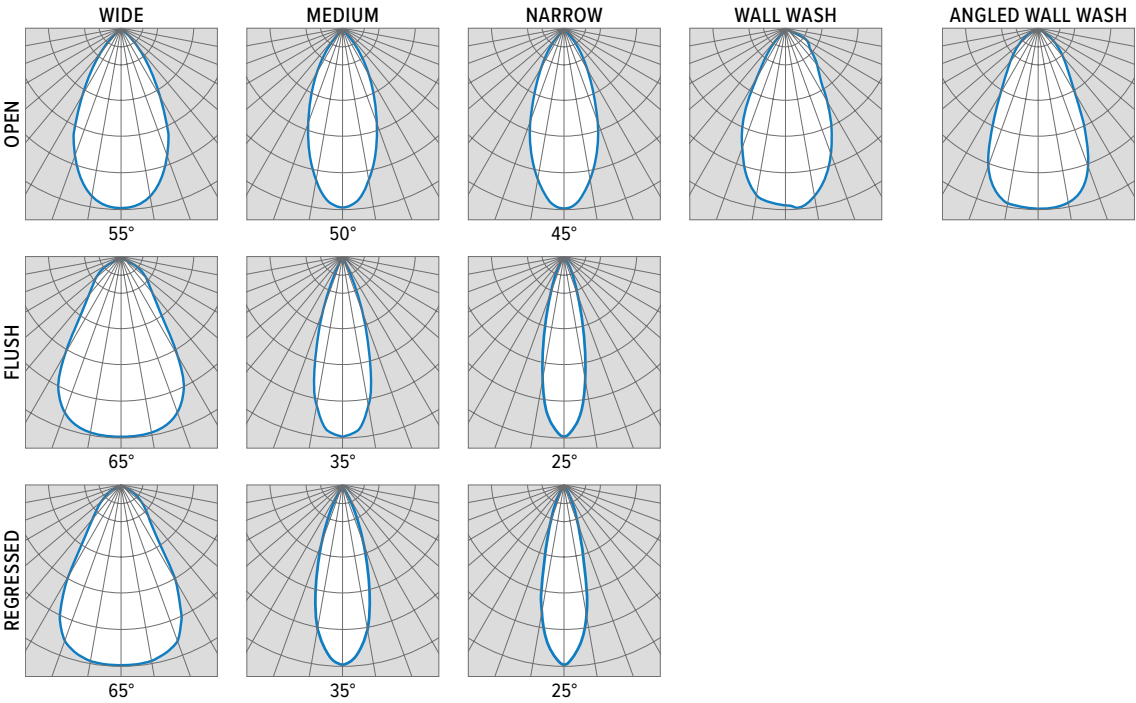
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1344	1344	1344	
5	1348	1341	1343	128
15	1317	1300	1300	367
25	1097	1210	1102	514
35	502	810	504	404
45	305	352	298	257
55	193	197	191	174
65	99	99	96	99
75	38	37	36	41
85	3	2	4	7
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1009	51
	0 - 40	1413	71
	0 - 60	1844	93
	0 - 90	1990	100
	0 - 180	1990	100



# 6DS tunable WHITE

## 6" Downlight – Square



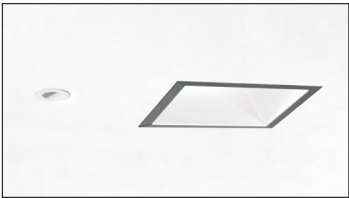
### EMERGENCY BATTERY OPTIONS

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

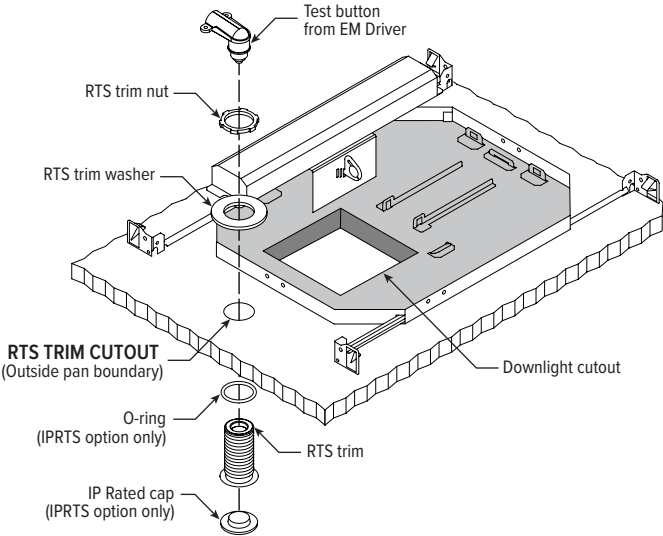
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery <sup>[1]</sup>
EM/7W/RTS	7-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery <sup>[1]</sup>
EM/10W/RTS	10-watt emergency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

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

### REGRESSED TEST SWITCH DETAILS



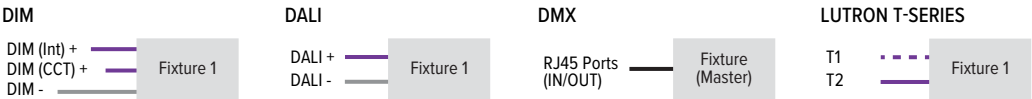
Shown Installed



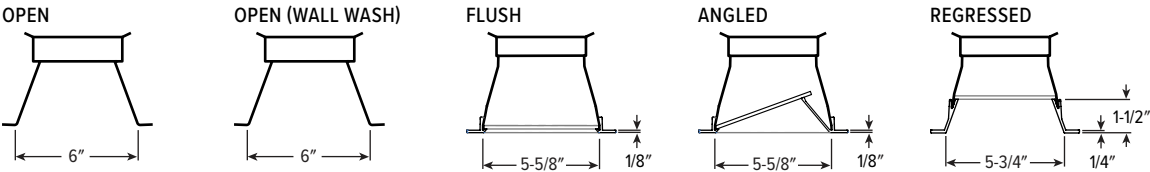
# 6DS tunable WHITE

## 6" Downlight – Square

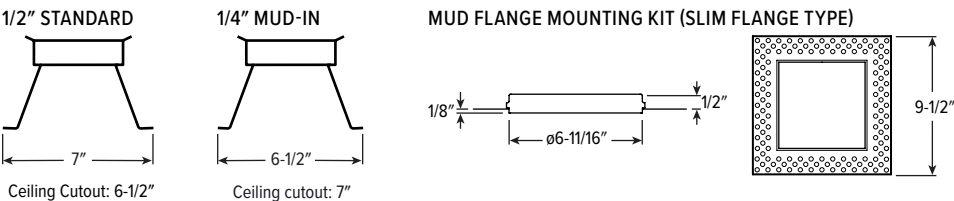
### CONTROL DETAILS



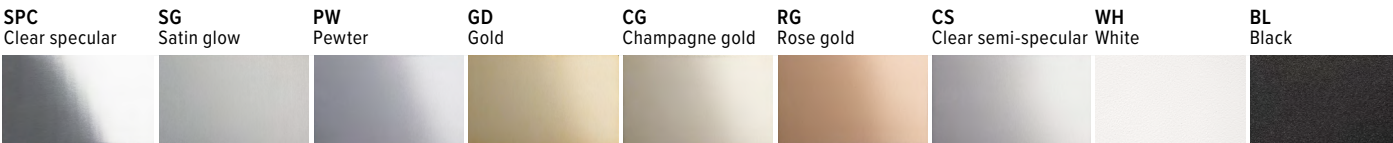
### TRIM TYPE DETAILS



### FLANGE TYPE DETAILS



### REFLECTOR FINISH DETAILS



### APERTURE ADAPTOR ORDERING INFO

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

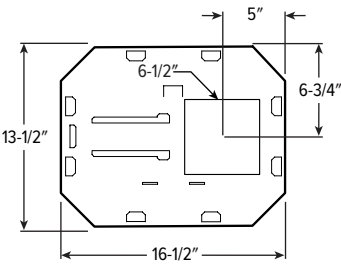
For use with remodel downlights. Additional finishes available, consult factory.  
For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)



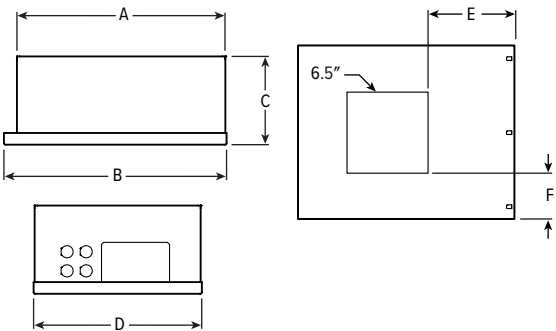
# 6DS tunable WHITE 6" Downlight – Square

## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

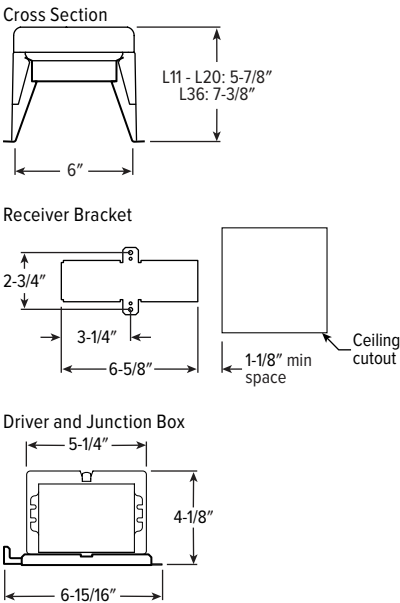


### IC-RATED



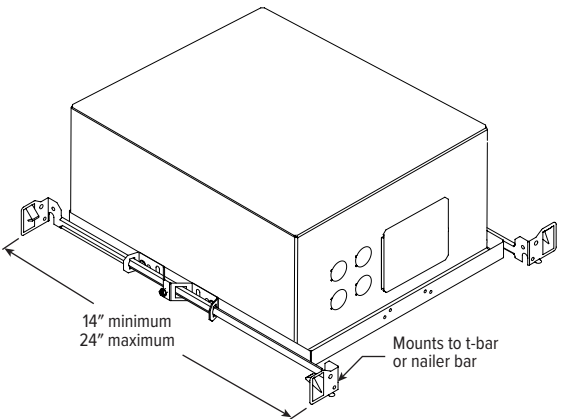
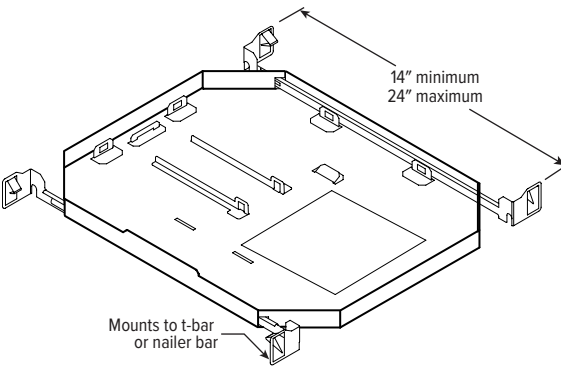
LUMENS	LENGTH					
	A	B	C	D	E	F
L11 - L20	15-3/16"	16"	6-3/8"	12-1/8"	6-1/4"	2-7/8"

### REMODEL



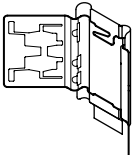
## MOUNTING HARDWARE DETAILS

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

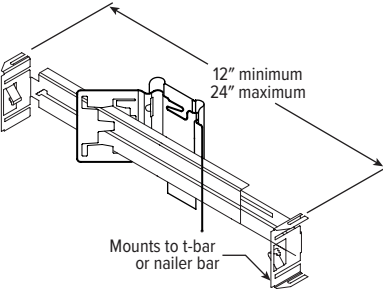


F1 with I Mounting Type

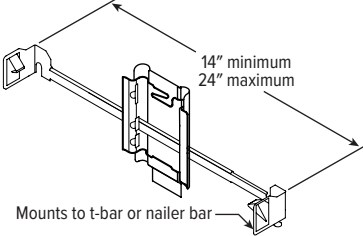
### BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



### 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)

